



Building knowledge

Job Order Contract Construction Task Catalog®

Book 1 of 2 CSI Divisions 01 - 26 July 2021

Monterey County
Roads and Bridges



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About the CTC:

- ☑ This Construction Task Catalog® (CTC) was developed and customized by The Gordian Group, Inc. specifically for **Monterey County**, priced locally using current labor, material and equipment costs, and published in July 2021.
- ☑ The Gordian Group, Inc. licenses the use of this CTC and other proprietary information and software for the sole purpose of providing Job Order Contracting services to **Monterey County**. Use of this CTC and other proprietary information and software for any other purpose, or for any other entity, is expressly prohibited without the express written consent of The Gordian Group, Inc.

MasterFormat™

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



The Unit Prices Include:

LABOR COSTS:

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

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EQUIPMENT COSTS:

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

MATERIAL COSTS:

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

The Adjustment Factors Include:

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

BUSINESS COSTS:

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

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

PROJECT RELATED COSTS:

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

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

PRICE VARIATIONS:

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

SUMMARY:

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

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

General Rules:

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

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

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

DEMOLITION:

- ☑ Unit prices for demolition include all labor, equipment and material required for the complete removal of the items; clean-up of the area; and transporting the demolished items up or down 2

stories into a truck, dumpster, or to an Owner designated area, located within 125' of the project site.

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

WORKING HEIGHT:

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

FIELD ENGINEERING:

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

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

ASSEMBLIES:

- ☑ Assembly Tasks take precedence over individual component Tasks.

RESTRICTED AND CONFINED SPACES:

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

Or Equals:

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

Useful Information:

UNIT OF MEASURE DEFINITIONS:

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

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

MATERIAL WEIGHTS:

EARTHEN MATERIAL

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

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

BULK FACTORS FOR DEMOLITION:

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

CONVERSIONS:

- 1 Acre** = 43,560 Square Feet = 4046.8 Square Meters
- 1 Board Foot** = 12" x 12" x 1" = 144 Cubic Inches
- 1 Centimeter** = 0.3937 Inches = 0.0328 Feet
- 1 Cubic Foot** = 0.03704 Cubic Yards = 0.02832 Cubic Meters
- 1 Cubic Meter** = 1.3080 Cubic Yards = 35.3147 Cubic Feet
- 1 Cubic Yard** = 27 Cubic Feet = 0.7646 Cubic Meters
- 1 Foot** = 12 Inches = 0.3048 Meters
- 1 Inch** = 2.54 Centimeters = 0.0254 Meters
- 1 Kilogram** = 2.2046 Pounds
- 1 Kilometer** = 0.6214 Miles = 3280 Feet
- 1 Meter** = 100 Centimeters = 3.2808 Feet
- 1 Mile** = 5280 Feet = 1.6093 Kilometers
- 1 Pound** = 0.4536 Kilograms
- 1 Square Foot** = 144 Square Inches = .0929 Square Meters
- 1 Square Meter** = 1.1960 Square Yards = 10.7639 Square Feet
- 1 Square Yard** = 9 Square Feet = 0.8361 Square Meters
- 1 Ton** = 2000 Pounds = 907.185 Kilograms
- 1 Yard** = 3 Feet = 0.9144 Meters

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

STANDARD GEOMETRY:

Circle

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

Cylinder

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

Sphere

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

$\pi = 3.14159$

United Inch

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

TRADEMARKS

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



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

01 20 Price and Payment Procedures ⁽⁰¹⁾

01 22 Unit Prices ^(01 20)

01 22 16 Unit Price Payment ^(01 22)

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

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

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

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

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

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

01 22 20 Wage Rates ^(01 22)

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

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

01 22 20 00-0002	HR	Asbestos Removal Worker.....	66.69
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
For Foreman, Add			3.33
For Apprentice, Deduct			-13.34
01 22 20 00-0003	HR	Brick Layer.....	97.91
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
For Foreman, Add			4.90
For Apprentice, Deduct			-19.58
01 22 20 00-0004	HR	Carpenter.....	103.58
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
For Foreman, Add			5.18
For Apprentice, Deduct			-20.72
01 22 20 00-0005	HR	Carpenter, Bridge Builder.....	119.95
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
For Foreman, Add			6.00
For Apprentice, Deduct			-23.99
01 22 20 00-0006	HR	Cement Mason.....	82.08
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
For Foreman, Add			4.10
For Apprentice, Deduct			-16.42
01 22 20 00-0007	HR	Electrician.....	100.21
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
For Foreman, Add			5.01
For Apprentice, Deduct			-20.04
01 22 20 00-0008	HR	Electrician, Cable Splicer.....	109.42
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
For Foreman, Add			5.47
For Apprentice, Deduct			-21.88
01 22 20 00-0009	HR	Electrical Groundman.....	109.42
Note: Line items in the CTC include appropriate costs to cover labor. These items will be requested specifically by the owner for miscellaneous work not covered in the CTC.			
For Foreman, Add			5.47
For Apprentice, Deduct			-21.88
01 22 20 00-0010	HR	High Voltage Electrician, (Utility Lineman).....	102.53
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
For Foreman, Add			5.13
For Apprentice, Deduct			-20.51
01 22 20 00-0011	HR	Communication And System Technician.....	93.19
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
For Apprentice, Deduct			-18.64
01 22 20 00-0012	HR	Equipment Operator, Crane (Group 1-A).....	102.98
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
01 22 20 00-0013	HR	Equipment Operator, Crane (Group 2-A).....	100.79
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
For Foreman, Add			5.04
For Apprentice, Deduct			-20.16
01 22 20 00-0014	HR	Equipment Operator, Crane (Group 3-A).....	98.66
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
01 22 20 00-0015	HR	Equipment Operator, Medium (Group 3).....	99.55
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
For Foreman, Add			4.98
For Apprentice, Deduct			-19.91

01	General Requirements
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0016 HR Equipment Operator, Medium (Group 4).....	97.79	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0017 HR Equipment Operator, Medium (Group 5).....	96.19	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0018 HR Equipment Operator, Light (Group 6).....	94.51	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.73	
For Apprentice, Deduct	-18.90	
01 22 20 00-0019 HR Equipment Operator, Light (Group 7).....	93.06	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0020 HR Equipment Operator, Light (Group 8).....	91.63	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0021 HR Laborer.....	74.79	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0022 HR Landscape Maintenance Laborer.....	74.79	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0023 HR Millwright.....	98.35	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.92	
For Apprentice, Deduct	-19.67	
01 22 20 00-0024 HR Mold Removal Worker.....	79.83	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	3.99	
For Apprentice, Deduct	-15.97	
01 22 20 00-0025 HR Painter, Ordinary.....	90.70	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.54	
For Apprentice, Deduct	-18.14	
01 22 20 00-0026 HR Painter, Structural Steel.....	95.02	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.75	
For Apprentice, Deduct	-19.00	
01 22 20 00-0027 HR Pile Drivers.....	116.16	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.81	
For Apprentice, Deduct	-23.23	
01 22 20 00-0028 HR Plasterer.....	94.86	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.74	
For Apprentice, Deduct	-18.97	
01 22 20 00-0029 HR Plumber.....	104.24	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.21	
For Apprentice, Deduct	-20.85	
01 22 20 00-0030 HR Powderman.....	78.70	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	3.94	
For Apprentice, Deduct	-15.74	
01 22 20 00-0031 HR Rodman (Reinforcing)/Ornamental Steel Worker.....	91.46	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.57	
For Apprentice, Deduct	-18.29	
01 22 20 00-0032 HR Sheet Metal Worker.....	111.37	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.57	
For Apprentice, Deduct	-22.27	
01 22 20 00-0033 HR Stone Mason.....	97.91	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.90	
For Apprentice, Deduct	-19.58	
01 22 20 00-0034 HR Iron Worker (Structural).....	93.97	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.70	
For Apprentice, Deduct	-18.79	
01 22 20 00-0035 HR Tile Layer.....	90.35	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.52	
For Apprentice, Deduct	-18.07	
01 22 20 00-0036 HR Terrazzo Worker.....	99.49	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.97	
For Apprentice, Deduct	-19.90	
01 22 20 00-0037 HR Truck Driver, Light (Group 1).....	79.32	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	3.97	
For Apprentice, Deduct	-15.86	
01 22 20 00-0038 HR Truck Driver, Medium (Group 2).....	79.73	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0039 HR Truck Driver, Heavy (Group 3).....	80.14	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.01	
For Apprentice, Deduct	-16.03	
01 22 20 00-0040 HR Truck Driver, Heavy (Group 4).....	80.62	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0041 HR D1 Certified Welder.....	105.81	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		



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

01 22 20 00-0043	HR	Watch/Guard Person, Unarmed.....	31.12
01 22 20 00-0044	HR	Watch/Guard Person, Armed.....	38.55
01 22 20 00-0045	HR	Senior Surveyor (Party Chief).....	108.23
01 22 20 00-0046	HR	Surveyor (Instrument person).....	103.50
01 22 20 00-0047	HR	Surveyor (Rod Person).....	99.08
01 22 20 00-0048	HR	On-Site Certified Materials Testing Technician.....	87.42
01 22 20 00-0049	HR	Certified Industrial Hygienist.....	118.02
01 22 20 00-0050	MI	Mileage For Professional Services (Engineering, Surveying, Etcetera).....	0.56
Note: For use only when the Owner directs the contractor to use personnel whose base of operations is more than 100 miles from the site. Quantity shall be miles that exceed 100.			
01 22 20 00-0051	EA	Security Badge, Processing Fee.....	62.24
01 22 20 00-0052	HR	Biologist.....	132.00
01 22 20 00-0053	HR	Ecologist.....	145.00
01 22 20 00-0054	HR	Fire Watch Laborer.....	74.79
Note: Fire watchers shall be required whenever welding or cutting is performed in locations where other than a minor fire might develop, or any of the following conditions exist: (1) Appreciable combustible material, in building construction or contents, closer than 35 feet (10.7 m) to the point of operation. (2) Appreciable combustibles are more than 35 feet (10.7 m) away but are easily ignited by sparks. (3) Wall or floor openings within a 35-foot (10.7 m) radius expose combustible material in adjacent areas including concealed spaces in walls or floors. (4) Combustible materials are adjacent to the opposite side of metal partitions, walls, ceilings, or roofs and are likely to be ignited by conduction or radiation.			

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

Note: For preparation of contract documents, structural and/or design drawings, special investigating requirements or services outside required architectural and engineering services.			
01 22 20 00-0056	HR	Principal Architect.....	212.52
01 22 20 00-0057	HR	Senior Architect.....	187.22
01 22 20 00-0058	HR	Architect.....	142.94
01 22 20 00-0059	HR	Principal Engineer.....	212.52
01 22 20 00-0060	HR	Senior Engineer.....	161.92
01 22 20 00-0061	HR	Engineer.....	129.03
01 22 20 00-0062	HR	Draft Person.....	76.53
01 22 20 00-0063	HR	Project Manager.....	151.80

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

01 22 20 00-0065	HR	Flagperson For Traffic Control.....	76.10
01 22 20 00-0066	DAY	Pilot Vehicle With Driver.....	946.35
Note: Includes radio, "Follow Me" sign, "Wait For Pilot Car" signs on barricades where required.			
01 22 20 00-0067	HR	California Highway Patrol Officer With Car.....	50.70
<i>For Each Mile, Add</i>			
			0.56
01 22 20 00-0068	HR	California Highway Patrol Officer With Motorcycle.....	51.22
<i>For Each Mile, Add</i>			
			0.90
01 22 20 00-0069	HR	California Highway Patrol Sergeant Officer With Car.....	62.13
<i>For Each Mile, Add</i>			
			0.90
01 22 20 00-0070	HR	California Highway Patrol Sergeant Officer With Motorcycle.....	62.28
<i>For Each Mile, Add</i>			
			0.90

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

01 22 20 00-0072	HR	Escort Vehicle With Driver.....	86.54
01 22 20 00-0073	HR	Transport Vehicle With Driver.....	118.35

01 22 23 Equipment Usage (01 22)

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

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

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

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

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

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

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

01 22 23 00-0005	DAY	40' Engine Powered, Telescoping Boom Man Lift With Platform.....	441.44
<i>For Four-Wheel Drive, Add</i>			
			99.32
01 22 23 00-0006	WK	40' Engine Powered, Telescoping Boom Man Lift With Platform.....	1,110.72
<i>For Four-Wheel Drive, Add</i>			
			249.91
01 22 23 00-0007	MO	40' Engine Powered, Telescoping Boom Man Lift With Platform.....	2,492.00
<i>For Four-Wheel Drive, Add</i>			
			560.70
01 22 23 00-0008	DAY	60' Engine Powered, Telescoping Boom Man Lift With Platform.....	647.92
<i>For Four-Wheel Drive, Add</i>			
			145.78
01 22 23 00-0009	WK	60' Engine Powered, Telescoping Boom Man Lift With Platform.....	1,545.04
<i>For Four-Wheel Drive, Add</i>			
			347.63

01	General Requirements
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01 22	Unit Prices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0010 MO 60' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	3,382.00 760.95	
01 22 23 00-0011 DAY 80' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	1,260.24 283.55	
01 22 23 00-0012 WK 80' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	3,054.48 687.26	
01 22 23 00-0013 MO 80' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	6,408.00 1,441.80	
01 22 23 00-0014 DAY 110' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	1,794.24 403.70	
01 22 23 00-0015 WK 110' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	4,320.42 972.09	
01 22 23 00-0016 MO 110' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	10,765.44 2,422.22	
01 22 23 00-0017 DAY 120' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	2,185.84 491.81	
01 22 23 00-0018 WK 120' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	5,574.96 1,254.37	
01 22 23 00-0019 MO 120' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	12,673.60 2,851.56	
01 22 23 00-0020 Articulating (Up/Over) Boom Man Lifts With Platform <small>(01 22 23 00-0002)</small>		
01 22 23 00-0021 Engine Powered, Articulating (Up/Over) Boom Man Lifts With Platform <small>(01 22 23 00-0020)</small>		
Note: Diesel or dual fuel (gasoline or liquid propane gas). Four-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0022 DAY 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	434.69	
01 22 23 00-0023 WK 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,090.68	
01 22 23 00-0024 MO 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,623.96	
01 22 23 00-0025 DAY 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	553.24	
01 22 23 00-0026 WK 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,209.24	
01 22 23 00-0027 MO 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	3,001.75	
01 22 23 00-0028 DAY 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	711.32	
01 22 23 00-0029 WK 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,643.93	
01 22 23 00-0030 MO 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	3,675.13	
01 22 23 00-0031 DAY 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,240.85	
01 22 23 00-0032 WK 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,924.30	
01 22 23 00-0033 MO 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	7,111.57	
01 22 23 00-0034 DAY 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,410.57	
01 22 23 00-0035 WK 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	5,690.52	
01 22 23 00-0036 MO 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	13,910.16	
01 22 23 00-0037 Electric, Articulating (Up/Over) Boom Man Lifts With Platform <small>(01 22 23 00-0020)</small>		
Note: For use on paved surfaces.		
01 22 23 00-0038 DAY 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform	434.69	
01 22 23 00-0039 WK 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,090.68	
01 22 23 00-0040 MO 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,623.96	
01 22 23 00-0041 DAY 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform	434.69	
01 22 23 00-0042 WK 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,090.68	
01 22 23 00-0043 MO 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,623.96	
01 22 23 00-0044 DAY 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform	537.44	
01 22 23 00-0045 WK 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,161.81	
01 22 23 00-0046 MO 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,884.78	
01 22 23 00-0047 DAY 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform	537.44	
01 22 23 00-0048 WK 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,161.81	
01 22 23 00-0049 MO 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,884.78	
01 22 23 00-0050 Platform Lifts <small>(01 22 23 00-0001)</small>		
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-0051 Electric, Scissor Platform Lifts <small>(01 22 23 00-0050)</small>		
Note: For use on paved surfaces.		
01 22 23 00-0052 DAY 17' Electric, Scissor Platform Lift	169.58	
01 22 23 00-0053 WK 17' Electric, Scissor Platform Lift	339.15	
01 22 23 00-0054 MO 17' Electric, Scissor Platform Lift	693.72	
01 22 23 00-0055 DAY 20' Electric, Scissor Platform Lift	184.99	
01 22 23 00-0056 WK 20' Electric, Scissor Platform Lift	369.98	
01 22 23 00-0057 MO 20' Electric, Scissor Platform Lift	739.97	
01 22 23 00-0058 DAY 25' Electric, Scissor Platform Lift	238.95	
01 22 23 00-0059 WK 25' Electric, Scissor Platform Lift	477.90	
01 22 23 00-0060 MO 25' Electric, Scissor Platform Lift	1,025.16	
01 22 23 00-0061 DAY 30' Electric, Scissor Platform Lift	308.32	
01 22 23 00-0062 WK 30' Electric, Scissor Platform Lift	608.93	
01 22 23 00-0063 MO 30' Electric, Scissor Platform Lift	1,348.90	
01 22 23 00-0064 DAY 33' Electric, Scissor Platform Lift	331.44	
01 22 23 00-0065 WK 33' Electric, Scissor Platform Lift	647.47	
01 22 23 00-0066 MO 33' Electric, Scissor Platform Lift	1,464.52	
01 22 23 00-0067 DAY 40' Electric, Scissor Platform Lift	431.65	
01 22 23 00-0068 WK 40' Electric, Scissor Platform Lift	1,071.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0069 MO 40' Electric, Scissor Platform Lift.....	2,983.00	
01 22 23 00-0070 Engine Powered, Scissor Platform Lifts <small>(01 22 23 00-0050)</small>		
<small>Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.</small>		
01 22 23 00-0071 DAY 25' Engine Powered, Scissor Platform Lift.....	346.86	
<i>For Four-Wheel Drive, Add</i>	69.37	
01 22 23 00-0072 WK 25' Engine Powered, Scissor Platform Lift.....	678.30	
<i>For Four-Wheel Drive, Add</i>	135.66	
01 22 23 00-0073 MO 25' Engine Powered, Scissor Platform Lift.....	1,657.22	
<i>For Four-Wheel Drive, Add</i>	331.44	
01 22 23 00-0074 DAY 33' Engine Powered, Scissor Platform Lift.....	354.57	
<i>For Four-Wheel Drive, Add</i>	70.91	
01 22 23 00-0075 WK 33' Engine Powered, Scissor Platform Lift.....	809.34	
<i>For Four-Wheel Drive, Add</i>	161.87	
01 22 23 00-0076 MO 33' Engine Powered, Scissor Platform Lift.....	1,772.84	
<i>For Four-Wheel Drive, Add</i>	354.57	
01 22 23 00-0077 DAY 40' Engine Powered, Scissor Platform Lift.....	393.11	
<i>For Four-Wheel Drive, Add</i>	78.62	
01 22 23 00-0078 WK 40' Engine Powered, Scissor Platform Lift.....	901.84	
<i>For Four-Wheel Drive, Add</i>	180.37	
01 22 23 00-0079 MO 40' Engine Powered, Scissor Platform Lift.....	2,004.08	
<i>For Four-Wheel Drive, Add</i>	400.82	
01 22 23 00-0080 DAY 43' Engine Powered, Scissor Platform Lift.....	416.23	
<i>For Four-Wheel Drive, Add</i>	83.25	
01 22 23 00-0081 WK 43' Engine Powered, Scissor Platform Lift.....	971.21	
<i>For Four-Wheel Drive, Add</i>	194.24	
01 22 23 00-0082 MO 43' Engine Powered, Scissor Platform Lift.....	2,389.48	
<i>For Four-Wheel Drive, Add</i>	477.90	
01 22 23 00-0083 DAY 50' Engine Powered, Scissor Platform Lift.....	778.51	
<i>For Four-Wheel Drive, Add</i>	155.70	
01 22 23 00-0084 WK 50' Engine Powered, Scissor Platform Lift.....	1,711.18	
<i>For Four-Wheel Drive, Add</i>	342.24	
01 22 23 00-0085 MO 50' Engine Powered, Scissor Platform Lift.....	4,208.57	
<i>For Four-Wheel Drive, Add</i>	841.71	
01 22 23 00-0086 Personnel Lifts <small>(01 22 23 00-0001)</small>		
<small>Note: Includes delivery to job site and pick-up when complete. Excludes operator. For use on paved surfaces.</small>		
01 22 23 00-0087 DAY 24', Push-Type, Electric Single Man Personnel Lift.....	132.19	
01 22 23 00-0088 WK 24', Push-Type, Electric Single Man Personnel Lift.....	374.54	
01 22 23 00-0089 MO 24', Push-Type, Electric Single Man Personnel Lift.....	756.43	
01 22 23 00-0090 DAY 30', Push-Type, Electric Single Man Personnel Lift.....	183.60	
01 22 23 00-0091 WK 30', Push-Type, Electric Single Man Personnel Lift.....	389.23	
01 22 23 00-0092 MO 30', Push-Type, Electric Single Man Personnel Lift.....	1,321.92	
01 22 23 00-0093 DAY 36', Push-Type, Electric Single Man Personnel Lift.....	308.45	
01 22 23 00-0094 WK 36', Push-Type, Electric Single Man Personnel Lift.....	749.09	
01 22 23 00-0095 MO 36', Push-Type, Electric Single Man Personnel Lift.....	2,188.51	
01 22 23 00-0096 DAY 40', Push-Type, Electric Single Man Personnel Lift.....	330.48	
01 22 23 00-0097 WK 40', Push-Type, Electric Single Man Personnel Lift.....	822.53	
01 22 23 00-0098 MO 40', Push-Type, Electric Single Man Personnel Lift.....	2,474.93	
01 22 23 00-0099 DAY 15', Self-Propelled, Electric Single Man Personnel Lift.....	176.26	
01 22 23 00-0100 WK 15', Self-Propelled, Electric Single Man Personnel Lift.....	352.51	
01 22 23 00-0101 MO 15', Self-Propelled, Electric Single Man Personnel Lift.....	705.02	
01 22 23 00-0102 DAY 20', Self-Propelled, Electric Single Man Personnel Lift.....	176.26	
01 22 23 00-0103 WK 20', Self-Propelled, Electric Single Man Personnel Lift.....	352.51	
01 22 23 00-0104 MO 20', Self-Propelled, Electric Single Man Personnel Lift.....	732.93	
01 22 23 00-0105 Bucket Trucks <small>(01 22 23 00-0001)</small>		
<small>Note: Includes full-time operator, delivery, and removal.</small>		
01 22 23 00-0106 DAY 29' Bucket Truck With Full-Time Operator.....	1,208.31	
<i>For Equipment Without Operator, Deduct</i>	-641.15	
01 22 23 00-0107 WK 29' Bucket Truck With Full-Time Operator.....	4,907.22	
<i>For Equipment Without Operator, Deduct</i>	-3,205.74	
01 22 23 00-0108 MO 29' Bucket Truck With Full-Time Operator.....	18,222.58	
<i>For Equipment Without Operator, Deduct</i>	-13,891.54	
01 22 23 00-0109 DAY 38' Bucket Truck With Full-Time Operator.....	1,280.49	
<i>For Equipment Without Operator, Deduct</i>	-641.15	
01 22 23 00-0110 WK 38' Bucket Truck With Full-Time Operator.....	5,139.24	
<i>For Equipment Without Operator, Deduct</i>	-3,205.74	
01 22 23 00-0111 MO 38' Bucket Truck With Full-Time Operator.....	18,841.30	
<i>For Equipment Without Operator, Deduct</i>	-13,891.54	
01 22 23 00-0112 DAY 48' Bucket Truck With Full-Time Operator.....	1,466.11	
<i>For Equipment Without Operator, Deduct</i>	-641.15	
01 22 23 00-0113 WK 48' Bucket Truck With Full-Time Operator.....	5,474.38	
<i>For Equipment Without Operator, Deduct</i>	-3,205.74	
01 22 23 00-0114 MO 48' Bucket Truck With Full-Time Operator.....	19,563.14	
<i>For Equipment Without Operator, Deduct</i>	-13,891.54	
01 22 23 00-0115 DAY 62' Bucket Truck With Full-Time Operator.....	1,878.59	
<i>For Equipment Without Operator, Deduct</i>	-641.15	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0116 WK 62' Bucket Truck With Full-Time Operator	6,814.94	
For Equipment Without Operator, Deduct	-3,205.74	
01 22 23 00-0117 MO 62' Bucket Truck With Full-Time Operator	23,172.34	
For Equipment Without Operator, Deduct	-13,891.54	
01 22 23 00-0118 DAY 85' Bucket Truck With Full-Time Operator	2,084.83	
For Equipment Without Operator, Deduct	-641.15	
01 22 23 00-0119 WK 85' Bucket Truck With Full-Time Operator	7,536.78	
For Equipment Without Operator, Deduct	-3,205.74	
01 22 23 00-0120 MO 85' Bucket Truck With Full-Time Operator	25,750.34	
For Equipment Without Operator, Deduct	-13,891.54	
01 22 23 00-0121 Day 105' Bucket Truck With Full-Time Operator	2,187.95	
For Equipment Without Operator, Deduct	-641.15	
01 22 23 00-0122 WK 105' Bucket Truck With Full-Time Operator	7,846.14	
For Equipment Without Operator, Deduct	-3,205.74	
01 22 23 00-0123 MO 105' Bucket Truck With Full-Time Operator	25,997.83	
For Equipment Without Operator, Deduct	-13,891.54	
01 22 23 00-0124 Air Equipment <small>(01 22 23)</small>		
01 22 23 00-0125 Air Compressors <small>(01 22 23 00-0124)</small>		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0126 DAY 100 CFM Diesel Powered Portable Air Compressor	172.94	
01 22 23 00-0127 WK 100 CFM Diesel Powered Portable Air Compressor	518.80	
01 22 23 00-0128 MO 100 CFM Diesel Powered Portable Air Compressor	1,441.12	
01 22 23 00-0129 DAY 130 CFM Diesel Powered Portable Air Compressor	207.52	
01 22 23 00-0130 WK 130 CFM Diesel Powered Portable Air Compressor	611.04	
01 22 23 00-0131 MO 130 CFM Diesel Powered Portable Air Compressor	1,729.35	
01 22 23 00-0132 DAY 185 CFM Diesel Powered Portable Air Compressor	276.70	
01 22 23 00-0133 WK 185 CFM Diesel Powered Portable Air Compressor	622.57	
01 22 23 00-0134 MO 185 CFM Diesel Powered Portable Air Compressor	1,371.95	
01 22 23 00-0135 DAY 375 CFM Diesel Powered Portable Air Compressor	391.99	
01 22 23 00-0136 WK 375 CFM Diesel Powered Portable Air Compressor	991.49	
01 22 23 00-0137 MO 375 CFM Diesel Powered Portable Air Compressor	2,363.44	
01 22 23 00-0138 DAY 600 CFM Diesel Powered Portable Air Compressor	871.59	
01 22 23 00-0139 WK 600 CFM Diesel Powered Portable Air Compressor	2,098.28	
01 22 23 00-0140 MO 600 CFM Diesel Powered Portable Air Compressor	5,229.55	
01 22 23 00-0141 DAY 750 CFM Diesel Powered Portable Air Compressor	1,049.14	
01 22 23 00-0142 WK 750 CFM Diesel Powered Portable Air Compressor	2,582.50	
01 22 23 00-0143 MO 750 CFM Diesel Powered Portable Air Compressor	6,340.95	
01 22 23 00-0144 DAY 825 CFM Diesel Powered Portable Air Compressor	1,049.14	
01 22 23 00-0145 WK 825 CFM Diesel Powered Portable Air Compressor	2,582.50	
01 22 23 00-0146 MO 825 CFM Diesel Powered Portable Air Compressor	6,340.95	
01 22 23 00-0147 DAY 1,300 CFM Diesel Powered Portable Air Compressor	1,222.07	
01 22 23 00-0148 WK 1,300 CFM Diesel Powered Portable Air Compressor	2,739.29	
01 22 23 00-0149 MO 1,300 CFM Diesel Powered Portable Air Compressor	7,304.77	
01 22 23 00-0150 DAY 1,600 CFM Diesel Powered Portable Air Compressor	1,521.83	
01 22 23 00-0151 WK 1,600 CFM Diesel Powered Portable Air Compressor	3,424.11	
01 22 23 00-0152 MO 1,600 CFM Diesel Powered Portable Air Compressor	9,130.97	
01 22 23 00-0153 Portable Negative Air Machines <small>(01 22 23 00-0124)</small>		
Note: A Negative Air Machine is used in a sealed containment area to filter air and exhaust the filtered air through ducting to a location outside the sealed containment area. Includes delivery to job site and pick-up when complete. Excludes all filters and duct.		
01 22 23 00-0154 DAY Up To 2,000 CFM, Portable Negative Air Machine	89.03	
01 22 23 00-0155 WK Up To 2,000 CFM, Portable Negative Air Machine	365.68	
01 22 23 00-0156 MO Up To 2,000 CFM, Portable Negative Air Machine	1,104.98	
01 22 23 00-0157 EA First Stage Pre-Filter For Portable Negative Air Machines	13.89	
01 22 23 00-0158 EA Second Stage Pre-Filter For Portable Negative Air Machines	34.01	
01 22 23 00-0159 EA High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Portable Negative Air Machines	182.24	
01 22 23 00-0160 LF Flexible Exhaust Duct For Portable Negative Air Machines	1.33	
01 22 23 00-0161 Compaction And Paving Equipment <small>(01 22 23)</small>		
01 22 23 00-0162 Pavers And Rollers <small>(01 22 23 00-0161)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0163 Pavers <small>(01 22 23 00-0162)</small>		
01 22 23 00-0164 DAY 10' Wide Paving Machine With Full-Time Operator	3,211.42	
For Equipment Without Operator, Deduct	-796.43	
01 22 23 00-0165 WK 10' Wide Paving Machine With Full-Time Operator	13,642.13	
For Equipment Without Operator, Deduct	-3,982.15	
01 22 23 00-0166 MO 10' Wide Paving Machine With Full-Time Operator	51,756.51	
For Equipment Without Operator, Deduct	-17,255.99	
01 22 23 00-0167 Ride-On Self-Propelled, Rubber Tire Rollers <small>(01 22 23 00-0162)</small>		
01 22 23 00-0168 DAY 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	1,177.67	
For Equipment Without Operator, Deduct	-796.43	
01 22 23 00-0169 WK 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	5,135.25	
For Equipment Without Operator, Deduct	-3,982.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0170 MO 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator.....	20,386.21	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0171 DAY 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator.....	1,324.82	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0172 WK 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator.....	6,229.49	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0173 MO 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator.....	22,038.27	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0174 DAY 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator.....	1,331.51	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0175 WK 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator.....	5,794.73	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0176 MO 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator.....	22,359.32	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0177 Ride-On Self-Propelled, Padfoot Rollers (01 22 23 00-0162)		
01 22 23 00-0178 DAY 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,237.87	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0179 WK 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,206.15	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0180 MO 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	20,794.21	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0181 DAY 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,518.79	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0182 WK 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,774.67	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0183 MO 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	22,586.72	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0184 DAY 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,585.67	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0185 WK 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,196.04	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0186 MO 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	23,763.90	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0187 Towed, Padfoot Rollers (01 22 23 00-0162)		
01 22 23 00-0188 DAY 48" Wide, 40" Diameter, Towed Padfoot Roller	127.08	
01 22 23 00-0189 WK 48" Wide, 40" Diameter, Towed Padfoot Roller	367.87	
01 22 23 00-0190 MO 48" Wide, 40" Diameter, Towed Padfoot Roller	1,083.54	
01 22 23 00-0191 DAY 60" Wide, 60" Diameter, Towed Padfoot Roller	160.52	
01 22 23 00-0192 WK 60" Wide, 60" Diameter, Towed Padfoot Roller	448.13	
01 22 23 00-0193 MO 60" Wide, 60" Diameter, Towed Padfoot Roller	1,906.22	
01 22 23 00-0194 Static Rollers (01 22 23 00-0162)		
01 22 23 00-0195 DAY 5 Ton, 2 Drum Articulated Roller With Full-Time Operator.....	1,271.31	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0196 WK 5 Ton, 2 Drum Articulated Roller With Full-Time Operator.....	5,493.75	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0197 MO 5 Ton, 2 Drum Articulated Roller With Full-Time Operator.....	21,737.29	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0198 DAY 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator.....	1,418.46	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0199 WK 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator.....	5,895.06	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0200 MO 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator.....	22,847.58	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0201 Ride-On Self-Propelled, Smooth Drum Vibratory Rollers (01 22 23 00-0162)		
01 22 23 00-0202 DAY 1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,057.28	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0203 WK 1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	4,744.64	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0204 MO 1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	19,262.54	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0205 DAY 3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,157.61	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0206 WK 3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,045.62	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0207 MO 3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	20,065.16	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0208 DAY 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,224.49	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0209 WK 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,246.28	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0210 MO 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	20,600.24	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0211 DAY 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,311.44	
<i>For Equipment Without Operator, Deduct</i>	-796.43	

01	General Requirements
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MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 22 23 00-0212	WK	8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,500.44	
		<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0213	MO	8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	21,262.40	
		<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0214	DAY	11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,485.35	
		<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0215	WK	11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,008.77	
		<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0216	MO	11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	22,606.79	
		<i>For Equipment Without Operator, Deduct</i>	-17,255.99	

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

Note: 3 day minimum. Excludes delivery. See CSI section 01 71 13 00-0001 for material delivery on truck.

01 22 23 00-0218	EA	Mobilization of Steel Roadway Plates	405.12	
		Note: Mobilization for each site location.		
01 22 23 00-0219	EA	Placement And Removal Of Steel Roadway Plates	49.55	
01 22 23 00-0220	DAY	1" x 4' x 8' Steel Plate	35.72	
01 22 23 00-0221	WK	1" x 4' x 8' Steel Plate	84.35	
01 22 23 00-0222	MO	1" x 4' x 8' Steel Plate	111.00	
01 22 23 00-0223	DAY	1" x 4' x 10' Steel Plate	47.63	
01 22 23 00-0224	WK	1" x 4' x 10' Steel Plate	107.17	
01 22 23 00-0225	MO	1" x 4' x 10' Steel Plate	130.98	
01 22 23 00-0226	DAY	1" x 5' x 10' Steel Plate	49.62	
01 22 23 00-0227	WK	1" x 5' x 10' Steel Plate	112.13	
01 22 23 00-0228	MO	1" x 5' x 10' Steel Plate	297.69	
01 22 23 00-0229	DAY	1" x 6' x 8' Steel Plate	31.75	
01 22 23 00-0230	WK	1" x 6' x 8' Steel Plate	71.45	
01 22 23 00-0231	MO	1" x 6' x 8' Steel Plate	190.52	
01 22 23 00-0232	DAY	1" x 6' x 10' Steel Plate	59.54	
01 22 23 00-0233	WK	1" x 6' x 10' Steel Plate	78.39	
01 22 23 00-0234	MO	1" x 6' x 10' Steel Plate	209.38	
01 22 23 00-0235	DAY	1" x 6' x 12' Steel Plate	83.35	
01 22 23 00-0236	WK	1" x 6' x 12' Steel Plate	106.67	
01 22 23 00-0237	MO	1" x 6' x 12' Steel Plate	288.76	
01 22 23 00-0238	DAY	1" x 8' x 10' Steel Plate	52.59	
01 22 23 00-0239	WK	1" x 8' x 10' Steel Plate	118.08	
01 22 23 00-0240	MO	1" x 8' x 10' Steel Plate	314.56	
01 22 23 00-0241	DAY	1" x 8' x 12' Steel Plate	95.26	
01 22 23 00-0242	WK	1" x 8' x 12' Steel Plate	118.08	
01 22 23 00-0243	MO	1" x 8' x 12' Steel Plate	571.56	
01 22 23 00-0244	DAY	1" x 8' x 16' Steel Plate	127.01	
01 22 23 00-0245	WK	1" x 8' x 16' Steel Plate	285.78	
01 22 23 00-0246	MO	1" x 8' x 16' Steel Plate	762.09	
01 22 23 00-0247	DAY	1-1/4" x 8' x 10' Steel Plate	63.11	
01 22 23 00-0248	WK	1-1/4" x 8' x 10' Steel Plate	141.70	
01 22 23 00-0249	MO	1-1/4" x 8' x 10' Steel Plate	377.47	
01 22 23 00-0250	DAY	1-1/2" x 8' x 15' Steel Plate	146.07	
01 22 23 00-0251	WK	1-1/2" x 8' x 15' Steel Plate	328.65	
01 22 23 00-0252	MO	1-1/2" x 8' x 15' Steel Plate	876.40	
01 22 23 00-0253	LF	Cold Mix For Temporary Ramp Base, 6" At Edge Of Trench Plate	1.98	0.92
01 22 23 00-0254	EA	Removal And Resetting Of Steel Roadway Plate	27.53	

01 22 23 00-0255 Street Sweepers (01 22 23 00-0161)

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

01 22 23 00-0256	DAY	8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	958.88	
		<i>For Equipment Without Operator, Deduct</i>	-756.04	
01 22 23 00-0257	WK	8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	4,584.01	
		<i>For Equipment Without Operator, Deduct</i>	-3,780.22	
01 22 23 00-0258	MO	8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	19,244.68	
		<i>For Equipment Without Operator, Deduct</i>	-16,380.96	
01 22 23 00-0259	DAY	Self-Propelled Street Sweeper With Hopper And Full-Time Operator	1,927.74	
		Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
		<i>For Equipment Without Operator, Deduct</i>	-756.04	
01 22 23 00-0260	WK	Self-Propelled Street Sweeper With Hopper And Full-Time Operator	8,473.49	
		Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
		<i>For Equipment Without Operator, Deduct</i>	-3,780.22	
01 22 23 00-0261	MO	Self-Propelled Street Sweeper With Hopper And Full-Time Operator	33,130.12	
		Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
		<i>For Equipment Without Operator, Deduct</i>	-16,380.96	

01 22 23 00-0262 Earthmoving Equipment (01 22 23)

01 22 23 00-0263 Skid-Steer Loaders (01 22 23 00-0262)

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

01 22 23 00-0264	DAY	700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	1,076.71	
		<i>For Equipment Without Operator, Deduct</i>	-756.04	
01 22 23 00-0265	WK	700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	4,621.47	
		<i>For Equipment Without Operator, Deduct</i>	-3,780.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0266 MO 700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	18,406.93	
For Equipment Without Operator, Deduct	-16,380.96	
01 22 23 00-0267 DAY 1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	1,161.23	
For Equipment Without Operator, Deduct	-756.04	
01 22 23 00-0268 WK 1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	4,774.42	
For Equipment Without Operator, Deduct	-3,780.22	
01 22 23 00-0269 MO 1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	18,742.35	
For Equipment Without Operator, Deduct	-16,380.96	
01 22 23 00-0270 DAY 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	1,185.38	
For Equipment Without Operator, Deduct	-756.04	
01 22 23 00-0271 WK 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	4,994.46	
For Equipment Without Operator, Deduct	-3,780.22	
01 22 23 00-0272 MO 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	19,325.99	
For Equipment Without Operator, Deduct	-16,380.96	
01 22 23 00-0273 DAY 2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator.....	1,279.30	
For Equipment Without Operator, Deduct	-756.04	
01 22 23 00-0274 WK 2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator.....	5,303.05	
For Equipment Without Operator, Deduct	-3,780.22	
01 22 23 00-0275 MO 2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator.....	20,345.68	
For Equipment Without Operator, Deduct	-16,380.96	
01 22 23 00-0276 DAY 3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator.....	1,440.31	
For Equipment Without Operator, Deduct	-756.04	
01 22 23 00-0277 WK 3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator.....	5,913.52	
For Equipment Without Operator, Deduct	-3,780.22	
01 22 23 00-0278 MO 3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator.....	21,848.39	
For Equipment Without Operator, Deduct	-16,380.96	
01 22 23 00-0279 DAY Hydraulic Hammer Attachment For Skid-Steer Loaders	268.34	
01 22 23 00-0280 WK Hydraulic Hammer Attachment For Skid-Steer Loaders	892.23	
01 22 23 00-0281 MO Hydraulic Hammer Attachment For Skid-Steer Loaders	2,374.81	
01 22 23 00-0282 DAY Forklift Attachment For Skid-Steer Loaders	57.69	
01 22 23 00-0283 WK Forklift Attachment For Skid-Steer Loaders	154.30	
01 22 23 00-0284 MO Forklift Attachment For Skid-Steer Loaders	436.05	
01 22 23 00-0285 DAY Backhoe Attachment For Skid-Steer Loaders	127.46	
01 22 23 00-0286 WK Backhoe Attachment For Skid-Steer Loaders	305.91	
01 22 23 00-0287 MO Backhoe Attachment For Skid-Steer Loaders	760.74	
01 22 23 00-0288 DAY Broom Attachment For Skid-Steer Loaders	126.12	
01 22 23 00-0289 WK Broom Attachment For Skid-Steer Loaders	342.13	
01 22 23 00-0290 MO Broom Attachment For Skid-Steer Loaders	905.65	
01 22 23 00-0291 DAY Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders.....	110.02	
01 22 23 00-0292 WK Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders.....	303.22	
01 22 23 00-0293 MO Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders.....	827.83	
01 22 23 00-0294 DAY Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger).....	30.32	
01 22 23 00-0295 WK Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger).....	79.33	
01 22 23 00-0296 MO Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger).....	233.34	
01 22 23 00-0297 DAY >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger).....	40.83	
01 22 23 00-0298 WK >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger).....	101.50	
01 22 23 00-0299 MO >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger).....	303.34	
01 22 23 00-0300 DAY Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	59.49	
01 22 23 00-0301 WK Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	180.85	
01 22 23 00-0302 MO Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	536.68	
01 22 23 00-0303 DAY 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	12.08	
01 22 23 00-0304 WK 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	28.18	
01 22 23 00-0305 MO 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	75.14	
01 22 23 00-0306 Bulldozers <small>(01 22 23 00-0262)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0307 DAY 70 HP, D3 Bulldozer With Full-Time Operator	1,248.55	
For Equipment Without Operator, Deduct	-796.43	
01 22 23 00-0308 WK 70 HP, D3 Bulldozer With Full-Time Operator	5,765.02	
For Equipment Without Operator, Deduct	-3,982.15	
01 22 23 00-0309 MO 70 HP, D3 Bulldozer With Full-Time Operator	22,544.90	
For Equipment Without Operator, Deduct	-17,255.99	
01 22 23 00-0310 DAY 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator.....	1,461.81	
For Equipment Without Operator, Deduct	-796.43	
01 22 23 00-0311 WK 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator.....	6,626.61	
For Equipment Without Operator, Deduct	-3,982.15	
01 22 23 00-0312 MO 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator.....	25,189.35	
For Equipment Without Operator, Deduct	-17,255.99	
01 22 23 00-0313 DAY 140 HP, D6 Bulldozer With Full-Time Operator	2,067.47	
For Equipment Without Operator, Deduct	-796.43	
01 22 23 00-0314 WK 140 HP, D6 Bulldozer With Full-Time Operator	9,049.27	
For Equipment Without Operator, Deduct	-3,982.15	
01 22 23 00-0315 MO 140 HP, D6 Bulldozer With Full-Time Operator	32,440.28	
For Equipment Without Operator, Deduct	-17,255.99	
01 22 23 00-0316 DAY 200 HP, D7 Bulldozer With Full-Time Operator	2,604.90	
For Equipment Without Operator, Deduct	-796.43	
01 22 23 00-0317 WK 200 HP, D7 Bulldozer With Full-Time Operator	11,207.48	
For Equipment Without Operator, Deduct	-3,982.15	
01 22 23 00-0318 MO 200 HP, D7 Bulldozer With Full-Time Operator	38,923.46	
For Equipment Without Operator, Deduct	-17,255.99	
01 22 23 00-0319 DAY 335 HP, D8 Bulldozer With Full-Time Operator	3,244.68	
For Equipment Without Operator, Deduct	-796.43	

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01 22 23 00-0320 WK 335 HP, D8 Bulldozer With Full-Time Operator.....	13,766.63	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0321 MO 335 HP, D8 Bulldozer With Full-Time Operator.....	46,600.91	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0322 DAY 460 HP, D9 Bulldozer With Full-Time Operator.....	3,602.96	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0323 WK 460 HP, D9 Bulldozer With Full-Time Operator.....	15,191.23	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0324 MO 460 HP, D9 Bulldozer With Full-Time Operator.....	50,866.16	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0325 Motor Scraper <small>(01 22 23 00-0262)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0326 DAY 11 CY Motor Scraper-Hauler With Full-Time Operator.....	1,803.17	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0327 WK 11 CY Motor Scraper-Hauler With Full-Time Operator.....	8,009.12	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0328 MO 11 CY Motor Scraper-Hauler With Full-Time Operator.....	29,323.11	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0329 DAY 18 CY Motor Scraper-Hauler With Full-Time Operator.....	2,210.01	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0330 WK 18 CY Motor Scraper-Hauler With Full-Time Operator.....	9,636.46	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0331 MO 18 CY Motor Scraper-Hauler With Full-Time Operator.....	34,218.92	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0332 DAY 24 CY Motor Scraper-Hauler With Full-Time Operator.....	2,603.05	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0333 WK 24 CY Motor Scraper-Hauler With Full-Time Operator.....	11,201.74	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0334 MO 24 CY Motor Scraper-Hauler With Full-Time Operator.....	38,907.86	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0335 Hydraulic Excavators <small>(01 22 23 00-0262)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0336 DAY 3/8 CY Hydraulic Excavator With Full-Time Operator.....	1,157.45	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0337 WK 3/8 CY Hydraulic Excavator With Full-Time Operator.....	5,259.08	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0338 MO 3/8 CY Hydraulic Excavator With Full-Time Operator.....	21,534.71	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0339 DAY 1/2 CY Hydraulic Excavator With Full-Time Operator.....	1,259.07	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0340 WK 1/2 CY Hydraulic Excavator With Full-Time Operator.....	5,707.01	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0341 MO 1/2 CY Hydraulic Excavator With Full-Time Operator.....	23,326.42	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0342 DAY 5/8 CY Hydraulic Excavator With Full-Time Operator.....	1,291.16	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0343 WK 5/8 CY Hydraulic Excavator With Full-Time Operator.....	5,874.15	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0344 MO 5/8 CY Hydraulic Excavator With Full-Time Operator.....	23,620.59	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0345 DAY 3/4 CY Hydraulic Excavator With Full-Time Operator.....	1,324.58	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0346 WK 3/4 CY Hydraulic Excavator With Full-Time Operator.....	6,027.91	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0347 MO 3/4 CY Hydraulic Excavator With Full-Time Operator.....	23,914.75	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0348 DAY 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator.....	1,351.33	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0349 WK 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator.....	6,188.37	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0350 MO 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator.....	24,208.91	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0351 DAY 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator.....	1,712.34	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0352 WK 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator.....	7,625.75	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0353 MO 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator.....	28,186.78	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0354 DAY 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator.....	1,765.83	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0355 WK 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator.....	7,859.74	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0356 MO 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator.....	28,888.76	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0357 DAY 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator.....	1,866.11	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0358 WK 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator.....	8,260.87	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0359 MO 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator.....	30,092.15	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0360 DAY 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator.....	1,979.76	
For Equipment Without Operator, Deduct	-796.43	
01 22 23 00-0361 WK 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator.....	8,708.80	
For Equipment Without Operator, Deduct	-3,982.15	
01 22 23 00-0362 MO 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator.....	31,429.25	
For Equipment Without Operator, Deduct	-17,255.99	
01 22 23 00-0363 DAY 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator.....	2,013.19	
For Equipment Without Operator, Deduct	-796.43	
01 22 23 00-0364 WK 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator.....	8,842.51	
For Equipment Without Operator, Deduct	-3,982.15	
01 22 23 00-0365 MO 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator.....	31,830.38	
For Equipment Without Operator, Deduct	-17,255.99	
01 22 23 00-0366 DAY 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator.....	2,334.09	
For Equipment Without Operator, Deduct	-796.43	
01 22 23 00-0367 WK 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator.....	10,132.81	
For Equipment Without Operator, Deduct	-3,982.15	
01 22 23 00-0368 MO 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator.....	35,707.97	
For Equipment Without Operator, Deduct	-17,255.99	
01 22 23 00-0369 DAY 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator.....	2,795.39	
For Equipment Without Operator, Deduct	-796.43	
01 22 23 00-0370 WK 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator.....	11,964.64	
For Equipment Without Operator, Deduct	-3,982.15	
01 22 23 00-0371 MO 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator.....	41,190.08	
For Equipment Without Operator, Deduct	-17,255.99	
01 22 23 00-0372 DAY 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....	3,363.66	
For Equipment Without Operator, Deduct	-796.43	
01 22 23 00-0373 WK 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....	14,237.71	
For Equipment Without Operator, Deduct	-3,982.15	
01 22 23 00-0374 MO 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....	48,009.29	
For Equipment Without Operator, Deduct	-17,255.99	
01 22 23 00-0375 DAY Up To 50' Depth, 50,000 LB Operating Weight, Long-Arm Hydraulic Excavator With Full-Time Operator.....	1,892.85	
For Equipment Without Operator, Deduct	-796.43	
01 22 23 00-0376 WK Up To 50' Depth, 50,000 LB Operating Weight, Long-Arm Hydraulic Excavator With Full-Time Operator.....	8,354.47	
For Equipment Without Operator, Deduct	-3,982.15	
01 22 23 00-0377 MO Up To 50' Depth, 50,000 LB Operating Weight, Long-Arm Hydraulic Excavator With Full-Time Operator.....	30,359.57	
For Equipment Without Operator, Deduct	-17,255.99	
01 22 23 00-0378 DAY Thumbs Or Grapple Attachment For Hydraulic Excavators.....	93.60	
01 22 23 00-0379 WK Thumbs Or Grapple Attachment For Hydraulic Excavators.....	361.02	
01 22 23 00-0380 MO Thumbs Or Grapple Attachment For Hydraulic Excavators.....	1,069.68	
01 22 23 00-0381 DAY 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	414.50	
01 22 23 00-0382 WK 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	1,096.42	
01 22 23 00-0383 MO 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	3,068.64	
01 22 23 00-0384 DAY 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	641.81	
01 22 23 00-0385 WK 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	1,637.95	
01 22 23 00-0386 MO 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	4,258.66	
01 22 23 00-0387 DAY 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	895.86	
01 22 23 00-0388 WK 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	2,413.47	
01 22 23 00-0389 MO 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	6,765.73	
01 22 23 00-0390 DAY 24" Compaction Wheel Attachment For Hydraulic Excavators.....	187.19	
01 22 23 00-0391 WK 24" Compaction Wheel Attachment For Hydraulic Excavators.....	748.78	
01 22 23 00-0392 MO 24" Compaction Wheel Attachment For Hydraulic Excavators.....	2,246.33	
01 22 23 00-0393 DAY 36" Compaction Wheel Attachment For Hydraulic Excavators.....	267.42	
01 22 23 00-0394 WK 36" Compaction Wheel Attachment For Hydraulic Excavators.....	1,069.68	
01 22 23 00-0395 MO 36" Compaction Wheel Attachment For Hydraulic Excavators.....	3,209.04	
01 22 23 00-0396 DAY 48" Compaction Wheel Attachment For Hydraulic Excavators.....	294.16	
01 22 23 00-0397 WK 48" Compaction Wheel Attachment For Hydraulic Excavators.....	1,163.28	
01 22 23 00-0398 MO 48" Compaction Wheel Attachment For Hydraulic Excavators.....	3,476.46	
01 22 23 00-0399 Mini-Excavators <small>(01 22 23 00-0262)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0400 DAY 2,000 LB Mini-Excavator With Full-Time Operator.....	1,077.22	
For Equipment Without Operator, Deduct	-796.43	
01 22 23 00-0401 WK 2,000 LB Mini-Excavator With Full-Time Operator.....	4,777.72	
For Equipment Without Operator, Deduct	-3,982.15	
01 22 23 00-0402 MO 2,000 LB Mini-Excavator With Full-Time Operator.....	19,007.59	
For Equipment Without Operator, Deduct	-17,255.99	
01 22 23 00-0403 DAY 3,500 LB Mini-Excavator With Full-Time Operator.....	1,083.91	
For Equipment Without Operator, Deduct	-796.43	
01 22 23 00-0404 WK 3,500 LB Mini-Excavator With Full-Time Operator.....	4,797.78	
For Equipment Without Operator, Deduct	-3,982.15	
01 22 23 00-0405 MO 3,500 LB Mini-Excavator With Full-Time Operator.....	19,428.78	
For Equipment Without Operator, Deduct	-17,255.99	
01 22 23 00-0406 DAY 6,000 LB Mini-Excavator With Full-Time Operator.....	1,117.33	
For Equipment Without Operator, Deduct	-796.43	
01 22 23 00-0407 WK 6,000 LB Mini-Excavator With Full-Time Operator.....	4,891.38	
For Equipment Without Operator, Deduct	-3,982.15	
01 22 23 00-0408 MO 6,000 LB Mini-Excavator With Full-Time Operator.....	19,488.95	
For Equipment Without Operator, Deduct	-17,255.99	
01 22 23 00-0409 DAY 7,500 LB Mini-Excavator With Full-Time Operator.....	1,130.71	
For Equipment Without Operator, Deduct	-796.43	
01 22 23 00-0410 WK 7,500 LB Mini-Excavator With Full-Time Operator.....	4,938.18	
For Equipment Without Operator, Deduct	-3,982.15	

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01 22 23 00-0411 MO 7,500 LB Mini-Excavator With Full-Time Operator	19,515.69	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0412 DAY 9,500 LB Mini-Excavator With Full-Time Operator	1,210.93	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0413 WK 9,500 LB Mini-Excavator With Full-Time Operator	5,005.03	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0414 MO 9,500 LB Mini-Excavator With Full-Time Operator	20,291.21	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0415 DAY 11,000 LB Mini-Excavator With Full-Time Operator	1,217.62	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0416 WK 11,000 LB Mini-Excavator With Full-Time Operator	5,339.31	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0417 MO 11,000 LB Mini-Excavator With Full-Time Operator	20,324.63	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0418 Gradall, Telescopic Hydraulic Excavators <small>(01 22 23 00-0262)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0419 DAY Gradall, Telescopic Hydraulic Excavator With Full-Time Operator	2,335.71	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0420 WK Gradall, Telescopic Hydraulic Excavator With Full-Time Operator	10,132.40	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0421 MO Gradall, Telescopic Hydraulic Excavator With Full-Time Operator	39,207.10	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0422 Road Graders <small>(01 22 23 00-0262)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0423 DAY 60 HP Road Grader With Full-Time Operator	1,366.55	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0424 WK 60 HP Road Grader With Full-Time Operator	5,524.40	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0425 MO 60 HP Road Grader With Full-Time Operator	21,868.11	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0426 DAY 80 HP Road Grader With Full-Time Operator	1,534.66	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0427 WK 80 HP Road Grader With Full-Time Operator	5,992.19	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0428 MO 80 HP Road Grader With Full-Time Operator	23,286.10	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0429 DAY 130 HP Road Grader With Full-Time Operator	1,420.82	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0430 WK 130 HP Road Grader With Full-Time Operator	6,479.71	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0431 MO 130 HP Road Grader With Full-Time Operator	26,181.50	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0432 Loader-Backhoes With Standard Bucket <small>(01 22 23 00-0262)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0433 DAY 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator	1,182.58	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0434 WK 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator	4,899.25	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0435 MO 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator	19,414.28	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0436 DAY 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator	1,223.95	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0437 WK 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator	5,044.06	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0438 MO 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator	20,296.91	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0439 DAY 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator	1,287.73	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0440 WK 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator	5,202.65	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0441 MO 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator	20,752.01	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0442 DAY 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator	1,572.17	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0443 WK 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator	6,050.80	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0444 MO 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator	23,179.22	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0445 Heavy Duty Construction Loaders <small>(01 22 23 00-0262)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0446 DAY 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator	1,286.37	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0447 WK 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator	5,919.29	
<i>For Equipment Without Operator, Deduct</i>	-3,982.15	
01 22 23 00-0448 MO 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator	23,059.87	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0449	DAY		3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,693.39 -796.43	
01 22 23 00-0450	WK		3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,364.00 -3,982.15	
01 22 23 00-0451	MO		3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	23,285.99 -17,255.99	
01 22 23 00-0452	DAY		3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,783.84 -796.43	
01 22 23 00-0453	WK		3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,605.20 -3,982.15	
01 22 23 00-0454	MO		3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	23,888.99 -17,255.99	
01 22 23 00-0455	DAY		4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,032.58 -796.43	
01 22 23 00-0456	WK		4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	7,260.96 -3,982.15	
01 22 23 00-0457	MO		4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	25,547.24 -17,255.99	
01 22 23 00-0458	DAY		7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,673.27 -796.43	
01 22 23 00-0459	WK		7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	11,474.43 -3,982.15	
01 22 23 00-0460	MO		7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	39,717.74 -17,255.99	
01 22 23 00-0461	DAY		13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,894.19 -796.43	
01 22 23 00-0462	WK		13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	23,782.95 -3,982.15	
01 22 23 00-0463	MO		13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	71,218.54 -17,255.99	
01 22 23 00-0464			Shoring <small>(01 22 23 00-0262)</small> Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0465			Aluminum Hydraulic Shoring <small>(01 22 23 00-0464)</small> Note: Includes delivery to job site and pick-up when complete. Excludes sheeting.		
01 22 23 00-0466	WK		2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	68.65	
01 22 23 00-0467	MO		2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	202.49	
01 22 23 00-0468	WK		Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	92.09	
01 22 23 00-0469	MO		Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	271.64	
01 22 23 00-0470	WK		Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	170.77	
01 22 23 00-0471	MO		Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	503.76	
01 22 23 00-0472	EA		Set-up And Removal Of 1 Cylinder Aluminum Hydraulic Shores	23.57	
01 22 23 00-0473	EA		Set-up And Removal Of 2 Cylinders Aluminum Hydraulic Shores	37.71	
01 22 23 00-0474	EA		Set-up And Removal Of 3 Cylinders Aluminum Hydraulic Shores	62.84	
01 22 23 00-0475			Trench Boxes/Trench Shields <small>(01 22 23 00-0262)</small> Note: Trenching tasks include moving the trench box in excavation as trenching proceeds. Includes delivery to job site and pick-up when complete. For stackable units, combine multiple units for depth required.		
01 22 23 00-0476	WK		4' x 6' Trench Box With Up To 48" Spreaders	215.26	
01 22 23 00-0477	MO		4' x 6' Trench Box With Up To 48" Spreaders	645.79	
01 22 23 00-0478	WK		6' x 6' Trench Box With Up To 48" Spreaders	243.04	
01 22 23 00-0479	MO		6' x 6' Trench Box With Up To 48" Spreaders	729.12	
01 22 23 00-0480	WK		8' x 6' Trench Box With Up To 48" Spreaders	256.93	
01 22 23 00-0481	MO		8' x 6' Trench Box With Up To 48" Spreaders	770.78	
01 22 23 00-0482	WK		4' x 8' Trench Box With Up To 48" Spreaders	236.10	
01 22 23 00-0483	MO		4' x 8' Trench Box With Up To 48" Spreaders	708.29	
01 22 23 00-0484	WK		6' x 8' Trench Box With Up To 48" Spreaders	277.76	
01 22 23 00-0485	MO		6' x 8' Trench Box With Up To 48" Spreaders	833.28	
01 22 23 00-0486	WK		8' x 8' Trench Box With Up To 48" Spreaders	312.48	
01 22 23 00-0487	MO		8' x 8' Trench Box With Up To 48" Spreaders	937.44	
01 22 23 00-0488	WK		4' x 10' Trench Box With Up To 48" Spreaders	263.87	
01 22 23 00-0489	MO		4' x 10' Trench Box With Up To 48" Spreaders	791.62	
01 22 23 00-0490	WK		6' x 10' Trench Box With Up To 48" Spreaders	312.48	
01 22 23 00-0491	MO		6' x 10' Trench Box With Up To 48" Spreaders	937.44	
01 22 23 00-0492	WK		8' x 10' Trench Box With Up To 48" Spreaders	381.92	
01 22 23 00-0493	MO		8' x 10' Trench Box With Up To 48" Spreaders	1,138.82	
01 22 23 00-0494	WK		4' x 12' Trench Box With Up To 48" Spreaders	312.48	
01 22 23 00-0495	MO		4' x 12' Trench Box With Up To 48" Spreaders	937.44	
01 22 23 00-0496	WK		6' x 12' Trench Box With Up To 48" Spreaders	381.92	
01 22 23 00-0497	MO		6' x 12' Trench Box With Up To 48" Spreaders	1,145.76	
01 22 23 00-0498	WK		8' x 12' Trench Box With Up To 48" Spreaders	486.08	
01 22 23 00-0499	MO		8' x 12' Trench Box With Up To 48" Spreaders	1,458.24	
01 22 23 00-0500	WK		4' x 14' Trench Box With Up To 48" Spreaders	347.20	
01 22 23 00-0501	MO		4' x 14' Trench Box With Up To 48" Spreaders	1,041.60	

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 22 23 00-0502	WK	6' x 14' Trench Box With Up To 48" Spreaders	451.36	
01 22 23 00-0503	MO	6' x 14' Trench Box With Up To 48" Spreaders	1,354.08	
01 22 23 00-0504	WK	8' x 14' Trench Box With Up To 48" Spreaders	555.52	
01 22 23 00-0505	MO	8' x 14' Trench Box With Up To 48" Spreaders	1,666.56	
01 22 23 00-0506	WK	4' x 16' Trench Box With Up To 48" Spreaders	381.92	
01 22 23 00-0507	MO	4' x 16' Trench Box With Up To 48" Spreaders	1,145.76	
01 22 23 00-0508	WK	6' x 16' Trench Box With Up To 48" Spreaders	520.80	
01 22 23 00-0509	MO	6' x 16' Trench Box With Up To 48" Spreaders	1,562.40	
01 22 23 00-0510	WK	8' x 16' Trench Box With Up To 48" Spreaders	624.96	
01 22 23 00-0511	MO	8' x 16' Trench Box With Up To 48" Spreaders	1,874.88	
01 22 23 00-0512	WK	4' x 20' Trench Box With Up To 48" Spreaders	451.36	
01 22 23 00-0513	MO	4' x 20' Trench Box With Up To 48" Spreaders	1,354.08	
01 22 23 00-0514	WK	6' x 20' Trench Box With Up To 48" Spreaders	624.96	
01 22 23 00-0515	MO	6' x 20' Trench Box With Up To 48" Spreaders	1,874.88	
01 22 23 00-0516	WK	8' x 20' Trench Box With Up To 48" Spreaders	729.12	
01 22 23 00-0517	MO	8' x 20' Trench Box With Up To 48" Spreaders	2,187.36	
01 22 23 00-0518	WK	4' x 24' Trench Box With Up To 48" Spreaders	624.96	
01 22 23 00-0519	MO	4' x 24' Trench Box With Up To 48" Spreaders	1,874.88	
01 22 23 00-0520	WK	6' x 24' Trench Box With Up To 48" Spreaders	763.84	
01 22 23 00-0521	MO	6' x 24' Trench Box With Up To 48" Spreaders	2,291.52	
01 22 23 00-0522	WK	8' x 24' Trench Box With Up To 48" Spreaders	833.28	
01 22 23 00-0523	MO	8' x 24' Trench Box With Up To 48" Spreaders	2,499.84	
01 22 23 00-0524	WK	For Spreaders >48" To 84", Add	20.83	
01 22 23 00-0525	MO	For Spreaders >48" To 84", Add	62.50	
01 22 23 00-0526	WK	For Spreaders >84" To 120", Add	124.99	
01 22 23 00-0527	MO	For Spreaders >84" To 120", Add	374.98	
01 22 23 00-0528	WK	For Spreaders >120", Add	263.87	
01 22 23 00-0529	MO	For Spreaders >120", Add	791.62	
01 22 23 00-0530	WK	8' x 4' Manhole Box	328.10	
01 22 23 00-0531	MO	8' x 4' Manhole Box	984.31	
01 22 23 00-0532	WK	8' x 8' Manhole Box	468.72	
01 22 23 00-0533	MO	8' x 8' Manhole Box	1,406.16	

01 22 23 00-0534 Trenchers (01 22 23 00-0262)

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

01 22 23 00-0535	DAY	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	1,137.97	
		For Equipment Without Operator, Deduct	-796.43	
01 22 23 00-0536	WK	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	5,145.51	
		For Equipment Without Operator, Deduct	-3,982.15	
01 22 23 00-0537	MO	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	20,457.89	
		For Equipment Without Operator, Deduct	-17,255.99	
01 22 23 00-0538	DAY	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	1,714.31	
		For Equipment Without Operator, Deduct	-796.43	
01 22 23 00-0539	WK	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	7,087.99	
		For Equipment Without Operator, Deduct	-3,982.15	
01 22 23 00-0540	MO	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	25,794.39	
		For Equipment Without Operator, Deduct	-17,255.99	

01 22 23 00-0541 Portable Sediment Tank (01 22 23 00-0262)

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

01 22 23 00-0542	WK	Portable Sediment Tank	138.50	
01 22 23 00-0543	MO	Portable Sediment Tank	406.27	

01 22 23 00-0544 Heavy Equipment (Wood Ground Protection) Mats (01 22 23 00-0262)

Note: Rental price per mat. Excludes placement, moving, mobilization and demobilization. See CSI section 01 22 23 00-0262 for equipment for offloading/reloading from delivery vehicle, placing, and moving mats, 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.

01 22 23 00-0545	DAY	14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	21.12	
01 22 23 00-0546	WK	14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	50.29	
01 22 23 00-0547	MO	14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	105.60	
01 22 23 00-0548	DAY	16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	22.18	
01 22 23 00-0549	WK	16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	52.80	
01 22 23 00-0550	MO	16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	110.88	
01 22 23 00-0551	Day	16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	17.95	
01 22 23 00-0552	WK	16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	42.24	
01 22 23 00-0553	MO	16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	89.76	
01 22 23 00-0554	Day	18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	20.06	
01 22 23 00-0555	WK	18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	47.52	
01 22 23 00-0556	MO	18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	100.32	
01 22 23 00-0557	Day	20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	22.18	
01 22 23 00-0558	WK	20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	52.80	
01 22 23 00-0559	MO	20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	110.88	
01 22 23 00-0560	Day	24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	24.29	
01 22 23 00-0561	WK	24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	57.83	
01 22 23 00-0562	MO	24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	121.44	
01 22 23 00-0563	Day	12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	19.01	
01 22 23 00-0564	WK	12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	52.80	
01 22 23 00-0565	MO	12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	95.04	
01 22 23 00-0566	Day	16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	22.18	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0567	WK			16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	52.80	
01 22 23 00-0568	MO			16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	110.88	
01 22 23 00-0569	Day			20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	26.40	
01 22 23 00-0570	WK			20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	58.08	
01 22 23 00-0571	MO			20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	132.00	
01 22 23 00-0572	Day			24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	28.51	
01 22 23 00-0573	WK			24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	67.89	
01 22 23 00-0574	MO			24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	142.56	
01 22 23 00-0575	Day			28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	30.62	
01 22 23 00-0576	WK			28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	72.91	
01 22 23 00-0577	MO			28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	153.12	
01 22 23 00-0578	Day			30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	31.68	
01 22 23 00-0579	WK			30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	75.43	
01 22 23 00-0580	MO			30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	158.40	
01 22 23 00-0581	Day			14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	10.16	
01 22 23 00-0582	WK			14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	25.40	
01 22 23 00-0583	MO			14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	76.19	
01 22 23 00-0584	Day			14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	12.14	
01 22 23 00-0585	WK			14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	30.36	
01 22 23 00-0586	MO			14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	91.08	
01 22 23 00-0587	Day			16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	13.87	
01 22 23 00-0588	WK			16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	34.67	
01 22 23 00-0589	MO			16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	104.02	
01 22 23 00-0590	Day			14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	14.78	
01 22 23 00-0591	WK			14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	36.96	
01 22 23 00-0592	MO			14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	110.88	
01 22 23 00-0593	Day			16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	16.90	
01 22 23 00-0594	WK			16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	42.24	
01 22 23 00-0595	MO			16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	126.72	
01 22 23 00-0596	Day			16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	19.42	
01 22 23 00-0597	WK			16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	48.54	
01 22 23 00-0598	MO			16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	145.62	
01 22 23 00-0599	Day			24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	14.94	
01 22 23 00-0600	WK			24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	37.35	
01 22 23 00-0601	MO			24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	112.04	
01 22 23 00-0602	Day			30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	20.23	
01 22 23 00-0603	WK			30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	50.56	
01 22 23 00-0604	MO			30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	151.69	
01 22 23 00-0605	Day			24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	17.49	
01 22 23 00-0606	WK			24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	43.72	
01 22 23 00-0607	MO			24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	131.16	
01 22 23 00-0608	Day			40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	29.17	
01 22 23 00-0609	WK			40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	72.91	
01 22 23 00-0610	MO			40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	218.74	
01 22 23 00-0611	Day			40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	31.09	
01 22 23 00-0612	WK			40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	77.72	
01 22 23 00-0613	MO			40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	233.16	
01 22 23 00-0614	Electrical Equipment (01 22 23)					
01 22 23 00-0615	Tripod Mounted Floodlights (01 22 23 00-0614)					
	Note: Includes delivery to job site and pick-up when complete.					
01 22 23 00-0616	DAY			500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	73.43	
01 22 23 00-0617	WK			500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	173.72	
01 22 23 00-0618	MO			500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	367.13	
01 22 23 00-0619	DAY			1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	73.43	
01 22 23 00-0620	WK			1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	214.91	
01 22 23 00-0621	MO			1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	635.77	
01 22 23 00-0622	DAY			2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	82.38	
01 22 23 00-0623	WK			2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	223.86	
01 22 23 00-0624	MO			2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	546.22	
01 22 23 00-0625	Trailer Mounted Floodlights (01 22 23 00-0614)					
	Note: Includes delivery to job site and pick-up when complete. Excludes operator.					
01 22 23 00-0626	DAY			4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	205.95	
01 22 23 00-0627	WK			4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	456.68	
01 22 23 00-0628	MO			4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	985.00	
01 22 23 00-0629	Generator Sets (01 22 23 00-0614)					
01 22 23 00-0630	Portable, Gas Or Diesel Powered Generator Sets (01 22 23 00-0629)					
	Note: With 24 hour day-tank. Includes delivery to job site and pick-up when complete. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0737 for reimbursable fuel fees.					
01 22 23 00-0631	DAY			3.6 KW, 8 HP Gas Powered Generator Set.....	49.07	
				For LP Or NG Gas, Add.....	6.13	
				For >160 To 320 Hours Usage Per Month, Add.....	24.54	
01 22 23 00-0632	WK			3.6 KW, 8 HP Gas Powered Generator Set.....	176.87	
				For LP Or NG Gas, Add.....	22.11	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0633 MO 3.6 KW, 8 HP Gas Powered Generator Set	490.67	
For LP Or NG Gas, Add	61.33	
01 22 23 00-0634 DAY 5 KW, 11 HP Gas Powered Generator Set	69.61	
For LP Or NG Gas, Add	8.70	
01 22 23 00-0635 WK 5 KW, 11 HP Gas Powered Generator Set	222.51	
For LP Or NG Gas, Add	27.81	
01 22 23 00-0636 MO 5 KW, 11 HP Gas Powered Generator Set	507.79	
For LP Or NG Gas, Add	63.47	
01 22 23 00-0637 DAY 6.5 KW, 13 HP Gas Powered Generator Set	89.01	
For LP Or NG Gas, Add	11.13	
01 22 23 00-0638 WK 6.5 KW, 13 HP Gas Powered Generator Set	239.63	
For LP Or NG Gas, Add	29.95	
01 22 23 00-0639 MO 6.5 KW, 13 HP Gas Powered Generator Set	661.84	
For LP Or NG Gas, Add	82.73	
01 22 23 00-0640 DAY 10 KW, 18 HP Gas Powered Generator Set	99.28	
For LP Or NG Gas, Add	12.41	
01 22 23 00-0641 WK 10 KW, 18 HP Gas Powered Generator Set	268.16	
For LP Or NG Gas, Add	33.52	
01 22 23 00-0642 MO 10 KW, 18 HP Gas Powered Generator Set	770.24	
For LP Or NG Gas, Add	96.28	
01 22 23 00-0643 Towable, Diesel Powered Generator Sets <small>(01 22 23 00-0629)</small>		
Note: Includes 24 hour day-tank on sizes up to 180KW, 40 hour day-tank for sizes greater than 180KW To 300 KW and 1000 gallon for sizes greater than 300KW. Multi-voltage transformer unless stated otherwise, trailer mounted including sound attenuation and control panel. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0737 for reimbursable fuel fees.		
01 22 23 00-0644 DAY 20 KW, 60 Hertz Towable Diesel Powered Generator Set	204.26	
Note: Fuel consumption: 100% load - 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	102.13	
For >16 To 24 Hours Usage Per Day, Add	204.26	
01 22 23 00-0645 WK 20 KW, 60 Hertz Towable Diesel Powered Generator Set	534.03	
Note: Fuel consumption: 100% load - 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	267.02	
For >80 Hours Usage Per Week, Add	534.03	
01 22 23 00-0646 MO 20 KW, 60 Hertz Towable Diesel Powered Generator Set	1,454.90	
Note: Fuel consumption: 100% load - 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	727.45	
For >320 Hours Usage Per Month, Add	1,454.90	
01 22 23 00-0647 DAY 30 KW, 60 Hertz Towable Diesel Powered Generator Set	310.87	
Note: Fuel consumption: 100% load - 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	155.44	
For >16 To 24 Hours Usage Per Day, Add	310.87	
01 22 23 00-0648 WK 30 KW, 60 Hertz Towable Diesel Powered Generator Set	922.58	
Note: Fuel consumption: 100% load - 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	461.29	
For >80 Hours Usage Per Week, Add	922.58	
01 22 23 00-0649 MO 30 KW, 60 Hertz Towable Diesel Powered Generator Set	1,905.32	
Note: Fuel consumption: 100% load - 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	952.66	
For >320 Hours Usage Per Month, Add	1,905.32	
01 22 23 00-0650 DAY 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set	340.95	
Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	170.48	
For >16 To 24 Hours Usage Per Day, Add	340.95	
01 22 23 00-0651 WK 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set	952.66	
Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	476.33	
For >80 Hours Usage Per Week, Add	952.66	
01 22 23 00-0652 MO 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set	2,105.88	
Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,052.94	
For >320 Hours Usage Per Month, Add	2,105.88	
01 22 23 00-0653 DAY 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set	366.02	
Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	183.01	
For >16 To 24 Hours Usage Per Day, Add	366.02	
01 22 23 00-0654 WK 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set	1,002.80	
Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	501.40	
For >80 Hours Usage Per Week, Add	1,002.80	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0655 MO 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,406.72	
Note: Fuel consumption: 100% load – 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,203.36	
For >320 Hours Usage Per Month, Add	2,406.72	
01 22 23 00-0656 DAY 70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	401.12	
Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	200.56	
For >16 To 24 Hours Usage Per Day, Add	401.12	
01 22 23 00-0657 WK 70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,138.18	
Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	569.09	
For >80 Hours Usage Per Week, Add	1,138.18	
01 22 23 00-0658 MO 70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,707.56	
Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,353.78	
For >320 Hours Usage Per Month, Add	2,707.56	
01 22 23 00-0659 DAY 80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	451.26	
Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	225.63	
For >16 To 24 Hours Usage Per Day, Add	451.26	
01 22 23 00-0660 WK 80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,203.36	
Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	601.68	
For >80 Hours Usage Per Week, Add	1,203.36	
01 22 23 00-0661 MO 80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	3,008.40	
Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,504.20	
For >320 Hours Usage Per Month, Add	3,008.40	
01 22 23 00-0662 DAY 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	466.30	
Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	233.15	
For >16 To 24 Hours Usage Per Day, Add	466.30	
01 22 23 00-0663 WK 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,253.50	
Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	626.75	
For >80 Hours Usage Per Week, Add	1,253.50	
01 22 23 00-0664 MO 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	3,409.52	
Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,704.76	
For >320 Hours Usage Per Month, Add	3,409.52	
01 22 23 00-0665 DAY 120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	526.47	
Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	263.24	
For >16 To 24 Hours Usage Per Day, Add	526.47	
01 22 23 00-0666 WK 120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,454.06	
Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	727.03	
For >80 Hours Usage Per Week, Add	1,454.06	
01 22 23 00-0667 MO 120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	3,910.92	
Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,955.46	
For >320 Hours Usage Per Month, Add	3,910.92	
01 22 23 00-0668 DAY 140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	551.54	
Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	275.77	
For >16 To 24 Hours Usage Per Day, Add	551.54	
01 22 23 00-0669 WK 140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,529.27	
Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	764.64	
For >80 Hours Usage Per Week, Add	1,529.27	
01 22 23 00-0670 MO 140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,312.04	
Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,156.02	
For >320 Hours Usage Per Month, Add	4,312.04	
01 22 23 00-0671 DAY 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	576.61	
Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	288.31	
For >16 To 24 Hours Usage Per Day, Add	576.61	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0672 WK 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,654.62	
Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	827.31	
For >80 Hours Usage Per Week, Add	1,654.62	
01 22 23 00-0673 MO 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,512.60	
Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,256.30	
For >320 Hours Usage Per Month, Add	4,512.60	
01 22 23 00-0674 DAY 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	601.68	
Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	300.84	
For >16 To 24 Hours Usage Per Day, Add	601.68	
01 22 23 00-0675 WK 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,754.90	
Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	877.45	
For >80 Hours Usage Per Week, Add	1,754.90	
01 22 23 00-0676 MO 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,713.16	
Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,356.58	
For >320 Hours Usage Per Month, Add	4,713.16	
01 22 23 00-0677 DAY 175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	601.68	
Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	300.84	
For >16 To 24 Hours Usage Per Day, Add	601.68	
01 22 23 00-0678 WK 175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,754.90	
Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	877.45	
For >80 Hours Usage Per Week, Add	1,754.90	
01 22 23 00-0679 MO 175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,713.16	
Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,356.58	
For >320 Hours Usage Per Month, Add	4,713.16	
01 22 23 00-0680 DAY 200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	827.31	
Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	413.66	
For >16 To 24 Hours Usage Per Day, Add	827.31	
01 22 23 00-0681 WK 200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,055.74	
Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	1,027.87	
For >80 Hours Usage Per Week, Add	2,055.74	
01 22 23 00-0682 MO 200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,016.80	
Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	3,008.40	
For >320 Hours Usage Per Month, Add	6,016.80	
01 22 23 00-0683 DAY 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	877.45	
Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	438.73	
For >16 To 24 Hours Usage Per Day, Add	877.45	
01 22 23 00-0684 WK 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,105.88	
Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	1,052.94	
For >80 Hours Usage Per Week, Add	2,105.88	
01 22 23 00-0685 MO 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,217.36	
Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	3,108.68	
For >320 Hours Usage Per Month, Add	6,217.36	
01 22 23 00-0686 DAY 275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	927.59	
Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	463.80	
For >16 To 24 Hours Usage Per Day, Add	927.59	
01 22 23 00-0687 WK 275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,156.02	
Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	1,078.01	
For >80 Hours Usage Per Week, Add	2,156.02	
01 22 23 00-0688 MO 275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,417.92	
Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	3,208.96	
For >320 Hours Usage Per Month, Add	6,417.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0689 DAY 300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	957.67	
Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	478.84	
For >16 To 24 Hours Usage Per Day, Add	957.67	
01 22 23 00-0690 WK 300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,306.44	
Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	1,153.22	
For >80 Hours Usage Per Week, Add	2,306.44	
01 22 23 00-0691 MO 300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,819.04	
Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	3,409.52	
For >320 Hours Usage Per Month, Add	6,819.04	
01 22 23 00-0692 DAY 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,002.80	
Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	501.40	
For >16 To 24 Hours Usage Per Day, Add	1,002.80	
01 22 23 00-0693 WK 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,607.28	
Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	1,303.64	
For >80 Hours Usage Per Week, Add	2,607.28	
01 22 23 00-0694 MO 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	7,521.00	
Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	3,760.50	
For >320 Hours Usage Per Month, Add	7,521.00	
01 22 23 00-0695 DAY 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,662.69	
Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	831.35	
For >16 To 24 Hours Usage Per Day, Add	1,662.69	
01 22 23 00-0696 WK 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,298.83	
Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	2,149.42	
For >80 Hours Usage Per Week, Add	4,298.83	
01 22 23 00-0697 MO 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	11,368.80	
Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	5,684.40	
For >320 Hours Usage Per Month, Add	11,368.80	
01 22 23 00-0698 DAY 500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	2,131.65	
Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	1,065.83	
For >16 To 24 Hours Usage Per Day, Add	2,131.65	
01 22 23 00-0699 WK 500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	5,542.29	
Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	2,771.15	
For >80 Hours Usage Per Week, Add	5,542.29	
01 22 23 00-0700 MO 500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	12,789.90	
Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	6,394.95	
For >320 Hours Usage Per Month, Add	12,789.90	
01 22 23 00-0701 DAY 640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	2,636.14	
Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	1,318.07	
For >16 To 24 Hours Usage Per Day, Add	2,636.14	
01 22 23 00-0702 WK 640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	6,963.39	
Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	3,481.70	
For >80 Hours Usage Per Week, Add	6,963.39	
01 22 23 00-0703 MO 640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	17,053.20	
Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	8,526.60	
For >320 Hours Usage Per Month, Add	17,053.20	
01 22 23 00-0704 DAY 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	2,849.31	
Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	1,424.66	
For >16 To 24 Hours Usage Per Day, Add	2,849.31	
01 22 23 00-0705 WK 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	6,565.48	
Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	3,282.74	
For >80 Hours Usage Per Week, Add	6,565.48	

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01 22 23 00-0706	MO		750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	19,696.45	
			Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	9,848.23	
			For >320 Hours Usage Per Month, Add	19,696.45	
01 22 23 00-0707	EA		Up To 300 KW Generator Set Delivery, Set-Up, Testing And Pick-up	804.28	
01 22 23 00-0708	EA		350 To 750 KW Generator Set Delivery, Set-Up, Testing And Pick-up.....	1,307.72	
01 22 23 00-0709			Cablings For Generator Sets <small>(01 22 23 00-0629)</small>		
			Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0710	DAY		#1 Banded Cable, 50' With Camlock Ends For Generator Set.....	22.06	
01 22 23 00-0711	WK		#1 Banded Cable, 50' With Camlock Ends For Generator Set.....	38.61	
01 22 23 00-0712	MO		#1 Banded Cable, 50' With Camlock Ends For Generator Set.....	115.82	
01 22 23 00-0713	DAY		50', 4/0 Cable With Camlock Ends For Generator Set	11.03	
01 22 23 00-0714	WK		50', 4/0 Cable With Camlock Ends For Generator Set	32.09	
01 22 23 00-0715	MO		50', 4/0 Cable With Camlock Ends For Generator Set	89.25	
01 22 23 00-0716			Resistive Loadbanks For Generator Sets <small>(01 22 23 00-0629)</small>		
			Note: Includes delivery to job site and pick-up when complete. See CSI section 01 22 23 00-0737 for reimbursable fuel fees.		
01 22 23 00-0717	DAY		100 KW A/C Resistive Loadbank	462.95	
01 22 23 00-0718	WK		100 KW A/C Resistive Loadbank	1,142.59	
01 22 23 00-0719	MO		100 KW A/C Resistive Loadbank	3,417.93	
01 22 23 00-0720	DAY		650 KW A/C Resistive Loadbank	780.12	
01 22 23 00-0721	WK		650 KW A/C Resistive Loadbank	2,086.22	
01 22 23 00-0722	MO		650 KW A/C Resistive Loadbank	5,318.97	
01 22 23 00-0723			Sub-Distribution Panels (Spider Box) For Generator Sets <small>(01 22 23 00-0629)</small>		
			Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0724	DAY		50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box)	54.15	
01 22 23 00-0725	WK		50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box)	140.39	
01 22 23 00-0726	MO		50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box)	396.11	
01 22 23 00-0727			Portable Distribution Panels For Generator Sets <small>(01 22 23 00-0629)</small>		
			Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0728	DAY		200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel	120.34	
01 22 23 00-0729	WK		200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel	325.91	
01 22 23 00-0730	MO		200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel	912.55	
01 22 23 00-0731	DAY		100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	98.27	
01 22 23 00-0732	WK		100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	255.71	
01 22 23 00-0733	MO		100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	727.03	
01 22 23 00-0734	DAY		200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	125.35	
01 22 23 00-0735	WK		200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	315.88	
01 22 23 00-0736	MO		200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	857.39	
01 22 23 00-0737			Fuel Reimbursement For Generators <small>(01 22 23 00-0629)</small>		
01 22 23 00-0738	EA		Fuel Reimbursement For Generators.....	1.00	
			Note: Purchases made by the contractor for fuel will be reimbursed to the Contractor at the actual cost of the purchase, without mark-up, for which a receipt or bill is received. The Adjustment Factor applied to Reimbursable Fees will be 1.0000. The base cost of the purchase is \$1.00, quantity will adjust cost to actual purchase cost; i.e., quantity of 125 = \$125.00 purchase. If there are multiple purchases, each one shall be listed separately with a comment in the "note" block to identify the purchase.		
01 22 23 00-0739			Generator Accessories <small>(01 22 23 00-0629)</small>		
			Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0740			Step Down Transformer <small>(01 22 23 00-0739)</small>		
01 22 23 00-0741	WK		75 KVA, 480-208 Volt, Step Down Transformer.....	295.83	
01 22 23 00-0742	MO		75 KVA, 480-208 Volt, Step Down Transformer.....	827.31	
01 22 23 00-0743	WK		150 KVA, 480-208 Volt, Step Down Transformer.....	474.32	
01 22 23 00-0744	MO		150 KVA, 480-208 Volt, Step Down Transformer.....	1,421.97	
01 22 23 00-0745	WK		225 KVA, 480-208 Volt, Step Down Transformer.....	631.76	
01 22 23 00-0746	MO		225 KVA, 480-208 Volt, Step Down Transformer.....	1,895.29	
01 22 23 00-0747	WK		500 KVA, 480-208 Volt, Step Down Transformer.....	752.10	
01 22 23 00-0748	MO		500 KVA, 480-208 Volt, Step Down Transformer.....	2,256.30	
01 22 23 00-0749	WK		1,000 KVA, 4,160/480 Volt, Step Down Transformer.....	1,123.14	
01 22 23 00-0750	MO		1,000 KVA, 4,160/480 Volt, Step Down Transformer.....	3,354.37	
01 22 23 00-0751	WK		1,500 KVA, 4,160/480 Volt, Step Down Transformer.....	1,825.10	
01 22 23 00-0752	MO		1,500 KVA, 4,160/480 Volt, Step Down Transformer.....	5,470.27	
01 22 23 00-0753	WK		2,500 KVA, 480-13,800/4,160 Volt, Step Down Transformer.....	2,105.88	
01 22 23 00-0754	MO		2,500 KVA, 480-13,800/4,160 Volt, Step Down Transformer.....	6,317.64	
01 22 23 00-0755			Portable Panel <small>(01 22 23 00-0739)</small>		
01 22 23 00-0756	WK		100 Amperes, Portable Panel	235.66	
01 22 23 00-0757	MO		100 Amperes, Portable Panel	601.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0758 WK 200 Amperes, Portable Panel	281.79	
01 22 23 00-0759 MO 200 Amperes, Portable Panel	752.10	
01 22 23 00-0760 WK 400 Amperes, Portable Panel	300.84	
01 22 23 00-0761 MO 400 Amperes, Portable Panel	902.52	
01 22 23 00-0762 Portable Fusible Disconnect (01 22 23 00-0739)		
01 22 23 00-0763 WK 100 - 200 Amperes, Portable Fusible Disconnect	105.29	
01 22 23 00-0764 MO 100 - 200 Amperes, Portable Fusible Disconnect	315.88	
01 22 23 00-0765 WK 300 - 400 Amperes, Portable Fusible Disconnect	210.59	
01 22 23 00-0766 MO 300 - 400 Amperes, Portable Fusible Disconnect	631.76	
01 22 23 00-0767 Portable Transfer Switch (01 22 23 00-0739)		
01 22 23 00-0768 WK 100 Amperes, 480 Volt, Portable Transfer Switch	315.88	
01 22 23 00-0769 MO 100 Amperes, 480 Volt, Portable Transfer Switch	947.65	
01 22 23 00-0770 WK 200 Amperes, 480 Volt, Portable Transfer Switch	421.18	
01 22 23 00-0771 MO 200 Amperes, 480 Volt, Portable Transfer Switch	1,263.53	
01 22 23 00-0772 WK 400 Amperes, 480 Volt, Portable Transfer Switch	526.47	
01 22 23 00-0773 MO 400 Amperes, 480 Volt, Portable Transfer Switch	1,579.41	
01 22 23 00-0774 Welding Machines (01 22 23 00-0614)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0775 Diesel Powered Towable Welding Machines (01 22 23 00-0774)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0776 DAY 250 To 299 Amperes, Diesel Powered Towable Welding Machine	137.36	
01 22 23 00-0777 WK 250 To 299 Amperes, Diesel Powered Towable Welding Machine	335.76	
01 22 23 00-0778 MO 250 To 299 Amperes, Diesel Powered Towable Welding Machine	801.26	
01 22 23 00-0779 DAY 300 To 349 Amperes, Diesel Powered Towable Welding Machine	183.14	
01 22 23 00-0780 WK 300 To 349 Amperes, Diesel Powered Towable Welding Machine	358.66	
01 22 23 00-0781 MO 300 To 349 Amperes, Diesel Powered Towable Welding Machine	837.88	
01 22 23 00-0782 DAY 350 To 399 Amperes, Diesel Powered Towable Welding Machine	190.78	
01 22 23 00-0783 WK 350 To 399 Amperes, Diesel Powered Towable Welding Machine	381.55	
01 22 23 00-0784 MO 350 To 399 Amperes, Diesel Powered Towable Welding Machine	930.98	
01 22 23 00-0785 General Equipment (01 22 23)		
01 22 23 00-0786 Jacks And Bracing (01 22 23 00-0785)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0787 Manual Hydraulic Jacks (01 22 23 00-0786)		
01 22 23 00-0788 DAY 12 Ton Manual Hydraulic Bottle Jack	1.67	
01 22 23 00-0789 WK 12 Ton Manual Hydraulic Bottle Jack	7.93	
01 22 23 00-0790 MO 12 Ton Manual Hydraulic Bottle Jack	28.50	
01 22 23 00-0791 DAY 20 Ton Manual Hydraulic Bottle Jack	2.92	
01 22 23 00-0792 WK 20 Ton Manual Hydraulic Bottle Jack	9.18	
01 22 23 00-0793 MO 20 Ton Manual Hydraulic Bottle Jack	34.76	
01 22 23 00-0794 DAY 50 Ton Manual Hydraulic Bottle Jack	10.43	
01 22 23 00-0795 WK 50 Ton Manual Hydraulic Bottle Jack	40.49	
01 22 23 00-0796 MO 50 Ton Manual Hydraulic Bottle Jack	145.66	
01 22 23 00-0797 DAY 100 Ton Manual Hydraulic Bottle Jack	14.61	
01 22 23 00-0798 WK 100 Ton Manual Hydraulic Bottle Jack	58.43	
01 22 23 00-0799 MO 100 Ton Manual Hydraulic Bottle Jack	210.46	
01 22 23 00-0800 Manual Screw Jacks (01 22 23 00-0786)		
01 22 23 00-0801 DAY 10 To 20 Ton Manual Screw Jack	18.92	
01 22 23 00-0802 WK 10 To 20 Ton Manual Screw Jack	50.94	
01 22 23 00-0803 MO 10 To 20 Ton Manual Screw Jack	141.16	
01 22 23 00-0804 Pressure Washers (01 22 23 00-0785)		
Note: Includes delivery to job site, pick-up when complete and full time operator.		
01 22 23 00-0805 DAY 2,000 PSI Pressure Washer With Full-Time Operator	713.45	
For Equipment Without Operator, Deduct		-598.35
01 22 23 00-0806 WK 2,000 PSI Pressure Washer With Full-Time Operator	3,283.93	
For Equipment Without Operator, Deduct		-2,991.75
01 22 23 00-0807 MO 2,000 PSI Pressure Washer With Full-Time Operator	13,707.98	
For Equipment Without Operator, Deduct		-12,964.24
01 22 23 00-0808 DAY 2,500 PSI Pressure Washer With Full-Time Operator	703.53	
For Equipment Without Operator, Deduct		-598.35
01 22 23 00-0809 WK 2,500 PSI Pressure Washer With Full-Time Operator	3,258.74	
For Equipment Without Operator, Deduct		-2,991.75
01 22 23 00-0810 MO 2,500 PSI Pressure Washer With Full-Time Operator	13,643.84	
For Equipment Without Operator, Deduct		-12,964.24
01 22 23 00-0811 DAY 3,000 PSI Pressure Washer With Full-Time Operator	713.45	
For Equipment Without Operator, Deduct		-598.35
01 22 23 00-0812 WK 3,000 PSI Pressure Washer With Full-Time Operator	3,283.93	
For Equipment Without Operator, Deduct		-2,991.75

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01 22 23 00-0813 MO 3,000 PSI Pressure Washer With Full-Time Operator.....	13,707.98	
<i>For Equipment Without Operator, Deduct</i>	-12,964.24	
01 22 23 00-0814 DAY 3,500 PSI Pressure Washer With Full-Time Operator.....	711.62	
<i>For Equipment Without Operator, Deduct</i>	-598.35	
01 22 23 00-0815 WK 3,500 PSI Pressure Washer With Full-Time Operator.....	3,283.01	
<i>For Equipment Without Operator, Deduct</i>	-2,991.75	
01 22 23 00-0816 MO 3,500 PSI Pressure Washer With Full-Time Operator.....	13,708.57	
<i>For Equipment Without Operator, Deduct</i>	-12,964.24	
01 22 23 00-0817 DAY 4,000 PSI Pressure Washer With Full-Time Operator.....	757.72	
<i>For Equipment Without Operator, Deduct</i>	-598.35	
01 22 23 00-0818 WK 4,000 PSI Pressure Washer With Full-Time Operator.....	3,425.60	
<i>For Equipment Without Operator, Deduct</i>	-2,991.75	
01 22 23 00-0819 MO 4,000 PSI Pressure Washer With Full-Time Operator.....	14,177.24	
<i>For Equipment Without Operator, Deduct</i>	-12,964.24	
01 22 23 00-0820 DAY 5,000 PSI Pressure Washer With Full-Time Operator.....	760.16	
<i>For Equipment Without Operator, Deduct</i>	-598.35	
01 22 23 00-0821 WK 5,000 PSI Pressure Washer With Full-Time Operator.....	3,428.64	
<i>For Equipment Without Operator, Deduct</i>	-2,991.75	
01 22 23 00-0822 MO 5,000 PSI Pressure Washer With Full-Time Operator.....	14,194.00	
<i>For Equipment Without Operator, Deduct</i>	-12,964.24	
01 22 23 00-0823 Confined Space Entry Equipment <small>(01 22 23 00-0785)</small>		
Note: Includes delivery to job site, set-up, and pick-up when complete.		
01 22 23 00-0824 DAY Ventilation Equipment For Confined Space	50.93	
Note: Includes electric or gas blower and ventilation duct up to 25'.		
01 22 23 00-0825 WK Ventilation Equipment For Confined Space	152.80	
Note: Includes electric or gas blower and ventilation duct up to 25'.		
01 22 23 00-0826 MO Ventilation Equipment For Confined Space	455.98	
Note: Includes electric or gas blower and ventilation duct up to 25'.		
01 22 23 00-0827 DAY Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	44.26	
01 22 23 00-0828 WK Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	132.77	
01 22 23 00-0829 MO Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	398.32	
01 22 23 00-0830 DAY Confined Space Air Monitor Personnel	756.04	
Note: Per person day.		
01 22 23 00-0831 Mowers <small>(01 22 23 00-0785)</small>		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0832 DAY 21" Walk Behind Lawn Mower	64.72	
01 22 23 00-0833 WK 21" Walk Behind Lawn Mower	186.08	
01 22 23 00-0834 MO 21" Walk Behind Lawn Mower	380.25	
01 22 23 00-0835 DAY 32" Walk Behind Lawn Mower	80.90	
01 22 23 00-0836 WK 32" Walk Behind Lawn Mower	194.17	
01 22 23 00-0837 MO 32" Walk Behind Lawn Mower	404.52	
01 22 23 00-0838 DAY 36" To 48" Walk Behind Deck Mower	145.63	
01 22 23 00-0839 WK 36" To 48" Walk Behind Deck Mower	404.52	
01 22 23 00-0840 MO 36" To 48" Walk Behind Deck Mower	1,173.12	
01 22 23 00-0841 DAY 61" To 72" Walk Behind Deck Mower	145.63	
01 22 23 00-0842 WK 61" To 72" Walk Behind Deck Mower	404.52	
01 22 23 00-0843 MO 61" To 72" Walk Behind Deck Mower	1,173.12	
01 22 23 00-0844 Material Handling Equipment <small>(01 22 23)</small>		
01 22 23 00-0845 Truck Mounted Hydraulic Cranes <small>(01 22 23 00-0844)</small>		
Note: Includes full-time operator. Include delivery, set-up, rigging, and removal time in rental period. Excludes lattice boom extension.		
01 22 23 00-0846 DAY 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	1,225.88	
<i>For Equipment Without Operator, Deduct</i>	-806.32	
01 22 23 00-0847 WK 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	5,302.60	
<i>For Equipment Without Operator, Deduct</i>	-4,031.58	
01 22 23 00-0848 MO 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator.....	21,295.60	
<i>For Equipment Without Operator, Deduct</i>	-17,470.20	
01 22 23 00-0849 DAY 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,336.94	
<i>For Equipment Without Operator, Deduct</i>	-806.32	
01 22 23 00-0850 WK 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	5,632.70	
<i>For Equipment Without Operator, Deduct</i>	-4,031.58	
01 22 23 00-0851 MO 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	22,282.80	
<i>For Equipment Without Operator, Deduct</i>	-17,470.20	
01 22 23 00-0852 DAY 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,448.00	
<i>For Equipment Without Operator, Deduct</i>	-806.32	
01 22 23 00-0853 WK 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	5,962.79	
<i>For Equipment Without Operator, Deduct</i>	-4,031.58	
01 22 23 00-0854 MO 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	23,270.00	
<i>For Equipment Without Operator, Deduct</i>	-17,470.20	
01 22 23 00-0855 DAY 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,596.08	
<i>For Equipment Without Operator, Deduct</i>	-806.32	
01 22 23 00-0856 WK 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	6,407.03	
<i>For Equipment Without Operator, Deduct</i>	-4,031.58	
01 22 23 00-0857 MO 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	24,596.55	
<i>For Equipment Without Operator, Deduct</i>	-17,470.20	
01 22 23 00-0858 DAY 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,731.82	
<i>For Equipment Without Operator, Deduct</i>	-806.32	



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01 22 23 00-0859 WK 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	7,326.36	
<i>For Equipment Without Operator, Deduct</i>	-4,031.58	
01 22 23 00-0860 MO 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	27,352.07	
<i>For Equipment Without Operator, Deduct</i>	-17,470.20	
01 22 23 00-0861 DAY 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,052.66	
<i>For Equipment Without Operator, Deduct</i>	-806.32	
01 22 23 00-0862 WK 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	8,473.98	
<i>For Equipment Without Operator, Deduct</i>	-4,031.58	
01 22 23 00-0863 MO 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	30,797.40	
<i>For Equipment Without Operator, Deduct</i>	-17,470.20	
01 22 23 00-0864 DAY 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,256.27	
<i>For Equipment Without Operator, Deduct</i>	-806.32	
01 22 23 00-0865 WK 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	9,189.70	
<i>For Equipment Without Operator, Deduct</i>	-4,031.58	
01 22 23 00-0866 MO 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	32,949.50	
<i>For Equipment Without Operator, Deduct</i>	-17,470.20	
01 22 23 00-0867 DAY 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,416.69	
<i>For Equipment Without Operator, Deduct</i>	-806.32	
01 22 23 00-0868 WK 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	9,769.68	
<i>For Equipment Without Operator, Deduct</i>	-4,031.58	
01 22 23 00-0869 MO 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	34,686.97	
<i>For Equipment Without Operator, Deduct</i>	-17,470.20	
01 22 23 00-0870 DAY 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,577.11	
<i>For Equipment Without Operator, Deduct</i>	-806.32	
01 22 23 00-0871 WK 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	10,349.66	
<i>For Equipment Without Operator, Deduct</i>	-4,031.58	
01 22 23 00-0872 MO 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	36,424.44	
<i>For Equipment Without Operator, Deduct</i>	-17,470.20	
01 22 23 00-0873 DAY 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,682.00	
<i>For Equipment Without Operator, Deduct</i>	-806.32	
01 22 23 00-0874 WK 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	10,707.52	
<i>For Equipment Without Operator, Deduct</i>	-4,031.58	
01 22 23 00-0875 MO 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	37,510.36	
<i>For Equipment Without Operator, Deduct</i>	-17,470.20	
01 22 23 00-0876 DAY 100 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,814.02	
<i>For Equipment Without Operator, Deduct</i>	-796.43	
01 22 23 00-0877 WK 100 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	11,188.71	
<i>For Equipment Without Operator, Deduct</i>	-3,962.15	
01 22 23 00-0878 MO 100 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	38,875.67	
<i>For Equipment Without Operator, Deduct</i>	-17,255.99	
01 22 23 00-0879 Cable Controlled Lattice Boom, Truck Mounted Mechanical Cranes <small>(01 22 23 00-0844)</small>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		
01 22 23 00-0880 DAY 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	2,287.12	
<i>For Equipment Without Operator, Deduct</i>	-806.32	
01 22 23 00-0881 WK 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	9,313.10	
<i>For Equipment Without Operator, Deduct</i>	-4,031.58	
01 22 23 00-0882 MO 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	33,314.76	
<i>For Equipment Without Operator, Deduct</i>	-17,470.20	
01 22 23 00-0883 DAY 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	3,428.57	
<i>For Equipment Without Operator, Deduct</i>	-806.32	
01 22 23 00-0884 WK 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	11,213.46	
<i>For Equipment Without Operator, Deduct</i>	-4,031.58	
01 22 23 00-0885 MO 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	39,015.84	
<i>For Equipment Without Operator, Deduct</i>	-17,470.20	
01 22 23 00-0886 DAY 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	3,613.67	
<i>For Equipment Without Operator, Deduct</i>	-806.32	
01 22 23 00-0887 WK 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	12,564.69	
<i>For Equipment Without Operator, Deduct</i>	-4,031.58	
01 22 23 00-0888 MO 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	43,068.30	
<i>For Equipment Without Operator, Deduct</i>	-17,470.20	
01 22 23 00-0889 DAY 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	3,983.87	
<i>For Equipment Without Operator, Deduct</i>	-806.32	
01 22 23 00-0890 WK 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	13,915.92	
<i>For Equipment Without Operator, Deduct</i>	-4,031.58	
01 22 23 00-0891 MO 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	47,115.82	
<i>For Equipment Without Operator, Deduct</i>	-17,470.20	
01 22 23 00-0892 DAY 250 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	4,335.56	
<i>For Equipment Without Operator, Deduct</i>	-806.32	
01 22 23 00-0893 WK 250 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	16,618.38	
<i>For Equipment Without Operator, Deduct</i>	-4,031.58	
01 22 23 00-0894 MO 250 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	55,230.60	
<i>For Equipment Without Operator, Deduct</i>	-17,470.20	
01 22 23 00-0895 DAY 300 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	4,915.54	
<i>For Equipment Without Operator, Deduct</i>	-806.32	
01 22 23 00-0896 WK 300 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	18,697.67	
<i>For Equipment Without Operator, Deduct</i>	-4,031.58	
01 22 23 00-0897 MO 300 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	61,459.83	
<i>For Equipment Without Operator, Deduct</i>	-17,470.20	
01 22 23 00-0898 DAY 500 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	8,481.80	
<i>For Equipment Without Operator, Deduct</i>	-806.32	
01 22 23 00-0899 WK 500 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	31,407.87	
<i>For Equipment Without Operator, Deduct</i>	-4,031.58	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0900 MO 500 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	99,605.24 -17,470.20	
01 22 23 00-0901 Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklifts (01 22 23 00-0844) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0902 DAY 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,406.60 -756.04	
01 22 23 00-0903 WK 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,372.38 -3,780.22	
01 22 23 00-0904 MO 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	19,804.96 -16,380.96	
01 22 23 00-0905 DAY 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,475.08 -756.04	
01 22 23 00-0906 WK 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,526.46 -3,780.22	
01 22 23 00-0907 MO 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	20,147.36 -16,380.96	
01 22 23 00-0908 DAY 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,457.96 -756.04	
01 22 23 00-0909 WK 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,603.50 -3,780.22	
01 22 23 00-0910 MO 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	20,660.96 -16,380.96	
01 22 23 00-0911 DAY 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,654.84 -756.04	
01 22 23 00-0912 WK 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,117.10 -3,780.22	
01 22 23 00-0913 MO 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	21,859.36 -16,380.96	
01 22 23 00-0914 Straight Mast, Rough Terrain Construction Forklifts (01 22 23 00-0844) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0915 DAY 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	1,178.90 -756.04 84.57	
01 22 23 00-0916 WK 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	4,934.96 -3,780.22 230.95	
01 22 23 00-0917 MO 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	19,023.86 -16,380.96 528.58	
01 22 23 00-0918 DAY 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	1,201.16 -756.04 89.02	
01 22 23 00-0919 WK 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	4,995.74 -3,780.22 243.10	
01 22 23 00-0920 MO 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	19,162.96 -16,380.96 556.40	
01 22 23 00-0921 DAY 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	1,321.00 -756.04 112.99	
01 22 23 00-0922 WK 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	5,329.58 -3,780.22 309.87	
01 22 23 00-0923 MO 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	19,933.36 -16,380.96 710.48	
01 22 23 00-0924 DAY 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	1,387.00 -756.04 126.19	
01 22 23 00-0925 WK 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	5,300.99 -3,780.22 304.15	
01 22 23 00-0926 MO 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	20,166.71 -16,380.96 757.15	
01 22 23 00-0927 Straight Mast, Industrial Warehouse Forklifts (01 22 23 00-0844) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0928 DAY 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	1,115.56 -756.04 71.90	
01 22 23 00-0929 WK 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	4,601.98 -3,780.22 164.35	
01 22 23 00-0930 MO 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Propane Instead Of Gas Or Diesel, Add</i>	18,349.76 -16,380.96 393.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0931 DAY 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	1,124.12	
<i>For Equipment Without Operator, Deduct</i>	-756.04	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	73.62	
01 22 23 00-0932 WK 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	4,627.66	
<i>For Equipment Without Operator, Deduct</i>	-3,780.22	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	169.49	
01 22 23 00-0933 MO 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	18,409.68	
<i>For Equipment Without Operator, Deduct</i>	-16,380.96	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	405.74	
01 22 23 00-0934 DAY 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	1,303.88	
<i>For Equipment Without Operator, Deduct</i>	-756.04	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	109.57	
01 22 23 00-0935 WK 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	5,021.42	
<i>For Equipment Without Operator, Deduct</i>	-3,780.22	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	248.24	
01 22 23 00-0936 MO 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	19,376.96	
<i>For Equipment Without Operator, Deduct</i>	-16,380.96	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	599.20	
01 22 23 00-0937 DAY 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	1,321.00	
<i>For Equipment Without Operator, Deduct</i>	-756.04	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	112.99	
01 22 23 00-0938 WK 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	5,166.94	
<i>For Equipment Without Operator, Deduct</i>	-3,780.22	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	277.34	
01 22 23 00-0939 MO 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	19,890.56	
<i>For Equipment Without Operator, Deduct</i>	-16,380.96	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	701.92	
01 22 23 00-0940 DAY 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	1,475.08	
<i>For Equipment Without Operator, Deduct</i>	-756.04	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	143.81	
01 22 23 00-0941 WK 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	5,415.18	
<i>For Equipment Without Operator, Deduct</i>	-3,780.22	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	326.99	
01 22 23 00-0942 MO 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	20,318.56	
<i>For Equipment Without Operator, Deduct</i>	-16,380.96	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	787.52	
01 22 23 00-0943 Chain Hoists <small>(01 22 23 00-0944)</small>		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0944 DAY 1 Ton, 20' Lift, Manual Chain Hoist	12.52	
01 22 23 00-0945 WK 1 Ton, 20' Lift, Manual Chain Hoist	32.55	
01 22 23 00-0946 MO 1 Ton, 20' Lift, Manual Chain Hoist	96.40	
01 22 23 00-0947 DAY 3 Ton, 20' Lift, Manual Chain Hoist	35.06	
01 22 23 00-0948 WK 3 Ton, 20' Lift, Manual Chain Hoist	82.63	
01 22 23 00-0949 MO 3 Ton, 20' Lift, Manual Chain Hoist	231.62	
01 22 23 00-0950 DAY 5 Ton, 20' Lift, Manual Chain Hoist	45.07	
01 22 23 00-0951 WK 5 Ton, 20' Lift, Manual Chain Hoist	121.44	
01 22 23 00-0952 MO 5 Ton, 20' Lift, Manual Chain Hoist	338.04	
01 22 23 00-0953 DAY 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	88.89	
01 22 23 00-0954 WK 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	231.62	
01 22 23 00-0955 MO 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	626.00	
01 22 23 00-0956 DAY 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	90.14	
01 22 23 00-0957 WK 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	241.01	
01 22 23 00-0958 MO 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	657.30	
01 22 23 00-0959 DAY 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	92.65	
01 22 23 00-0960 WK 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	259.79	
01 22 23 00-0961 MO 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	719.90	
01 22 23 00-0962 Roof Swing Hoist <small>(01 22 23 00-0944)</small>		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0963 DAY Up To 400#, Manual Swing Roof Hoist	69.18	
01 22 23 00-0964 WK Up To 400#, Manual Swing Roof Hoist	242.15	
01 22 23 00-0965 MO Up To 400#, Manual Swing Roof Hoist	830.22	
01 22 23 00-0966 Pumping Equipment <small>(01 22 23)</small>		
01 22 23 00-0967 Gas Powered Portable Centrifugal Pumps <small>(01 22 23 00-0966)</small>		
Note: Includes delivery, set-up, and removal. Excludes operator. See CSI section 01 22 23 00-0991 for larger diameter pumps.		
01 22 23 00-0968 DAY 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	107.48	
01 22 23 00-0969 WK 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	241.83	
01 22 23 00-0970 MO 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	644.88	
01 22 23 00-0971 DAY 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	128.98	
01 22 23 00-0972 WK 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	290.20	
01 22 23 00-0973 MO 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	773.86	
01 22 23 00-0974 Gas Powered Portable Diaphragm Pumps <small>(01 22 23 00-0966)</small>		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0975 DAY 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	123.60	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0976	WK		3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump.....	349.31	
01 22 23 00-0977	MO		3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump.....	886.71	
01 22 23 00-0978	DAY		5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump.....	150.47	
01 22 23 00-0979	WK		5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump.....	403.05	
01 22 23 00-0980	MO		5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump.....	1,141.98	
01 22 23 00-0981			Gas Powered Portable Trash Pumps (01 22 23 00-0966)		
			Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0982	DAY		12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump.....	155.85	
01 22 23 00-0983	WK		12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump.....	322.44	
01 22 23 00-0984	MO		12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump.....	967.32	
01 22 23 00-0985	DAY		25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump.....	155.85	
01 22 23 00-0986	WK		25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump.....	416.48	
01 22 23 00-0987	MO		25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump.....	1,141.98	
01 22 23 00-0988	DAY		35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump.....	247.20	
01 22 23 00-0989	WK		35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump.....	698.62	
01 22 23 00-0990	MO		35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump.....	2,028.68	
01 22 23 00-0991			Diesel Powered Portable Trash Pumps (01 22 23 00-0966)		
			Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0992	DAY		63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump.....	483.66	
01 22 23 00-0993	WK		63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump.....	1,316.63	
01 22 23 00-0994	MO		63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump.....	5,736.74	
01 22 23 00-0995	DAY		156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump.....	738.92	
01 22 23 00-0996	WK		156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump.....	1,934.64	
01 22 23 00-0997	MO		156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump.....	5,145.60	
01 22 23 00-0998	DAY		246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump.....	1,004.94	
01 22 23 00-0999	WK		246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump.....	2,689.69	
01 22 23 00-1000	MO		246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump.....	7,195.79	
01 22 23 00-1001	DAY		379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump.....	1,300.51	
01 22 23 00-1002	WK		379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump.....	3,321.13	
01 22 23 00-1003	MO		379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump.....	9,753.81	
01 22 23 00-1004			Diesel Powered Portable Silenced Environmental Trash Pumps (01 22 23 00-0966)		
			Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1005	DAY		90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	690.56	
01 22 23 00-1006	WK		90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	1,571.90	
01 22 23 00-1007	MO		90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	4,901.09	
01 22 23 00-1008	DAY		136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	846.40	
01 22 23 00-1009	WK		136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	2,109.30	
01 22 23 00-1010	MO		136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	5,736.74	
01 22 23 00-1011	DAY		246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	1,021.06	
01 22 23 00-1012	WK		246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	3,020.19	
01 22 23 00-1013	MO		246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	8,423.74	
01 22 23 00-1014	DAY		510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	1,536.96	
01 22 23 00-1015	WK		510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	3,925.71	
01 22 23 00-1016	MO		510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	11,527.23	
01 22 23 00-1017			3 Phase Electric Submersible Pumps (01 22 23 00-0966)		
			Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1018	DAY		24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump.....	268.70	
01 22 23 00-1019	WK		24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump.....	671.75	
01 22 23 00-1020	MO		24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump.....	2,015.25	
01 22 23 00-1021	DAY		49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump.....	354.68	
01 22 23 00-1022	WK		49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump.....	886.71	
01 22 23 00-1023	MO		49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump.....	2,660.13	
01 22 23 00-1024			Suction Hose With Couplings (01 22 23 00-0966)		
			Note: Includes delivery, set-up, and removal.		
01 22 23 00-1025	DAY		Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings.....	6.00	
01 22 23 00-1026	WK		Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings.....	15.00	
01 22 23 00-1027	MO		Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings.....	46.00	
01 22 23 00-1028	DAY		3" Inside Diameter, 20' Length, Suction Hose With Couplings.....	16.00	
01 22 23 00-1029	WK		3" Inside Diameter, 20' Length, Suction Hose With Couplings.....	41.00	
01 22 23 00-1030	MO		3" Inside Diameter, 20' Length, Suction Hose With Couplings.....	125.00	
01 22 23 00-1031	DAY		4" Inside Diameter, 20' Length, Suction Hose With Couplings.....	24.00	
01 22 23 00-1032	WK		4" Inside Diameter, 20' Length, Suction Hose With Couplings.....	61.00	
01 22 23 00-1033	MO		4" Inside Diameter, 20' Length, Suction Hose With Couplings.....	185.00	
01 22 23 00-1034	DAY		6" Inside Diameter, 20' Length, Suction Hose With Couplings.....	30.00	
01 22 23 00-1035	WK		6" Inside Diameter, 20' Length, Suction Hose With Couplings.....	75.00	
01 22 23 00-1036	MO		6" Inside Diameter, 20' Length, Suction Hose With Couplings.....	220.00	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				01 22 23 00-1037 DAY 10" Inside Diameter, 20' Length, Suction Hose With Couplings.....	70.00	
				01 22 23 00-1038 WK 10" Inside Diameter, 20' Length, Suction Hose With Couplings.....	180.00	
				01 22 23 00-1039 MO 10" Inside Diameter, 20' Length, Suction Hose With Couplings.....	530.00	
				01 22 23 00-1040 DAY 12" Inside Diameter, 20' Length, Suction Hose With Couplings.....	94.00	
				01 22 23 00-1041 WK 12" Inside Diameter, 20' Length, Suction Hose With Couplings.....	205.00	
				01 22 23 00-1042 MO 12" Inside Diameter, 20' Length, Suction Hose With Couplings.....	615.00	
01 22 23 00-1043				Discharge Hose With Couplings (01 22 23 00-0966)		
				Note: Includes delivery, set-up, and removal.		
				01 22 23 00-1044 DAY 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	6.00	
				01 22 23 00-1045 WK 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	15.00	
				01 22 23 00-1046 MO 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	46.00	
				01 22 23 00-1047 DAY 2" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	7.00	
				01 22 23 00-1048 WK 2" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	17.00	
				01 22 23 00-1049 MO 2" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	53.00	
				01 22 23 00-1050 DAY 3" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	8.00	
				01 22 23 00-1051 WK 3" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	20.00	
				01 22 23 00-1052 MO 3" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	61.00	
				01 22 23 00-1053 DAY 4" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	21.00	
				01 22 23 00-1054 WK 4" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	54.00	
				01 22 23 00-1055 MO 4" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	155.00	
				01 22 23 00-1056 DAY 6" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	26.00	
				01 22 23 00-1057 WK 6" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	71.00	
				01 22 23 00-1058 MO 6" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	195.00	
				01 22 23 00-1059 DAY 10" Inside Diameter, 10' Length, Discharge Hose With Couplings.....	20.00	
				01 22 23 00-1060 WK 10" Inside Diameter, 10' Length, Discharge Hose With Couplings.....	50.00	
				01 22 23 00-1061 MO 10" Inside Diameter, 10' Length, Discharge Hose With Couplings.....	150.00	
				01 22 23 00-1062 DAY 12" Inside Diameter, 10' Length, Discharge Hose With Couplings.....	51.00	
				01 22 23 00-1063 WK 12" Inside Diameter, 10' Length, Discharge Hose With Couplings.....	130.00	
				01 22 23 00-1064 MO 12" Inside Diameter, 10' Length, Discharge Hose With Couplings.....	385.00	
01 22 23 00-1065				Hydraulic Submersible Pumps (01 22 23 00-0966)		
				Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1066				Hydraulic Submersible Pumps (01 22 23 00-1065)		
				Note: Includes delivery, set-up, and removal. Excludes operator.		
				01 22 23 00-1067 DAY 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump.....	177.34	
				01 22 23 00-1068 WK 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump.....	475.60	
				01 22 23 00-1069 MO 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump.....	1,330.06	
				01 22 23 00-1070 DAY 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump.....	225.71	
				01 22 23 00-1071 WK 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump.....	580.39	
				01 22 23 00-1072 MO 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump.....	1,773.42	
01 22 23 00-1073				Hydraulic Submersible Pump Diesel Power Packs (01 22 23 00-1065)		
				Note: Includes delivery, set-up, and removal. Excludes operator.		
				01 22 23 00-1074 DAY 100 HP, Hydraulic Submersible Pump Diesel Power Pack.....	409.77	
				01 22 23 00-1075 WK 100 HP, Hydraulic Submersible Pump Diesel Power Pack.....	1,222.58	
				01 22 23 00-1076 MO 100 HP, Hydraulic Submersible Pump Diesel Power Pack.....	3,224.40	
01 22 23 00-1077				HDPE Pipe With Couplings (01 22 23 00-0966)		
				Note: Includes delivery, set-up, and removal.		
				01 22 23 00-1078 DAY 4" x 20' HDPE Pipe With Couplings.....	6.25	
				01 22 23 00-1079 WK 4" x 20' HDPE Pipe With Couplings.....	15.00	
				01 22 23 00-1080 MO 4" x 20' HDPE Pipe With Couplings.....	46.25	
				01 22 23 00-1081 DAY 6" x 20' HDPE Pipe With Couplings.....	10.00	
				01 22 23 00-1082 WK 6" x 20' HDPE Pipe With Couplings.....	25.00	
				01 22 23 00-1083 MO 6" x 20' HDPE Pipe With Couplings.....	76.25	
				01 22 23 00-1084 DAY 8" x 20' HDPE Pipe With Couplings.....	16.25	
				01 22 23 00-1085 WK 8" x 20' HDPE Pipe With Couplings.....	42.50	
				01 22 23 00-1086 MO 8" x 20' HDPE Pipe With Couplings.....	126.25	
				01 22 23 00-1087 DAY 10" x 20' HDPE Pipe With Couplings.....	20.00	
				01 22 23 00-1088 WK 10" x 20' HDPE Pipe With Couplings.....	51.25	
				01 22 23 00-1089 MO 10" x 20' HDPE Pipe With Couplings.....	156.25	
				01 22 23 00-1090 DAY 12" x 10' HDPE Pipe With Couplings.....	15.00	
				01 22 23 00-1091 WK 12" x 10' HDPE Pipe With Couplings.....	41.25	
				01 22 23 00-1092 MO 12" x 10' HDPE Pipe With Couplings.....	125.00	
				01 22 23 00-1093 DAY 4" Elbow For HDPE Pipe, Quick Connect.....	15.00	
				01 22 23 00-1094 WK 4" Elbow For HDPE Pipe, Quick Connect.....	38.75	
				01 22 23 00-1095 MO 4" Elbow For HDPE Pipe, Quick Connect.....	115.00	
				01 22 23 00-1096 DAY 6" Elbow For HDPE Pipe, Quick Connect.....	17.50	
				01 22 23 00-1097 WK 6" Elbow For HDPE Pipe, Quick Connect.....	45.00	
				01 22 23 00-1098 MO 6" Elbow For HDPE Pipe, Quick Connect.....	137.50	
				01 22 23 00-1099 DAY 8" Elbow For HDPE Pipe, Quick Connect.....	20.00	
				01 22 23 00-1100 WK 8" Elbow For HDPE Pipe, Quick Connect.....	51.25	
				01 22 23 00-1101 MO 8" Elbow For HDPE Pipe, Quick Connect.....	156.25	
				01 22 23 00-1102 DAY 10" Elbow For HDPE Pipe, Quick Connect.....	25.00	
				01 22 23 00-1103 WK 10" Elbow For HDPE Pipe, Quick Connect.....	63.75	
				01 22 23 00-1104 MO 10" Elbow For HDPE Pipe, Quick Connect.....	193.75	

01	General Requirements
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MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 22 23 00-1105	DAY	12" Elbow For HDPE Pipe, Quick Connect	25.00
01 22 23 00-1106	WK	12" Elbow For HDPE Pipe, Quick Connect	63.75
01 22 23 00-1107	MO	12" Elbow For HDPE Pipe, Quick Connect	193.75
01 22 23 00-1108	DAY	4" Tee For HDPE Pipe, Quick Connect	15.00
01 22 23 00-1109	WK	4" Tee For HDPE Pipe, Quick Connect	38.75
01 22 23 00-1110	MO	4" Tee For HDPE Pipe, Quick Connect	115.00
01 22 23 00-1111	DAY	6" Tee For HDPE Pipe, Quick Connect	20.00
01 22 23 00-1112	WK	6" Tee For HDPE Pipe, Quick Connect	51.25
01 22 23 00-1113	MO	6" Tee For HDPE Pipe, Quick Connect	156.25
01 22 23 00-1114	DAY	8" Tee For HDPE Pipe, Quick Connect	25.00
01 22 23 00-1115	WK	8" Tee For HDPE Pipe, Quick Connect	63.75
01 22 23 00-1116	MO	8" Tee For HDPE Pipe, Quick Connect	193.75
01 22 23 00-1117	DAY	10" Tee For HDPE Pipe, Quick Connect	30.00
01 22 23 00-1118	WK	10" Tee For HDPE Pipe, Quick Connect	76.25
01 22 23 00-1119	MO	10" Tee For HDPE Pipe, Quick Connect	231.25
01 22 23 00-1120	DAY	12" Tee For HDPE Pipe, Quick Connect	30.00
01 22 23 00-1121	WK	12" Tee For HDPE Pipe, Quick Connect	76.25
01 22 23 00-1122	MO	12" Tee For HDPE Pipe, Quick Connect	231.25
01 22 23 00-1123	DAY	4" Cap For HDPE Pipe, Quick Connect	2.50
01 22 23 00-1124	WK	4" Cap For HDPE Pipe, Quick Connect	7.50
01 22 23 00-1125	MO	4" Cap For HDPE Pipe, Quick Connect	22.50
01 22 23 00-1126	DAY	6" Cap For HDPE Pipe, Quick Connect	2.50
01 22 23 00-1127	WK	6" Cap For HDPE Pipe, Quick Connect	7.50
01 22 23 00-1128	MO	6" Cap For HDPE Pipe, Quick Connect	22.50
01 22 23 00-1129	DAY	8" Cap For HDPE Pipe, Quick Connect	2.50
01 22 23 00-1130	WK	8" Cap For HDPE Pipe, Quick Connect	7.50
01 22 23 00-1131	MO	8" Cap For HDPE Pipe, Quick Connect	22.50
01 22 23 00-1132	DAY	10" Cap For HDPE Pipe, Quick Connect	2.50
01 22 23 00-1133	WK	10" Cap For HDPE Pipe, Quick Connect	7.50
01 22 23 00-1134	MO	10" Cap For HDPE Pipe, Quick Connect	22.50
01 22 23 00-1135	DAY	12" Cap For HDPE Pipe, Quick Connect	2.50
01 22 23 00-1136	WK	12" Cap For HDPE Pipe, Quick Connect	7.50
01 22 23 00-1137	MO	12" Cap For HDPE Pipe, Quick Connect	22.50
01 22 23 00-1138	DAY	4" Wye For HDPE Pipe, Quick Connect	7.50
01 22 23 00-1139	WK	4" Wye For HDPE Pipe, Quick Connect	18.75
01 22 23 00-1140	MO	4" Wye For HDPE Pipe, Quick Connect	57.50
01 22 23 00-1141	DAY	6" Wye For HDPE Pipe, Quick Connect	8.75
01 22 23 00-1142	WK	6" Wye For HDPE Pipe, Quick Connect	22.50
01 22 23 00-1143	MO	6" Wye For HDPE Pipe, Quick Connect	68.75
01 22 23 00-1144	DAY	8" Wye For HDPE Pipe, Quick Connect	15.00
01 22 23 00-1145	WK	8" Wye For HDPE Pipe, Quick Connect	38.75
01 22 23 00-1146	MO	8" Wye For HDPE Pipe, Quick Connect	115.00
01 22 23 00-1147	DAY	10" Wye For HDPE Pipe, Quick Connect	22.50
01 22 23 00-1148	WK	10" Wye For HDPE Pipe, Quick Connect	57.50
01 22 23 00-1149	MO	10" Wye For HDPE Pipe, Quick Connect	175.00
01 22 23 00-1150	DAY	12" Wye For HDPE Pipe, Quick Connect	22.50
01 22 23 00-1151	WK	12" Wye For HDPE Pipe, Quick Connect	57.50
01 22 23 00-1152	MO	12" Wye For HDPE Pipe, Quick Connect	175.00

01 22 23 00-1153 Truck And Trailer Equipment (01 22 23)

01 22 23 00-1154 Trucks (01 22 23 00-1153)

Note: Includes driver, delivery, and removal.

01 22 23 00-1155 Flat Bed Trucks (01 22 23 00-1154)

Note: Includes hydraulic tilt bed.

01 22 23 00-1156	DAY	1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	878.10
		<i>For Equipment Without Operator, Deduct</i>	-641.15
01 22 23 00-1157	WK	1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	3,826.93
		<i>For Equipment Without Operator, Deduct</i>	-3,205.74
01 22 23 00-1158	MO	1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	15,460.52
		<i>For Equipment Without Operator, Deduct</i>	-13,891.54
01 22 23 00-1159	DAY	3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	980.56
		<i>For Equipment Without Operator, Deduct</i>	-641.15
01 22 23 00-1160	WK	3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	4,089.49
		<i>For Equipment Without Operator, Deduct</i>	-3,205.74
01 22 23 00-1161	MO	3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	16,132.94
		<i>For Equipment Without Operator, Deduct</i>	-13,891.54
01 22 23 00-1162	DAY	6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	1,054.08
		<i>For Equipment Without Operator, Deduct</i>	-641.15
01 22 23 00-1163	WK	6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	4,370.50
		<i>For Equipment Without Operator, Deduct</i>	-3,205.74
01 22 23 00-1164	MO	6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	17,202.41
		<i>For Equipment Without Operator, Deduct</i>	-13,891.54

01 22 23 00-1165 Light Off-Road Utility Passanger Vehicles (01 22 23 00-1154)

01 22 23 00-1166	DAY	4 Wheel, 2 Person, Light Off Road Utility Passanger Vehicle	207.79
01 22 23 00-1167	WK	4 Wheel, 2 Person, Light Off Road Utility Passanger Vehicle	480.52
01 22 23 00-1168	MO	4 Wheel, 2 Person, Light Off Road Utility Passanger Vehicle	1,038.96
01 22 23 00-1169	DAY	4 Wheel, 4 Person, Light Off Road Utility Passanger Vehicle	214.29
01 22 23 00-1170	WK	4 Wheel, 4 Person, Light Off Road Utility Passanger Vehicle	500.00



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1171 MO 4 Wheel, 4 Person, Light Off Road Utility Passanger Vehicle	1,103.90	
01 22 23 00-1172 Light Duty Trucks (01 22 23 00-1154)		
01 22 23 00-1173 DAY 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver	886.43	
<i>For Equipment Without Operator, Deduct</i>	-641.15	
01 22 23 00-1174 WK 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver	4,010.56	
<i>For Equipment Without Operator, Deduct</i>	-3,205.74	
01 22 23 00-1175 MO 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver	15,577.84	
<i>For Equipment Without Operator, Deduct</i>	-13,891.54	
01 22 23 00-1176 DAY 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver	932.42	
<i>For Equipment Without Operator, Deduct</i>	-641.15	
01 22 23 00-1177 WK 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver	4,148.54	
<i>For Equipment Without Operator, Deduct</i>	-3,205.74	
01 22 23 00-1178 MO 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver	15,884.44	
<i>For Equipment Without Operator, Deduct</i>	-13,891.54	
01 22 23 00-1179 Boom Trucks (01 22 23 00-1154)		
01 22 23 00-1180 DAY 3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver	1,082.39	
<i>For Equipment Without Operator, Deduct</i>	-641.15	
01 22 23 00-1181 WK 3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver	4,354.62	
<i>For Equipment Without Operator, Deduct</i>	-3,205.74	
01 22 23 00-1182 MO 3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver	16,805.36	
<i>For Equipment Without Operator, Deduct</i>	-13,891.54	
01 22 23 00-1183 Rear Dump Trucks (01 22 23 00-1154)		
01 22 23 00-1184 DAY 2.5 CY Rear Dump Truck With Full-Time Truck Driver	1,000.91	
<i>For Equipment Without Operator, Deduct</i>	-634.55	
01 22 23 00-1185 WK 2.5 CY Rear Dump Truck With Full-Time Truck Driver	4,140.40	
<i>For Equipment Without Operator, Deduct</i>	-3,172.73	
01 22 23 00-1186 MO 2.5 CY Rear Dump Truck With Full-Time Truck Driver	16,711.25	
<i>For Equipment Without Operator, Deduct</i>	-13,748.49	
01 22 23 00-1187 DAY 4 CY Rear Dump Truck With Full-Time Truck Driver	1,128.97	
<i>For Equipment Without Operator, Deduct</i>	-641.15	
01 22 23 00-1188 WK 4 CY Rear Dump Truck With Full-Time Truck Driver	4,549.73	
<i>For Equipment Without Operator, Deduct</i>	-3,205.74	
01 22 23 00-1189 MO 4 CY Rear Dump Truck With Full-Time Truck Driver	17,375.96	
<i>For Equipment Without Operator, Deduct</i>	-13,891.54	
01 22 23 00-1190 DAY 6 CY Rear Dump Truck With Full-Time Truck Driver	1,198.66	
<i>For Equipment Without Operator, Deduct</i>	-641.15	
01 22 23 00-1191 WK 6 CY Rear Dump Truck With Full-Time Truck Driver	4,699.06	
<i>For Equipment Without Operator, Deduct</i>	-3,205.74	
01 22 23 00-1192 MO 6 CY Rear Dump Truck With Full-Time Truck Driver	17,475.52	
<i>For Equipment Without Operator, Deduct</i>	-13,891.54	
01 22 23 00-1193 DAY 13 CY Rear Dump Truck With Full-Time Truck Driver	2,024.96	
<i>For Equipment Without Operator, Deduct</i>	-641.15	
01 22 23 00-1194 WK 13 CY Rear Dump Truck With Full-Time Truck Driver	6,401.46	
<i>For Equipment Without Operator, Deduct</i>	-3,205.74	
01 22 23 00-1195 MO 13 CY Rear Dump Truck With Full-Time Truck Driver	22,254.16	
<i>For Equipment Without Operator, Deduct</i>	-13,891.54	
01 22 23 00-1196 DAY 18 CY Rear Dump Truck With Full-Time Truck Driver	2,163.35	
<i>For Equipment Without Operator, Deduct</i>	-641.15	
01 22 23 00-1197 WK 18 CY Rear Dump Truck With Full-Time Truck Driver	6,721.03	
<i>For Equipment Without Operator, Deduct</i>	-3,205.74	
01 22 23 00-1198 MO 18 CY Rear Dump Truck With Full-Time Truck Driver	23,090.42	
<i>For Equipment Without Operator, Deduct</i>	-13,891.54	
01 22 23 00-1199 Under-Bridge Inspection Trucks (01 22 23 00-1154)		
01 22 23 00-1200 DAY 40' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	3,285.17	
<i>For Equipment Without Operator, Deduct</i>	-641.15	
01 22 23 00-1201 WK 40' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	14,996.64	
<i>For Equipment Without Operator, Deduct</i>	-3,205.74	
01 22 23 00-1202 MO 40' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	55,707.57	
<i>For Equipment Without Operator, Deduct</i>	-13,891.54	
01 22 23 00-1203 DAY 50' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	3,642.47	
<i>For Equipment Without Operator, Deduct</i>	-641.15	
01 22 23 00-1204 WK 50' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	15,711.24	
<i>For Equipment Without Operator, Deduct</i>	-3,205.74	
01 22 23 00-1205 MO 50' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	58,405.38	
<i>For Equipment Without Operator, Deduct</i>	-13,891.54	
01 22 23 00-1206 DAY 60' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	3,856.85	
<i>For Equipment Without Operator, Deduct</i>	-641.15	
01 22 23 00-1207 WK 60' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	16,783.14	
<i>For Equipment Without Operator, Deduct</i>	-3,205.74	
01 22 23 00-1208 MO 60' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	61,103.20	
<i>For Equipment Without Operator, Deduct</i>	-13,891.54	
01 22 23 00-1209 DAY 75' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	4,785.83	
<i>For Equipment Without Operator, Deduct</i>	-641.15	
01 22 23 00-1210 WK 75' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver	21,070.74	
<i>For Equipment Without Operator, Deduct</i>	-3,205.74	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1211 MO 75' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i>	74,592.24 -13,891.54	
01 22 23 00-1212 Vacuum Trucks (01 22 23 00-1154)		
01 22 23 00-1213 DAY 1,500 To 2,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,021.00 -641.15	
01 22 23 00-1214 WK 1,500 To 2,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,337.84 -3,205.74	
01 22 23 00-1215 MO 1,500 To 2,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	17,235.69 -13,891.54	
01 22 23 00-1216 DAY 5,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	2,015.01 -641.15	
01 22 23 00-1217 WK 5,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	7,343.25 -3,205.74	
01 22 23 00-1218 MO 5,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	26,100.97 -13,891.54	
01 22 23 00-1219 Water Trucks (01 22 23 00-1154)		
Note: Includes pump and 1-1/2" Diameter x 50' water hose. See CSI section 01 22 23 00-1043 for additional discharge hose, 01 22 23 00-1242 for water trailer, 31 23 23 23-0001 for compaction water as required for earth/aggregate backfill.		
01 22 23 00-1220 DAY 2,000 Gallon Water Truck With Full-Time Driver..... <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i>	1,311.47 -641.15 10.01	
01 22 23 00-1221 WK 2,000 Gallon Water Truck With Full-Time Driver..... <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i>	4,970.92 -3,205.74 10.01	
01 22 23 00-1222 MO 2,000 Gallon Water Truck With Full-Time Driver..... <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i>	18,062.42 -13,891.54 10.01	
01 22 23 00-1223 DAY 2,500 To 3,000 Gal Water Truck With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i>	1,430.64 -641.15 10.01	
01 22 23 00-1224 WK 2,500 To 3,000 Gal Water Truck With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i>	5,797.64 -3,205.74 10.01	
01 22 23 00-1225 MO 2,500 To 3,000 Gal Water Truck With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i>	20,348.96 -13,891.54 10.01	
01 22 23 00-1226 DAY 3,700 To 4,000 Gallon Water Truck With Full-Time Driver..... <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i>	1,639.18 -641.15 10.01	
01 22 23 00-1227 WK 3,700 To 4,000 Gallon Water Truck With Full-Time Driver..... <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i>	5,954.05 -3,205.74 10.01	
01 22 23 00-1228 MO 3,700 To 4,000 Gallon Water Truck With Full-Time Driver..... <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i>	20,594.74 -13,891.54 10.01	
01 22 23 00-1229 Asphalt Distribution Trucks (01 22 23 00-1154)		
01 22 23 00-1230 DAY 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i>	1,738.80 -641.15	
01 22 23 00-1231 WK 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i>	6,484.59 -3,205.74	
01 22 23 00-1232 MO 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i>	23,584.63 -13,891.54	
01 22 23 00-1233 Traffic Control Truck With Mounted Impact Attenuators/Crash Cushions And Arrow Board (01 22 23 00-1154)		
01 22 23 00-1234 DAY Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i>	1,308.81 -634.55	
01 22 23 00-1235 WK Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i>	5,162.65 -3,172.73	
01 22 23 00-1236 MO Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i>	18,580.92 -13,748.49	
01 22 23 00-1237 Vacuum Sweeper Trucks For Bridge Decks (01 22 23 00-1154)		
01 22 23 00-1238 DAY Vacuum Sweeper Truck, With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	2,015.01 -641.15	
01 22 23 00-1239 WK Vacuum Sweeper Truck, With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	7,343.25 -3,205.74	
01 22 23 00-1240 MO Vacuum Sweeper Truck, With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	26,100.97 -13,891.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 22 23 00-1241		Trailers <small>(01 22 23 00-1153)</small> Note: Includes delivery to job site and pick-up when complete.	
01 22 23 00-1242		Water Trailers With Pump <small>(01 22 23 00-1241)</small>	
01 22 23 00-1243	DAY	500 To 600 Gallon Water Trailer With Pump	171.30
01 22 23 00-1244	WK	500 To 600 Gallon Water Trailer With Pump	439.43
01 22 23 00-1245	MO	500 To 600 Gallon Water Trailer With Pump	1,176.78

01 22 23 00-1246		CALTRANS Equipment Rental Rates (These tasks will be requested specifically by the owner for miscellaneous work not covered in the Construction Task Catalog®) <small>(01 22 23)</small> Note: An appropriate labor surcharge will be established by the Division of Construction for work that is determined by the resident engineer to be covered by Longshoreman and Harbor Worker's Act.	
01 22 23 00-1247	EA	CALTRANS Equipment Rental Rates, Reimbursable..... Note: Reimbursable Fees will be paid to the contractor for eligible costs. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee. If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee. Per https://dot.ca.gov/-/media/dot-media/programs/construction/documents/equipment-rental-rates-and-labor-surcharge/book_2020.pdf	1.00

01 40 Quality Requirements (01)

01 45 Quality Control (01 40)

01 45 23 Testing and Inspecting Services (01 45)

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

01 45 23 00-0001		Soils/Aggregate Testing <small>(01 45 23)</small>	
01 45 23 00-0002		Field Soils Tests <small>(01 45 23 00-0001)</small>	
01 45 23 00-0003	EA	Plasticity Index Soils Test, ASTM D-4318, Field Soils Test	236.84
01 45 23 00-0004	EA	4" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test.....	336.16
01 45 23 00-0005	EA	6" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test.....	382.00
01 45 23 00-0006	EA	Resistance (R) Value Soils Test, CA 301, Field Soils Test	305.60
01 45 23 00-0007	EA	Soils Classification Test, ASTM D-2487, Field Soils Test.....	458.40
01 45 23 00-0008	SET	Cement Treated Base Laboratory Design, Soil Cement, Field Soils Test	916.50
01 45 23 00-0009	EA	Moisture Content, Field Soils Test	34.37
01 45 23 00-0010	EA	UBC Or Swell Test, Field Soils Test	120.40
01 45 23 00-0011	EA	Proctor Compaction 4" Standard Mold ASTM D698, Field Soils Test.....	229.12
01 45 23 00-0012	EA	Proctor Compaction 6" Standard Mold, Field Soils Test	286.41
01 45 23 00-0013	EA	Density And Classification Test, Field Soils Test	91.65
01 45 23 00-0014	EA	Percolation Test, Field Soils Test.....	229.12
01 45 23 00-0015	EA	Infiltration Test, Field Soils Test	458.25
01 45 23 00-0016		Aggregate Testing <small>(01 45 23 00-0001)</small>	
01 45 23 00-0017	EA	Coarse Aggregate Sieve Analysis Test, ASTM C-136, CA 202	76.40
01 45 23 00-0018	EA	Fine Aggregate Sieve Analysis Test, ASTM C-136, CA 202.....	137.52
01 45 23 00-0019	EA	Combined Aggregate Sieve Analysis Test, ASTM C-136, CA 202	191.00
01 45 23 00-0020	EA	Sieve Analysis, Pit Run, ASTM C136	148.93
01 45 23 00-0021	EA	Specific Special Gravity, Course, ASTM C127	121.36
01 45 23 00-0022	EA	Special Gravity, Fine, ASTM C127	108.83
01 45 23 00-0023	EA	Coarse Aggregate Bulk SSD Specific Gravity Test, ASTM C-128	161.81
01 45 23 00-0024	EA	Fine Aggregate Bulk SSD Specific Gravity Test, ASTM C-128.....	152.80
01 45 23 00-0025	EA	Aggregate Cleanness Value, ASTM C-128, CA 227	152.80
01 45 23 00-0026	EA	Sand Equivalent, Average of 3 Tests, ASTM D2419, CA 217.....	114.60
01 45 23 00-0027	EA	Fine Aggregate Durability Index, CA 229	122.24
01 45 23 00-0028	EA	Sodium And Magnesium Soundness, ASTM C88.....	320.78
01 45 23 00-0029	EA	Los Angeles Rattler, ASTM C-131, CA 211	244.48
01 45 23 00-0030	EA	Los Angeles Rattler, ASTM C-535.....	244.48
01 45 23 00-0031	EA	Unit Weight Of Aggregates, ASTM C29.....	68.76
01 45 23 00-0032	EA	Organic Impurities In Sand, ASTM C40	68.74
01 45 23 00-0033	EA	Crushed Particle, ASTM California Test Method.....	68.74
01 45 23 00-0034	EA	Clay Lump And Friable Particles, ASTM C142	137.48
01 45 23 00-0035		Permeability Tests <small>(01 45 23 00-0001)</small>	
01 45 23 00-0036		In-Place Tests <small>(01 45 23 00-0035)</small>	
01 45 23 00-0037	EA	Double Ring Infiltrometer Test, ASTM D3385	1,213.58
01 45 23 00-0038	EA	Unconfined Compressive Strength (Pocket Penetrometer) Test.....	57.28
01 45 23 00-0039		Lab Tests <small>(01 45 23 00-0035)</small>	
01 45 23 00-0040	EA	Falling Head Rigid Wall Consolidometer Technique CAE.....	566.34
01 45 23 00-0041	EA	Falling Head Permeability Test EPA-9100.....	566.34

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0042 EA Constant Head Permeability Test For Granular Soils, ASTM D2432	323.62	
01 45 23 00-0043 Concrete/Cement/Asphalt Testing (01 45 23)		
01 45 23 00-0044 Concrete Testing (01 45 23 00-0043)		
01 45 23 00-0045 EA Prepare 6 x 12 Concrete Cylinder And Deliver To Lab	21.30	
01 45 23 00-0046 EA 6 x 12 Cylinder Concrete Compression Test, ASTM C-39 Or ASTM D1633.....	48.54	
01 45 23 00-0047 EA Concrete Cores Compression Test, ASTM C-42	99.32	
01 45 23 00-0048 EA 6 x 6 x 18 Concrete Flexural Test, ASTM C-78.....	145.16	
01 45 23 00-0049 EA Unit Weight Of Concrete Cylinder, ASTM C-567.....	53.48	
01 45 23 00-0050 EA Concrete Mix Design Review	290.32	
01 45 23 00-0051 EA Trial Concrete Batch Prepared In Laboratory	687.60	
01 45 23 00-0052 EA Concrete Shrinkage, ASTM C-157 Modified	534.80	
01 45 23 00-0053 EA 6 x 12 Concrete Cylinder Splitting Tensile Test, ASTM C-496	82.51	
01 45 23 00-0054 EA Concrete Slump Test, ASTM C143	38.20	
01 45 23 00-0055 EA Concrete Air Content Test, ASTM C138, ASTM C173, Or ASTM C231	38.20	
01 45 23 00-0056 Cement Testing (01 45 23 00-0043)		
01 45 23 00-0057 EA Cement Grab Sample (CCR Title 24).....	38.20	
Note: Includes sealing and storing 1 year.		
01 45 23 00-0058 EA 2" x 2" x 2" Cube Compression Test, All Type Materials.....	61.12	
01 45 23 00-0059 Asphaltic Concrete Testing (01 45 23 00-0043)		
01 45 23 00-0060 EA Hveem Asphaltic Concrete Stability Test, CA 366	76.40	
01 45 23 00-0061 EA Marshall Asphaltic Concrete Stability Test (3 Specimens), ASTM D-6926/6927	198.64	
01 45 23 00-0062 EA Stability Tests, Premixed, ASTM D1559	76.40	
01 45 23 00-0063 EA Stability Tests, Lab. Mixed, ASTM D1559	198.64	
01 45 23 00-0064 EA Swell Test, CA 305.....	91.68	
Note: Includes compaction.		
01 45 23 00-0065 EA % Asphalt Extraction Test, ASTM D-2172 B	229.20	
01 45 23 00-0066 EA Gradation On Extracted Sample, ASTM D-5444.....	152.80	
01 45 23 00-0067 EA Maximum Theoretical Unit Weight, ASTM C2041	145.63	
01 45 23 00-0068 EA Unit Weight Sample Requiring Compaction, California Test Method 308	30.56	
01 45 23 00-0069 EA Asphalt Unit Weight On Core Test, CA 308C.....	30.56	
01 45 23 00-0070 HR Nuclear Field Density Testing, 4 Hour Minimum	157.38	
01 45 23 00-0071 EA Asphalt Film Stripping Test, CTM 302/AASHTO T182/ASTM D1664	103.11	
01 45 23 00-0072 EA Penetration, ASTM D5	110.37	
01 45 23 00-0073 Masonry/Concrete Block/Tile Testing (01 45 23)		
01 45 23 00-0074 Masonry Testing (01 45 23 00-0073)		
01 45 23 00-0075 EA 2" x 4" Cylinder Mortar Compression Test	50.42	
01 45 23 00-0076 EA 4" x 4" x 8" Grout Prisms Compression Test.....	50.42	
01 45 23 00-0077 EA Masonry Cores Compression Test.....	99.32	
01 45 23 00-0078 EA Composite Grouted Prism Compression Test.....	191.00	
01 45 23 00-0079 Concrete Block Testing (ASTM C140 Or CMA Per Specimen) (01 45 23 00-0073)		
01 45 23 00-0080 EA Up To 8" x 8" x 16" Concrete Block Compression Test, ASTM C-140	122.24	
01 45 23 00-0081 EA Absorption Test, Moisture Content And Unit Weight.....	84.04	
01 45 23 00-0082 EA First Unit, Moisture Condition By Relative Humidity, ASTM C427.....	320.78	
01 45 23 00-0083 EA Moisture Condition By Relative Humidity, ASTM C427, Additional Unit.....	160.39	
01 45 23 00-0084 Metals Testing (01 45 23)		
01 45 23 00-0085 Tank Tightness Testing (01 45 23 00-0084)		
01 45 23 00-0086 GAL Up To 20 Gallon, Hydrostatic Pressure Testing Of Air Receiving Tanks.....	7.40	
01 45 23 00-0087 GAL >20 To 120 Gallon, Hydrostatic Pressure Testing Of Air Receiving Tanks	6.34	
01 45 23 00-0088 EA Up To 12,000 Gallons, Tank Volumetric Tightness Testing	1,902.55	
01 45 23 00-0089 EA >12,000 To 29,999 Gallons, Tank Volumetric Tightness Testing	2,324.58	
01 45 23 00-0090 EA >29,999 Gallons, Tank Volumetric Tightness Testing.....	2,960.46	
01 45 23 00-0091 Tank Line Tightness Testing (01 45 23 00-0084)		
01 45 23 00-0092 EA Up To 12,000 Gallons, Tank Line Volumetric Tightness Testing	401.45	
01 45 23 00-0093 EA >12,000 To 29,999 Gallons, Tank Line Volumetric Tightness Testing	445.77	
01 45 23 00-0094 EA >29,999 Gallons, Tank Line Volumetric Tightness Testing	489.93	
01 45 23 00-0095 Other Testing (01 45 23)		
01 45 23 00-0096 Special Testing (01 45 23 00-0095)		
01 45 23 00-0097 EA Asphalt Roofing Cut-out Samples, To Determine Unit Weight	118.44	
01 45 23 00-0098 EA Complete Built-Up Roof Analysis, ASTM D2829 Or ASTM D3617	710.63	
01 45 23 00-0099 EA Bacteria Test (Total Coliform Bacteria And E. Coli Bacteria)	35.73	
01 45 23 00-0100 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Caulk, Analysis Per Sample	148.11	



General Requirements	01	10
Quality Requirements	01 40	
Quality Control	01 45	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0101 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Soil, Analysis Per Sample	148.11	
01 45 23 00-0102 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) Using Wipe Sampling, Analysis Per Sample	148.11	
01 45 23 00-0103 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Air, Analysis Per Sample	814.60	
01 45 23 00-0104 EA Testing And Certification Of Backflow Valves	474.24	
01 45 23 00-0105 Nondestructive Field Testing Services (01 45 23 00-0095)		
01 45 23 00-0106 Infrared Thermography (01 45 23 00-0105) Note: The following tasks use certified infrared (IR) thermographers, such as Stockton Infrared Thermographic Services, Inc. and United Infrared, Inc., to scan for specific problems and produce a report on the findings. The contractor is entitled to the mobilization charge and the appropriate square foot or hourly task.		
01 45 23 00-0107 Concrete Block Wall Investigation Using Infrared Thermography (01 45 23 00-0106) Note: For investigating issues with grouted cells, bond beams and other structural components in concrete block walls.		
01 45 23 00-0108 EA Concrete Block Wall Investigation Using Infrared Thermography, Mobilization Charge	1,407.04	
01 45 23 00-0109 CSF Up To 50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography	4.44	
For Digital Or Analog Recording Of All Items, Add	0.67	
01 45 23 00-0110 CSF >50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography	2.96	
For Digital Or Analog Recording Of All Items, Add	0.44	
01 45 23 00-0111 Other Nondestructive Field Testing Services (01 45 23 00-0105)		
01 45 23 00-0112 HR ASNT Certified Level I NDT Consultant	86.28	
01 45 23 00-0113 HR ASNT Certified Level II NDT Consultant	107.60	
01 45 23 00-0114 HR ASNT Certified Level III NDT Consultant	123.48	
01 45 23 00-0115 HR Certified Industrial Radiography Radiation Safety Personnel	76.45	
01 45 29 Testing Laboratory Services (01 45)		
01 45 29 00-0001 Soil Borings Laboratory Tests (01 45 29) See CSI section 02 32 13 00-0000 for soil borings.		
01 45 29 00-0002 EA Atterberg Limits - Liquid Limits (LL) And Plastic Limits (PL), T89, T90, ASTM D4318, Soil Borings Laboratory Test	105.18	
01 45 29 00-0003 EA Shrinkage Limit, Soil Borings Laboratory Test	33.56	
01 45 29 00-0004 EA Unconfined Compressive Strength of Cohesive Soils, Soil Borings Laboratory Test	80.90	
01 45 29 00-0005 EA Consolidation, Soil Borings Laboratory Test	566.34	
01 45 29 00-0006 EA Swell Test, Soil Borings Laboratory Test	111.87	
01 45 29 00-0007 EA In Place Density, Soil Borings Laboratory Test	24.27	
01 45 29 00-0008 EA Moisture Content, ASTM D2216, Soil Borings Laboratory Test	15.08	
01 45 29 00-0009 EA Hydrometer Analysis, Soil Borings Laboratory Test	194.67	
01 45 29 00-0010 EA Specific Gravity, ASTM D854, Soil Borings Laboratory Test	67.89	
01 45 29 00-0011 EA Partial Sieve Analysis, Soil Borings Laboratory Test	13.43	
01 45 29 00-0012 EA Laboratory Permeability, Soil Borings Laboratory Test	671.29	
01 45 29 00-0013 EA Sieve Analysis, ASTM D422, Soil Borings Laboratory Test	135.78	
01 45 29 00-0014 EA Sulfate Soundness, Soil Borings Laboratory Test	167.82	
01 45 29 00-0015 EA Los Angeles Abrasion, Soil Borings Laboratory Test	391.31	
01 45 29 00-0016 EA Soil Bearing Ratio, ASTM D1883	343.80	
01 45 29 00-0017 EA Compaction Test Subgrade, Soil Borings Laboratory Test	100.69	
01 45 29 00-0018 EA Compaction Test Base Course, Soil Borings Laboratory Test	85.19	
01 45 29 00-0019 EA In Place Density And Water Content Test By Nuclear Methods, ASTM D6938, Soil Borings Laboratory Test	331.11	
01 45 29 00-0020 EA Field Density Sand Cone, AASHTO T-191, ASTM D1556, Soil Borings Laboratory Test	51.47	
01 50 Temporary Facilities and Controls (01)		
Note: Tasks in this section shall be used as directed by owner.		
01 51 Temporary Utilities (01 50)		
01 51 13 Temporary Electricity (01 51)		
01 51 13 00-0001 Temporary Service Switch And/Or Building Feeder Switch (01 51 13) Note: Includes all connections and removal after use.		
01 51 13 00-0002 EA Temporary 30 Amperes, 240 Volt, NEMA 3R, Service Switch Or Building Feeder Switch With Fuses	780.93	
01 51 13 00-0003 EA Temporary 60 Amperes, 240 Volt, NEMA 3R, Service Switch Or Building Feeder Switch With Fuses	982.78	
01 51 13 00-0004 EA Temporary 100 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses	1,342.37	
01 51 13 00-0005 EA Temporary 200 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses	2,075.35	
01 51 13 00-0006 EA Temporary 400 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses	3,832.61	
01 51 13 00-0007 EA Temporary 600 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses	6,378.09	
01 51 13 00-0008 EA Temporary 800 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses	8,838.54	
01 51 13 00-0009 EA Temporary 1,200 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses	14,267.20	
01 51 13 00-0010 EA Temporary 2,000 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses	19,844.43	
01 51 13 00-0011 Temporary 120/208 Volt Main Lug Panelboard Complete With Branch Fuses (01 51 13) Note: Includes mounting on wall and removal after use.		
01 51 13 00-0012 EA Temporary 100 Amperes, Panelboard Complete With GFCI Circuit Breakers	1,422.72	
01 51 13 00-0013 EA Temporary 200 Amperes, Panelboard Complete With GFCI Circuit Breakers	1,958.23	
01 51 13 00-0014 EA Temporary 400 Amperes, Panelboard Complete With GFCI Circuit Breakers	3,071.56	
01 51 13 00-0015 EA Temporary 600 Amperes, Panelboard Complete With GFCI Circuit Breakers	4,322.89	

01	01	General Requirements
	01 50	Temporary Facilities and Controls
	01 51	Temporary Utilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 51 13 00-0016		Temporary Conduit And Cable For Temporary Disconnect Switches And Temporary Panelboards ^(01 51 13)		
		Note: Includes all connections, fittings, supports and removal after use.		
01 51 13 00-0017	LF	Temporary SER Cable (Conduit As Required) For Temporary Disconnect Switches And Temporary Panelboards.....	8.16	
01 51 13 00-0018	LF	Temporary Branch Circuit Conduit And Wiring For Temporary Disconnect Switches And Temporary Panelboards	8.94	

01 51 26 Temporary Lighting ^(01 51)

01 51 26 00-0001		Temporary Devices ^(01 51 26)		
		Note: Includes removal after use.		
01 51 26 00-0002	EA	Temporary Exit Light	236.43	
01 51 26 00-0003	EA	Temporary 10 Light String With Cages	86.92	
01 51 26 00-0004	EA	Temporary High Bay Light	328.94	

01 52 Construction Facilities ^(01 50)

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

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

01 52 13 00-0001		Field Offices ^(01 52 13)		
		Note: Excludes furniture, utility connections and service. Minimum 6 months rental.		
01 52 13 00-0002	MO	8' x 24' Mobile Office, With Toilet	166.62	
		For Each Delivery And Removal, Two Round Trips, Add	683.95	
		For Each Set-Up (Block And Level), Add	388.51	
		For Each Anchoring Into Dirt, Add	118.47	
		For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
		For Office Trailer Without Toilet, Deduct	-33.32	
01 52 13 00-0003	MO	8' x 32' Mobile Office, With Toilet	188.83	
		For Each Delivery And Removal, Two Round Trips, Add	683.95	
		For Each Set-Up (Block And Level), Add	388.51	
		For Each Anchoring Into Dirt, Add	118.47	
		For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
		For Office Trailer Without Toilet, Deduct	-37.77	
01 52 13 00-0004	MO	10' x 36' Mobile Office, With Toilet	255.48	
		For Each Delivery And Removal, Two Round Trips, Add	968.94	
		For Each Set-Up (Block And Level), Add	633.89	
		For Each Anchoring Into Dirt, Add	118.47	
		For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
		For Office Trailer Without Toilet, Deduct	-51.10	
01 52 13 00-0005	MO	10' x 40' Mobile Office, With Toilet	272.15	
		For Each Delivery And Removal, Two Round Trips, Add	968.94	
		For Each Set-Up (Block And Level), Add	633.89	
		For Each Anchoring Into Dirt, Add	118.47	
		For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
		For Office Trailer Without Toilet, Deduct	-54.43	
01 52 13 00-0006	MO	10' x 44' Mobile Office, With Toilet	299.92	
		For Each Delivery And Removal, Two Round Trips, Add	968.94	
		For Each Set-Up (Block And Level), Add	633.89	
		For Each Anchoring Into Dirt, Add	118.47	
		For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
01 52 13 00-0007	MO	10' x 50' Mobile Office, With Toilet	316.58	
		For Each Delivery And Removal, Two Round Trips, Add	968.94	
		For Each Set-Up (Block And Level), Add	633.89	
		For Each Anchoring Into Dirt, Add	118.47	
		For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
01 52 13 00-0008	MO	12' x 32' Mobile Office, With Toilet	244.93	
		For Each Anchoring Into Dirt, Add	118.47	
		For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
		For Each Delivery And Set-Up (Block And Level), Add	934.37	
		For Each Knock-Down And Pick-Up, Add	739.37	
01 52 13 00-0009	MO	12' x 44' Mobile Office, With Toilet	327.47	
		For Each Delivery And Removal, Two Round Trips, Add	968.94	
		For Each Set-Up (Block And Level), Add	633.89	
		For Each Anchoring Into Dirt, Add	118.47	
		For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
01 52 13 00-0010	MO	12' x 50' Mobile Office, With Toilet	372.12	
		For Each Delivery And Removal, Two Round Trips, Add	968.94	
		For Each Set-Up (Block And Level), Add	633.89	
		For Each Anchoring Into Dirt, Add	118.47	
		For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
01 52 13 00-0011	MO	12' x 60' Mobile Office, With Toilet	405.44	
		For Each Delivery And Removal, Two Round Trips, Add	968.94	
		For Each Set-Up (Block And Level), Add	633.89	
		For Each Anchoring Into Dirt, Add	118.47	
		For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
01 52 13 00-0012	MO	24' x 60' Modular Office, With Toilet	888.63	
		For Each Delivery And Removal, Two Round Trips, Add	1,823.88	
		For Each Set-Up (Block And Level), Add	1,022.40	
		For Each Anchoring Into Dirt, Add	118.47	
		For Each Anchoring Into Asphalt Or Concrete, Add	177.71	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 52 13 00-0013 MO 24' x 72' Modular Office, With Toilet.....	1,066.36	
For Each Delivery And Removal, Two Round Trips, Add	1,823.88	
For Each Set-Up (Block And Level), Add	1,022.40	
For Each Anchoring Into Dirt, Add	118.47	
For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
01 52 13 00-0014 MO 30' x 30' Modular Office, With Toilet.....	506.80	
For Each Delivery And Removal, Two Round Trips, Add	1,823.88	
For Each Set-Up (Block And Level), Add	1,022.40	
For Each Anchoring Into Dirt, Add	118.47	
For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
01 52 13 00-0015 Accessories For Field Office Trailers (01 52 13)		
Note: Costs includes installation or placement in trailer.		
01 52 13 00-0016 MO Desk For Field Office Trailer	39.42	
01 52 13 00-0017 MO Rolling Desk Chair For Field Office Trailer	24.64	
01 52 13 00-0018 MO File Cabinet For Field Office Trailer	29.56	
01 52 13 00-0019 MO Table For Field Office Trailer	19.71	
01 52 13 00-0020 MO Folding Chair For Field Office Trailer	9.34	
01 52 13 00-0021 EA Phone Hook-Up For Field Office Trailer	108.40	
01 52 13 00-0022 MO Local Phone Service Per Phone Line For Field Office Trailer	68.98	
01 52 13 00-0023 MO Security System With Monitoring For Field Office Trailer	124.20	
01 52 13 00-0024 LF Perimeter Trailer Skirting For Field Office Trailer	14.22	
01 52 13 00-0025 LF Insulated Perimeter Trailer Skirting For Field Office Trailer	33.68	
01 52 13 00-0026 MO Steps For Field Office Trailer	41.47	
01 52 13 00-0027 MO Fax Machine For Field Office Trailer	49.27	
01 52 13 00-0028 MO Copier For Field Office Trailer	78.83	
01 52 13 00-0029 Storage Containers (01 52 13)		
01 52 13 00-0030 MO 8' x 8' x 10' Storage Container	192.50	
For Each Delivery And Removal, Two Round Trips, Add	225.69	
For >12 Months, Deduct	-57.75	
01 52 13 00-0031 MO 8' x 8' x 20' Storage Container	201.25	
For Each Delivery And Removal, Two Round Trips, Add	248.26	
For >12 Months, Deduct	-60.38	
01 52 13 00-0032 MO 8' x 8' x 40' Storage Container	238.00	
For Each Delivery And Removal, Two Round Trips, Add	500.00	
For >12 Months, Deduct	-71.40	
01 52 19 Sanitary Facilities (01 52)		
01 52 19 00-0001 Portable Toilets (01 52 19)		
Note: Includes set-up, servicing once per week and removal.		
01 52 19 00-0002 WK Portable Chemical Toilet.....	28.33	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery, Add	55.00	
01 52 19 00-0003 MO Portable Chemical Toilet.....	84.99	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery, Add	55.00	
01 52 19 00-0004 WK Americans With Disabilities Act Compliant Portable Chemical Toilet.....	33.79	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery, Add	55.00	
01 52 19 00-0005 MO Americans With Disabilities Act Compliant Portable Chemical Toilet.....	99.16	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery, Add	55.00	
01 52 19 00-0006 WK Two Station Portable Handwash.....	37.77	
For Each Delivery, Add	55.00	
01 52 19 00-0007 MO Two Station Portable Handwash.....	114.56	
For Each Delivery, Add	55.00	
01 52 19 00-0008 MO 6 Station, Portable Toilets, Multi Trailer	3,148.34	
Note: Includes women's room (3 toilets, 2 sinks) and men's room (1 toilet, 1 urinal and 1 sink)		
01 52 19 00-0009 WK Service 6 Station Trailer Restrooms, 3 Times Per Week	1,816.35	
01 53 Temporary Construction (01 50)		
01 53 16 Temporary Decking (01 53)		
01 53 16 00-0001 Temporary Walkways And Railings (01 53 16)		
Note: Includes removal after use.		
01 53 16 00-0002 SF Temporary Wood Walkway, 3/4" Plywood On 2 x 6 Stringers	6.00	
01 53 16 00-0003 LF Temporary Wooden Guardrail, 42" High, Posts, Handrail, And Intermediate Rail.....	32.72	
01 53 16 00-0004 LF Temporary Wood Guardrail Base, 12" x 12" Timber Beam	10.83	
01 53 16 00-0005 RSR Temporary Wood Stairs, Tread And Riser On 2" x 12" Stringers.....	20.91	
01 53 23 Temporary Ramps (01 53)		
01 53 23 00-0001 Temporary Plywood For Wheel Barrow Access (01 53 23)		
Note: Includes removal after use.		
01 53 23 00-0002 SF Temporary Plywood For Wheel Barrow Access.....	1.73	0.45

01	01	General Requirements
	01 50	Temporary Facilities and Controls
	01 53	Temporary Construction



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

01 54 09 Personnel Protection Equipment (01 54)

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

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

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

01 54 23 Temporary Scaffolding and Platforms (01 54)

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

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

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

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

01 54 23 00-0003 CCF Scaffolding With Bracing Accessories - Area Based On 5' Wide Sections (CCF / Month)27.82
For Up To 25, Add 11.13
For >25 To 50, Add 6.96
For >50 To 150, Add 2.78

01 54 23 00-0004 CCF Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month)31.29
For Up To 25, Add 12.52
For >25 To 50, Add 7.82
For >50 To 150, Add 3.13

01 54 23 00-0005 CCF Scaffolding With Bracing Accessories - Area Based On 3' Wide Sections (CCF / Month)41.74
For Up To 25, Add 16.70
For >25 To 50, Add 10.44
For >50 To 150, Add 4.17

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

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

01 54 23 00-0007 CCF Up To 20' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....47.38
01 54 23 00-0008 CCF >20' To 40' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories59.22
01 54 23 00-0009 CCF >40' To 60' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories71.06
01 54 23 00-0010 CCF >60' To 80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories78.17
01 54 23 00-0011 CCF >80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories90.01
01 54 23 00-0012 CCF Up To 20' Height Scaffolding Initial Erection And Final Dismantling Set Up On Stairs, Per CCF Of Scaffolding And Accessories.....56.85

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

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

01 54 23 00-0014 CCF Heavy Duty Masonry Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month).....47.14
01 54 23 00-0015 CCF Heavy Duty Masonry Scaffolding With Bracing Accessories - Area Based On 2' Wide Sections (CCF / Month).....86.42
01 54 23 00-0016 LF Aluminum Joists (LF / Month).....7.66
01 54 23 00-0017 LF Aluminum Stringers (LF / Month)10.99
01 54 23 00-0018 EA Screw Jack With U-Plate For Stringers (EA / Month).....13.85

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

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

01 54 23 00-0020 CCF Up To 20' Height Heavy Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....75.79
01 54 23 00-0021 CCF >20' To 40' Height Heavy Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.94.74
01 54 23 00-0022 CCF >40' To 60' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....113.69
01 54 23 00-0023 CCF >60' To 80' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....123.17
01 54 23 00-0024 CCF >80' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....137.38

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

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

01 54 23 00-0026 CSF Netting for Exterior Building Scaffolding.....31.41
Note: Includes removal after use.



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

01 54 23 00-0028	DAY	>14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	10.30	
01 54 23 00-0029	WK	>14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	41.27	
01 54 23 00-0030	MO	>14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	165.05	
01 54 23 00-0031	DAY	>20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	17.24	
01 54 23 00-0032	WK	>20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	69.05	
01 54 23 00-0033	MO	>20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	276.22	
01 54 23 00-0034	EA	>14' To 20', Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold	94.18	
01 54 23 00-0035	EA	>20' To 40', Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold	117.72	

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

01 54 23 00-0037	DAY	6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post	5.53	
01 54 23 00-0038	WK	6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post	16.60	
01 54 23 00-0039	MO	6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post	27.67	

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

01 54 23 00-0041	SF	5/16" CD Grade Plywood, Temporary Lumber	2.29	0.63
01 54 23 00-0042	SF	1/2" CD Grade Plywood, Temporary Lumber	3.18	0.63
01 54 23 00-0043	SF	5/8" CD Grade Plywood, Temporary Lumber	3.35	0.63
01 54 23 00-0044	SF	3/4" CD Grade Plywood, Temporary Lumber	3.97	0.63
01 54 23 00-0045	SF	1" CD Grade Plywood, Temporary Lumber	6.45	0.95
01 54 23 00-0046	LF	2" x 4" Temporary Lumber	1.22	1.32
01 54 23 00-0047	LF	2" x 6" Temporary Lumber	1.82	1.32
01 54 23 00-0048	LF	2" x 8" Temporary Lumber	2.44	1.32
01 54 23 00-0049	LF	2" x 10" Temporary Lumber	3.05	1.32
01 54 23 00-0050	LF	2" x 12" Temporary Lumber	3.66	1.32
01 54 23 00-0051	LF	3" x 8" Temporary Lumber	3.66	1.32
01 54 23 00-0052	LF	3" x 10" Temporary Lumber	4.58	1.32
01 54 23 00-0053	LF	3" x 12" Temporary Lumber	5.48	1.32
01 54 23 00-0054	LF	4" x 4" Temporary Lumber	2.59	0.66
01 54 23 00-0055	LF	4" x 6" Temporary Lumber	3.71	0.82
01 54 23 00-0056	LF	6" x 6" Temporary Lumber	4.82	0.99
01 54 23 00-0057	LF	6" x 8" Temporary Lumber	6.27	1.23
01 54 23 00-0058	LF	12" x 12" Temporary Lumber	15.38	1.97

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

01 54 23 00-0060	EA	2' x 2' x 2' Temporary Precast Concrete Block	95.21	
01 54 23 00-0061	EA	2' x 2' x 4' Temporary Precast Concrete Block	119.02	
01 54 23 00-0062	EA	2' x 2' x 8' Temporary Precast Concrete Block	142.82	

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

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

01 54 26 00-0002	MO	7' Swing Stage, Electric Operated	2,072.00	
01 54 26 00-0003	MO	10' Swing Stage, Electric Operated	2,175.60	
01 54 26 00-0004	MO	14' Swing Stage, Electric Operated	2,279.20	
01 54 26 00-0005	MO	20' Swing Stage, Electric Operated	2,382.80	
01 54 26 00-0006	MO	24' Swing Stage, Electric Operated	2,486.40	
01 54 26 00-0007	MO	30' Swing Stage, Electric Operated	2,590.00	
01 54 26 00-0008	MO	42' Swing Stage, Electric Operated	2,693.61	
01 54 26 00-0009	MO	12' Swing Stage, Manually Operated	597.48	
01 54 26 00-0010	MO	24' Swing Stage, Manually Operated	746.86	
01 54 26 00-0011	EA	Swing Stage Platform From Hooks, Erection And Dismantling	4,015.49	
Note: Includes both initial erection and final dismantling of platform. Excludes anchors or temporary roof mounted outrigger system.				
01 54 26 00-0012	EA	Swing Stage Platform And Temporary Roof Mounted Outrigger System Erection And Dismantling	5,580.21	
Note: Includes both initial erection and final dismantling of temporary roof mounted outrigger system.				
01 54 26 00-0013	EA	Move Swing Stage Platform From Hooks To Different Location At Same Roof	2,111.43	
01 54 26 00-0014	EA	Move Swing Stage Platform and Temporary Roof Mounted Outrigger System To Different Location At Same Roof	2,940.93	

01 55 Vehicular Access and Parking (01 55)

01 55 23 Temporary Roads (01 55)

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

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 23 00-0002 SF 3" To 4" Rock Temporary Stabilized Construction Entrance Assembly.....	3.65	
Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.		
01 55 23 00-0003 SF >4" To 6" Rock Temporary Stabilized Construction Entrance Assembly.....	4.57	
Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.		
01 55 23 00-0004 Rumble Trench Plate (01 55 23)		
01 55 23 00-0005 MO 8' x 10' Steel Rumble Trench Plate Rental.....	276.74	
01 55 23 00-0006 EA Placement And Removal Of Rumble Plate.....	83.03	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
01 55 23 00-0007 EA Relocate And Adjust Location Of Rumble Plate.....	20.75	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
01 55 23 00-0008 Temporary Road Ramps (Godwin) (01 55 23)		
Note: Excludes asphalt and gravel.		
01 55 23 00-0009 EA 4" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	3,467.30	185.64
01 55 23 00-0010 EA 6" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	4,729.82	278.45
01 55 23 00-0011 EA 8" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	6,530.77	371.27
01 55 23 00-0012 EA 12" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	13,446.91	464.09
01 55 23 00-0013 EA 24" Pipeline, 15' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	19,690.00	556.91
01 55 26 Traffic Control (01 55)		
01 55 26 00-0001 Removable Preformed Traffic Black Line Mask (01 55 26)		
Note: Includes installation and removal after use.		
01 55 26 00-0002 LF 6" Removable Traffic Black Line Mask.....	5.26	
01 55 26 00-0003 LF 8" Removable Traffic Black Line Mask.....	6.50	
01 55 26 00-0004 Temporary Preformed Traffic Line Tape (01 55 26)		
Note: Includes installation and removal after use.		
01 55 26 00-0005 LF 4" Reflective Removable Traffic Line Tape.....	3.93	
01 55 26 00-0006 LF 6" Reflective Removable Traffic Line Tape.....	5.29	
01 55 26 00-0007 LF 8" Reflective Removable Traffic Line Tape.....	6.57	
01 55 26 00-0008 Temporary Painted Traffic Lines (01 55 26)		
Note: Includes installation and removal after use.		
01 55 26 00-0009 LF 4" Temporary Painted Traffic Lines.....	2.05	
For Not Removed, Deduct	-2.72	
01 55 26 00-0010 LF 6" Temporary Painted Traffic Lines.....	2.70	
For Not Removed, Deduct	-3.69	
01 55 26 00-0011 LF 8" Temporary Painted Traffic Lines.....	3.39	
For Not Removed, Deduct	-4.66	
01 55 26 00-0012 EA 2" High x 2" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	2.75	
01 55 26 00-0013 EA 2" High x 4" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	2.77	
01 55 26 00-0014 Pedestrian Traffic Control (01 55 26)		
01 55 26 00-0015 CLF 1", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange.....	12.43	
01 55 26 00-0016 CLF 2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange.....	17.07	
01 55 26 00-0017 CLF 3/4", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow.....	8.57	
01 55 26 00-0018 CLF 2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow.....	10.90	
01 55 26 00-0019 CLF 3", 4 Mil Polyethylene Printed Barricade Tape, Non Fluorescent.....	12.41	
01 55 26 00-0020 CLF 6", 4 Mil Polyethylene Printed Barricade Tape, Non Fluorescent.....	18.37	
01 55 26 00-0021 CLF 1" Exterior Vinyl Tape (Warning Tape).....	15.74	
01 55 26 00-0022 CLF 2" Exterior Vinyl Tape (Warning Tape).....	23.35	
01 55 26 00-0023 CLF 3" Exterior Vinyl Tape (Warning Tape).....	30.88	
01 55 26 00-0024 CLF 4" Exterior Vinyl Tape (Warning Tape).....	36.22	
01 55 26 00-0025 Linear Delineation System, Temporary Or Permanent (01 55 26)		
Note: High visibility reflective sheeting strips. Scotchlite as manufactured by 3M.		
01 55 26 00-0026 LF 4" Linear Delineation System.....	8.11	
01 55 26 00-0027 LF 6" Linear Delineation System.....	10.87	
01 55 26 00-0028 Traffic Protection (01 55 26)		
01 55 26 00-0029 Portable Traffic Control Device Usage (01 55 26 00-0028)		
Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0105 for delivery, placing and removal.		
01 55 26 00-0030 DAY 28" Cone With Reflective Collar.....	0.59	
01 55 26 00-0031 WK 28" Cone With Reflective Collar.....	1.78	
01 55 26 00-0032 MO 28" Cone With Reflective Collar.....	5.35	
01 55 26 00-0033 DAY Vertical Panel.....	1.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0034 WK Vertical Panel.....	5.38	
01 55 26 00-0035 MO Vertical Panel.....	16.15	
01 55 26 00-0036 DAY Channelizer Drum.....	1.95	
01 55 26 00-0037 WK Channelizer Drum.....	5.85	
01 55 26 00-0038 MO Channelizer Drum.....	17.54	
01 55 26 00-0039 DAY Stackable Channelizer Panel.....	0.92	
01 55 26 00-0040 WK Stackable Channelizer Panel.....	2.76	
01 55 26 00-0041 MO Stackable Channelizer Panel.....	8.29	
01 55 26 00-0042 DAY Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	1.28	
01 55 26 00-0043 WK Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	3.83	
01 55 26 00-0044 MO Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	11.48	
01 55 26 00-0045 DAY Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	2.83	
01 55 26 00-0046 WK Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	8.48	
01 55 26 00-0047 MO Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	25.45	
01 55 26 00-0048 DAY Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	3.22	
01 55 26 00-0049 WK Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	9.67	
01 55 26 00-0050 MO Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	29.01	
01 55 26 00-0051 DAY Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	5.90	
01 55 26 00-0052 WK Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	17.69	
01 55 26 00-0053 MO Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	53.06	
01 55 26 00-0054 DAY Up To 10' Wide A Frame Barricade.....	3.23	
01 55 26 00-0055 WK Up To 10' Wide A Frame Barricade.....	9.70	
01 55 26 00-0056 MO Up To 10' Wide A Frame Barricade.....	29.10	
01 55 26 00-0057 DAY Type A Or C Flasher.....	0.66	
01 55 26 00-0058 WK Type A Or C Flasher.....	1.98	
01 55 26 00-0059 MO Type A Or C Flasher.....	5.93	
01 55 26 00-0060 DAY Type B Flasher (High Intensity).....	3.57	
01 55 26 00-0061 WK Type B Flasher (High Intensity).....	10.72	
01 55 26 00-0062 MO Type B Flasher (High Intensity).....	32.17	

01 55 26 00-0063

Traffic Barriers Usage (01 55 26 00-0028)

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

01 55 26 00-0064 DAY 6' Long Portable Parking Curbs.....	1.54	
01 55 26 00-0065 WK 6' Long Portable Parking Curbs.....	4.62	
01 55 26 00-0066 MO 6' Long Portable Parking Curbs.....	13.86	
01 55 26 00-0067 DAY 6' Long Portable Speed Bumps.....	4.56	
01 55 26 00-0068 WK 6' Long Portable Speed Bumps.....	13.67	
01 55 26 00-0069 MO 6' Long Portable Speed Bumps.....	41.01	
01 55 26 00-0070 DAY Up To 12.5' Concrete Traffic Barrier.....	10.95	
01 55 26 00-0071 WK Up To 12.5' Concrete Traffic Barrier.....	32.84	
01 55 26 00-0072 MO Up To 12.5' Concrete Traffic Barrier.....	98.52	
01 55 26 00-0073 DAY >12.5' To 20' Concrete Traffic Barrier.....	21.89	
01 55 26 00-0074 WK >12.5' To 20' Concrete Traffic Barrier.....	65.68	
01 55 26 00-0075 MO >12.5' To 20' Concrete Traffic Barrier.....	197.05	
01 55 26 00-0076 DAY 6' x 32" Tall Plastic Water Barrier.....	13.07	
01 55 26 00-0077 WK 6' x 32" Tall Plastic Water Barrier.....	39.22	
01 55 26 00-0078 MO 6' x 32" Tall Plastic Water Barrier.....	117.66	
01 55 26 00-0079 DAY 6' x 46" Tall Plastic Water Barrier.....	18.67	
01 55 26 00-0080 WK 6' x 46" Tall Plastic Water Barrier.....	56.00	
01 55 26 00-0081 MO 6' x 46" Tall Plastic Water Barrier.....	168.00	
01 55 26 00-0082 DAY Sand Filled Crash Attenuator Barrels.....	7.31	
01 55 26 00-0083 WK Sand Filled Crash Attenuator Barrels.....	21.92	
01 55 26 00-0084 MO Sand Filled Crash Attenuator Barrels.....	65.76	
01 55 26 00-0085 MO 24" Wide x 32" High x 32' Long, Anchorless Water Filler, Non Redirective, Bi-Directional Impact Attenuator (ABSORB 350® BARRIER).....	1,038.96	

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

01 55 26 00-0086

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

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

01 55 26 00-0087 DAY Mesh Or Vinyl Roll-up Sign With Stand.....	5.74	
01 55 26 00-0088 WK Mesh Or Vinyl Roll-up Sign With Stand.....	17.21	
01 55 26 00-0089 MO Mesh Or Vinyl Roll-up Sign With Stand.....	51.63	
01 55 26 00-0090 DAY Aluminum Sign And Post.....	3.08	
01 55 26 00-0091 WK Aluminum Sign And Post.....	9.24	
01 55 26 00-0092 MO Aluminum Sign And Post.....	27.71	
01 55 26 00-0093 DAY Aluminum Sign And A Frame Stand.....	4.34	
01 55 26 00-0094 WK Aluminum Sign And A Frame Stand.....	13.01	
01 55 26 00-0095 MO Aluminum Sign And A Frame Stand.....	39.04	
01 55 26 00-0096 DAY Trailer Mounted Flashing Arrow Board.....	121.00	
01 55 26 00-0097 WK Trailer Mounted Flashing Arrow Board.....	334.91	
01 55 26 00-0098 MO Trailer Mounted Flashing Arrow Board.....	430.50	
01 55 26 00-0099 DAY Trailer Mounted Portable Variable Message Sign (PVMS).....	315.00	
01 55 26 00-0100 WK Trailer Mounted Portable Variable Message Sign (PVMS).....	840.00	
01 55 26 00-0101 MO Trailer Mounted Portable Variable Message Sign (PVMS).....	1,680.00	
01 55 26 00-0102 DAY Two Head, Trailer Mounted Traffic Signal System (Set Of Two).....	976.78	

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

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0103 WK Two Head, Trailer Mounted Traffic Signal System (Set Of Two).....	2,930.34	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0104 MO Two Head, Trailer Mounted Traffic Signal System (Set Of Two).....	8,791.02	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0105 Place And Remove Traffic Protection Using Truck (01 55 26 00-0028)		
Note: Includes delivery and return up to 15 miles. See CSI section 01 74 19 00-0050 for delivery >15 miles.		
01 55 26 00-0106 EA Placement And Removal Of Up To 250 Cones Using Truck.....	4.08	
01 55 26 00-0107 EA Placement And Removal Of >250 Cones Using Truck.....	3.27	
01 55 26 00-0108 EA Placement And Removal Of Up To 250 Panels/Channelizers Using Truck.....	5.45	
01 55 26 00-0109 EA Placement And Removal Of >250 Panels/Channelizers Using Truck.....	4.36	
01 55 26 00-0110 EA Placement And Removal Of Up To 250 Barricades Using Truck.....	8.17	
01 55 26 00-0111 EA Placement And Removal Of >250 Barricades Using Truck.....	6.53	
01 55 26 00-0112 EA Placement And Removal Of Curbs/Speed Bumps Using Truck.....	8.17	
01 55 26 00-0113 EA Placement And Removal Of Portable Sign And Stand Using Truck.....	4.90	
01 55 26 00-0114 EA Placement And Removal Of Aluminum Sign And Post Using Truck.....	20.42	
01 55 26 00-0115 EA Placement And Removal Of Trailer Mounted Boards And Signals Using Truck.....	61.26	
01 55 26 00-0116 EA Placement And Removal Of Up To 12.5' Concrete Traffic Barrier.....	83.03	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	207.58	
For 2 Barriers, Add	74.73	
For 3 Barriers, Add	24.91	
01 55 26 00-0117 EA Placement And Removal Of >12.5' Concrete Traffic Barrier.....	124.55	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	311.38	
For 2 Barriers, Add	112.10	
For 3 Barriers, Add	37.37	
01 55 26 00-0118 EA Placement And Removal Of Plastic Water Barrier.....	46.52	
Note: Includes water. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for Equipment Usage, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	103.80	
For 2 Barriers, Add	37.37	
For 3 Barriers, Add	12.46	
01 55 26 00-0119 EA Placement And Removal Of Crash Attenuator Barrels.....	62.27	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	155.68	
For 2 Barriers, Add	56.04	
For 3 Barriers, Add	18.68	
01 55 26 00-0120 EA Placement And Removal Of 24" Wide x 32" High x 32' Long, Anchorless Water Filler, Non Redirective, Bi-Directional Impact Attenuator (ABSORB 350@ BARRIER).....	456.67	
Note: Consists of 8 bays with nose piece at the front of the system attached and anchored in accordance with the manufactures instructions. Includes water. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization.		
01 55 26 00-0121 Place And Remove Traffic Protection From Roadside (Daily) (01 55 26 00-0028)		
01 55 26 00-0122 EA Placement And Removal Of Up To 250 Cones By Hand From Roadside.....	2.04	
01 55 26 00-0123 EA Placement And Removal Of >250 Cones By Hand From Roadside.....	1.64	
01 55 26 00-0124 EA Placement And Removal Of Up To 250 Panels/Channelizers By Hand From Roadside.....	2.72	
01 55 26 00-0125 EA Placement And Removal Of >250 Panels/Channelizers By Hand From Roadside.....	2.17	
01 55 26 00-0126 EA Placement And Removal Of Up To 250 Barricades By Hand From Roadside.....	4.08	
01 55 26 00-0127 EA Placement And Removal Of >250 Barricades By Hand From Roadside.....	3.27	
01 55 26 00-0128 EA Placement And Removal Of Portable Sign And Stand From Roadside.....	2.44	
01 55 26 00-0129 EA Placement And Removal Of Trailer Mounted Boards And Signals From Roadside.....	30.63	
01 55 26 00-0130 EA Roadside Relocation Of Concrete Traffic Barrier.....	41.52	
Note: Excludes flatbed truck. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
01 55 26 00-0131 Temporary Rumble Strips (01 55 26)		
Note: Includes removal after use.		
01 55 26 00-0132 LF 1/4" High, 4" Wide, Polymer Tape Temporary Rumble Strip.....	9.63	
01 55 26 00-0133 LF 1/2" High, 3-1/2" Wide, Polycarbonate Temporary Rumble Strip.....	7.00	
01 56 Temporary Barriers and Enclosures (01 50)		
Note: Includes removal after use.		
01 56 16 Temporary Dust Barriers (01 56)		
01 56 16 00-0001 Temporary Sheeting For Protection (01 56 16)		
Note: Includes removal after use.		
01 56 16 00-0002 SF 6 Mil, Plastic Sheeting, Applied To Floors.....	0.31	
01 56 16 00-0003 SF 6 Mil, Plastic Sheeting, Applied To Walls.....	0.41	
01 56 16 00-0004 SF 6 Mil, Plastic Sheeting, Applied To Ceilings.....	0.54	
01 56 16 00-0005 SF 6 Mil, Plastic Sheeting, Applied To Scaffolding.....	0.53	
01 56 16 00-0006 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Floors.....	0.37	
01 56 16 00-0007 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Walls.....	0.47	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0008 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Ceilings .....	.060	
01 56 16 00-0009 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Scaffolding .....	.057	
01 56 16 00-0010 SF 10 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding .....	.070	
01 56 16 00-0011 SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Floors .....	.038	
01 56 16 00-0012 SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Walls .....	.048	
01 56 16 00-0013 SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Ceilings .....	.061	
01 56 16 00-0014 SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Scaffolding .....	.058	
01 56 16 00-0015 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Floors .....	.038	
01 56 16 00-0016 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Walls .....	.048	
01 56 16 00-0017 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Ceilings .....	.061	
01 56 16 00-0018 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Scaffolding .....	.058	
01 56 16 00-0019 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Floors .....	.043	
01 56 16 00-0020 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Walls .....	.053	
01 56 16 00-0021 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Ceilings .....	.066	
01 56 16 00-0022 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding .....	.063	
01 56 16 00-0023 Temporary Canvas For Protection (01 56 16)		
Note: Includes removal after use.		
01 56 16 00-0024 SF Heavy Duty Woven Water Repellant Canvas, Applied To Walls .....	.083	
01 56 16 00-0025 Accessories For Temporary Sheeting (01 56 16)		
Note: Includes removal after use.		
01 56 16 00-0026 EA 7' Zipper Door For Plastic Sheeting	19.71	
01 56 16 00-0027 LF Zip Wall Kit And ICRA Dust Control Awareness Barrier (Per LF Of Wall)	7.18	
Note: Includes up to 12' long spring loaded poles, side clamps, foam rails and 6 mil poly barrier. Excludes zip doors.		
01 56 16 00-0028 Temporary Critical Barriers For Protection (01 56 16)		
Note: Includes removal after use.		
01 56 16 00-0029 EA Up To 1 SF Individual Critical Barriers	10.60	
Note: For Outlets And Receptacles		
01 56 16 00-0030 EA >1 To 4 SF Individual Critical Barriers	16.04	
Note: For diffusers, ceiling speakers, return grilles, etc.		
01 56 16 00-0031 EA >4 To 8 SF Individual Critical Barriers	21.53	
Note: For diffusers, return grilles, access doors, light fixtures, etc.		
01 56 16 00-0032 EA >8 To 32 SF Individual Critical Barriers	33.43	
Note: For doors, windows, etc.		
01 56 16 00-0033 Temporary Stud Wall (01 56 16)		
Note: Includes removal after use.		
01 56 16 00-0034 Temporary Stud Wall With Drywall (01 56 16 00-0033)		
Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, drywall taped and finished and removal after use. Excludes paint.		
01 56 16 00-0035 Temporary Stud Wall With Drywall (01 56 16 00-0034)		
01 56 16 00-0036 SF 3/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center	6.37	
For Metal Studs 24" On Center, Add/Deduct		-0.23
01 56 16 00-0037 SF 1/2" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center	6.37	
For Metal Studs 24" On Center, Add/Deduct		-0.23
01 56 16 00-0038 SF 5/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center	6.45	
For Metal Studs 24" On Center, Add/Deduct		-0.23
01 56 16 00-0039 SF 3/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center	8.48	
For Metal Studs 24" On Center, Add/Deduct		-0.14
01 56 16 00-0040 SF 1/2" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center	8.48	
For Metal Studs 24" On Center, Add/Deduct		-0.14
01 56 16 00-0041 SF 5/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center	8.63	
For Metal Studs 24" On Center, Add/Deduct		-0.14
01 56 16 00-0042 Temporary Stud Wall With Fire Rated Drywall (01 56 16 00-0034)		
01 56 16 00-0043 SF 1/2" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center	6.46	
For Metal Studs 24" On Center, Add/Deduct		-0.23
01 56 16 00-0044 SF 5/8" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center	6.48	
For Metal Studs 24" On Center, Add/Deduct		-0.23
01 56 16 00-0045 SF 5/8" Type X Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center	6.44	
For Metal Studs 24" On Center, Add/Deduct		-0.23
01 56 16 00-0046 SF 3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center	7.03	
For Metal Studs 24" On Center, Add/Deduct		-0.23
01 56 16 00-0047 SF 1/2" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center	8.65	
For Metal Studs 24" On Center, Add/Deduct		-0.14
01 56 16 00-0048 SF 5/8" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center	8.70	
For Metal Studs 24" On Center, Add/Deduct		-0.14
01 56 16 00-0049 SF 5/8" Type X Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center	8.61	
For Metal Studs 24" On Center, Add/Deduct		-0.14
01 56 16 00-0050 SF 3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center	9.79	
For Metal Studs 24" On Center, Add/Deduct		-0.14

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 56 16 00-0051	Temporary Stud Wall With Oriented Strand Board (OSB) <small>(01 56 16 00-0033)</small>	
	Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, oriented strand board (OSB) wall sheathing, and removal after use. Excludes paint.	
01 56 16 00-0052	SF 7/16" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	7.05
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	-0.23
01 56 16 00-0053	SF 1/2" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	7.19
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	-0.23
01 56 16 00-0054	SF 5/8" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	7.57
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	-0.23
01 56 16 00-0055	SF 3/4" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	7.78
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	-0.23
01 56 16 00-0056	SF 7/16" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	9.84
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	-0.14
01 56 16 00-0057	SF 1/2" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	10.11
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	-0.14
01 56 16 00-0058	SF 5/8" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	10.87
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	-0.14
01 56 16 00-0059	SF 3/4" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	11.28
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	-0.14
01 56 16 00-0060	Temporary Stud Wall With BC Plywood <small>(01 56 16 00-0033)</small>	
	Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, interior/exterior BC plywood wall sheathing, and removal after use. Excludes paint.	
01 56 16 00-0061	SF 3/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	7.96
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	-0.23
01 56 16 00-0062	SF 1/2" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	8.46
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	-0.23
01 56 16 00-0063	SF 5/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	8.54
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	-0.23
01 56 16 00-0064	SF 3/4" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	8.89
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	-0.23
01 56 16 00-0065	SF 3/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	11.66
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	-0.14
01 56 16 00-0066	SF 1/2" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	12.66
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	-0.14
01 56 16 00-0067	SF 5/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	12.81
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	-0.14
01 56 16 00-0068	SF 3/4" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	13.52
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	-0.14
01 56 16 00-0069	Temporary Stud Wall With Plastic Sheeting <small>(01 56 16 00-0033)</small>	
	Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, 6 Mil plastic sheeting, and removal after use.	
01 56 16 00-0070	SF 6 Mil, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	4.03
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	-0.33
01 56 16 00-0071	SF 6 Mil, Fire Retardant, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	4.09
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	-0.33
01 56 16 00-0072	SF 6 Mil, Fire Retardant, Anti-Static, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	4.11
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	-0.33
01 56 16 00-0073	SF 6 Mil, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	4.10
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	-0.33
01 56 16 00-0074	SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	4.15
	<i>For Metal Studs 24" On Center, Add/Deduct</i>	-0.33
01 56 16 00-0075	Temporary Doors <small>(01 56 16 00-0033)</small>	
	Note: For temporary stud walls. Includes removal after use.	
01 56 16 00-0076	EA Temporary Metal Door And Frame	548.27
	Note: Painted with panic hardware, lockset, threshold and smoke seals. Remove after use.	
01 56 16 00-0077	Temporary Floor Protection <small>(01 56 16)</small>	
	Note: Includes removal after use.	
01 56 16 00-0078	SF Masonite For Temporary Floor Protection	1.69
01 56 16 00-0079	SF 1/2" Plywood For Temporary Floor Protection	2.33
01 56 16 00-0080	SF 3/4" Plywood For Temporary Floor Protection	2.82
01 56 16 00-0081	LF 38" Wide, 46 Mil Fiberboard, Ram Board® For Temporary Floor Protection	0.98
01 56 16 00-0082	LF 36" Wide, 9 Mil, Regular Weight Red Rosin Paper, For Temporary Floor Protection	0.30
01 56 16 00-0083	CSF 3 Mil, Temporary Self-adhesive Carpet Protection Film	19.85
01 56 16 00-0084	SF Burlap For Temporary Floor Protection	0.64
01 56 16 00-0085	Sticky Mats <small>(01 56 16)</small>	
	Note: Includes removal after use.	
01 56 16 00-0086	EA 18" x 36", 30 Layer Sticky Mat	26.60
	<i>For 60 Layers Instead Of 30, Add</i>	17.12
01 56 16 00-0087	EA 18" x 46", 30 Layer Sticky Mat	30.41
	<i>For 60 Layers Instead Of 30, Add</i>	19.98



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0088 EA 24" x 36", 30 Layer Sticky Mat	30.41	
<i>For 60 Layers Instead Of 30, Add</i>	19.98	
01 56 16 00-0089 EA 25" x 45", 30 Layer Sticky Mat	39.92	
<i>For 60 Layers Instead Of 30, Add</i>	27.11	
01 56 16 00-0090 EA 36" x 36", 30 Layer Sticky Mat	43.72	
<i>For 60 Layers Instead Of 30, Add</i>	29.96	
01 56 16 00-0091 EA 36" x 46", 30 Layer Sticky Mat	47.53	
<i>For 60 Layers Instead Of 30, Add</i>	32.82	
01 56 16 00-0092 EA 36" x 60", 30 Layer Sticky Mat	95.09	
<i>For 60 Layers Instead Of 30, Add</i>	68.49	
01 56 16 00-0093 EA 36" x 72", 30 Layer Sticky Mat	113.36	
01 56 26 Temporary Fencing (01 56)		
01 56 26 00-0001 Temporary Fencing (01 56 26)		
Note: Per ASTM A392-06 Standards		
01 56 26 00-0002 Temporary Chain Link Fence (01 56 26 00-0001)		
Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts. See CSI section 02 41 19 13-0080 for core drilling in asphalt or concrete, 32 31 13 13-0001 for auguring and backfill of posts.		
01 56 26 00-0003 Temporary Chain Link Fence, Up To 6 Months (01 56 26 00-0002)		
01 56 26 00-0004 LF Temporary 4' High Chain Link Fence And Posts, Up To 6 Months	6.00	
<i>For >100 To 250, Deduct</i>	-0.15	
<i>For >250 To 500, Deduct</i>	-0.30	
<i>For >500, Deduct</i>	-0.45	
<i>For Each LF Shade Cloth, Add</i>	1.60	
01 56 26 00-0005 LF Temporary 6' High Chain Link Fence And Posts, Up To 6 Months	6.68	
<i>For >100 To 250, Deduct</i>	-0.17	
<i>For >250 To 500, Deduct</i>	-0.34	
<i>For >500, Deduct</i>	-0.51	
<i>For Each LF Shade Cloth, Add</i>	2.55	
01 56 26 00-0006 LF Temporary 8' High Chain Link Fence And Posts, Up To 6 Months	9.32	
<i>For >100 To 250, Deduct</i>	-0.29	
<i>For >250 To 500, Deduct</i>	-0.57	
<i>For >500, Deduct</i>	-0.86	
<i>For Each LF Shade Cloth, Add</i>	3.60	
01 56 26 00-0007 LF Temporary 10' High Chain Link Fence And Posts, Up To 6 Months	20.95	
<i>For >100 To 250, Deduct</i>	-0.85	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.54	
<i>For Each LF Shade Cloth, Add</i>	4.75	
01 56 26 00-0008 Temporary Chain Link Fence, >6 To 12 Months (01 56 26 00-0002)		
01 56 26 00-0009 LF Temporary 4' High Chain Link Fence And Posts, >6 To 12 Months	6.31	
<i>For >100 To 250, Deduct</i>	-0.17	
<i>For >250 To 500, Deduct</i>	-0.33	
<i>For >500, Deduct</i>	-0.50	
<i>For Each LF Shade Cloth, Add</i>	1.60	
01 56 26 00-0010 LF Temporary 6' High Chain Link Fence And Posts, >6 To 12 Months	7.02	
<i>For >100 To 250, Deduct</i>	-0.19	
<i>For >250 To 500, Deduct</i>	-0.37	
<i>For >500, Deduct</i>	-0.56	
<i>For Each LF Shade Cloth, Add</i>	2.55	
01 56 26 00-0011 LF Temporary 8' High Chain Link Fence And Posts, >6 To 12 Months	9.88	
<i>For >100 To 250, Deduct</i>	-0.31	
<i>For >250 To 500, Deduct</i>	-0.63	
<i>For >500, Deduct</i>	-0.94	
<i>For Each LF Shade Cloth, Add</i>	3.60	
01 56 26 00-0012 LF Temporary 10' High Chain Link Fence And Posts, >6 To 12 Months	22.64	
<i>For >100 To 250, Deduct</i>	-0.93	
<i>For >250 To 500, Deduct</i>	-1.86	
<i>For >500, Deduct</i>	-2.80	
<i>For Each LF Shade Cloth, Add</i>	4.75	
01 56 26 00-0013 Temporary Chain Link Fence, >12 To 18 Months (01 56 26 00-0002)		
01 56 26 00-0014 LF Temporary 4' High Chain Link Fence And Posts, >12 To 18 Months	6.64	
<i>For >100 To 250, Deduct</i>	-0.18	
<i>For >250 To 500, Deduct</i>	-0.36	
<i>For >500, Deduct</i>	-0.54	
<i>For Each LF Shade Cloth, Add</i>	1.60	
01 56 26 00-0015 LF Temporary 6' High Chain Link Fence And Posts, >12 To 18 Months	7.40	
<i>For >100 To 250, Deduct</i>	-0.20	
<i>For >250 To 500, Deduct</i>	-0.41	
<i>For >500, Deduct</i>	-0.61	
<i>For Each LF Shade Cloth, Add</i>	2.55	
01 56 26 00-0016 LF Temporary 8' High Chain Link Fence And Posts, >12 To 18 Months	10.52	
<i>For >100 To 250, Deduct</i>	-0.35	
<i>For >250 To 500, Deduct</i>	-0.69	
<i>For >500, Deduct</i>	-1.04	
<i>For Each LF Shade Cloth, Add</i>	3.60	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0017 LF Temporary 10' High Chain Link Fence And Posts, >12 To 18 Months.....	24.50	
For >100 To 250, Deduct	-1.03	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-3.08	
For Each LF Shade Cloth, Add	4.75	
01 56 26 00-0018 Temporary Chain Link Fence, >18 Months (01 56 26 00-0002)		
01 56 26 00-0019 LF Temporary 4' High Chain Link Fence And Posts, >18 Months.....	7.00	
For >100 To 250, Deduct	-0.20	
For >250 To 500, Deduct	-0.40	
For >500, Deduct	-0.60	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0020 LF Temporary 6' High Chain Link Fence And Posts, >18 Months.....	7.78	
For >100 To 250, Deduct	-0.22	
For >250 To 500, Deduct	-0.45	
For >500, Deduct	-0.67	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0021 LF Temporary 8' High Chain Link Fence And Posts, >18 Months.....	11.20	
For >100 To 250, Deduct	-0.38	
For >250 To 500, Deduct	-0.76	
For >500, Deduct	-1.14	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0022 LF Temporary 10' High Chain Link Fence And Posts, >18 Months.....	26.55	
For >100 To 250, Deduct	-1.13	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-3.38	
For Each LF Shade Cloth, Add	4.75	
01 56 26 00-0023 Temporary Chain Link Fence Gates (01 56 26 00-0001)		
Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts. See CSI section 02 41 19 13-0080 for core drilling in asphalt or concrete, 32 31 13 13-0001 for augering and backfill of posts.		
01 56 26 00-0024 Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0023)		
01 56 26 00-0025 4' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0026 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	247.11	
For Each LF Shade Cloth, Add	14.23	
01 56 26 00-0027 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	417.07	
For Each LF Shade Cloth, Add	35.57	
01 56 26 00-0028 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	467.71	
For Each LF Shade Cloth, Add	42.68	
01 56 26 00-0029 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	531.92	
For Each LF Shade Cloth, Add	53.35	
01 56 26 00-0030 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	638.09	
For Each LF Shade Cloth, Add	71.14	
01 56 26 00-0031 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	709.19	
For Each LF Shade Cloth, Add	85.37	
01 56 26 00-0032 6' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0033 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	264.07	
For Each LF Shade Cloth, Add	22.68	
01 56 26 00-0034 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	449.38	
For Each LF Shade Cloth, Add	56.69	
01 56 26 00-0035 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	504.97	
For Each LF Shade Cloth, Add	68.03	
01 56 26 00-0036 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	583.93	
For Each LF Shade Cloth, Add	85.03	
01 56 26 00-0037 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	706.40	
For Each LF Shade Cloth, Add	113.38	
01 56 26 00-0038 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	799.38	
For Each LF Shade Cloth, Add	136.05	
01 56 26 00-0039 8' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0040 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	294.53	
For Each LF Shade Cloth, Add	32.01	
01 56 26 00-0041 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	513.56	
For Shade Cloth, Add	80.03	
01 56 26 00-0042 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	575.22	
For Shade Cloth, Add	96.04	
01 56 26 00-0043 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	657.71	
For Shade Cloth, Add	120.05	
01 56 26 00-0044 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	803.81	
For Shade Cloth, Add	160.06	
01 56 26 00-0045 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	929.05	
For Shade Cloth, Add	192.08	
01 56 26 00-0046 10' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0047 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	357.70	
For Each LF Shade Cloth, Add	42.24	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0048 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months <i>For Each LF Shade Cloth, Add</i>	617.63 105.60	
01 56 26 00-0049 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months <i>For Each LF Shade Cloth, Add</i>	693.13 126.72	
01 56 26 00-0050 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months <i>For Each LF Shade Cloth, Add</i>	791.41 158.40	
01 56 26 00-0051 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months <i>For Each LF Shade Cloth, Add</i>	967.44 211.19	
01 56 26 00-0052 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months <i>For Each LF Shade Cloth, Add</i>	1,113.23 253.43	
01 56 26 00-0053 Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0023)		
01 56 26 00-0054 4' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0055 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	256.64 14.23	
01 56 26 00-0056 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	431.89 35.57	
01 56 26 00-0057 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	484.64 42.68	
01 56 26 00-0058 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	550.97 53.35	
01 56 26 00-0059 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	661.38 71.14	
01 56 26 00-0060 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	734.60 65.37	
01 56 26 00-0061 6' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0062 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	274.03 22.68	
01 56 26 00-0063 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	464.87 56.69	
01 56 26 00-0064 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	522.67 68.03	
01 56 26 00-0065 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	603.86 85.03	
01 56 26 00-0066 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	730.75 113.38	
01 56 26 00-0067 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	825.94 136.05	
01 56 26 00-0068 8' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0069 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	305.49 32.01	
01 56 26 00-0070 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Shade Cloth, Add</i>	530.60 80.03	
01 56 26 00-0071 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Shade Cloth, Add</i>	594.70 96.04	
01 56 26 00-0072 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Shade Cloth, Add</i>	679.62 120.05	
01 56 26 00-0073 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Shade Cloth, Add</i>	830.59 160.06	
01 56 26 00-0074 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Shade Cloth, Add</i>	958.27 192.08	
01 56 26 00-0075 10' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0076 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	371.39 42.24	
01 56 26 00-0077 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	638.94 105.60	
01 56 26 00-0078 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	717.48 126.72	
01 56 26 00-0079 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	818.80 158.40	
01 56 26 00-0080 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	1,000.92 211.19	
01 56 26 00-0081 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	1,149.75 253.43	
01 56 26 00-0082 Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0023)		
01 56 26 00-0083 4' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0084 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	266.64 14.23	
01 56 26 00-0085 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	447.45 35.57	
01 56 26 00-0086 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	502.43 42.68	

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0087	EA		15' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	570.98	
			<i>For Each LF Shade Cloth, Add</i>	53.35	
01 56 26 00-0088	EA		20' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	685.83	
			<i>For Each LF Shade Cloth, Add</i>	71.14	
01 56 26 00-0089	EA		24' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	761.27	
			<i>For Each LF Shade Cloth, Add</i>	85.37	
01 56 26 00-0090			6' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0091	EA		4' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	284.49	
			<i>For Each LF Shade Cloth, Add</i>	22.68	
01 56 26 00-0092	EA		10' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	481.14	
			<i>For Each LF Shade Cloth, Add</i>	56.69	
01 56 26 00-0093	EA		12' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	541.26	
			<i>For Each LF Shade Cloth, Add</i>	68.03	
01 56 26 00-0094	EA		15' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	624.77	
			<i>For Each LF Shade Cloth, Add</i>	85.03	
01 56 26 00-0095	EA		20' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	756.32	
			<i>For Each LF Shade Cloth, Add</i>	113.38	
01 56 26 00-0096	EA		24' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	853.83	
			<i>For Each LF Shade Cloth, Add</i>	136.05	
01 56 26 00-0097			8' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0098	EA		4' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	317.00	
			<i>For Each LF Shade Cloth, Add</i>	32.01	
01 56 26 00-0099	EA		10' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	548.50	
			<i>For Shade Cloth, Add</i>	80.03	
01 56 26 00-0100	EA		12' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	615.15	
			<i>For Shade Cloth, Add</i>	96.04	
01 56 26 00-0101	EA		15' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	702.63	
			<i>For Shade Cloth, Add</i>	120.05	
01 56 26 00-0102	EA		20' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	858.72	
			<i>For Shade Cloth, Add</i>	160.06	
01 56 26 00-0103	EA		24' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	988.94	
			<i>For Shade Cloth, Add</i>	192.08	
01 56 26 00-0104			10' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0105	EA		4' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	385.77	
			<i>For Each LF Shade Cloth, Add</i>	42.24	
01 56 26 00-0106	EA		10' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	661.31	
			<i>For Each LF Shade Cloth, Add</i>	105.60	
01 56 26 00-0107	EA		12' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	743.05	
			<i>For Each LF Shade Cloth, Add</i>	126.72	
01 56 26 00-0108	EA		15' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	847.56	
			<i>For Each LF Shade Cloth, Add</i>	158.40	
01 56 26 00-0109	EA		20' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	1,036.07	
			<i>For Each LF Shade Cloth, Add</i>	211.19	
01 56 26 00-0110	EA		24' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months.....	1,188.10	
			<i>For Each LF Shade Cloth, Add</i>	253.43	
01 56 26 00-0111			Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0023)		
01 56 26 00-0112			4' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0113	EA		4' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months.....	276.64	
			<i>For Each LF Shade Cloth, Add</i>	14.23	
01 56 26 00-0114	EA		10' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months.....	463.01	
			<i>For Each LF Shade Cloth, Add</i>	35.57	
01 56 26 00-0115	EA		12' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months.....	520.21	
			<i>For Each LF Shade Cloth, Add</i>	42.68	
01 56 26 00-0116	EA		15' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months.....	590.99	
			<i>For Each LF Shade Cloth, Add</i>	53.35	
01 56 26 00-0117	EA		20' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months.....	710.29	
			<i>For Each LF Shade Cloth, Add</i>	71.14	
01 56 26 00-0118	EA		24' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months.....	787.95	
			<i>For Each LF Shade Cloth, Add</i>	85.37	
01 56 26 00-0119			6' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0120	EA		4' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months.....	294.95	
			<i>For Each LF Shade Cloth, Add</i>	22.68	
01 56 26 00-0121	EA		10' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months.....	497.41	
			<i>For Each LF Shade Cloth, Add</i>	56.69	
01 56 26 00-0122	EA		12' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months.....	559.86	
			<i>For Each LF Shade Cloth, Add</i>	68.03	
01 56 26 00-0123	EA		15' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months.....	645.69	
			<i>For Each LF Shade Cloth, Add</i>	85.03	
01 56 26 00-0124	EA		20' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months.....	781.88	
			<i>For Each LF Shade Cloth, Add</i>	113.38	
01 56 26 00-0125	EA		24' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months.....	881.72	
			<i>For Each LF Shade Cloth, Add</i>	136.05	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0126 8' High, Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0111)</small>		
01 56 26 00-0127 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months.....	328.50	
<i>For Each LF Shade Cloth, Add</i>	32.01	
01 56 26 00-0128 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months.....	566.39	
<i>For Shade Cloth, Add</i>	80.03	
01 56 26 00-0129 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months.....	635.61	
<i>For Shade Cloth, Add</i>	96.04	
01 56 26 00-0130 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months.....	725.64	
<i>For Shade Cloth, Add</i>	120.05	
01 56 26 00-0131 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months.....	886.84	
<i>For Shade Cloth, Add</i>	160.06	
01 56 26 00-0132 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months.....	1,019.62	
<i>For Shade Cloth, Add</i>	192.08	
01 56 26 00-0133 10' High, Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0111)</small>		
01 56 26 00-0134 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months.....	400.15	
<i>For Each LF Shade Cloth, Add</i>	42.24	
01 56 26 00-0135 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months.....	683.68	
<i>For Each LF Shade Cloth, Add</i>	105.60	
01 56 26 00-0136 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months.....	768.61	
<i>For Each LF Shade Cloth, Add</i>	126.72	
01 56 26 00-0137 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months.....	876.32	
<i>For Each LF Shade Cloth, Add</i>	158.40	
01 56 26 00-0138 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months.....	1,071.22	
<i>For Each LF Shade Cloth, Add</i>	211.19	
01 56 26 00-0139 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months.....	1,226.45	
<i>For Each LF Shade Cloth, Add</i>	253.43	
01 56 26 00-0140 Temporary Chain Link Fence Panels (Portable) <small>(01 56 26 00-0001)</small>		
<i>Note: Includes delivery, set-up and removal. Excludes sandbags.</i>		
01 56 26 00-0141 Temporary Chain Link Fence Panels (Portable), Up To 6 Months <small>(01 56 26 00-0140)</small>		
01 56 26 00-0142 LF Temporary 4' High Chain Link Fence Panels (Portable), Up To 6 Months.....	6.59	
<i>For >100 To 250, Deduct</i>	-0.18	
<i>For >250 To 500, Deduct</i>	-0.36	
<i>For >500, Deduct</i>	-0.54	
<i>For Each LF Shade Cloth, Add</i>	1.60	
01 56 26 00-0143 LF Temporary 6' High Chain Link Fence Panels (Portable), Up To 6 Months.....	7.32	
<i>For >100 To 250, Deduct</i>	-0.20	
<i>For >250 To 500, Deduct</i>	-0.40	
<i>For >500, Deduct</i>	-0.60	
<i>For Each LF Shade Cloth, Add</i>	2.55	
01 56 26 00-0144 LF Temporary 8' High Chain Link Fence Panels (Portable), Up To 6 Months.....	10.09	
<i>For >100 To 250, Deduct</i>	-0.32	
<i>For >250 To 500, Deduct</i>	-0.65	
<i>For >500, Deduct</i>	-0.97	
<i>For Each LF Shade Cloth, Add</i>	3.60	
01 56 26 00-0145 Temporary Chain Link Fence Panels (Portable), >6 To 12 Months <small>(01 56 26 00-0140)</small>		
01 56 26 00-0146 LF Temporary 4' High Chain Link Fence Panels (Portable), >6 To 12 Months.....	6.90	
<i>For >100 To 250, Deduct</i>	-0.19	
<i>For >250 To 500, Deduct</i>	-0.39	
<i>For >500, Deduct</i>	-0.58	
<i>For Each LF Shade Cloth, Add</i>	1.60	
01 56 26 00-0147 LF Temporary 6' High Chain Link Fence Panels (Portable), >6 To 12 Months.....	7.66	
<i>For >100 To 250, Deduct</i>	-0.22	
<i>For >250 To 500, Deduct</i>	-0.44	
<i>For >500, Deduct</i>	-0.65	
<i>For Each LF Shade Cloth, Add</i>	2.55	
01 56 26 00-0148 LF Temporary 8' High Chain Link Fence Panels (Portable), >6 To 12 Months.....	10.65	
<i>For >100 To 250, Deduct</i>	-0.35	
<i>For >250 To 500, Deduct</i>	-0.70	
<i>For >500, Deduct</i>	-1.05	
<i>For Each LF Shade Cloth, Add</i>	3.60	
01 56 26 00-0149 Temporary Chain Link Fence Panels (Portable), >12 To 18 Months <small>(01 56 26 00-0140)</small>		
01 56 26 00-0150 LF Temporary 4' High Chain Link Fence Panels (Portable), >12 To 18 Months.....	7.20	
<i>For >100 To 250, Deduct</i>	-0.21	
<i>For >250 To 500, Deduct</i>	-0.42	
<i>For >500, Deduct</i>	-0.63	
<i>For Each LF Shade Cloth, Add</i>	1.60	
01 56 26 00-0151 LF Temporary 6' High Chain Link Fence Panels (Portable), >12 To 18 Months.....	8.04	
<i>For >100 To 250, Deduct</i>	-0.24	
<i>For >250 To 500, Deduct</i>	-0.47	
<i>For >500, Deduct</i>	-0.71	
<i>For Each LF Shade Cloth, Add</i>	2.55	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0152 LF Temporary 8' High Chain Link Fence Panels (Portable), >12 To 18 Months	11.29	
For >100 To 250, Deduct	-0.38	
For >250 To 500, Deduct	-0.77	
For >500, Deduct	-1.15	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0153 Temporary Chain Link Fence Panels (Portable), >18 Months (01 56 26 00-0140)		
01 56 26 00-0154 LF Temporary 4' High Chain Link Fence Panels (Portable), >18 Months.....	7.59	
For >100 To 250, Deduct	-0.23	
For >250 To 500, Deduct	-0.46	
For >500, Deduct	-0.69	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0155 LF Temporary 6' High Chain Link Fence Panels (Portable), >18 Months.....	8.42	
For >100 To 250, Deduct	-0.26	
For >250 To 500, Deduct	-0.51	
For >500, Deduct	-0.77	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0156 LF Temporary 8' High Chain Link Fence Panels (Portable), >18 Months.....	11.95	
For >100 To 250, Deduct	-0.42	
For >250 To 500, Deduct	-0.83	
For >500, Deduct	-1.25	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0157 Temporary Chain Link Fence Panels (Portable) Sandbags (01 56 26 00-0140)		
01 56 26 00-0158 BAG Temporary Chain Link Fence Panels (Portable) Sandbag	5.85	
Note: Includes placement and removal.		
01 56 26 00-0159 Relocate Chain Link Fence, Gates And Panels (01 56 26 00-0001)		
Note: Excludes auguring/drilling for posts.		
01 56 26 00-0160 Relocate Temporary Chain Link Fence On Site (01 56 26 00-0159)		
01 56 26 00-0161 LF Relocate Temporary 4' High Chain Link Fence And Posts.....	3.12	
01 56 26 00-0162 LF Relocate Temporary 6' High Chain Link Fence And Posts.....	4.69	
01 56 26 00-0163 LF Relocate Temporary 8' High Chain Link Fence And Posts.....	6.77	
01 56 26 00-0164 LF Relocate Temporary 10' High Chain Link Fence And Posts.....	8.34	
01 56 26 00-0165 Relocate Temporary Chain Link Fence Panels On Site (01 56 26 00-0159)		
01 56 26 00-0166 LF Relocate Temporary 4' High Chain Link Fence Panel, Self Standing	0.75	
01 56 26 00-0167 LF Relocate Temporary 6' High Chain Link Fence Panel, Self Standing	0.90	
01 56 26 00-0168 LF Relocate Temporary 8' High Chain Link Fence Panel, Self Standing	1.01	
01 56 26 00-0169 Relocate Temporary Chain Link Gates On Site (01 56 26 00-0159)		
01 56 26 00-0170 EA Relocate Temporary 4' High Chain Link Vehicle Gate And Posts	98.01	
01 56 26 00-0171 EA Relocate Temporary 6' High Chain Link Vehicle Gate And Posts	113.09	
01 56 26 00-0172 EA Relocate Temporary 8' High Chain Link Vehicle Gate And Posts	139.48	
01 56 26 00-0173 EA Relocate Temporary 10' High Chain Link Vehicle Gate And Posts	150.80	
01 56 26 00-0174 Temporary Safety Fence (01 56 26)		
Note: Includes removal after use.		
01 56 26 00-0175 LF 48" High With Posts At 8' On Center, Plastic Mesh Temporary Safety Fence	2.91	
01 56 29 Temporary Protective Walkways (01 56)		
01 56 29 00-0001 Temporary Sidewalk Bridge Protection (01 56 29)		
Note: Includes removal after use.		
01 56 29 00-0002 Installation of Sidewalk Bridge (01 56 29 00-0001)		
01 56 29 00-0003 LF Installation of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly	151.60	
Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.		
For 3 Post System, Add	6.00	
For Each Additional Foot Over 8' Wide, Add	3.00	
For Each Additional Foot Over 8' High, Add	2.00	
01 56 29 00-0004 LF Installation of Netting for Sidewalk Bridge.....	3.86	
01 56 29 00-0005 Monthly Rental of Sidewalk Bridge (01 56 29 00-0001)		
01 56 29 00-0006 LF Monthly Rental Of Up To 8' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Assembly	10.39	
Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
For 3 Post System, Add	1.56	
01 56 29 00-0007 LF Monthly Rental Of Up To 8' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly	11.70	
Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
For 3 Post System, Add	1.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 29 00-0008 LF Monthly Rental Of Up To 8' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....13.00 Note: Includes spanning openings, planking and parapet, lighting and maintenance. For 3 Post System, Add	13.00	
01 56 29 00-0009 LF Monthly Rental Of 8' - 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....13.00 Note: Includes spanning openings, planking and parapet, lighting and maintenance. For 3 Post System, Add	13.00	1.95
01 56 29 00-0010 LF Monthly Rental Of 8' - 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....14.29 Note: Includes spanning openings, planking and parapet, lighting and maintenance. For 3 Post System, Add	14.29	1.95
01 56 29 00-0011 LF Monthly Rental Of 8' - 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....16.91 Note: Includes spanning openings, planking and parapet, lighting and maintenance. For 3 Post System, Add	16.91	2.54
01 56 29 00-0012 LF Monthly Rental Of Over 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....15.61 Note: Includes spanning openings, planking and parapet, lighting and maintenance. For 3 Post System, Add	15.61	2.34
01 56 29 00-0013 LF Monthly Rental Of Over 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....18.21 Note: Includes spanning openings, planking and parapet, lighting and maintenance. For 3 Post System, Add	18.21	2.73
01 56 29 00-0014 LF Monthly Rental Of Over 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....19.48 Note: Includes spanning openings, planking and parapet, lighting and maintenance. For 3 Post System, Add	19.48	2.92
01 56 29 00-0015 LF Monthly Rental of Netting for Sidewalk Bridge .....1.95	1.95	
01 56 29 00-0016 Removal of Sidewalk Bridge (01 56 29 00-0001)		
01 56 29 00-0017 LF Removal Of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....31.55 Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system. For 3 Post System, Add For Each Additional Foot Over 8' Wide, Add For Each Additional Foot Over 8' High, Add	31.55	2.50 1.25 0.75
01 56 29 00-0018 LF Removal Of Netting For Sidewalk Bridge .....1.93	1.93	
01 56 29 00-0019 Safety Nets (01 56 29)		
Note: Includes removal after use.		
01 56 29 00-0020 SF Small Mesh Debris Netting .....1.67 Note: Includes 3" molded plastic base plates, plastic cable ties, and 1/4", 7x9 aircraft cable tied off to structure, not including anchors.	1.67	
01 56 33 Temporary Security Barriers (01 56)		
01 56 33 00-0001 Board-up Opening With Plywood (01 56 33)		
Note: For use where directed by owner for boarding up door and window openings.		
01 56 33 00-0002 OPN Removal Of Protective Barrier To Allow Work In Building, Reseal At End Of Day, Per Opening Per Day .....11.32	11.32	
01 56 33 00-0003 SF 5/8" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners, For Board-Up Opening .....8.74	8.74	
01 56 33 00-0004 SF 3/4" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners, For Board-Up Opening .....10.06	10.06	
01 56 33 00-0005 Temporary Pedestrian Barricade (01 56 33)		
Note: Portable, interlocking galvanized steel fence with pivoting legs.		
01 56 33 00-0006 DAY 3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental .....9.69	9.69	
01 56 33 00-0007 WK 3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental .....23.52	23.52	
01 56 33 00-0008 MO 3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental .....70.57	70.57	
01 56 39 Temporary Tree and Plant Protection (01 56)		
01 56 39 00-0001 Temporary Tree Guards (01 56 39)		
Note: Includes digging holes and removal after use.		
01 56 39 00-0002 EA Up To 4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail .....156.67	156.67	
01 56 39 00-0003 EA 4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail .....183.76	183.76	
01 56 39 00-0004 EA 6' x 6' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail .....199.29	199.29	
01 57 Temporary Controls (01 50)		
01 57 13 Temporary Erosion and Sediment Control (01 57)		
See CSI section 31 25 00 00-0000 for temporary erosion and sediment control.		
01 57 23 Temporary Storm Water Pollution Control (01 57)		
See CSI section 31 25 00 00-0000 for temporary storm water pollution control.		
01 57 23 00-0001 Temporary Drain Guard (01 57 23)		
Note: Includes removal after use.		

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 57 23 00-0002	EA		36" x 48" x 18" Non-Woven Polypropylene Trash and Debris Drain Guard (Ultra-Drain Guard® 9227)	81.15	
01 57 23 00-0003	EA		36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9217)	79.72	
			Note: Up to 0.87 gallons oil, up to 40 lbs sediment.		
01 57 23 00-0004	EA		36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9219)	99.77	
			Note: Up to 1.38 gallons oil, up to 40 lbs sediment.		
01 57 23 00-0005	EA		60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9356)	98.33	
			Note: Up to 1.55 gallons oil, up to 40 lbs sediment.		
01 57 23 00-0006	EA		60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9358)	119.82	
			Note: Up to 2.06 gallons oil, up to 40 lbs sediment.		

01 58 Project Identification (01 50)

Note: Includes removal after use.

01 58 13 Temporary Project Signage (01 58)

01 58 13 00-0001	EA		Project Sign <small>(01 58 13)</small>		
01 58 13 00-0002	EA		MDO Plywood Signs <small>(01 58 13 00-0001)</small>		
			Note: Excludes posts.		
01 58 13 00-0003	EA		Reflectorized, MDO Plywood Signs <small>(01 58 13 00-0002)</small>		
01 58 13 00-0004	EA		Engineer Grade, Reflectorized, MDO Plywood Signs <small>(01 58 13 00-0003)</small>		
01 58 13 00-0005	EA		Up To 8 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	127.22	20.74
			For High-Intensity Grade, Add	30.01	
			For Diamond Grade, Add	57.88	
01 58 13 00-0006	EA		>8 To 16 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	214.85	21.68
			For High-Intensity Grade, Add	60.02	
			For Diamond Grade, Add	115.76	
01 58 13 00-0007	EA		>16 To 24 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	302.49	22.62
			For High-Intensity Grade, Add	90.03	
			For Diamond Grade, Add	173.64	
01 58 13 00-0008	EA		>24 To 32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	390.12	23.57
			For High-Intensity Grade, Add	120.05	
			For Diamond Grade, Add	231.52	
01 58 13 00-0009	SF		>32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	12.23	0.75
			For High-Intensity Grade, Add	3.75	
			For Diamond Grade, Add	7.24	
01 58 13 00-0010	EA		Non-Reflectorized, MDO Plywood Signs <small>(01 58 13 00-0002)</small>		
01 58 13 00-0011	EA		One Or Two Color Design, Non-Reflectorized, MDO Plywood Signs <small>(01 58 13 00-0010)</small>		
01 58 13 00-0012	EA		Up To 8 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	157.80	20.74
01 58 13 00-0013	EA		>8 To 16 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	187.46	21.68
01 58 13 00-0014	EA		>16 To 24 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	233.64	22.62
01 58 13 00-0015	EA		>24 To 32 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	277.24	23.57
01 58 13 00-0016	SF		>32 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	8.70	0.75
01 58 13 00-0017	EA		Full Color Design, Non-Reflectorized, MDO Plywood Signs <small>(01 58 13 00-0010)</small>		
01 58 13 00-0018	EA		Up To 8 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	161.08	20.74
01 58 13 00-0019	EA		>8 To 16 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	205.12	21.68
01 58 13 00-0020	EA		>16 To 24 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	251.58	22.62
01 58 13 00-0021	EA		>24 To 32 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	292.62	23.57
01 58 13 00-0022	SF		>32 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	9.18	0.75
01 58 13 00-0023	LF		Fabricate And Install New Posts <small>(01 58 13 00-0001)</small>		
			Note: Includes excavation, backfill and compaction. Excludes core drilling.		
01 58 13 00-0024	LF		Galvanized Metal Channel Sign Posts	13.91	
01 58 13 00-0025	LF		4" x 4" Pressure Treated Wood Sign Posts	11.16	
01 58 13 00-0026	LF		4" x 6" Pressure Treated Wood Sign Posts	13.16	
01 58 13 00-0027	EA		Owner Supplied Signs <small>(01 58 13 00-0001)</small>		
01 58 13 00-0028	EA		Installation And Removal Of Owner Supplied Project Sign	75.40	

01 60 Product Requirements (01)

01 66 Product Storage and Handling Requirements (01 60)

01 66 19 Product Handling Requirements (01 66)

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

01 66 19 00-0001	CY		Transfer Delivered Materials Between Floors <small>(01 66 19)</small>		
			Note: For moving delivered, owner supplied or existing materials in a building.		
01 66 19 00-0002	CY		Transfer Delivered Material Between Floors Via Stairs, Per Floor	14.50	
			Note: Quantity equals volume of materials multiplied by number of floors traveled.		



General Requirements	01	10
Product Requirements	01 60	
Product Storage and Handling Requirements	01 66	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 66 19 00-0003 CY Transfer Delivered Material Between Floors Via Elevator, Per Trip.....9.43 Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.		
01 66 19 00-0004 Transfer Delivered Materials Distances Greater Than 125'^(01 66 19) Note: For moving delivered, owner supplied or existing materials in a building.		
01 66 19 00-0005 CY Transfer Delivered Materials Distances Greater Than 125', Per CY Of Material Per 125' .....5.89		
01 66 19 00-0006 Transfer Demolition Debris Between Floors^(01 66 19) Note: Only for use with demolition tasks.		
01 66 19 00-0007 CY Transfer Demolition Debris Between Floors Via Stairs, Per Floor.....14.50 Note: Quantity equals material volume times bulk factor times number of floors traveled.		
01 66 19 00-0008 CY Transfer Demolition Debris Between Floors Via Elevator, Per Trip.....9.43 Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.		
01 66 19 00-0009 Transfer Demolition Debris Distances Greater Than 125'^(01 66 19) Note: Only for use with demolition tasks.		
01 66 19 00-0010 CY Transfer Demolition Debris Distances Greater Than 125', Per CY Of Material Per 125' .....5.89		
01 66 19 00-0011 Moving Furniture And Furnishings^(01 66 19) Note: To be used when contractor is required to move furniture and furnishings occupying 55% or more of the total floor space.		
01 66 19 00-0012 SF Removal, Transportation, Return And Reinstallation Of Office Furniture And Furnishings .....0.94 Note: Includes desks, tables, file cabinets, chairs, storage boxes, bookshelves, office equipment, computers, and other furniture and furnishings. Quantity equals total floor space.		

01 70 Execution and Closeout Requirements⁽⁰¹⁾

01 71 Examination and Preparation^(01 70)

01 71 13 Mobilization^(01 71)

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

Note: Excludes flagman for traffic control where necessary. See CSI section 01 22 23 00-0844 for cranes.

01 71 13 00-0002 EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck.....273.93 Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom man lifts with up to 40' boom lengths, etc.		
01 71 13 00-0003 EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed.....934.03 Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom man lifts with >40' boom lengths, etc.		

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

Note: Includes delivery of equipment, off loading on site and rigging. Return includes dismantling, loading and transporting away. Excludes flagman for traffic control where necessary.

01 71 13 00-0005 EA Up To 20 Ton Lift Move On/Off Cost, Hydraulic Crane .....438.29 Note: Includes delivery and pickup.		
For >30 To 60 Miles Radius, Add		109.57
For >60 To 100 Miles Radius, Add		175.32
01 71 13 00-0006 EA 20 To 30 Ton Lift Move On/Off Cost, Hydraulic Crane.....712.20 Note: Includes delivery and pickup.		
For >30 To 60 Miles Radius, Add		178.05
For >60 To 100 Miles Radius, Add		284.88
01 71 13 00-0007 EA 40 To 50 Ton Lift Move On/Off Cost, Hydraulic Crane.....986.13 Note: Includes delivery and pickup.		
For >30 To 60 Miles Radius, Add		246.53
For >60 To 100 Miles Radius, Add		394.45
01 71 13 00-0008 EA 70 To 100 Ton Lift Move On/Off Cost, Hydraulic Crane.....1,588.77 Note: Includes delivery and pickup.		
For >30 To 60 Miles Radius, Add		397.19
For >60 To 100 Miles Radius, Add		635.51
01 71 13 00-0009 EA 75 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane .....1,260.05 Note: Includes delivery, rigging and pickup.		
For >30 To 60 Miles Radius, Add		315.01
For >60 To 100 Miles Radius, Add		504.02
01 71 13 00-0010 EA 100 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane .....2,027.05 Note: Includes delivery, rigging and pickup.		
For >30 To 60 Miles Radius, Add		506.76
For >60 To 100 Miles Radius, Add		810.82
01 71 13 00-0011 EA 125 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane .....2,552.98 Note: Includes delivery, rigging and pickup.		
For >30 To 60 Miles Radius, Add		638.25
For >60 To 100 Miles Radius, Add		1,021.19

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 13 00-0012 EA 150 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane	3,166.58	
Note: Includes delivery, rigging and pickup.		
For >30 To 60 Miles Radius, Add	791.65	
For >60 To 100 Miles Radius, Add	1,266.63	
01 71 13 00-0013 EA 250 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane	4,601.94	
Note: Includes delivery, rigging and pickup.		
For >30 To 60 Miles Radius, Add	1,150.49	
For >60 To 100 Miles Radius, Add	1,840.78	
01 71 13 00-0014 EA 300 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane	6,574.21	
Note: Includes delivery, rigging and pickup.		
For >30 To 60 Miles Radius, Add	1,643.55	
For >60 To 100 Miles Radius, Add	2,629.68	
01 71 13 00-0015 EA 500 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane	9,039.53	
Note: Includes delivery, rigging and pickup.		
For >30 To 60 Miles Radius, Add	2,259.88	
For >60 To 100 Miles Radius, Add	3,615.81	
01 71 23 Field Engineering (01 71)		
01 71 23 16 Construction Surveying (01 71 23)		
01 71 23 16-0001 Conventional Topographic Survey (01 71 23 16)		
Note: The professional services include AutoCAD drafting and certification. The survey includes location of structures, walks, drives, parking, significant vegetation, utilities, etc. The area within building footprint is not to be considered as part of the acreage.		
01 71 23 16-0002 ACR Conventional Topographic Survey Of Clear Area With Few To No Obstacles	1,033.64	
01 71 23 16-0003 ACR Conventional Topographic Survey Of Clear Area With Medium Height Vegetation, Few Trees (<5% Buildings)	2,952.25	
01 71 23 16-0004 ACR Conventional Topographic Survey Of Clear Area With Few Structures, And/Or Wooded (5-25% Buildings)	4,234.40	
01 71 23 16-0005 ACR Conventional Topographic Survey Of Developed Areas With Several Structures (25-65% Buildings)	6,408.10	
01 71 23 16-0006 ACR Conventional Topographic Survey Of Highly Developed Areas, Sidewalks, Etcetera (>65% Buildings)	8,038.11	
01 71 23 16-0007 Property Lines Survey (01 71 23 16)		
Note: Not to be added to tasks in the "Conventional Topographic Survey" section.		
01 71 23 16-0008 LF Survey Property Lines On Cleared Land	2.42	
01 71 23 16-0009 LF Survey Property Lines On Slightly Wooded Land	2.81	
01 71 23 16-0010 LF Survey Property Lines On Wooded Land	3.29	
01 71 23 16-0011 Survey Monument (01 71 23 16)		
01 71 23 16-0012 EA 3' Precast Survey Monument	152.54	
For Owner Furnished Monument, Deduct	-68.52	
01 71 23 16-0013 EA Precast Survey Monument Box With Cast Iron Frame And Cover	225.89	
01 71 23 16-0014 EA Riser Ring For Survey Monument	114.31	
01 71 23 16-0015 EA Adjust Survey Monument Cover To Grade	205.58	
01 71 23 16-0016 Facade Surveying (01 71 23 16)		
01 71 23 16-0017 LF Facade Survey And Reports (LF Of Facade x Number Of Floors)	6.66	
01 71 23 16-0018 Utility Survey (01 71 23 16)		
Note: This survey is only for the location of underground utilities.		
01 71 23 16-0019 ACR Survey Clear Area For Underground Utilities	5,537.94	
01 71 36 Non-Destructive Concrete Examination (01 71)		
01 71 36 00-0001 Electromagnetic Survey (01 71 36)		
Note: To locate voids, prior to moving heavy machinery to an area of concern, to locate reinforcing bars, conduits, pipes, etc., prior to core drilling or cutting existing concrete, masonry or asphalt, to locate underground utilities, underground storage tanks, etc. Electromagnetic survey includes Subsurface Interface Radar (SIR) and/or Ground Penetrating Radar (GPR).		
01 71 36 00-0002 Electromagnetic (SIR/GPR) Survey (01 71 36 00-0001)		
01 71 36 00-0003 EA Up To 1 Hour On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt	779.22	
01 71 36 00-0004 EA >1 To 4 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt	1,168.83	
01 71 36 00-0005 EA >4 To 8 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt	2,337.66	
01 71 36 00-0006 Reports And Mapping For Electromagnetic (SIR/GPR) Surveys (01 71 36 00-0001)		
01 71 36 00-0007 EA Standard Report For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt	259.74	
Note: Includes a detailed description of the scope of work, inspection methods, and equipment used. Also includes visuals such as site locations, images of data, and site photos.		
01 71 36 00-0008 EA GPS Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt	519.48	
Note: Includes GPS coordinates of located items and reference items.		
01 71 36 00-0009 EA CAD Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt	1,168.83	
Note: Includes additions to the owner provided CAD drawing.		



General Requirements	01	5
Execution and Closeout Requirements	01 70	
Cleaning and Waste Management	01 74	

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

01 74 13 Progress Cleaning (01 74)

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

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

01 74 13 00-0002	CSF	Clean Miscellaneous Surfaces, Wipe Down With Mild Detergent	18.87
01 74 13 00-0003	CY	Collect Existing Debris And Load Into Truck Or Dumpster.....	22.12

Note: Per CY of debris removed.

01 74 16 Site Maintenance (01 74)

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

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

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

01 74 16 00-0003	MSF	Sweep Parking Lot, With Street Sweeper	19.49
01 74 16 00-0004	MSF	Sweeper/Vacuum/Sprayer For Parking Lots, Streets And Roads	23.39

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

01 74 16 00-0006	MSF	Sweep Runway, With Street Sweep	29.24
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01 74 19 Construction Waste Management and Disposal (01 74)

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

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

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

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

01 74 19 00-0003	LF	18" Diameter, Steel Temporary Debris Chute	32.10
01 74 19 00-0004	LF	30" Diameter, Steel Temporary Debris Chute	48.20

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

01 74 19 00-0006	LF	24" Diameter, Plastic Temporary Debris Chute.....	12.69
		<i>For Steel Liner, Add</i>	<i>2.44</i>
01 74 19 00-0007	LF	30" Diameter, Plastic Temporary Debris Chute.....	14.54
		<i>For Steel Liner, Add</i>	<i>2.80</i>
01 74 19 00-0008	LF	36" Diameter, Plastic Temporary Debris Chute.....	16.39
		<i>For Steel Liner, Add</i>	<i>3.16</i>

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

01 74 19 00-0010	LF	4' x 4', Wood Temporary Debris Chute	24.44
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Note: Includes fabrication and installation.

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

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

01 74 19 00-0012	EA	10 CY Dumpster (1 Ton) "Construction Debris"	539.99
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	
		<i>For Each Ton Over Indicated Amount, Add</i>	<i>95.00</i>
01 74 19 00-0013	EA	15 CY Dumpster (1.5 Ton) "Construction Debris"	587.49
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	
		<i>For Each Ton Over Indicated Amount, Add</i>	<i>95.00</i>
01 74 19 00-0014	EA	20 CY Dumpster (2 Ton) "Construction Debris"	600.00
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	
		<i>For Each Ton Over Indicated Amount, Add</i>	<i>95.00</i>
01 74 19 00-0015	EA	30 CY Dumpster (3 Ton) "Construction Debris"	644.96
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	
		<i>For Each Ton Over Indicated Amount, Add</i>	<i>95.00</i>
01 74 19 00-0016	EA	40 CY Dumpster (4 Ton) "Construction Debris"	759.99
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	
		<i>For Each Ton Over Indicated Amount, Add</i>	<i>95.00</i>
01 74 19 00-0017	EA	10 CY Low-Boy Dumpster "Concrete Or Asphalt Only"	759.99
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Concrete or asphalt only.	
01 74 19 00-0018	EA	15 CY Low-Boy Dumpster Clean Recyclable.....	727.42
		Note: For clean dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.	
01 74 19 00-0019	EA	15 CY Low-Boy Dumpster Mixed Recyclable.....	781.70
		Note: For mixed dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 74 19 00-0020	Concrete Washout Service <small>(01 74 19)</small>	
01 74 19 00-0021	MO Rampless Concrete Washout Bin Note: Includes delivery.	516.35
01 74 19 00-0022	MO Ramped Concrete Washout Bin Note: Includes delivery.	619.62
01 74 19 00-0023	EA Interim Vacuum Service, Concrete Washout Bin Note: Includes vacuum and recycle excess clear liquid from the unfilled bin to allow additional space for washout material.	428.76
01 74 19 00-0024	EA Vacuum, Pickup, Swap And Dump, Concrete Washout Bin..... Note: Includes vacuum the liquid from the full bin and pick up the bin, and recycle all material. An empty bin will be left at the site if the project is not completed.	928.98

01 74 19 00-0025 Debris Processing Fee (01 74 19)

01 74 19 00-0026	Material Recycling Fees <small>(01 74 19 00-0025)</small>	
Note: Not to be used with Dumpster Tasks which include the Landfill Dump Fee. Excludes hauling.		
01 74 19 00-0027	CY Drop-Off Asphalt At Recycling Center.....	14.93
01 74 19 00-0028	CY Drop-Off Non Reinforced Concrete At Recycling Center	20.00
01 74 19 00-0029	CY Drop-Off Reinforced Concrete At Recycling Center	30.00
01 74 19 00-0030	CY Drop-Off Brick Or Block At Recycling Center	26.00
01 74 19 00-0031	CY Drop-Off Dirt At Recycling Center	29.00
01 74 19 00-0032	CY Drop-Off Dimensional Lumber At Recycling Center	28.00

01 74 19 00-0033 Landfill Dump Fees (01 74 19 00-0025)

Note: Does not apply when material is transferred to owner's site or facility, or with use of dumpsters. Excludes hauling. See CSI section 01 74 19 00-0050 for hauling.		
01 74 19 00-0034	CY Traditional Building Construction Materials Landfill Dump Fee	13.31
01 74 19 00-0035	TON Traditional Building Construction Materials, Landfill Dump Fee	58.00
01 74 19 00-0036	CY Trees, Stumps And Brush, Landfill Dump Fee	16.02
01 74 19 00-0037	CY Hazardous Materials And Rubbish Landfill Dump Fee..... Note: Includes regulated waste such as paint cans, refrigerators/freezers, air conditioners, smoke detectors, batteries, etc.	38.20
01 74 19 00-0038	CY Asphalt, Concrete, Gravel And Subgrade Material, Landfill Dump Fee.....	27.14
01 74 19 00-0039	CY Non Reinforced Concrete And/Or Rock, 2" Minus	4.20
01 74 19 00-0040	CY Reinforced Concrete And/Or Rock, 2" Minus, Rebar Trimmed To 1".....	5.85
01 74 19 00-0041	CY Reinforced Concrete not trimmed, 2" Minus.....	10.40
01 74 19 00-0042	CY Mixed Asphalt And Concrete, Sized And Trimmed	5.33
01 74 19 00-0043	CY Asphalt Or Asphalt And Dirt, Sized To 2" Minus	5.85
01 74 19 00-0044	CY Reinforced Concrete And Asphalt, Not Trimmed, 2" Minus.....	12.50
01 74 19 00-0045	CY Clean Dirt (No Grass, Weeds, Roots, Plants, Trash)	35.55
01 74 19 00-0046	CY Clay Loads, Expansive Materials	44.43
01 74 19 00-0047	CY Clean Asphalt, Sized 2" Minus, No Dirt.....	6.35
01 74 19 00-0048	TON General Refuse	53.32
01 74 19 00-0049	EA Tires.....	16.29

01 74 19 00-0050 Hauling (01 74 19)

Note: Includes driver and equipment, ten (10) to fifteen (15) minutes load time, time for travel, dump time and return (roundtrip). The task quantity is the number of miles to the disposal site/transfer station (one way mileage) times the number of cubic yards being transported. For example, to haul 8 CY to a site 14 miles away, the quantity is calculated as follows: 14 miles x 8 CY = 112 CYM. Use both hauling tasks for distances greater than 15 miles. To haul 28 CY to a site 32 miles away, the quantity for the task to haul the first 15 miles is calculated: 15 miles x 28 CY = 420 CYM. The quantity for the additional hauling task over the first 15 miles is calculated: 32 total miles less 15 initial miles equals 17 miles x 28 CY = 476 CYM.		
01 74 19 00-0051	CYM Hauling On Paved Roads, First 15 Miles	0.89
01 74 19 00-0052	CYM Hauling On Paved Roads, Miles Over Initial 15 Miles	0.59
01 74 19 00-0053	CYM Hauling On Unimproved Roads, First 15 Miles	1.37
01 74 19 00-0054	CYM Hauling On Unimproved Roads, Miles Over Initial 15 Miles.....	1.07

01 74 23 Final Cleaning (01 74)

01 74 23 00-0001	Cleaning Of Glass <small>(01 74 23)</small>	
01 74 23 00-0002	CSF Cleaning Of Existing Glass Surfaces	25.20

END OF SECTION 01



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

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

02 20 Assessment ⁽⁰²⁾

02 25 Existing Material Assessment ^(02 20)

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

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

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

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

02 30 Subsurface Investigation ⁽⁰²⁾

02 32 Geotechnical Investigations ^(02 30)

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

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

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

02 32 13 00-0002 EA Mobilization Of Drilling Crew1,034.11

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

02 32 13 00-0004 LF Standard Auger Hole With Split Spoon Sample At 5' Intervals31.14

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

Note: All types of soils.

02 32 13 00-0006 LF 2-1/2" Diameter Cased Borings In Earth, With Samples73.73

02 32 13 00-0007 LF 4" Diameter Cased Borings In Earth, With Samples126.04

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

02 32 13 00-0009 LF Drill In Rock, BW Core, With Casing78.82

Note: Includes sampling.

02 32 13 00-0010 EA Drill In Rock, With BW Core Boxes7.14

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

02 32 13 00-0012 LF Drill In Rock, NW Core, With Casing101.70

Note: Includes sampling.

02 32 13 00-0013 EA Drill In Rock, With NW Core Boxes8.22

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

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

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

02 32 13 00-0016 CY Excavation For Test Pit, Light Material, Backhoe Excavation60.12

02 32 13 00-0017 CY Excavation For Test Pits, Medium Material, Backhoe Excavation70.14

02 32 13 00-0018 CY Excavation For Test Pit, Heavy Material, Backhoe Excavation93.52

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

02 32 13 00-0020 CY Excavation For Test Pit, Light Soil, Hand Excavation167.54

02 32 13 00-0021 CY Excavation For Test Pit, Heavy Soil, Hand Excavation301.58

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

02 32 13 00-0023 EA Shelby Tube Sampling37.45

02 32 13 00-0024 EA Penetration Test30.51

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

02 32 13 00-0026 VLF Boreholes7.10

02 32 19 Exploratory Excavations ^(02 32)

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

Note: Assumes on-site disposal.

02 32 19 00-0002 EA Hydro Excavation, Mobilization/Demobilization106.50

02 32 19 00-0003 EA Hydro Excavation, Minimum Charge426.00

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

02 32 19 00-0004 CY Hydro Excavation, Normal Soil Conditions (Hydro-Vac Truck)35.50

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

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 32 19 00-0005	CY	Hydro Excavation, Adverse Soil Conditions (Hydro-Vac Truck).....	56.80
Note: Adverse soil conditions consist of clay, glacial till and rocks.			

02 40 Demolition and Structure Moving ⁽⁰²⁾

02 41 Demolition ^(02 40)

02 41 13 Selective Site Demolition ^(02 41)

02 41 13 13 Paving Removal ^(02 41 13)

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

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

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

02 41 13 13-0002	SY	Up To 3" By Machine, Break-up And Leave In Place Bituminous Paving	6.37
		For >500 To 1,000, Deduct	-0.64
		For >1,000 To 2,500, Deduct	-1.15
		For >2,500 To 5,000, Deduct	-1.66
		For >5,000 To 10,000, Deduct	-2.17
		For >10,000, Deduct	-2.68
02 41 13 13-0003	SY	>3" To 6" By Machine, Break-up And Leave In Place Bituminous Paving.....	9.56
		For >500 To 1,000, Deduct	-0.96
		For >1,000 To 2,500, Deduct	-1.72
		For >2,500 To 5,000, Deduct	-2.49
		For >5,000 To 10,000, Deduct	-3.25
		For >10,000, Deduct	-4.02
02 41 13 13-0004	SY	Up To 3" By Machine, Break-up And Leave In Place Concrete Paving	12.71
		For >500 To 1,000, Deduct	-1.27
		For >1,000 To 2,500, Deduct	-2.29
		For >2,500 To 5,000, Deduct	-3.30
		For >5,000 To 10,000, Deduct	-4.32
		For >10,000, Deduct	-5.34
02 41 13 13-0005	SY	>3" To 6" By Machine, Break-up And Leave In Place Concrete Paving.....	17.95
		For >500 To 1,000, Deduct	-1.80
		For >1,000 To 2,500, Deduct	-3.23
		For >2,500 To 5,000, Deduct	-4.67
		For >5,000 To 10,000, Deduct	-6.10
		For >10,000, Deduct	-7.54
02 41 13 13-0006	SY	>6" To 9" By Machine, Break-up And Leave In Place Concrete Paving.....	25.42
		For >500 To 1,000, Deduct	-2.54
		For >1,000 To 2,500, Deduct	-4.58
		For >2,500 To 5,000, Deduct	-6.61
		For >5,000 To 10,000, Deduct	-8.64
		For >10,000, Deduct	-10.68
02 41 13 13-0007	SY	>9" To 14" By Machine, Break-up And Leave In Place Concrete Paving.....	35.88
		For >500 To 1,000, Deduct	-3.59
		For >1,000 To 2,500, Deduct	-6.46
		For >2,500 To 5,000, Deduct	-9.33
		For >5,000 To 10,000, Deduct	-12.20
		For >10,000, Deduct	-15.07
02 41 13 13-0008	SY	>14" To 19" By Machine, Break-up And Leave In Place Concrete Paving.....	46.93
		For >500 To 1,000, Deduct	-4.69
		For >1,000 To 2,500, Deduct	-8.45
		For >2,500 To 5,000, Deduct	-12.20
		For >5,000 To 10,000, Deduct	-15.96
		For >10,000, Deduct	-19.71
02 41 13 13-0009	SY	>19" To 24" By Machine, Break-up And Leave In Place Concrete Paving.....	61.01
		For >500 To 1,000, Deduct	-6.10
		For >1,000 To 2,500, Deduct	-10.98
		For >2,500 To 5,000, Deduct	-15.86
		For >5,000 To 10,000, Deduct	-20.74
		For >10,000, Deduct	-25.62

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

Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles with jackhammer and hand tools. For individual work areas where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. These tasks are not to be used in conjunction with any other loading activities or other break-up tasks. Excludes saw cutting. See CSI section 02 41 13 13-0031 for breaking-up, removal and loading as a combined operation, 02 41 19 13-0057 for saw cutting.

02 41 13 13-0011	SF	Up To 3" By Hand, Break-up And Leave In Place Bituminous Paving	1.53
02 41 13 13-0012	SF	>3" To 6" By Hand, Break-up And Leave In Place Bituminous Paving	1.94
02 41 13 13-0013	SF	>6" To 8" By Hand, Break-up And Leave In Place Bituminous Paving	2.56
02 41 13 13-0014	SF	Up To 3" By Hand, Break-up And Leave In Place Concrete Paving	1.92
02 41 13 13-0015	SF	>3" To 6" By Hand, Break-up And Leave In Place Concrete Paving.....	2.43
02 41 13 13-0016	SF	>6" To 8" By Hand, Break-up And Leave In Place Concrete Paving.....	3.21



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

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0017 By Machine, Break-up And Remove Bituminous And Concrete Paving <small>(02 41 13 13)</small>		
<small>Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles, breaking into manageable sizes by machine and loading into truck, dumpster or moving material to stockpile. Excludes saw cutting. See CSI section 02 41 19 13-0057 for saw cutting.</small>		
02 41 13 13-0018 SY Up To 3" By Machine, Break-up And Remove Bituminous Paving.....	14.19	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	4.26	
For Elevated Slab, Add	7.10	
For >500 To 1,000, Deduct	-1.42	
For >1,000 To 2,500, Deduct	-2.55	
For >2,500 To 5,000, Deduct	-3.69	
For >5,000 To 10,000, Deduct	-4.82	
For >10,000, Deduct	-5.96	
02 41 13 13-0019 SY >3" To 6" By Machine, Break-up And Remove Bituminous Paving.....	19.37	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	5.81	
For Elevated Slab, Add	9.69	
For >500 To 1,000, Deduct	-1.94	
For >1,000 To 2,500, Deduct	-3.49	
For >2,500 To 5,000, Deduct	-5.04	
For >5,000 To 10,000, Deduct	-6.59	
For >10,000, Deduct	-8.14	
02 41 13 13-0020 SY Up To 3" By Machine, Break-up And Remove Non Reinforced Concrete Paving.....	16.32	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	4.90	
For Elevated Slab, Add	8.16	
For >500 To 1,000, Deduct	-1.63	
For >1,000 To 2,500, Deduct	-2.94	
For >2,500 To 5,000, Deduct	-4.24	
For >5,000 To 10,000, Deduct	-5.55	
For >10,000, Deduct	-6.85	
02 41 13 13-0021 SY >3" To 6" By Machine, Break-up And Remove Non Reinforced Concrete Paving.....	21.35	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	6.41	
For Elevated Slab, Add	10.68	
For >500 To 1,000, Deduct	-2.14	
For >1,000 To 2,500, Deduct	-3.84	
For >2,500 To 5,000, Deduct	-5.55	
For >5,000 To 10,000, Deduct	-7.26	
For >10,000, Deduct	-8.97	
02 41 13 13-0022 SY Up To 3" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	21.66	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	6.50	
For Elevated Slab, Add	10.83	
For >500 To 1,000, Deduct	-2.17	
For >1,000 To 2,500, Deduct	-3.90	
For >2,500 To 5,000, Deduct	-5.63	
For >5,000 To 10,000, Deduct	-7.36	
For >10,000, Deduct	-9.10	
02 41 13 13-0023 SY >3" To 6" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	28.06	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	8.42	
For Elevated Slab, Add	14.03	
For >500 To 1,000, Deduct	-2.81	
For >1,000 To 2,500, Deduct	-5.05	
For >2,500 To 5,000, Deduct	-7.30	
For >5,000 To 10,000, Deduct	-9.54	
For >10,000, Deduct	-11.79	
02 41 13 13-0024 SY >6" To 9" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	46.52	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	13.96	
For Elevated Slab, Add	23.26	
For >500 To 1,000, Deduct	-4.65	
For >1,000 To 2,500, Deduct	-8.37	
For >2,500 To 5,000, Deduct	-12.10	
For >5,000 To 10,000, Deduct	-15.82	
For >10,000, Deduct	-19.54	
02 41 13 13-0025 SY Up To 3" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	23.48	
For Elevated Slab, Add	11.74	
For >500 To 1,000, Deduct	-2.35	
For >1,000 To 2,500, Deduct	-4.23	
For >2,500 To 5,000, Deduct	-6.10	
For >5,000 To 10,000, Deduct	-7.98	
For >10,000, Deduct	-9.86	
02 41 13 13-0026 SY >3" To 6" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	30.20	
For Elevated Slab, Add	15.10	
For >500 To 1,000, Deduct	-3.02	
For >1,000 To 2,500, Deduct	-5.44	
For >2,500 To 5,000, Deduct	-7.85	
For >5,000 To 10,000, Deduct	-10.27	
For >10,000, Deduct	-12.68	
02 41 13 13-0027 SY >6" To 9" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	53.99	
For Elevated Slab, Add	27.00	
For >500 To 1,000, Deduct	-5.40	
For >1,000 To 2,500, Deduct	-9.72	
For >2,500 To 5,000, Deduct	-14.04	
For >5,000 To 10,000, Deduct	-18.36	
For >10,000, Deduct	-22.68	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0028 SY >9" To 14" By Machine, Break-up And Remove Rod Reinforced Concrete Paving	70.46	
For Elevated Slab, Add	35.23	
For >500 To 1,000, Deduct	-7.05	
For >1,000 To 2,500, Deduct	-12.68	
For >2,500 To 5,000, Deduct	-18.32	
For >5,000 To 10,000, Deduct	-23.96	
For >10,000, Deduct	-29.59	
02 41 13 13-0029 SY >14" To 19" By Machine, Break-up And Remove Rod Reinforced Concrete Paving	92.12	
For Elevated Slab, Add	46.06	
For >500 To 1,000, Deduct	-9.21	
For >1,000 To 2,500, Deduct	-16.58	
For >2,500 To 5,000, Deduct	-23.95	
For >5,000 To 10,000, Deduct	-31.32	
For >10,000, Deduct	-38.69	
02 41 13 13-0030 SY >19" To 24" By Machine, Break-up And Remove Rod Reinforced Concrete Paving	111.80	
For Elevated Slab, Add	55.90	
For >500 To 1,000, Deduct	-11.18	
For >1,000 To 2,500, Deduct	-20.12	
For >2,500 To 5,000, Deduct	-29.07	
For >5,000 To 10,000, Deduct	-38.01	
For >10,000, Deduct	-46.96	
02 41 13 13-0031 By Hand, Break-up And Remove Bituminous And Concrete Paving <small>(02 41 13 13)</small>		
Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles. Work includes breaking into manageable size with jackhammer and hand tools, removal and loading onto a truck or dumpster. For individual work areas where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. Excludes saw cutting. See CSI section 02 41 19 13-0057 for saw cutting.		
02 41 13 13-0032 SF >6" To 8" By Hand, Break-up And Remove Bituminous Paving	5.84	
02 41 13 13-0033 SF Up To 3" By Hand, Break-up And Remove Concrete Paving	4.27	
02 41 13 13-0034 SF >3" To 6" By Hand, Break-up And Remove Concrete Paving	5.90	
02 41 13 13-0035 SF >6" To 8" By Hand, Break-up And Remove Concrete Paving	7.54	
02 41 13 13-0036 SF Up To 3" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving	5.97	
02 41 13 13-0037 SF >3" To 6" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving	8.25	
02 41 13 13-0038 SF >6" To 8" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving	10.56	
02 41 13 13-0039 Grind Concrete <small>(02 41 13 13)</small>		
02 41 13 13-0040 EA Grind Existing Sidewalks Up To 1/2" Depth To Remove Ridges (Tripping Hazard)	206.79	
Note: For each location up to 5' wide, feather up to 12" each direction.		
For >1/2" To 1" Depth Of Grinding, Add	31.02	
For >1" To 1-1/2" Depth Of Grinding, Add	51.70	
For Up To 5, Add	41.36	
For >5 To 10, Add	20.68	
For >25 To 50, Deduct	-20.68	
For >50 To 250, Deduct	-31.02	
For >250, Deduct	-41.36	
For Sidewalks >5', Add	20.68	
For Up To 12" Additional Feathering Per Side, Add	20.68	
02 41 13 13-0041 Repair Uneven Sidewalks <small>(02 41 13 13)</small>		
Note: (1 inch foot = 1 inch high X 1 linear foot long). Example for sample trip hazard: 1/2" high on one side, Zero on the other side, 4 linear foot long. Calculation for height would be: (1/2 + 0)/2=1/4 inch average. Calculation for length would be: 1/4 inch average X 4 feet = 1 inch foot.		
02 41 13 13-0042 IF Up To 2000 Inch Feet Repair Uneven Sidewalks	71.06	
02 41 13 13-0043 IF 2000 To 3000 Inch Feet Repair Uneven Sidewalks	67.42	
02 41 13 13-0044 IF 3000 And Up Inch Feet Repair Uneven Sidewalks	63.78	
02 41 13 15 Hydro Demolition <small>(02 41 13)</small>		
02 41 13 15-0001 Hydro Demolition Of Concrete Pavement <small>(02 41 13 15)</small>		
Note: Includes removal but excludes disposal of concrete.		
02 41 13 15-0002 SF Up To 2" Depth, Hydro Demolition, Using 40,000 PSI Water Jet	6.02	
02 41 13 15-0003 SF >2" To 4" Depth, Hydro Demolition, Using 40,000 PSI Water Jet	7.52	
02 41 13 15-0004 SF >4" To 6" Depth, Hydro Demolition, Using 40,000 PSI Water Jet	10.02	
02 41 13 15-0005 SF >6" To 8" Depth, Hydro Demolition, Using 40,000 PSI Water Jet	20.04	
02 41 19 Selective Demolition <small>(02 41)</small>		
02 41 19 13 Selective Building Demolition <small>(02 41 19)</small>		
02 41 19 13-0001 Exterior Masonry Removal <small>(02 41 19 13)</small>		
02 41 19 13-0002 Masonry Columns Removal (Interior And Exterior) <small>(02 41 19 13-0001)</small>		
02 41 19 13-0003 VLF 8" x 8" Masonry Column Removal	12.69	
02 41 19 13-0004 VLF 10" x 10" Masonry Column Removal	19.84	
02 41 19 13-0005 VLF 12" x 12" Masonry Column Removal	25.41	
02 41 19 13-0006 VLF 14" x 14" Masonry Column Removal	31.81	
02 41 19 13-0007 VLF 16" x 16" Masonry Column Removal	39.08	
02 41 19 13-0008 CF Masonry Column Removal, Per CF Of Masonry Removed; For Other Sizes Over 16" Square	21.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0009 Masonry Chimney Removal <small>(02 41 19 13-0001)</small>		
02 41 19 13-0010 CF Up To 3 CF/VLF Chimney Removal, Per CF Of Masonry Removed.....	25.74	
02 41 19 13-0011 CF >3 To 10 CF/VLF Chimney Removal, Per CF Of Masonry Removed.....	19.32	
02 41 19 13-0012 CF >10 To 20 CF/VLF Chimney Removal, Per CF Of Masonry Removed.....	14.79	
02 41 19 13-0013 CF >20 CF/VLF Chimney Removal, Per CF Of Masonry Removed.....	10.24	
02 41 19 13-0014 Remove And Reset Precast, Stone Or Masonry Coping <small>(02 41 19 13-0001)</small>		
Note: Includes removing, cleaning, and resetting coping with new ties and mortar. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.		
02 41 19 13-0015 LF Up To 8" Wide, Remove And Reset Precast, Stone Or Masonry Coping.....	18.19	
02 41 19 13-0016 LF >8" To 12" Wide, Remove And Reset Precast, Stone Or Masonry Coping.....	27.17	
02 41 19 13-0017 LF >12" To 24" Wide, Remove And Reset Precast, Stone Or Masonry Coping.....	51.88	
02 41 19 13-0018 Facade Removal <small>(02 41 19 13-0001)</small>		
Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.		
02 41 19 13-0019 SF Stone Or Brick Veneer Facade Removal.....	4.83	
<i>For Cleaning and Storage For Reuse, Add</i>		7.25
<i>For Reinforcing, Add</i>		0.72
02 41 19 13-0020 Exterior Masonry Removal <small>(02 41 19 13-0001)</small>		
Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Salvage modifier includes removing mortar, scraping, cleaning, placement on pallets and storage on site. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.		
02 41 19 13-0021 SF Demolish 4" Thick Non Reinforced Concrete Block Exterior Wall.....	4.25	
02 41 19 13-0022 SF Demolish 6" Thick Non Reinforced Concrete Block Exterior Wall.....	4.80	
02 41 19 13-0023 SF Demolish 8" Thick Non Reinforced Concrete Block Exterior Wall.....	5.80	
02 41 19 13-0024 SF Demolish 10" Thick Non Reinforced Concrete Block Exterior Wall.....	6.34	
02 41 19 13-0025 SF Demolish 12" Thick Non Reinforced Concrete Block Exterior Wall.....	6.96	
02 41 19 13-0026 SF Demolish 16" Thick Non Reinforced Concrete Block Exterior Wall.....	8.71	
02 41 19 13-0027 SF Demolish 4" Thick Reinforced Concrete Block Exterior Wall.....	5.02	
02 41 19 13-0028 SF Demolish 6" Thick Reinforced Concrete Block Exterior Wall.....	5.76	
02 41 19 13-0029 SF Demolish 8" Thick Reinforced Concrete Block Exterior Wall.....	6.96	
02 41 19 13-0030 SF Demolish 10" Thick Reinforced Concrete Block Exterior Wall.....	7.61	
02 41 19 13-0031 SF Demolish 12" Thick Reinforced Concrete Block Exterior Wall.....	8.35	
02 41 19 13-0032 SF Demolish 16" Thick Reinforced Concrete Block Exterior Wall.....	10.45	
02 41 19 13-0033 SF Demolish 4" Thick Brick Exterior Wall.....	4.25	
<i>For Cleaning and Storage For Reuse, Add</i>		6.38
02 41 19 13-0034 SF Demolish 6" Thick Brick Exterior Wall.....	4.80	
<i>For Cleaning and Storage For Reuse, Add</i>		7.20
02 41 19 13-0035 SF Demolish 8" Thick Brick Exterior Wall.....	5.80	
<i>For Cleaning and Storage For Reuse, Add</i>		8.70
02 41 19 13-0036 SF Demolish 10" Thick Brick Exterior Wall.....	6.34	
<i>For Cleaning and Storage For Reuse, Add</i>		9.51
02 41 19 13-0037 SF Demolish 12" Thick Brick Exterior Wall.....	6.96	
<i>For Cleaning and Storage For Reuse, Add</i>		10.44
02 41 19 13-0038 SF Demolish 16" Thick Brick Exterior Wall.....	8.71	
<i>For Cleaning and Storage For Reuse, Add</i>		13.07
02 41 19 13-0039 CF Exterior Brick, Concrete Block Or Composite Removal.....	12.38	
<i>For Cleaning and Storage For Reuse, Add</i>		18.57
<i>For Reinforcing, Add</i>		1.86
02 41 19 13-0040 Lintel Removal <small>(02 41 19 13-0001)</small>		
Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.		
02 41 19 13-0041 LF Demolish Steel Lintel.....	16.43	
02 41 19 13-0042 LF Demolish Concrete Or Stone Lintel.....	21.91	
02 41 19 13-0043 LF Demolish Steel Shelf Angle.....	17.35	
02 41 19 13-0044 Reinstall Lintel <small>(02 41 19 13-0001)</small>		
Note: Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.		
02 41 19 13-0045 LF Clean, Prime And Paint Steel Shelf Angle Or Lintel.....	10.42	
02 41 19 13-0046 LF Reinstall Existing Concrete Or Stone Lintel.....	21.91	
02 41 19 13-0047 LF Reinstall Existing Steel Shelf Angle.....	44.87	
Note: Includes fasteners.		
02 41 19 13-0048 LF Reinstall Existing Steel Lintel.....	18.26	
02 41 19 13-0049 LF Removal And Replacement Of Steel Shelf Angle Over Window Openings At Cavity Walls.....	77.66	
02 41 19 13-0050 LF Removal And Replacement Of Steel Lintel Over Window Openings.....	133.03	
02 41 19 13-0051 Exterior Concrete Wall Removal <small>(02 41 19 13)</small>		
02 41 19 13-0052 SF Demolish 4" Thick Reinforced Concrete Exterior Wall.....	5.78	

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0053	SF		Demolish 6" Thick Reinforced Concrete Exterior Wall	10.49	
02 41 19 13-0054	SF		Demolish 8" Thick Reinforced Concrete Exterior Wall	13.18	
02 41 19 13-0055	SF		Demolish 10" Thick Reinforced Concrete Exterior Wall	15.54	
02 41 19 13-0056	SF		Demolish 12" Thick Reinforced Concrete Exterior Wall	18.38	
02 41 19 13-0057			Saw Cutting <small>(02 41 19 13)</small>		
			Note: Includes blade wear, water, taping off area, layout, clean-up and mist spray with wet vacuuming for dust control where necessary. For projects where the total saw cutting charge is less than the minimum charge, use task "Saw Cut Minimum Charge" exclusively. Task "Saw Cut Minimum Charge" should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0058	LF		Bituminous Paving Up To 4" Depth, Saw Cut	2.13	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	0.81	
			<i>For >250, Deduct</i>	-0.20	
02 41 19 13-0059	LF		Brick Masonry Up To 4" Depth, Saw Cut	7.67	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	3.02	
			<i>For >250, Deduct</i>	-0.75	
02 41 19 13-0060	LF		Concrete Block Up To 4" Depth, Saw Cut	6.95	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	2.73	
			<i>For >250, Deduct</i>	-0.68	
02 41 19 13-0061	LF		Non Reinforced Concrete Slab Or Paving Up To 4" Depth, Saw Cut.....	2.46	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	0.92	
			<i>For >250, Deduct</i>	-0.23	
02 41 19 13-0062	LF		Welded Wire Reinforced Concrete Slab Up To 4" Depth, Saw Cut.....	3.21	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	1.21	
			<i>For >250, Deduct</i>	-0.30	
02 41 19 13-0063	LF		Rod Reinforced Concrete Slab Up To 4" Depth, Saw Cut.....	5.21	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	2.01	
			<i>For >250, Deduct</i>	-0.50	
02 41 19 13-0064	LF		Plain Concrete Walls Up To 4" Depth, Saw Cut.....	9.78	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	3.85	
			<i>For >250, Deduct</i>	-0.96	
02 41 19 13-0065	LF		Saw Cut Rod Reinforced Concrete Walls Up To 4" Depth.....	13.13	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	5.18	
			<i>For >250, Deduct</i>	-1.29	
02 41 19 13-0066	LF		Concrete And Asphalt Up To 4" Depth, Saw Cut In Streets.....	2.50	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	0.92	
			<i>For >250, Deduct</i>	-0.22	
02 41 19 13-0067	LF		Igneous Stone Pavements Up To 4" Depth, Saw Cut.....	6.99	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	2.74	
			<i>For >250, Deduct</i>	-0.68	
02 41 19 13-0068	LF		Sedimentary Stone Pavements Up To 4" Depth, Saw Cut.....	6.99	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	2.74	
			<i>For >250, Deduct</i>	-0.68	
02 41 19 13-0069	LF		Metamorphic Stone Pavements Up To 4" Depth, Saw Cut.....	6.99	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	2.74	
			<i>For >250, Deduct</i>	-0.68	
02 41 19 13-0070	LF		Terrazzo Stone Pavements Up To 4" Depth, Saw Cut.....	6.99	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	2.74	
			<i>For >250, Deduct</i>	-0.68	
02 41 19 13-0071	EA		Saw Cut Minimum Set-up Charge, One Per Project	886.81	
			Note: For projects where the total saw cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0072			Torch Cutting <small>(02 41 19 13)</small>		
			Note: Includes grinding edge		
02 41 19 13-0073	LF		Up To 1/2", Torch Cut Steel Plate	2.61	
02 41 19 13-0074	LF		>1/2" To 1" Thick, Torch Cut Steel Plate.....	5.21	
02 41 19 13-0075	LF		>1" To 1-1/2" Thick, Torch Cut Steel Plate.....	7.81	
02 41 19 13-0076	LF		>1-1/2" To 2" Thick, Torch Cut Steel Plate.....	10.42	
02 41 19 13-0077	LF		>2" To 2-1/2" Thick, Torch Cut Steel Plate.....	13.02	
02 41 19 13-0078	LF		>2-1/2" To 3" Thick, Torch Cut Steel Plate.....	15.62	
02 41 19 13-0079	EA		Torch Cutting Minimum Charge	812.88	
			Note: For projects where the total torch cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0080			Drilling In Existing Materials <small>(02 41 19 13)</small>		
			Note: Includes drill bit wear, water, layout, set-up and clean-up.		
02 41 19 13-0081			Concrete Core Drilling <small>(02 41 19 13-0080)</small>		
02 41 19 13-0082			Up To 4" Thick Concrete Core Drilling <small>(02 41 19 13-0081)</small>		
02 41 19 13-0083	EA		Drill 1" Diameter Core In Up To 4" Concrete	39.37	
			<i>For Horizontal Cores, Add</i>	7.27	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	14.55	
02 41 19 13-0084	EA		Drill 1-1/2" Diameter Core In Up To 4" Concrete.....	43.39	
			<i>For Horizontal Cores, Add</i>	8.08	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	16.16	
02 41 19 13-0085	EA		Drill 2" Diameter Core In Up To 4" Concrete	47.89	
			<i>For Horizontal Cores, Add</i>	8.98	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	17.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0086 EA Drill 3" Diameter Core In Up To 4" Concrete.....	68.15	
<i>For Horizontal Cores, Add</i>	12.83	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	25.65	
02 41 19 13-0087 EA Drill 4" Diameter Core In Up To 4" Concrete.....	91.35	
<i>For Horizontal Cores, Add</i>	17.19	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	34.37	
02 41 19 13-0088 EA Drill 6" Diameter Core In Up To 4" Concrete.....	103.02	
<i>For Horizontal Cores, Add</i>	19.24	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	38.48	
02 41 19 13-0089 EA Drill 8" Diameter Core In Up To 4" Concrete.....	163.27	
<i>For Horizontal Cores, Add</i>	30.78	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	61.57	
02 41 19 13-0090 EA Drill 10" Diameter Core In Up To 4" Concrete.....	205.15	
<i>For Horizontal Cores, Add</i>	38.48	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	76.96	
02 41 19 13-0091 EA Drill 12" Diameter Core In Up To 4" Concrete.....	239.76	
<i>For Horizontal Cores, Add</i>	44.89	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	89.79	
02 41 19 13-0092 EA Drill 14" Diameter Core In Up To 4" Concrete.....	274.71	
<i>For Horizontal Cores, Add</i>	51.30	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	102.60	
02 41 19 13-0093 EA Drill 18" Diameter Core In Up To 4" Concrete.....	311.94	
<i>For Horizontal Cores, Add</i>	57.71	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	115.42	
02 41 19 13-0094 >4" To 6" Thick Concrete Core Drilling (02 41 19 13-0081)		
02 41 19 13-0095 EA Drill 1" Diameter Core In >4" To 6" Concrete.....	56.52	
<i>For Horizontal Cores, Add</i>	10.39	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	20.77	
02 41 19 13-0096 EA Drill 1-1/2" Diameter Core In >4" To 6" Concrete.....	62.29	
<i>For Horizontal Cores, Add</i>	11.54	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	23.08	
02 41 19 13-0097 EA Drill 2" Diameter Core In >4" To 6" Concrete.....	68.71	
<i>For Horizontal Cores, Add</i>	12.82	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	25.65	
02 41 19 13-0098 EA Drill 3" Diameter Core In >4" To 6" Concrete.....	83.25	
<i>For Horizontal Cores, Add</i>	15.39	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	30.78	
02 41 19 13-0099 EA Drill 4" Diameter Core In >4" To 6" Concrete.....	104.53	
<i>For Horizontal Cores, Add</i>	19.24	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	38.48	
02 41 19 13-0100 EA Drill 6" Diameter Core In >4" To 6" Concrete.....	138.63	
<i>For Horizontal Cores, Add</i>	25.65	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	51.31	
02 41 19 13-0101 EA Drill 8" Diameter Core In >4" To 6" Concrete.....	206.55	
<i>For Horizontal Cores, Add</i>	38.48	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	76.96	
02 41 19 13-0102 EA Drill 10" Diameter Core In >4" To 6" Concrete.....	243.55	
<i>For Horizontal Cores, Add</i>	44.89	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	89.79	
02 41 19 13-0103 EA Drill 12" Diameter Core In >4" To 6" Concrete.....	279.39	
<i>For Horizontal Cores, Add</i>	51.30	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	102.60	
02 41 19 13-0104 EA Drill 14" Diameter Core In >4" To 6" Concrete.....	316.36	
<i>For Horizontal Cores, Add</i>	57.71	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	115.42	
02 41 19 13-0105 EA Drill 18" Diameter Core In >4" To 6" Concrete.....	356.66	
<i>For Horizontal Cores, Add</i>	64.13	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	128.26	
02 41 19 13-0106 >6" To 8" Thick Concrete Core Drilling (02 41 19 13-0081)		
02 41 19 13-0107 EA Drill 1" Diameter Core In >6" To 8" Concrete.....	63.37	
<i>For Horizontal Cores, Add</i>	11.43	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	22.86	
02 41 19 13-0108 EA Drill 1-1/2" Diameter Core In >6" To 8" Concrete.....	69.72	
<i>For Horizontal Cores, Add</i>	12.70	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	25.40	
02 41 19 13-0109 EA Drill 2" Diameter Core In >6" To 8" Concrete.....	76.77	
<i>For Horizontal Cores, Add</i>	14.11	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	28.22	
02 41 19 13-0110 EA Drill 3" Diameter Core In >6" To 8" Concrete.....	91.94	
<i>For Horizontal Cores, Add</i>	16.67	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	33.35	
02 41 19 13-0111 EA Drill 4" Diameter Core In >6" To 8" Concrete.....	120.26	
<i>For Horizontal Cores, Add</i>	21.80	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	43.61	
02 41 19 13-0112 EA Drill 6" Diameter Core In >6" To 8" Concrete.....	167.82	
<i>For Horizontal Cores, Add</i>	30.78	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	61.57	
02 41 19 13-0113 EA Drill 8" Diameter Core In >6" To 8" Concrete.....	275.47	
<i>For Horizontal Cores, Add</i>	51.30	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	102.60	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0114 EA Drill 10" Diameter Core In >6" To 8" Concrete	313.96	
For Horizontal Cores, Add	57.71	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	115.42	
02 41 19 13-0115 EA Drill 12" Diameter Core In >6" To 8" Concrete	351.10	
For Horizontal Cores, Add	64.13	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	128.26	
02 41 19 13-0116 EA Drill 14" Diameter Core In >6" To 8" Concrete	390.05	
For Horizontal Cores, Add	70.53	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	141.06	
02 41 19 13-0117 EA Drill 18" Diameter Core In >6" To 8" Concrete	433.45	
For Horizontal Cores, Add	76.96	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	153.92	
02 41 19 13-0118 >8" To 10" Thick Concrete Core Drilling (02 41 19 13-0081)		
02 41 19 13-0119 EA Drill 1" Diameter Core In >8" To 10" Concrete	75.39	
For Horizontal Cores, Add	13.50	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	27.01	
02 41 19 13-0120 EA Drill 1-1/2" Diameter Core In >8" To 10" Concrete	82.90	
For Horizontal Cores, Add	15.01	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	30.01	
02 41 19 13-0121 EA Drill 2" Diameter Core In >8" To 10" Concrete	91.24	
For Horizontal Cores, Add	16.67	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	33.35	
02 41 19 13-0122 EA Drill 3" Diameter Core In >8" To 10" Concrete	107.04	
For Horizontal Cores, Add	19.24	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	38.48	
02 41 19 13-0123 EA Drill 4" Diameter Core In >8" To 10" Concrete	123.16	
For Horizontal Cores, Add	21.80	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	43.61	
02 41 19 13-0124 EA Drill 6" Diameter Core In >8" To 10" Concrete	171.36	
For Horizontal Cores, Add	30.78	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	61.57	
02 41 19 13-0125 EA Drill 8" Diameter Core In >8" To 10" Concrete	280.27	
For Horizontal Cores, Add	51.30	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	102.60	
02 41 19 13-0126 EA Drill 10" Diameter Core In >8" To 10" Concrete	320.28	
For Horizontal Cores, Add	57.71	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	115.42	
02 41 19 13-0127 EA Drill 12" Diameter Core In >8" To 10" Concrete	358.62	
For Horizontal Cores, Add	64.12	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	128.23	
02 41 19 13-0128 EA Drill 14" Diameter Core In >8" To 10" Concrete	399.66	
For Horizontal Cores, Add	70.53	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	141.06	
02 41 19 13-0129 EA Drill 18" Diameter Core In >8" To 10" Concrete	446.00	
For Horizontal Cores, Add	76.94	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	153.88	
02 41 19 13-0130 >10" To 12" Thick Concrete Core Drilling (02 41 19 13-0081)		
02 41 19 13-0131 EA Drill 1" Diameter Core In >10" To 12" Concrete	82.24	
For Horizontal Cores, Add	14.54	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	29.09	
02 41 19 13-0132 EA Drill 1-1/2" Diameter Core In >10" To 12" Concrete	90.32	
For Horizontal Cores, Add	16.16	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	32.32	
02 41 19 13-0133 EA Drill 2" Diameter Core In >10" To 12" Concrete	99.31	
For Horizontal Cores, Add	17.96	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	35.92	
02 41 19 13-0134 EA Drill 3" Diameter Core In >10" To 12" Concrete	109.32	
For Horizontal Cores, Add	19.24	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	38.48	
02 41 19 13-0135 EA Drill 4" Diameter Core In >10" To 12" Concrete	145.32	
For Horizontal Cores, Add	25.65	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	51.31	
02 41 19 13-0136 EA Drill 6" Diameter Core In >10" To 12" Concrete	187.74	
For Horizontal Cores, Add	33.35	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	66.70	
02 41 19 13-0137 EA Drill 8" Diameter Core In >10" To 12" Concrete	297.90	
For Horizontal Cores, Add	53.87	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	107.74	
02 41 19 13-0138 EA Drill 10" Diameter Core In >10" To 12" Concrete	326.60	
For Horizontal Cores, Add	57.71	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	115.42	
02 41 19 13-0139 EA Drill 12" Diameter Core In >10" To 12" Concrete	379.12	
For Horizontal Cores, Add	66.70	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	133.40	
02 41 19 13-0140 >12" Thick Concrete Core Drilling (02 41 19 13-0081)		
02 41 19 13-0141 IN Drill 1" Diameter Core In >12" Concrete	9.68	
For Horizontal Cores, Add	1.78	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.56	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0142 IN Drill 1-1/2" Diameter Core In >12" Concrete	10.67	
<i>For Horizontal Cores, Add</i>	1.98	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	3.95	
02 41 19 13-0143 IN Drill 2" Diameter Core In >12" Concrete	11.76	
<i>For Horizontal Cores, Add</i>	2.19	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.39	
02 41 19 13-0144 IN Drill 3" Diameter Core In >12" Concrete	13.11	
<i>For Horizontal Cores, Add</i>	2.40	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.81	
02 41 19 13-0145 IN Drill 4" Diameter Core In >12" Concrete	17.44	
<i>For Horizontal Cores, Add</i>	3.20	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	6.41	
02 41 19 13-0146 IN Drill 6" Diameter Core In >12" Concrete	22.60	
<i>For Horizontal Cores, Add</i>	4.17	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	8.34	
02 41 19 13-0147 IN Drill 8" Diameter Core In >12" Concrete	36.08	
<i>For Horizontal Cores, Add</i>	6.74	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	13.48	
02 41 19 13-0148 IN Drill 10" Diameter Core In >12" Concrete	39.39	
<i>For Horizontal Cores, Add</i>	7.24	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	14.49	
02 41 19 13-0149 IN Drill 12" Diameter Core In >12" Concrete	45.52	
<i>For Horizontal Cores, Add</i>	8.34	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	16.69	
02 41 19 13-0150 Brick/Concrete Block Core Drilling (02 41 19 13-0080)		
02 41 19 13-0151 Up To 4" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0152 EA Drill 1" Diameter Core In Up To 4" Brick/Concrete Block	32.09	
<i>For Horizontal Cores, Add</i>	5.82	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	11.64	
02 41 19 13-0153 EA Drill 1-1/2" Diameter Core In Up To 4" Brick/Concrete Block	35.32	
<i>For Horizontal Cores, Add</i>	6.46	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	12.93	
02 41 19 13-0154 EA Drill 2" Diameter Core In Up To 4" Brick/Concrete Block	38.91	
<i>For Horizontal Cores, Add</i>	7.18	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	14.36	
02 41 19 13-0155 EA Drill 3" Diameter Core In Up To 4" Brick/Concrete Block	55.32	
<i>For Horizontal Cores, Add</i>	10.26	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	20.52	
02 41 19 13-0156 EA Drill 4" Diameter Core In Up To 4" Brick/Concrete Block	74.17	
<i>For Horizontal Cores, Add</i>	13.75	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	27.50	
02 41 19 13-0157 EA Drill 6" Diameter Core In Up To 4" Brick/Concrete Block	83.78	
<i>For Horizontal Cores, Add</i>	15.39	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	30.78	
02 41 19 13-0158 EA Drill 8" Diameter Core In Up To 4" Brick/Concrete Block	132.49	
<i>For Horizontal Cores, Add</i>	24.63	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	49.26	
02 41 19 13-0159 EA Drill 10" Diameter Core In Up To 4" Brick/Concrete Block	166.67	
<i>For Horizontal Cores, Add</i>	30.78	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	61.56	
02 41 19 13-0160 EA Drill 12" Diameter Core In Up To 4" Brick/Concrete Block	194.87	
<i>For Horizontal Cores, Add</i>	35.92	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	71.83	
02 41 19 13-0161 EA Drill 14" Diameter Core In Up To 4" Brick/Concrete Block	223.40	
<i>For Horizontal Cores, Add</i>	41.04	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	82.08	
02 41 19 13-0162 EA Drill 18" Diameter Core In Up To 4" Brick/Concrete Block	254.22	
<i>For Horizontal Cores, Add</i>	46.17	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	92.34	
02 41 19 13-0163 >4" To 6" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0164 EA Drill 1" Diameter Core In >4" To 6" Brick/Concrete Block	46.13	
<i>For Horizontal Cores, Add</i>	8.31	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	16.62	
02 41 19 13-0165 EA Drill 1-1/2" Diameter Core In >4" To 6" Brick/Concrete Block	50.75	
<i>For Horizontal Cores, Add</i>	9.23	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	18.46	
02 41 19 13-0166 EA Drill 2" Diameter Core In >4" To 6" Brick/Concrete Block	55.89	
<i>For Horizontal Cores, Add</i>	10.26	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	20.52	
02 41 19 13-0167 EA Drill 3" Diameter Core In >4" To 6" Brick/Concrete Block	67.85	
<i>For Horizontal Cores, Add</i>	12.31	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	24.62	
02 41 19 13-0168 EA Drill 4" Diameter Core In >4" To 6" Brick/Concrete Block	85.29	
<i>For Horizontal Cores, Add</i>	15.39	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	30.78	
02 41 19 13-0169 EA Drill 6" Diameter Core In >4" To 6" Brick/Concrete Block	112.97	
<i>For Horizontal Cores, Add</i>	20.52	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	41.04	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0170 EA Drill 8" Diameter Core In >4" To 6" Brick/Concrete Block	168.07	
For Horizontal Cores, Add	30.78	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	61.56	
02 41 19 13-0171 EA Drill 10" Diameter Core In >4" To 6" Brick/Concrete Block	198.66	
For Horizontal Cores, Add	35.92	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	71.83	
02 41 19 13-0172 EA Drill 12" Diameter Core In >4" To 6" Brick/Concrete Block	228.08	
For Horizontal Cores, Add	41.04	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	82.08	
02 41 19 13-0173 EA Drill 14" Diameter Core In >4" To 6" Brick/Concrete Block	258.64	
For Horizontal Cores, Add	46.17	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	92.34	
02 41 19 13-0174 EA Drill 18" Diameter Core In >4" To 6" Brick/Concrete Block	292.53	
For Horizontal Cores, Add	51.30	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	102.60	
02 41 19 13-0175 >6" To 8" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0176 EA Drill 1" Diameter Core In >6" To 8" Brick/Concrete Block	51.94	
For Horizontal Cores, Add	9.14	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	18.28	
02 41 19 13-0177 EA Drill 1-1/2" Diameter Core In >6" To 8" Brick/Concrete Block	57.02	
For Horizontal Cores, Add	10.16	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	20.32	
02 41 19 13-0178 EA Drill 2" Diameter Core In >6" To 8" Brick/Concrete Block	62.67	
For Horizontal Cores, Add	11.29	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	22.58	
02 41 19 13-0179 EA Drill 3" Diameter Core In >6" To 8" Brick/Concrete Block	75.27	
For Horizontal Cores, Add	13.34	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	26.68	
02 41 19 13-0180 EA Drill 4" Diameter Core In >6" To 8" Brick/Concrete Block	98.46	
For Horizontal Cores, Add	17.44	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	34.89	
02 41 19 13-0181 EA Drill 6" Diameter Core In >6" To 8" Brick/Concrete Block	137.04	
For Horizontal Cores, Add	24.63	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	49.26	
02 41 19 13-0182 EA Drill 8" Diameter Core In >6" To 8" Brick/Concrete Block	224.16	
For Horizontal Cores, Add	41.04	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	82.08	
02 41 19 13-0183 EA Drill 10" Diameter Core In >6" To 8" Brick/Concrete Block	256.24	
For Horizontal Cores, Add	46.17	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	92.34	
02 41 19 13-0184 EA Drill 12" Diameter Core In >6" To 8" Brick/Concrete Block	286.97	
For Horizontal Cores, Add	51.30	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	102.60	
02 41 19 13-0185 EA Drill 14" Diameter Core In >6" To 8" Brick/Concrete Block	319.53	
For Horizontal Cores, Add	56.42	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	112.85	
02 41 19 13-0186 EA Drill 18" Diameter Core In >6" To 8" Brick/Concrete Block	356.49	
For Horizontal Cores, Add	61.57	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	123.13	
02 41 19 13-0187 >8" To 10" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0188 EA Drill 1" Diameter Core In >8" To 10" Brick/Concrete Block	61.89	
For Horizontal Cores, Add	10.80	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	21.61	
02 41 19 13-0189 EA Drill 1-1/2" Diameter Core In >8" To 10" Brick/Concrete Block	67.90	
For Horizontal Cores, Add	12.01	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	24.01	
02 41 19 13-0190 EA Drill 2" Diameter Core In >8" To 10" Brick/Concrete Block	74.56	
For Horizontal Cores, Add	13.34	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	26.68	
02 41 19 13-0191 EA Drill 3" Diameter Core In >8" To 10" Brick/Concrete Block	87.80	
For Horizontal Cores, Add	15.39	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	30.78	
02 41 19 13-0192 EA Drill 4" Diameter Core In >8" To 10" Brick/Concrete Block	101.36	
For Horizontal Cores, Add	17.44	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	34.89	
02 41 19 13-0193 EA Drill 6" Diameter Core In >8" To 10" Brick/Concrete Block	140.58	
For Horizontal Cores, Add	24.63	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	49.26	
02 41 19 13-0194 EA Drill 8" Diameter Core In >8" To 10" Brick/Concrete Block	228.96	
For Horizontal Cores, Add	41.04	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	82.08	
02 41 19 13-0195 EA Drill 10" Diameter Core In >8" To 10" Brick/Concrete Block	262.56	
For Horizontal Cores, Add	46.17	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	92.34	
02 41 19 13-0196 EA Drill 12" Diameter Core In >8" To 10" Brick/Concrete Block	294.50	
For Horizontal Cores, Add	51.29	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	102.58	
02 41 19 13-0197 EA Drill 14" Diameter Core In >8" To 10" Brick/Concrete Block	329.14	
For Horizontal Cores, Add	56.42	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	112.85	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0198 EA Drill 18" Diameter Core In >8" To 10" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	369.06 61.55 123.10	
02 41 19 13-0199 >10" To 12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0200 EA Drill 1" Diameter Core In >10" To 12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	67.70 11.64 23.27	
02 41 19 13-0201 EA Drill 1-1/2" Diameter Core In >10" To 12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	74.16 12.93 25.86	
02 41 19 13-0202 EA Drill 2" Diameter Core In >10" To 12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	81.35 14.37 28.73	
02 41 19 13-0203 EA Drill 3" Diameter Core In >10" To 12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	90.08 15.39 30.78	
02 41 19 13-0204 EA Drill 4" Diameter Core In >10" To 12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	119.66 20.52 41.04	
02 41 19 13-0205 EA Drill 6" Diameter Core In >10" To 12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	154.39 26.68 53.36	
02 41 19 13-0206 EA Drill 8" Diameter Core In >10" To 12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	244.04 43.10 86.19	
02 41 19 13-0207 EA Drill 10" Diameter Core In >10" To 12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	268.88 46.17 92.34	
02 41 19 13-0208 EA Drill 12" Diameter Core In >10" To 12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	312.42 53.36 106.72	
02 41 19 13-0209 >12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0210 IN Drill 1" Diameter Core In >12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	7.90 1.42 2.84	
02 41 19 13-0211 IN Drill 1-1/2" Diameter Core In >12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	8.70 1.58 3.16	
02 41 19 13-0212 IN Drill 2" Diameter Core In >12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	9.57 1.76 3.51	
02 41 19 13-0213 IN Drill 3" Diameter Core In >12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	10.71 1.92 3.85	
02 41 19 13-0214 IN Drill 4" Diameter Core In >12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	14.24 2.56 5.13	
02 41 19 13-0215 IN Drill 6" Diameter Core In >12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	18.43 3.34 6.67	
02 41 19 13-0216 IN Drill 8" Diameter Core In >12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	29.34 5.39 10.78	
02 41 19 13-0217 IN Drill 10" Diameter Core In >12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	32.15 5.80 11.59	
02 41 19 13-0218 IN Drill 12" Diameter Core In >12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	37.16 6.67 13.34	
02 41 19 13-0219 Asphalt Core Drilling (02 41 19 13-0080)		
02 41 19 13-0220 Up To 2" Thick Asphalt Core Drilling (02 41 19 13-0219)		
02 41 19 13-0221 EA Drill 1" Diameter Core In Up To 2" Asphalt 02 41 19 13-0222 EA Drill 1-1/2" Diameter Core In Up To 2" Asphalt 02 41 19 13-0223 EA Drill 2" Diameter Core In Up To 2" Asphalt 02 41 19 13-0224 EA Drill 3" Diameter Core In Up To 2" Asphalt 02 41 19 13-0225 EA Drill 4" Diameter Core In Up To 2" Asphalt 02 41 19 13-0226 EA Drill 6" Diameter Core In Up To 2" Asphalt 02 41 19 13-0227 EA Drill 8" Diameter Core In Up To 2" Asphalt 02 41 19 13-0228 EA Drill 10" Diameter Core In Up To 2" Asphalt 02 41 19 13-0229 EA Drill 12" Diameter Core In Up To 2" Asphalt	18.13 22.72 28.39 35.28 44.45 55.87 69.80 86.69 108.21	
02 41 19 13-0230 >2" To 3" Thick Asphalt Core Drilling (02 41 19 13-0219)		
02 41 19 13-0231 EA Drill 1" Diameter Core In >2" To 3" Asphalt 02 41 19 13-0232 EA Drill 1-1/2" Diameter Core In >2" To 3" Asphalt 02 41 19 13-0233 EA Drill 2" Diameter Core In >2" To 3" Asphalt 02 41 19 13-0234 EA Drill 3" Diameter Core In >2" To 3" Asphalt	22.66 29.42 36.20 45.35	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0235 EA Drill 4" Diameter Core In >2" To 3" Asphalt.....	56.79	
02 41 19 13-0236 EA Drill 6" Diameter Core In >2" To 3" Asphalt.....	71.55	
02 41 19 13-0237 EA Drill 8" Diameter Core In >2" To 3" Asphalt.....	88.91	
02 41 19 13-0238 EA Drill 10" Diameter Core In >2" To 3" Asphalt.....	111.39	
02 41 19 13-0239 EA Drill 12" Diameter Core In >2" To 3" Asphalt.....	138.50	
02 41 19 13-0240 >3" To 4" Thick Asphalt Core Drilling (02 41 19 13-0219)		
02 41 19 13-0241 EA Drill 1" Diameter Core In >3" To 4" Asphalt.....	29.49	
02 41 19 13-0242 EA Drill 1-1/2" Diameter Core In >3" To 4" Asphalt.....	37.48	
02 41 19 13-0243 EA Drill 2" Diameter Core In >3" To 4" Asphalt.....	46.53	
02 41 19 13-0244 EA Drill 3" Diameter Core In >3" To 4" Asphalt.....	58.00	
02 41 19 13-0245 EA Drill 4" Diameter Core In >3" To 4" Asphalt.....	72.97	
02 41 19 13-0246 EA Drill 6" Diameter Core In >3" To 4" Asphalt.....	91.23	
02 41 19 13-0247 EA Drill 8" Diameter Core In >3" To 4" Asphalt.....	114.44	
02 41 19 13-0248 EA Drill 10" Diameter Core In >3" To 4" Asphalt.....	142.62	
02 41 19 13-0249 EA Drill 12" Diameter Core In >3" To 4" Asphalt.....	177.72	
02 41 19 13-0250 >4" To 6" Thick Asphalt Core Drilling (02 41 19 13-0219)		
02 41 19 13-0251 EA Drill 1" Diameter Core In >4" To 6" Asphalt.....	38.76	
02 41 19 13-0252 EA Drill 1-1/2" Diameter Core In >4" To 6" Asphalt.....	48.00	
02 41 19 13-0253 EA Drill 2" Diameter Core In >4" To 6" Asphalt.....	59.35	
02 41 19 13-0254 EA Drill 3" Diameter Core In >4" To 6" Asphalt.....	75.61	
02 41 19 13-0255 EA Drill 4" Diameter Core In >4" To 6" Asphalt.....	94.14	
02 41 19 13-0256 EA Drill 6" Diameter Core In >4" To 6" Asphalt.....	117.14	
02 41 19 13-0257 EA Drill 8" Diameter Core In >4" To 6" Asphalt.....	147.59	
02 41 19 13-0258 EA Drill 10" Diameter Core In >4" To 6" Asphalt.....	183.78	
02 41 19 13-0259 EA Drill 12" Diameter Core In >4" To 6" Asphalt.....	229.34	
02 41 19 13-0260 Manhole Core Drilling (02 41 19 13-0080)		
02 41 19 13-0261 EA Drill 4" Diameter Core In 6" Brick Manhole.....	198.01	
02 41 19 13-0262 EA Drill 5" Diameter Core In 6" Brick Manhole.....	226.20	
02 41 19 13-0263 EA Drill 6" Diameter Core In 6" Brick Manhole.....	263.46	
02 41 19 13-0264 EA Drill 8" Diameter Core In 6" Brick Manhole.....	394.27	
02 41 19 13-0265 EA Drill 2" Diameter Core In 8" Concrete Manhole.....	264.18	
02 41 19 13-0266 EA Drill 3" Diameter Core In 8" Concrete Manhole.....	282.99	
02 41 19 13-0267 EA Drill 4" Diameter Core In 8" Concrete Manhole.....	313.10	
02 41 19 13-0268 EA Drill 5" Diameter Core In 8" Concrete Manhole.....	336.39	
02 41 19 13-0269 EA Drill 6" Diameter Core In 8" Concrete Manhole.....	398.08	
02 41 19 13-0270 EA Drill 8" Diameter Core In 8" Concrete Manhole.....	567.79	
02 41 19 13-0271 EA Drill 2" Diameter Core In Fiberglass Manhole.....	25.81	
02 41 19 13-0272 EA Drill 3" Diameter Core In Fiberglass Manhole.....	29.82	
02 41 19 13-0273 EA Drill 4" Diameter Core In Fiberglass Manhole.....	32.36	
02 41 19 13-0274 EA Drill 5" Diameter Core In Fiberglass Manhole.....	35.31	
02 41 19 13-0275 EA Drill 6" Diameter Core In Fiberglass Manhole.....	38.85	
02 41 19 13-0276 EA Drill 8" Diameter Core In Fiberglass Manhole.....	43.21	
02 41 19 13-0277 Drilling In Concrete Per Inch Of Depth (02 41 19 13-0080)		
Note: Includes layout.		
02 41 19 13-0278 IN 1/4" Diameter Drilling In Concrete Per Inch Of Depth.....	1.99	
02 41 19 13-0279 IN 3/8" Diameter Drilling In Concrete Per Inch Of Depth.....	2.09	
02 41 19 13-0280 IN 1/2" Diameter Drilling In Concrete Per Inch Of Depth.....	2.23	
02 41 19 13-0281 IN 5/8" Diameter Drilling In Concrete Per Inch Of Depth.....	2.38	
02 41 19 13-0282 IN 3/4" Diameter Drilling In Concrete Per Inch Of Depth.....	2.61	
02 41 19 13-0283 IN 7/8" Diameter Drilling In Concrete Per Inch Of Depth.....	2.83	
02 41 19 13-0284 IN 1" Diameter Drilling In Concrete Per Inch Of Depth.....	2.98	
02 41 19 13-0285 IN 1-1/4" Diameter Drilling In Concrete Per Inch Of Depth.....	3.29	
02 41 19 13-0286 IN 1-1/2" Diameter Drilling In Concrete Per Inch Of Depth.....	3.72	
02 41 19 13-0287 Drilling In Brick/Concrete Block Per Inch Of Depth (02 41 19 13-0080)		
Note: Includes layout.		
02 41 19 13-0288 IN 1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	1.66	
02 41 19 13-0289 IN 3/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	1.75	
02 41 19 13-0290 IN 1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	1.87	
02 41 19 13-0291 IN 5/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.00	
02 41 19 13-0292 IN 3/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.18	
02 41 19 13-0293 IN 7/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.37	
02 41 19 13-0294 IN 1" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.50	
02 41 19 13-0295 IN 1-1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.76	
02 41 19 13-0296 IN 1-1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	3.22	
02 41 19 13-0297 Drilling In Wood Or Plastic Per Inch Of Depth (02 41 19 13-0080)		
Note: Includes layout.		
02 41 19 13-0298 IN 1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.81	
02 41 19 13-0299 IN 3/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.86	
02 41 19 13-0300 IN 1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.92	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				02 41 19 13-0301 IN 5/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	.098	
				02 41 19 13-0302 IN 3/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.07	
				02 41 19 13-0303 IN 7/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.16	
				02 41 19 13-0304 IN 1" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.23	
				02 41 19 13-0305 IN 1-1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.36	
				02 41 19 13-0306 IN 1-1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.55	
02 41 19 13-0307				Limestone Core Drilling (02 41 19 13-0080)		
02 41 19 13-0308				10" To 14" Thick Limestone Core Drilling (02 41 19 13-0307)		
			EA	02 41 19 13-0309 Drill 1" Diameter Core In 10" To 14" Limestone.....	58.81	
			EA	02 41 19 13-0310 Drill 1-1/2" Diameter Core In 10" To 14" Limestone.....	70.98	
			EA	02 41 19 13-0311 Drill 2" Diameter Core In 10" To 14" Limestone.....	77.64	
			EA	02 41 19 13-0312 Drill 3" Diameter Core In 10" To 14" Limestone.....	91.01	
			EA	02 41 19 13-0313 Drill 4" Diameter Core In 10" To 14" Limestone.....	104.60	
			EA	02 41 19 13-0314 Drill 6" Diameter Core In 10" To 14" Limestone.....	145.67	
			EA	02 41 19 13-0315 Drill 8" Diameter Core In 10" To 14" Limestone.....	238.54	
02 41 19 13-0316				15" To 18" Thick Limestone Core Drilling (02 41 19 13-0307)		
			EA	02 41 19 13-0317 Drill 1" Diameter Core In 15" To 18" Limestone.....	65.10	
			EA	02 41 19 13-0318 Drill 1-1/2" Diameter Core In 15" To 18" Limestone.....	77.52	
			EA	02 41 19 13-0319 Drill 2" Diameter Core In 15" To 18" Limestone.....	84.44	
			EA	02 41 19 13-0320 Drill 3" Diameter Core In 15" To 18" Limestone.....	92.83	
			EA	02 41 19 13-0321 Drill 4" Diameter Core In 15" To 18" Limestone.....	123.40	
			EA	02 41 19 13-0322 Drill 6" Diameter Core In 15" To 18" Limestone.....	159.46	
			EA	02 41 19 13-0323 Drill 8" Diameter Core In 15" To 18" Limestone.....	253.46	
02 41 19 13-0324				19" To 24" Thick Limestone Core Drilling (02 41 19 13-0307)		
			EA	02 41 19 13-0325 Drill 1" Diameter Core In 19" To 24" Limestone.....	71.30	
			EA	02 41 19 13-0326 Drill 1-1/2" Diameter Core In 19" To 24" Limestone.....	83.93	
			EA	02 41 19 13-0327 Drill 2" Diameter Core In 19" To 24" Limestone.....	91.09	
			EA	02 41 19 13-0328 Drill 3" Diameter Core In 19" To 24" Limestone.....	105.36	
			EA	02 41 19 13-0329 Drill 4" Diameter Core In 19" To 24" Limestone.....	147.41	
			EA	02 41 19 13-0330 Drill 6" Diameter Core In 19" To 24" Limestone.....	183.95	
			EA	02 41 19 13-0331 Drill 8" Diameter Core In 19" To 24" Limestone.....	273.51	
02 41 19 13-0332				Minimum Charge For Core Drilling (02 41 19 13-0080)		
			EA	02 41 19 13-0333 Core Drill Minimum Charge.....	716.91	
				Note: For projects where the total core drilling charge is less than the minimum charge, use task "Minimum Charge For Core Drilling" exclusively. Task "Minimum Charge For Core Drilling" should not be used in conjunction with any other tasks in this section. Does not apply to sections "Drilling In Concrete Per Inch Of Depth" or "Drilling In Brick Or Block Per Inch Of Depth".		
02 41 19 13-0334				Cutouts (02 41 19 13)		
				Note: Includes saw cutting and removal of material. Not to be used for openings greater than 24 SF.		
02 41 19 13-0335				Reinforced Concrete Slab On Grade Cutouts (02 41 19 13-0334)		
			SF	02 41 19 13-0336 4" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	43.03	
			SF	02 41 19 13-0337 6" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	45.63	
			SF	02 41 19 13-0338 8" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	48.24	
			SF	02 41 19 13-0339 10" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	50.85	
			SF	02 41 19 13-0340 12" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	52.15	
02 41 19 13-0341				Reinforced Concrete Elevated Slab Cutouts (02 41 19 13-0334)		
				Note: Includes cutting and removing steel decking.		
			SF	02 41 19 13-0342 4" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	52.43	
			SF	02 41 19 13-0343 6" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	55.61	
			SF	02 41 19 13-0344 8" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	58.79	
			SF	02 41 19 13-0345 10" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	61.97	
			SF	02 41 19 13-0346 12" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	63.56	
02 41 19 13-0347				Reinforced Concrete Wall Cutouts (02 41 19 13-0334)		
			SF	02 41 19 13-0348 4" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	53.78	
			SF	02 41 19 13-0349 6" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	57.05	
			SF	02 41 19 13-0350 8" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	60.30	
			SF	02 41 19 13-0351 10" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	63.56	
			SF	02 41 19 13-0352 12" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	65.19	
02 41 19 13-0353				Brick Wall Cutouts (02 41 19 13-0334)		
				Note: Excludes tothing.		
			SF	02 41 19 13-0354 4" Thick Brick Wall Cutouts, <24 SF.....	16.30	
			SF	02 41 19 13-0355 6" Thick Brick Wall Cutouts, <24 SF.....	26.89	
			SF	02 41 19 13-0356 8" Thick Brick Wall Cutouts, <24 SF.....	37.45	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0357 SF 10" Thick Brick Wall Cutouts, <24 SF	45.63	
02 41 19 13-0358 SF 12" Thick Brick Wall Cutouts, <24 SF	54.59	
02 41 19 13-0359 SF 16" Thick Brick Wall Cutouts, <24 SF	64.37	
02 41 19 13-0360 Concrete Block Wall Cutouts (02 41 19 13-0334)		
Note: Excludes toothing.		
02 41 19 13-0361 SF 4" Thick Concrete Block Wall Cutouts, <24 SF	26.96	
02 41 19 13-0362 SF 6" Thick Concrete Block Wall Cutouts, <24 SF	28.55	
02 41 19 13-0363 SF 8" Thick Concrete Block Wall Cutouts, <24 SF	30.15	
02 41 19 13-0364 SF 10" Thick Concrete Block Wall Cutouts, <24 SF	31.78	
02 41 19 13-0365 SF 12" Thick Concrete Block Wall Cutouts, <24 SF	32.60	
02 41 19 13-0366 SF 16" Thick Concrete Block Wall Cutouts, <24 SF	34.23	
02 41 19 13-0367 Limestone Cutouts (02 41 19 13-0334)		
02 41 19 13-0368 SF 2" Thick Limestone Cutouts, <24 SF	45.63	
02 41 19 13-0369 SF 4" Thick Limestone Cutouts, <24 SF	55.41	
02 41 19 13-0370 SF 6" Thick Limestone Cutouts, <24 SF	58.67	
02 41 19 13-0371 SF 8" Thick Limestone Cutouts, <24 SF	61.93	
02 41 19 13-0372 SF 10" Thick Limestone Cutouts, <24 SF	65.19	
02 41 19 13-0373 SF 12" Thick Limestone Cutouts, <24 SF	68.45	
02 41 19 13-0374 Toothing Masonry Cutouts (02 41 19 13-0334)		
Note: For use where existing masonry must be removed in a toothing pattern along horizontal and vertical mortar joints. VLF measurement includes all horizontal cutting.		
02 41 19 13-0375 VLF Brick, Soft Old Mortar, Toothing Masonry Cutouts	16.30	
02 41 19 13-0376 VLF Brick, Hard Mortar, Toothing Masonry Cutouts	22.01	
02 41 19 13-0377 VLF Concrete Block, Soft Old Mortar, Toothing Masonry Cutouts	9.78	
02 41 19 13-0378 VLF Concrete Block, Hard Mortar, Toothing Masonry Cutouts	13.04	
02 41 19 13-0379 Minimum Charge For Cutouts (02 41 19 13-0334)		
Note: For projects where the total cutouts charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0380 EA Cutouts Minimum Charge	325.94	
02 43 Structure Moving (02 40)		
02 43 13 Structure Relocation (02 43)		
Note: Includes disconnection of utilities, moving of structure, one day move (excludes travel expenses and lodging), up to 24' wide. Reset on new foundations and hook up to utilities.		
02 43 13 13 Building Relocation (02 43 13)		
02 43 13 13-0001 Move Relocatable Structures (Trailer, Mobile Facilities, etc.), Complete (02 43 13)		
Note: Includes disconnect portable from foundation, separate relocatable unit and attachments as needed for transport, secure all relocatable attachments (awnings, steps, ramps, railing, etc.) for transport, transport relocatable and attachments to new location, including permits and police escort, connect to foundation per approved specifications/details, including welding and/or hurricane anchoring as needed.		
02 43 13 13-0002 SF Up To 800 SF, Move Relocatable Metal Frame Building	31.39	
02 43 13 13-0003 SF >800 To 920 SF, Move Relocatable Metal Frame Building	29.67	
02 43 13 13-0004 SF >920 SF, Move Relocatable Metal Frame Building	27.77	
02 43 13 13-0005 SF Up To 800 SF, Move Relocatable Wood Frame Building	25.19	
02 43 13 13-0006 SF >800 To 920 SF, Move Relocatable Wood Frame Building	23.55	
02 43 13 13-0007 SF >920 SF, Move Relocatable Wood Frame Building	20.83	
02 43 13 13-0008 SF Up To 800 SF, Move Relocatable Wood/Metal Frame Building	30.51	
02 43 13 13-0009 SF >800 To 920 SF, Move Relocatable Wood/Metal Frame Building	27.77	
02 43 13 13-0010 SF >920 SF, Move Relocatable Wood/Metal Frame Building	23.55	
02 60 Contaminated Site Material Removal (02)		
02 61 Removal and Disposal of Contaminated Soils (02 60)		
02 61 13 Excavation and Handling of Contaminated Material (02 61)		
See CSI section 31 23 16 00-0000 for excavation.		
02 61 13 00-0001 Excavation Of Non-Petroleum Contaminated Soil (02 61 13)		
See CSI section 02 65 00 00-0001 for testing, 02 65 00 00-0006 for testing, 31 23 16 00-0000 for excavation of non-contaminated soil, 31 23 16 33-0019 for loading non-petroleum contaminated material onto trucks for removal.		
02 61 13 00-0002 Excavate Non-Petroleum Contaminated Soil (02 61 13 00-0001)		
02 61 13 00-0003 CY Excavate Non Petroleum Contaminated Soil	8.16	
Note: Includes excavation, making a determination if the soil is reusable or contaminated, and stockpiling as per determination.		
02 61 13 00-0004 CY Load Excavated Non-Petroleum Contaminated Soil	7.18	
02 61 13 00-0005 CY Disposal Fees Of Non-Petroleum Contaminated Soil	38.20	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 61 13 00-0006 Excavate Petroleum Contaminated Soil (02 61 13)						
	02 61	13	00-0007	CY Excavate Petroleum Contaminated Soil.....12.25 Note: Includes excavation, making a determination if the soil is reusable or contaminated, and stockpiling as per determination.	12.25	
	02 61	13	00-0008	CY Load Excavated Petroleum Contaminated Soil.....7.18	7.18	
	02 61	13	00-0009	CY Disposal Fees Of Petroleum Contaminated Soil .....61.20	61.20	
02 61 13 00-0010 Accessories For Contaminated Soil Stockpile (02 61 13)						
	See CSI section 31 25 14 23-0001 for sand bags.					
	02 61	13	00-0011	SF 30 Mil Liner For Contaminated Soil Storage .....1.18 Note: 9.93 SF of liner per 1 ton of petroleum contaminated soil.	1.18	
	02 61	13	00-0012	SF 10 Mil Liner For Contaminated Soil Storage .....0.70 Note: 9.93 SF of liner per 1 ton of petroleum contaminated soil.	0.70	
02 61 26 Removal and Disposal of Asbestos Contaminated Soils (02 61)						
Note: Tasks include materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.						
02 61 26 00-0001 Removal and Disposal of Asbestos Contaminated Soils (02 61 26)						
Note: Tasks include materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.						
	02 61	26	00-0002	EA Up To 10 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....878.57 <i>For Work In Restricted Working Space, Add</i> 263.57	878.57	
	02 61	26	00-0003	CF >10 To 100 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal .....58.23 <i>For Work In Restricted Working Space, Add</i> 17.47	58.23	
	02 61	26	00-0004	CF >100 To 250 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal .....38.82 <i>For Work In Restricted Working Space, Add</i> 11.65	38.82	
	02 61	26	00-0005	CF >250 To 500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal .....29.16 <i>For Work In Restricted Working Space, Add</i> 8.75	29.16	
	02 61	26	00-0006	CF >500 To 2,500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal .....23.30 <i>For Work In Restricted Working Space, Add</i> 6.99	23.30	
	02 61	26	00-0007	CF >2,500 To 10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal .....19.80 <i>For Work In Restricted Working Space, Add</i> 5.94	19.80	
	02 61	26	00-0008	CF >10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal .....17.82 <i>For Work In Restricted Working Space, Add</i> 5.35	17.82	
02 62 Hazardous Waste Recovery Process (02 60)						
02 62 16 Soil Vapor Extraction (02 62)						
	02 62	16	00-0001	Active And Passive Trench System (02 62 16)		
	02 62	16	00-0002	Leachate And Gas Transfer Pipe (02 62 16 00-0001)		
	02 62	16	00-0003	High Density Polyethylene Pipe, Laterals (02 62 16 00-0002)		
Note: Heat fusion connections with pipe and fittings.						
	02 62	16	00-0004	LF 3" Diameter High Density Polyethylene Pipe - SDR 17 With Fittings .....15.21	15.21	
	02 62	16	00-0005	LF 4" Diameter High Density Polyethylene Pipe - SDR 17 With Fittings .....17.52	17.52	
	02 62	16	00-0006	LF 6" Diameter High Density Polyethylene Pipe - SDR 17 With Fittings .....23.12	23.12	
	02 62	16	00-0007	LF 8" Diameter High Density Polyethylene Pipe - SDR 17 With Fittings .....32.82	32.82	
	02 62	16	00-0008	LF 10" Diameter High Density Polyethylene Pipe - SDR 17 With Fittings .....43.04	43.04	
	02 62	16	00-0009	LF 12" Diameter High Density Polyethylene Pipe - SDR 17 With Fittings .....54.61	54.61	
	02 62	16	00-0010	EA Monitoring And Control Assembly .....1,957.15	1,957.15	
	02 62	16	00-0011	EA 3" Header Valve Assembly .....900.49	900.49	
	02 62	16	00-0012	EA 4" Header Valve Assembly .....1,391.05	1,391.05	
	02 62	16	00-0013	EA 6" Header Valve Assembly .....2,039.63	2,039.63	
	02 62	16	00-0014	EA 8" Header Valve Assembly .....2,987.94	2,987.94	
	02 62	16	00-0015	EA Condensate Sump Assembly .....19,738.09	19,738.09	
	02 62	16	00-0016	EA Header Monitoring Port Assembly .....1,115.50	1,115.50	
	02 62	16	00-0017	Chemical Resistant Sump And Manhole (02 62 16 00-0001)		
	02 62	16	00-0018	High Density Polyethylene Manholes (02 62 16 00-0017)		
	02 62	16	00-0019	EA 27" Diameter Concrete Filled Polyethylene Lid Stainless Steel Handle .....246.28	246.28	
	02 62	16	00-0020	EA 4" Diameter, 2" High Riser Section With Or Without Steps .....460.83	460.83	
	02 62	16	00-0021	EA 3.25" High x 4" Diameter Upper Unit With Or Without Steps .....824.55	824.55	
	02 62	16	00-0022	EA 4.25" High x 4" Diameter Upper Unit With Or Without Steps .....968.33	968.33	
	02 62	16	00-0023	EA 3" High x 4" Diameter Manhole Base - No Outlets .....829.98	829.98	
	02 62	16	00-0024	EA 12" Inlet/Outlet - Factory Attached .....250.75	250.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 62 16 00-0025 EA 15" Inlet/Outlet - Factory Attached	386.70	
02 62 16 00-0026 EA 18" Inlet/Outlet - Factory Attached	428.13	
02 62 16 00-0027 EA 24" Inlet/Outlet - Factory Attached	506.21	
02 62 16 00-0028 EA 30" Inlet/Outlet - Factory Attached	577.57	
02 62 16 00-0029 EA 36" Inlet/Outlet - Factory Attached	677.87	
02 62 16 00-0030 EA 4" Inlet Gasket - To Attach Leachate Transport Pipe	11.88	
02 62 16 00-0031 EA 6" Inlet Gasket - To Attach Leachate Transport Pipe	15.85	
02 62 16 00-0032 EA 8" Inlet Gasket - To Attach Leachate Transport Pipe	19.80	
02 62 16 00-0033 EA 10" Inlet Gasket - To Attach Leachate Transport Pipe	29.68	
02 62 16 00-0034 EA 12" Inlet Gasket - To Attach Leachate Transport Pipe	37.61	
02 62 16 00-0035 EA Additional Penetrations Into Manhole	237.16	
02 62 16 00-0036 High Density Polyethylene Sumps (02 62 16 00-0017)		
02 62 16 00-0037 EA 42" Diameter Riser Sump With 30" Or 22-1/2" Diameter Neck	2,061.05	
02 62 16 00-0038 EA 2" Riser Sump Extension - 22-1/2" Or 30" Diameter	807.20	
02 62 16 00-0039 EA 48" Sump Base	500.47	
02 62 16 00-0040 EA 30" Sump Cover	362.13	
02 62 16 00-0041 EA 22" Sump Cover	332.49	
02 62 16 00-0042 EA Riser Sump To Base Seal	332.49	
02 62 16 00-0043 EA Riser Sump To Extension Seal	261.34	
02 62 16 00-0044 EA 2" Conduit Grommet - Box Of 6	538.86	
02 62 16 00-0045 EA 4" Conduit Grommet - Box Of 6	666.64	
02 62 16 00-0046 EA 6" Conduit Grommet - Box Of 6	807.79	
02 62 16 00-0047 Leachate And Gas Collection Pipe (02 62 16 00-0001)		
02 62 16 00-0048 Slotted Polyvinyl Chloride (PVC) (02 62 16 00-0047)		
Note: Number of rows of slots, slot spacing and slot width can vary to give required outside diameter intake area. Slot width and spacing varies.		
02 62 16 00-0049 LF 2" Diameter, Schedule 40, 2 To 3 Rows Of Slots	7.37	
02 62 16 00-0050 LF 4" Diameter, Schedule 40, 2 To 4 Rows Of Slots	10.91	
02 62 16 00-0051 LF 6" Diameter, Schedule 40, 2 To 6 Rows Of Slots	15.62	
02 62 16 00-0052 LF 8" Diameter, Schedule 40, 2 To 6 Rows Of Slots	24.51	
02 62 16 00-0053 LF 10" Diameter, Schedule 40, 2 To 8 Rows Of Slots	35.24	
02 62 16 00-0054 LF 12" Diameter, Schedule 40, 2 To 10 Rows Of Slots	50.96	
02 62 16 00-0055 Sheet Drainage Systems (02 62 16)		
Note: Made of 2 sets of parallel strands. Intersecting strands form two overlaid sets of continuous deep channels.		
02 62 16 00-0056 Drainage Nets And Composites (02 62 16 00-0055)		
02 62 16 00-0057 Polyethylene Drainage Nets (02 62 16 00-0056)		
02 62 16 00-0058 SF Drainage Net - 1/4" Thick High Density Polyethylene	0.64	
02 62 16 00-0059 SF Drainage Net With Geotextile Fabric Heat Bonded To One Side	2.15	
02 62 16 00-0060 SF Drainage Net With Geotextile Fabric Heat Bonded To Both Sides	2.49	
02 62 16 00-0061 Gas Interception Networks (02 62 16)		
02 62 16 00-0062 Gas Treatment (02 62 16 00-0061)		
02 62 16 00-0063 Flares (02 62 16 00-0062)		
Note: These are basic flare prices and exclude controls and auxiliary equipment. The basic price will be approximately 25% of the total cost of the unit complete with controls, auxiliary equipment, piping, setup, etc.		
02 62 16 00-0064 EA 2.25 Million BTU/Hour Landfill Flare	49,615.47	
02 62 16 00-0065 EA 7.5 Million BTU/Hour Landfill Flare	63,145.68	
02 62 16 00-0066 EA 10.5 Million BTU/Hour Landfill Flare	82,944.52	
02 62 16 00-0067 EA 22.5 Million BTU/Hour Landfill Flare	167,308.95	
02 62 16 00-0068 EA 30 Million BTU/Hour Landfill Flare	194,086.76	
02 62 16 00-0069 EA 36 Million BTU/Hour Landfill Flare	221,816.35	
02 62 16 00-0070 Gas Scrubbers (02 62 16 00-0061)		
02 62 16 00-0071 Single Stage Gas Scrubbers (02 62 16 00-0070)		
Note: Unit is flange to flange, carbon steel construction. Includes ecosphere packing (HDPE), mist eliminator section, internal spray nozzle, access doors and differential pressure gauge.		
02 62 16 00-0072 EA 1,500 CFM Fluidized Bed Gas Scrubber - Single Stage	41,224.61	
02 62 16 00-0073 EA 4,400 CFM Fluidized Bed Gas Scrubber - Single Stage	56,267.15	
02 62 16 00-0074 EA 5,800 CFM Fluidized Bed Gas Scrubber - Single Stage	59,772.74	
02 62 16 00-0075 EA 7,700 CFM Fluidized Bed Gas Scrubber - Single Stage	64,503.79	
02 62 16 00-0076 EA 9,600 CFM Fluidized Bed Gas Scrubber - Single Stage	70,045.49	
02 62 16 00-0077 EA 12,000 CFM Fluidized Bed Gas Scrubber - Single Stage	74,532.74	
02 62 16 00-0078 EA 17,000 CFM Fluidized Bed Gas Scrubber - Single Stage	80,723.81	
02 62 16 00-0079 EA 23,600 CFM Fluidized Bed Gas Scrubber - Single Stage	86,871.42	
02 62 16 00-0080 EA 30,200 CFM Fluidized Bed Gas Scrubber - Single Stage	92,493.60	
02 62 16 00-0081 EA 38,700 CFM Fluidized Bed Gas Scrubber - Single Stage	104,977.06	
02 62 16 00-0082 EA 47,200 CFM Fluidized Bed Gas Scrubber - Single Stage	119,319.26	
02 62 16 00-0083 EA 58,000 CFM Fluidized Bed Gas Scrubber - Single Stage	128,958.17	
02 62 16 00-0084 EA 79,700 CFM Fluidized Bed Gas Scrubber - Single Stage	147,013.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 62 16 00-0085 EA 90,900 CFM Fluidized Bed Gas Scrubber - Single Stage	154,637.34	
02 62 16 00-0086 EA 113,300 CFM Fluidized Bed Gas Scrubber - Single Stage	166,898.93	
02 62 16 00-0087 EA 3,000 CFM Fluidized Bed Gas Scrubber - Single Stage	52,628.47	
02 62 16 00-0088 Gas Collection (02 62 16 00-0061)		
02 62 16 00-0089 Vacuum Blowers (02 62 16 00-0088)		
Note: Aluminum wheel with clean-out door, drain and plug. 60 Hertz, 230/460V, 3600 rpm, TEFC, 184T. As manufactured by New York Blower Fans.		
02 62 16 00-0090 EA 5 HP New York Blower, Pressure Blower Size 2204, Arrangement 4 3 Phase, 60 Hertz, 230/460 Volt, 3,600 rpm, TEFC, 184T	4,295.57	
For Silencer Option, Add	360.00	
02 62 16 00-0091 EA 5 HP New York Blower, Pressure Blower Size 2206, Arrangement 4 3 Phase, 60 Hertz, 230/460 Volt, 3,600 rpm, TEFC, 184T	4,308.49	
For Silencer Option, Add	386.00	
02 62 16 00-0092 EA 5 HP New York Blower, Pressure Blower Size 2606, Arrangement 4 3 Phase, 60 Hertz, 230/460 Volt, 3,600 rpm, TEFC, 184T	4,792.33	
For Silencer Option, Add	420.00	
02 62 16 00-0093 Vacuum Blowers And Compressors (02 62 16 00-0088)		
Note: Heavy duty rotary blowers packaged with silencer, filter, drive and motor. Unit is mounted and interconnected all on the same base.		
02 62 16 00-0094 EA Positive Displacement Blower, 4.9 Max. HP, 48 CFM	6,600.78	
02 62 16 00-0095 EA Positive Displacement Blower, 5.6 Max. HP, 111 CFM	7,243.08	
02 62 16 00-0096 EA Positive Displacement Blower, 12.2 Max. HP, 143 CFM	8,297.52	
02 62 16 00-0097 EA Positive Displacement Blower, 11.8 Max. HP, 271 CFM	8,650.99	
02 62 16 00-0098 EA Positive Displacement Blower, 15 Max. HP, 134 CFM	8,036.36	
02 62 16 00-0099 EA Positive Displacement Blower, 19.7 Max. HP, 278 CFM	9,285.38	
02 62 16 00-0100 EA Positive Displacement Blower, 18.3 Max. HP, 399 CFM	10,038.01	
02 62 16 00-0101 EA Positive Displacement Blower, 254 Max. HP, 247 CFM	11,328.54	
02 62 16 00-0102 EA Positive Displacement Blower, 28.3 Max. HP, 427 CFM	13,727.76	
02 62 16 00-0103 EA Positive Displacement Blower, 29 Max. HP, 665 CFM	13,966.89	
02 62 16 00-0104 EA Positive Displacement Blower, 38.8 Max. HP, 393 CFM	15,197.33	
02 62 16 00-0105 EA Positive Displacement Blower, 49.6 Max. HP, 615 CFM	19,786.30	
02 62 16 00-0106 EA Positive Displacement Blower, 46.5 Max. HP, 1,248 CFM	21,944.97	
02 62 16 00-0107 EA Positive Displacement Blower, 55 Max. HP, 574 CFM	22,818.49	
02 62 16 00-0108 EA Positive Displacement Blower, 67.1 Max. HP, 1,071 CFM	27,063.64	
02 62 16 00-0109 EA Positive Displacement Blower, 65.5 Max. HP, 1,878 CFM	30,705.12	
02 62 16 00-0110 Fugitive Dust, Vapor And Gas Emissions Control (02 62 16)		
02 62 16 00-0111 Sprayed Dust Suppressants (02 62 16 00-0110)		
Note: Overall dust suppression reflects treatment of unpaved haul roads and parking lots and similar surfaces. Overall erosion control reflects stabilizing road shoulders and slopes. Excludes water costs.		
02 62 16 00-0112 SY Overall Dust Suppression And Erosion Control, Tree Sap Based Sprayed Dust Suppressant	3.77	
02 62 16 00-0113 SY Erosion Control For Landfill Cap	3.96	
02 62 16 00-0114 SY Stockpile Dust Suppression Tree Sap Based Dust Suppressant	3.96	
02 62 16 00-0115 SY Periodic Maintenance Application Tree Sap Based Sprayed Dust Suppressant	3.57	
02 62 16 00-0116 SY Overall Dust Suppression And Erosion Control, Chloride Based Sprayed Dust Suppressant	3.83	
02 62 16 00-0117 SY Erosion Control For Landfill Cap Chloride Based Sprayed Dust Suppressant	4.24	
02 62 16 00-0118 SY Stockpile Dust Suppression, Chloride Based Sprayed Dust Suppressant	4.02	
02 62 16 00-0119 SY Periodic Maintenance Application Chloride Based Sprayed Dust Suppressant	3.61	
02 62 16 00-0120 SY Overall Dust Suppression And Erosion Control, Oil Emulsion Sprayed Dust Suppressant	4.12	
02 62 16 00-0121 SY Erosion Control For Landfill Cap	4.91	
02 62 16 00-0122 SY Stockpile Dust Suppression, Oil Emulsion Sprayed Dust Suppressant	4.50	
02 62 16 00-0123 SY Periodic Maintenance Application Oil Emulsion Sprayed Dust Suppressant	3.73	
02 62 16 00-0124 SY Overall Dust Suppression And Erosion Control, Asphalt Emulsion Sprayed Dust Suppressant	4.55	
02 62 16 00-0125 SY Erosion Control For Landfill Cap Asphalt Emulsion Sprayed Dust Suppressant	5.42	
02 62 16 00-0126 SY Stockpile Dust Suppression, Asphalt Emulsion Sprayed Dust Suppressant	4.97	
02 62 16 00-0127 SY Periodic Maintenance Application Asphalt Emulsion Sprayed Dust Suppressant	4.14	
02 62 16 00-0128 SY Overall Dust Suppression And Erosion Control, Lignosulphonate Sprayed Dust Suppressant	3.79	
02 62 16 00-0129 SY Erosion Control For Landfill Cap Lignosulphonate Sprayed Dust Suppressant	4.20	
02 62 16 00-0130 SY Stockpile Dust Suppression, Lignosulphonate Sprayed Dust Suppressant	3.98	
02 62 16 00-0131 SY Periodic Maintenance Application Lignosulphonate Sprayed Dust Suppressant	3.61	
02 62 16 00-0132 Synthetic Covers Over Waste Piles (02 62 16 00-0110)		
02 62 16 00-0133 Plastic Waste Pile Covers (02 62 16 00-0132)		
02 62 16 00-0134 SF Plastic Laminate Waste Pile Cover, 130 LB Tear Strength, 1 To 1-1/2 Year Outdoor Life Expectancy	0.27	
02 62 16 00-0135 SF Plastic Laminate Waste Pile Cover, 185 LB Tear Strength, 3 To 4 Year Outdoor Life Expectancy	0.63	
02 62 16 00-0136 SF Plastic Laminate Waste Pile Cover, 250 LB Tear Strength, 4 To 5 Year Outdoor Life Expectancy	0.84	
02 62 16 00-0137 LF Add For Cover Drawstring	0.98	
02 62 16 00-0138 EA Add For Metal Grommets Used With Tie-downs	1.02	
02 62 16 00-0139 SF Plastic Laminate Waste Pile Cover, 135 LB Tear Strength, 2 To 2-1/2 Year Outdoor Life Expectancy	0.38	

02 65 Underground Storage Tank Removal (02 60)

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

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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

02 65 00 00-0001	Monitoring, Sampling, Testing And Analysis (02 65)		
02 65 00 00-0002	Field Samples For Testing Underground Storage Tank (02 65 00 00-0001)		
02 65 00 00-0003	EA Collection Of Sludge Sample For Underground Storage Tank.....	24.49	
02 65 00 00-0004	EA Collection Of Pumpable Liquids Sample For Underground Storage Tank	24.49	
02 65 00 00-0005	EA Collection Of Contaminated Soil Sample	24.49	
02 65 00 00-0006	Lab Tests For Underground Storage Tank Removal (02 65 00 00-0001)		
	Note: Includes lab test fees, reports, shipping, handling, chain of custody documents and disposal of sample.		
02 65 00 00-0007	EA Benzene, Toluene, Ethylbenzene, Xylene 8020, Lab Test.....	139.72	
	Note: The cost is for the in-lab test for Benzene, Toluene, Ethylbenzene, And Xylene using procedure 8020 as detailed in EPA SW-846.		
02 65 00 00-0008	EA Flashpoint, Lab Test.....	54.34	
	Note: The cost is for the in-lab test for the flashpoint using procedure 40CFR 261.21 as detailed in EPA SW-846.		
02 65 00 00-0009	EA TOX 9020, Lab Test.....	130.71	
	Note: The cost is for the in-lab test for total organic halides using procedure 9020 as detailed in EPA SW-846.		
02 65 00 00-0010	EA TPH 8015 Modified, Lab Test	139.72	
	Note: The cost is for the in-lab test for total petroleum hydrocarbons by gas chromatography using procedure 8015 Mod. as detailed in EPA SW-846.		
02 65 00 00-0011	EA TRPH 418.1, Lab Test	108.68	
	Note: The cost is for the in-lab test for total recoverable petroleum hydrocarbons using procedure 418.1 as detailed in EPA SW-846.		
02 65 00 00-0012	EA VOC, Lab Test	294.98	
	Note: The cost is for the in-lab test for volatile organics using procedure 8240 as detailed in EPA SW-846.		
02 65 00 00-0013	EA Semi-Volatile Organic, Lab Test.....	543.38	
	Note: The cost is for the in-lab test for semi-volatile organics using procedure 8270 as detailed in EPA SW-846.		
02 65 00 00-0014	EA Oil And Grease 413.1, Lab Test.....	65.36	
	Note: The cost is for the in-lab test for oil and grease using procedure 413.1 as detailed in EPA SW-846.		
02 65 00 00-0015	EA TCLP (Extraction) - Metals, Lab Test	116.44	
	Note: The cost is for the in-lab test for toxicity characteristics leaching procedures using procedure 1311 as detailed in EPA SW-846.		
02 65 00 00-0016	EA TCLP (Extraction) - Semi-Volatile Organic, Lab Test.....	155.25	
	Note: The cost is for the in-lab test for toxicity characteristics leaching procedures using procedure 1311 as detailed in EPA SW-846.		
02 65 00 00-0017	EA Metals 6010 RCRA, Lab Test	173.88	
	Note: The cost is for the in-lab test for metals using procedure 6010 RCRA as detailed in EPA SW-846.		
02 65 00 00-0018	EA Metals (Arsenic) 7060, Lab Test	23.29	
	Note: The cost is for the in-lab test for the metal arsenic using procedure 7060 as detailed in EPA SW-846.		
02 65 00 00-0019	EA Metals (Selenium) 7740, Lab Test	23.29	
	Note: The cost is for the in-lab test for the metal selenium (SE) using procedure 7740 as detailed in EPA SW-846.		
02 65 00 00-0020	EA Metals (Lead) 7421, Lab Test	23.29	
	Note: The cost is for the in-lab test for the metal lead using procedure 7421 as detailed in EPA SW-846.		
02 65 00 00-0021	EA Metals (Mercury) 7470, Lab Test	43.47	
	Note: The cost is for the in-lab test for the metal mercury using procedure 7470 as detailed in EPA SW-846.		
02 65 00 00-0022	EA PNA/PAH 8100, Lab Test	248.40	
	Note: The cost is for the in-lab test for polynuclear aromatic hydrocarbons using procedure 8100 as detailed in EPA SW-846.		
02 65 00 00-0023	EA Fuel Id ASTM D3328-78, Lab Test.....	89.86	
	Note: The cost is for the in-lab test to determine the constituents of fuel using the procedure as detailed in ASTM D3328-78.		
02 65 00 00-0024	EA pH, Lab Test.....	18.63	
02 65 00 00-0025	EA Lab Test - Polychlorinated Biphenyl (PCB) In Wastewater	232.88	
02 65 00 00-0026	EA Methyl Tertiary Butyl Ether (MTBE), Lab Test.....	139.72	
02 65 00 00-0027	Tests, Surveys And Maintenance For Underground Storage Tank (02 65 00 00-0001)		
02 65 00 00-0028	EA Site Survey For AST/UST Location By Certified Tank Installer.....	1,044.54	
	Note: Includes testing Pump output both tank and dispenser, Calibrate pump dispenser if needed, Check all sumps both tank and dispenser, check all fitting connections for leaks and check wiring connection for possible malfunction or safety hazard, check seals on caps for fill tube, check overflow performance for safety shutdown, check all hoses and pump handle, check break-away couplings, complete written report on all data found.		
02 65 00 00-0029	EA Check Cathodic Protection - Impressed Current Systems And Sacrificial Anode Systems.....	168.19	
	Note: By Certified Technician. Write report of findings for action if needed		
02 65 00 00-0030	EA Check And Report On Monitor Probes.....	39.54	
	Note: By Certified Technician		
02 65 00 00-0031	EA Tank Monitoring System: Check System Per Manufacturer's Specification By Certified Technician With Written Report	286.13	
	Note: Including pass / fail; paper feed operational paper installed etc.; and status of inspection repairs needed etc.		
02 65 00 00-0032	EA Removal And Replacement Of Anode On Impressed System	116.99	
02 65 00 00-0033	EA Removal And Replacement Of Power Converter On Impressed System On Underground Storage Tank.....	168.85	
02 65 00 00-0034	EA Removal And Replacement Of Monitor Probes On Underground Storage Tank	252.47	
02 65 00 00-0035	EA Ultrasonic Test On Underground Storage Tank	92.90	
02 65 00 00-0036	Tests And Sampling Labor Hours (02 65 00 00-0001)		
02 65 00 00-0037	HR Certified Tank Installer For Underground Storage Tank.....	103.86	
02 65 00 00-0038	HR Certified Geologist/Environmentalist	118.02	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 65 00 00-0039 HR Hourly Office Work For Reports Required For EPA On Underground Storage Tank .....124.04 Note: Includes title searches, well survey data, site drawings, submitting preliminary work, etc. Hours not to be used in association with other tasks performed.	124.04	
02 65 00 00-0040 Remove Tank Contents (02 65)		
02 65 00 00-0041 Transfer Liquid (02 65 00 00-0040) Note: For use to transfer liquids from one tank to another.		
02 65 00 00-0042 GAL Transfer Reusable Liquid To Different Tank .....0.66 Note: Per gallon of material transferred.	0.66	
02 65 00 00-0043 Pump Contaminated Liquids And Rinse Material (02 65 00 00-0040)		
02 65 00 00-0044 GAL Removal and Disposal Of Hazardous Liquids From Tank.....1.34	1.34	
02 65 00 00-0045 GAL Removal and Disposal Of Non Hazardous Liquid From Tank.....0.96	0.96	
02 65 00 00-0046 Sludge (02 65 00 00-0040) Note: Includes scraping and solidifying agent.		
02 65 00 00-0047 GAL Removal and Disposal Of Hazardous Solids Or Sludge From Tank.....5.57	5.57	
02 65 00 00-0048 GAL Removal and Disposal Of Non Hazardous Solids Or Sludge From Tank.....1.25	1.25	
02 65 00 00-0049 Purge Vapors, Open And Clean Tank (02 65)		
02 65 00 00-0050 Purge Vapors (02 65 00 00-0049)		
02 65 00 00-0051 LB Purge Tank Using Dry Ice.....3.27 Note: Approximately 1.5 To 3.0 LBS of dry ice per 100 Gals of tank volume.	3.27	
02 65 00 00-0052 High Pressure Water Wash And Rinse Of Tank Interior (02 65 00 00-0049) Note: Includes removal and disposal of rinse water.		
02 65 00 00-0053 EA Up To 275 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior .....296.63	296.63	
02 65 00 00-0054 EA >275 To 550 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....388.81	388.81	
02 65 00 00-0055 EA >550 To 1,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....503.96	503.96	
02 65 00 00-0056 EA >1,000 To 2,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior .....680.78	680.78	
02 65 00 00-0057 EA >2,000 To 5,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior .....1,317.57	1,317.57	
02 65 00 00-0058 EA >5,000 To 6,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior .....1,584.34	1,584.34	
02 65 00 00-0059 EA >6,000 To 8,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior .....1,815.32	1,815.32	
02 65 00 00-0060 EA >8,000 To 10,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior .....2,193.49	2,193.49	
02 65 00 00-0061 EA >10,000 To 15,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior .....2,824.07	2,824.07	
02 65 00 00-0062 EA >15,000 To 20,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior .....3,395.43	3,395.43	
02 65 00 00-0063 EA >20,000 To 30,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior .....4,300.97	4,300.97	
02 65 00 00-0064 EA >30,000 To 40,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior .....5,301.04	5,301.04	
02 65 00 00-0065 EA >40,000 To 50,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior .....6,493.22	6,493.22	
02 65 00 00-0066 Scrape Clean Tank Exterior (02 65 00 00-0049)		
02 65 00 00-0067 EA Up To 275 Gallon Tank, Scrape Clean Tank Exterior .....209.35	209.35	
02 65 00 00-0068 EA >275 To 550 Gallon Tank, Scrape Clean Tank Exterior.....278.78	278.78	
02 65 00 00-0069 EA >550 To 1,000 Gallon Tank, Scrape Clean Tank Exterior.....365.29	365.29	
02 65 00 00-0070 EA >1,000 To 2,000 Gallon Tank, Scrape Clean Tank Exterior.....505.85	505.85	
02 65 00 00-0071 EA >2,000 To 5,000 Gallon Tank, Scrape Clean Tank Exterior.....1,120.22	1,120.22	
02 65 00 00-0072 EA >5,000 To 6,000 Gallon Tank, Scrape Clean Tank Exterior.....1,418.44	1,418.44	
02 65 00 00-0073 EA >6,000 To 8,000 Gallon Tank, Scrape Clean Tank Exterior.....1,659.83	1,659.83	
02 65 00 00-0074 EA >8,000 To 10,000 Gallon Tank, Scrape Clean Tank Exterior.....2,086.65	2,086.65	
02 65 00 00-0075 EA >10,000 To 15,000 Gallon Tank, Scrape Clean Tank Exterior.....2,712.12	2,712.12	
02 65 00 00-0076 EA >15,000 To 20,000 Gallon Tank, Scrape Clean Tank Exterior.....3,404.26	3,404.26	
02 65 00 00-0077 EA >20,000 To 30,000 Gallon Tank, Scrape Clean Tank Exterior.....4,432.62	4,432.62	
02 65 00 00-0078 EA >30,000 To 40,000 Gallon Tank, Scrape Clean Tank Exterior.....5,319.14	5,319.14	
02 65 00 00-0079 EA >40,000 To 50,000 Gallon Tank, Scrape Clean Tank Exterior.....6,648.93	6,648.93	
02 65 00 00-0080 Tank And Piping Removal (02 65) Note: Excludes excavation. See CSI section 02 61 13 00-0001 for excavation.		
02 65 00 00-0081 Removal And Disposal Of Piping (02 65 00 00-0080) Note: Includes removal, inspection, loading, transporting pipe to disposal facility or transfer station within 15 miles and disposal fees.		
02 65 00 00-0082 LF Up To 4", Removal And Disposal Of Piping .....17.18	17.18	
02 65 00 00-0083 LF >4" To 8", Removal And Disposal Of Piping .....22.90	22.90	
02 65 00 00-0084 Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement (02 65 00 00-0080) Note: Excludes excavation or backfill.		
02 65 00 00-0085 EA Up To 275 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement .....586.32	586.32	
02 65 00 00-0086 EA >275 To 550 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement .....711.95	711.95	
02 65 00 00-0087 EA >550 To 1,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement .....837.61	837.61	
02 65 00 00-0088 EA >1,000 To 2,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement .....1,047.01	1,047.01	
02 65 00 00-0089 EA >2,000 To 5,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement .....1,465.80	1,465.80	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 65 00 00-0090 EA >5,000 To 6,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	1,842.71	
02 65 00 00-0091 EA >6,000 To 8,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	2,093.99	
02 65 00 00-0092 EA >8,000 To 10,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	2,512.80	
02 65 00 00-0093 EA >10,000 To 15,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	3,350.39	
02 65 00 00-0094 EA >15,000 To 20,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	4,016.38	
02 65 00 00-0095 EA >20,000 To 30,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	4,706.38	
02 65 00 00-0096 EA >30,000 To 40,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	5,506.05	
02 65 00 00-0097 EA >40,000 To 50,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	6,882.56	
02 65 00 00-0098 Cut Tank Into Sections That Can Easily Be Transported And Disposed Of When Necessary (02 65 00 00-0080)		
Note: Includes 1 lengthwise at every 4' on-center height wise.		
02 65 00 00-0099 EA >1,000 To 2,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	755.27	
02 65 00 00-0100 EA >2,000 To 5,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	1,408.47	
02 65 00 00-0101 EA >5,000 To 6,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	1,694.25	
02 65 00 00-0102 EA >6,000 To 8,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	1,888.17	
02 65 00 00-0103 EA >8,000 To 10,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	2,265.80	
02 65 00 00-0104 EA >10,000 To 15,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	2,816.95	
02 65 00 00-0105 EA >15,000 To 20,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	3,388.50	
02 65 00 00-0106 EA >20,000 To 30,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	4,235.62	
02 65 00 00-0107 EA >30,000 To 40,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	5,294.54	
02 65 00 00-0108 EA >40,000 To 50,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	6,618.16	
02 65 00 00-0109 Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station (02 65 00 00-0080)		
Note: Includes disposal fee.		
02 65 00 00-0110 EA Up To 275 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	256.46	
For Each Additional Mile >15 Miles, Add	3.95	
02 65 00 00-0111 EA >275 To 550 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	347.28	
For Each Additional Mile >15 Miles, Add	4.99	
02 65 00 00-0112 EA >550 To 1,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	545.59	
For Each Additional Mile >15 Miles, Add	7.48	
02 65 00 00-0113 EA >1,000 To 2,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	841.91	
For Each Additional Mile >15 Miles, Add	8.72	
02 65 00 00-0114 EA >2,000 To 5,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	1,485.70	
For Each Additional Mile >15 Miles, Add	15.37	
02 65 00 00-0115 EA >5,000 To 6,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	1,535.56	
For Each Additional Mile >15 Miles, Add	16.62	
02 65 00 00-0116 EA >6,000 To 8,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	1,618.65	
For Each Additional Mile >15 Miles, Add	18.70	
02 65 00 00-0117 EA >8,000 To 10,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	2,344.41	
For Each Additional Mile >15 Miles, Add	24.93	
02 65 00 00-0118 EA >10,000 To 15,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	3,220.86	
For Each Additional Mile >15 Miles, Add	37.39	
02 65 00 00-0119 EA >15,000 To 20,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	3,764.94	
For Each Additional Mile >15 Miles, Add	41.55	
02 65 00 00-0120 EA >20,000 To 30,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	4,655.95	
For Each Additional Mile >15 Miles, Add	49.86	
02 65 00 00-0121 EA >30,000 To 40,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	6,500.68	
For Each Additional Mile >15 Miles, Add	59.83	
02 65 00 00-0122 EA >40,000 To 50,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	7,845.48	
For Each Additional Mile >15 Miles, Add	68.80	
02 65 00 00-0123 Other Storage Tank Removals (02 65 00 00-0080)		
02 65 00 00-0124 GAL Removal Of Cement Lining	0.52	
02 65 00 00-0125 GAL Sandblast Tank In Prep For Lining Or Welding; Remove Sand, Vacuum Walls And Seams	0.19	
02 65 00 00-0126 GAL Install Epoxy For Interior Corrosion Protection	1.00	
02 65 00 00-0127 Tank Closure Report (02 65 00 00-0080)		
Note: Excludes soils tests. See CSI section 02 65 00 00-0006 for soil tests.		
02 65 00 00-0128 EA Prepare Tank Closure Report	2,611.34	
02 65 00 00-0129 Temporary Tanks (02 65)		
02 65 00 00-0130 Temporary Holding Tanks (02 65 00 00-0129)		
02 65 00 00-0131 Above Ground Temporary Holding Tanks, Monthly Rental (02 65 00 00-0130)		
02 65 00 00-0132 MO 550 Gallon, Stainless Steel, DOT Approved, Above Ground Temporary Holding Tanks, Monthly Rental	646.03	
02 65 00 00-0133 MO 630 Gallon, Polyethylene, DOT Approved, Above Ground Temporary Holding Tanks, Monthly Rental	646.03	
02 65 00 00-0134 MO 630 Gallon, Polyethylene, Stackable, Above Ground Temporary Holding Tanks, Monthly Rental	1,292.06	
02 65 00 00-0135 MO 4,000 Gallon, Polyethylene, Stackable, Above Ground Temporary Holding Tanks, Monthly Rental	969.05	
02 65 00 00-0136 MO 4,000 Gallon, Polyethylene, Trailer Mounted, Above Ground Temporary Holding Tanks, Monthly Rental	2,261.11	
02 65 00 00-0137 MO 6,000 Gallon, Polyethylene, Total Drain, Above Ground Temporary Holding Tanks, Monthly Rental	1,615.08	
02 65 00 00-0138 MO 21,000 Gallon (500 BBL), Steel, Open, Stationary, Above Ground Temporary Holding Tanks, Monthly Rental	3,475.30	
02 65 00 00-0139 MO 21,000 Gallon (500 BBL), Steel, Closed, Stationary, Above Ground Temporary Holding Tanks, Monthly Rental	4,164.84	
02 65 00 00-0140 MO 21,000 Gallon (500 BBL), Steel, Vapor Proof, Above Ground Temporary Holding Tanks, Monthly Rental	7,033.34	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 65 00 00-0141 Secondary Containment Berm <small>(02 65 00 00-0129)</small>		
02 65 00 00-0142 MO Secondary Containment Berm Monthly Rental	1,399.73	
02 80 Facility Remediation <small>(02)</small>		
02 81 Transportation and Disposal of Hazardous Materials <small>(02 80)</small>		
02 81 00 00-0001 Hazardous Material Disposal <small>(02 81)</small>		
02 81 00 00-0002 EA RCRA (Direct Landfill) Drums	342.52	
<small>Note: Excludes stabilization. See CSI section 02 81 00 00-0003 for Stabilization (>5 ppm).</small>		
02 81 00 00-0003 EA Stabilization (>5 ppm)	456.41	
02 81 00 00-0004 TON Bulk Hazardous Material Landfill Cost	288.94	
02 81 00 00-0005 Equipment Oil Drain And Disposal <small>(02 81)</small>		
02 81 00 00-0006 TRIP Drain Oil Filled Equipment, Place In Approved Container And Transport To Disposal Site	454.54	
<small>Note: Excludes Disposal Cost.</small>		
02 81 00 00-0007 DRM Disposal Of Non-Polychlorinated Biphenyl (PCB) Oil In Normal Landfill, Per Partial Or Full 55-Gallon Drum	71.43	
<small>Note: Excludes draining, placing in approved container, and transporting to disposal site.</small>		
02 81 00 00-0008 DRM Disposal Of Non-Toxic Polychlorinated Biphenyl (PCB) Oil Into A Lined Landfill, Per Partial Or Full 55-Gallon Drum	324.68	
<small>Note: Excludes draining, placing in approved container, and transporting to disposal site.</small>		
02 81 00 00-0009 DRM Disposal Of Toxic Polychlorinated Biphenyl (PCB) Oil By Incineration, Per Partial Or Full 55-Gallon Drum	584.42	
<small>Note: Excludes draining, placing in approved container, and transporting to disposal site.</small>		
02 81 00 00-0010 CF Hazardous Polychlorinated Biphenyl (PCB) Oil Filled Equipment Disposal At Approved Site	77.80	
<small>Note: Includes handling of equipment and disposal at approved site. Excludes draining of PCB contaminated oil prior to disposal.</small>		
02 82 Asbestos Remediation <small>(02 80)</small>		
<small>See CSI section 01 56 16 00-0033 for temporary stud walls, 01 74 19 00-0050 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0002 for plastic sheeting for containment construction, 02 89 00 00-0009 for decontamination chambers.</small>		
02 82 13 Asbestos Abatement <small>(02 82)</small>		
02 82 13 00-0001 Air Monitoring And Bulk Sampling, Asbestos Testing <small>(02 82 13)</small>		
<small>Note: Testing tasks include packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Polarizing Light Microscope (PLM), Phase Contrast Microscope (PCM), and Transmission Electron Microscope (TEM). Excludes sampling time.</small>		
02 82 13 00-0002 HR Certified Asbestos Air Sampling Technician For Bulk Sampling Or Air Monitoring	70.13	
02 82 13 00-0003 EA 48 Hours Or Longer Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	42.20	
02 82 13 00-0004 EA Next Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	49.48	
02 82 13 00-0005 EA Same Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	78.59	
02 82 13 00-0006 EA 48 Hours Or Longer Turnaround, (Bulk) TEM Test, Asbestos Testing	135.34	
02 82 13 00-0007 EA Next Day Turnaround, (Bulk) TEM Test, Asbestos Testing	164.45	
02 82 13 00-0008 EA 48 Hours Or Longer Turnaround, (Air) PCM Test, Asbestos Testing	33.47	
02 82 13 00-0009 EA Next Day Turnaround, (Air) PCM Test, Asbestos Testing	40.75	
02 82 13 00-0010 EA Same Day Turnaround, (Air) PCM Test, Asbestos Testing	55.30	
02 82 13 00-0011 EA 48 Hours Or Longer Turnaround, (Air Point Counting) PLM Test	42.20	
02 82 13 00-0012 EA Next Day Turnaround, (Air Point Counting) PLM Test	49.48	
02 82 13 00-0013 EA Same Day Turnaround, (Air Point Counting) PLM Test	78.59	
02 82 13 00-0014 EA 48 Hours Or Longer Turnaround, (Air) TEM Test, Asbestos Testing	135.34	
02 82 13 00-0015 EA Next Day Turnaround, (Air) TEM Test, Asbestos Testing	155.72	
02 82 13 00-0016 EA Same Day Turnaround, (Air) TEM Test, Asbestos Testing	216.84	
02 82 16 Engineering Control of Asbestos Containing Materials <small>(02 82)</small>		
02 82 16 00-0001 Asbestos Encapsulation (Lock-Down) <small>(02 82 16)</small>		
02 82 16 00-0002 SF Asbestos Encapsulant Spray Adhesive (Lock-Down), Per Coat	1.34	
02 82 16 00-0003 SF Asbestos Binding Compound Encapsulant/Sealant, Per Coat Required (Fiberlock® ABC® Asbestos Binding Compound)	1.80	
02 82 16 00-0004 SF Asbestos Fiberspray Encapsulation (Fiberlock® ABC Fiberspray®)	1.89	
02 82 16 00-0005 SF Asbestos Acrylic Encasement/Encapsulation (Fiberlock® Lag-Kote®)	2.12	
02 82 16 00-0006 SF Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kwik®)	6.20	
02 82 16 00-0007 SF Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kloth®)	6.97	
02 82 33 Removal and Disposal of Asbestos Containing Materials <small>(02 82)</small>		
<small>Note: Tasks include materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, lockdown encapsulant applied to surfaces, bagging, clean-up, vacuuming, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of SET for a quantity of less than 10 LF or SF (10 LF to 20 LF for ACM pipe insulation), followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project. This does not apply to glove bag projects.</small>		
02 82 33 00-0001 Pipe And Pipe Fittings Insulation, Asbestos Abatement And Disposal <small>(02 82 33)</small>		

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

02 82 33 00-0002	Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0001) Note: Diameter is outer size of insulation. Treat fittings as additional linear feet of insulation.		
02 82 33 00-0003	Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002) See CSI section 02 82 33 00-0017 for projects with less than 10 LF.		
02 82 33 00-0004	SET Up To 20 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	892.72	263.57
02 82 33 00-0005	LF >20 To 250 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	30.66	8.99
02 82 33 00-0006	LF >250 To 500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	23.18	6.74
02 82 33 00-0007	LF >500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	17.56	5.06
02 82 33 00-0008	LF >2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	13.34	3.79
02 82 33 00-0009	LF >10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	11.69	3.29
02 82 33 00-0010	>6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002) See CSI section 02 82 33 00-0017 for projects with less than 10 LF.		
02 82 33 00-0011	SET Up To 20 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	906.87	263.57
02 82 33 00-0012	LF >20 To 250 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	35.86	10.34
02 82 33 00-0013	LF >250 To 500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	27.24	7.75
02 82 33 00-0014	LF >500 To 2,500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	20.78	5.81
02 82 33 00-0015	LF >2,500 To 10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	15.93	4.36
02 82 33 00-0016	LF >10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	14.04	3.79
02 82 33 00-0017	Glove Bag Method, Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002) Note: Solid isolation barriers and plastic sheeting for containment construction (except on floor) are not required for glove bag projects unless required by local codes.		
02 82 33 00-0018	SET Glove Bag For First 3 LF Pipe Insulation, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	565.27	168.31
02 82 33 00-0019	LF >3 To 20 LF Additional Glove Bag Work for Pipe Insulation <i>For Work In Restricted Working Space, Add</i>	94.91	28.05
02 82 33 00-0020	LF >20 To 250 LF Additional Glove Bag Work for Pipe Insulation <i>For Work In Restricted Working Space, Add</i>	37.71	10.89
02 82 33 00-0021	LF >250 To 500 LF Additional Glove Bag Work for Pipe Insulation <i>For Work In Restricted Working Space, Add</i>	28.62	8.16
02 82 33 00-0022	LF >500 LF Additional Glove Bag Work for Pipe Insulation <i>For Work In Restricted Working Space, Add</i>	21.83	6.13
02 82 33 00-0023	Thermal Insulation, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0024	Calcium Block Insulation, Asbestos Abatement And Disposal (02 82 33 00-0023)		
02 82 33 00-0025	SET Up To 10 SF, Calcium Block Insulation, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	885.64	36.51
02 82 33 00-0026	SF >10 To 500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	36.51	
02 82 33 00-0027	SF >500 To 2,500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	30.14	
02 82 33 00-0028	SF >2,500 To 10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	24.24	
02 82 33 00-0029	SF >10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	19.82	
02 82 33 00-0030	Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal (02 82 33 00-0023)		
02 82 33 00-0031	SET Up To 10 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	882.11	
02 82 33 00-0032	SF >10 To 500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	32.06	
02 82 33 00-0033	SF >500 To 2,500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	25.70	
02 82 33 00-0034	SF >2,500 To 10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	19.79	
02 82 33 00-0035	SF >10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	15.37	
02 82 33 00-0036	Fibrous Glass Board Insulation, Asbestos Abatement And Disposal (02 82 33 00-0023)		
02 82 33 00-0037	SET Up To 10 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	880.93	
02 82 33 00-0038	SF >10 To 500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	28.44	
02 82 33 00-0039	SF >500 To 2,500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	22.08	
02 82 33 00-0040	SF >2,500 To 10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	16.17	
02 82 33 00-0041	SF >10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	11.75	
02 82 33 00-0042	Other Thermal Insulation, Up To 3" Thickness, Asbestos Abatement And Disposal (02 82 33 00-0023) Note: e.g., duct, boiler, tank, etc.		



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0043 SET Up To 25 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	887.41	
02 82 33 00-0044 SF >25 To 500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	30.30	
02 82 33 00-0045 SF >500 To 2,500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	23.94	
02 82 33 00-0046 SF >2,500 To 10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	18.04	
02 82 33 00-0047 SF >10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	13.62	
02 82 33 00-0048 Surfacing Material, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0049 Fireproofing For Small Areas, Asbestos Abatement And Disposal (02 82 33 00-0048)		
Note: For asbestos abatement for up to 1 SF sections to expose area for attachments. See CSI section 02 82 33 00-0051 for areas > 1 SF see CSI section.		
02 82 33 00-0050 EA Up To 1 SF, Fireproofing For Small Areas, Asbestos Abatement And Disposal.....	146.78	
Note: For asbestos abatement for up to 1 SF sections to expose steel area for welding attachments.		
02 82 33 00-0051 Fireproofing, Asbestos Abatement And Disposal (02 82 33 00-0048)		
Note: Exposed surface area, includes associated overspray.		
02 82 33 00-0052 SET Up To 25 SF, Fireproofing, Asbestos Abatement And Disposal.....	887.41	
02 82 33 00-0053 SF >25 To 500 SF, Fireproofing, Asbestos Abatement And Disposal.....	36.28	
02 82 33 00-0054 SF >500 To 2,500 SF, Fireproofing, Asbestos Abatement And Disposal.....	27.29	
02 82 33 00-0055 SF >2,500 To 10,000 SF, Fireproofing, Asbestos Abatement And Disposal.....	20.56	
02 82 33 00-0056 SF >10,000 SF, Fireproofing, Asbestos Abatement And Disposal.....	15.50	
02 82 33 00-0057 Acoustical Plaster, Asbestos Abatement And Disposal (02 82 33 00-0048)		
Note: Remove surface coat from brown coat or remove entire assembly, including lathe and finish materials.		
02 82 33 00-0058 SET Up To 25 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	884.47	
02 82 33 00-0059 SF >25 To 500 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	15.25	
02 82 33 00-0060 SF >500 To 2,500 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	11.58	
02 82 33 00-0061 SF >2,500 To 10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	8.66	
02 82 33 00-0062 SF >10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	6.46	
02 82 33 00-0063 Plywood, Asbestos Abatement And Disposal (02 82 33 00-0048)		
02 82 33 00-0064 SET Up To 40 SF, Plywood, Asbestos Abatement And Disposal.....	888.00	
02 82 33 00-0065 SF >50 To 500 SF, Plywood, Asbestos Abatement And Disposal.....	12.69	
02 82 33 00-0066 SF >500 To 2,500 SF, Plywood, Asbestos Abatement And Disposal.....	6.23	
02 82 33 00-0067 SF >2,500 To 10,000 SF, Plywood, Asbestos Abatement And Disposal.....	4.28	
02 82 33 00-0068 SF >10,000 SF, Plywood, Asbestos Abatement And Disposal.....	3.68	
02 82 33 00-0069 Asbestos-Cement Products, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0070 Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal (02 82 33 00-0069)		
02 82 33 00-0071 SET Up To 100 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	890.36	
02 82 33 00-0072 SF >100 To 500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	5.32	
02 82 33 00-0073 SF >500 To 2,500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	2.78	
02 82 33 00-0074 SF >2,500 To 10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	2.25	
02 82 33 00-0075 SF >10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	1.98	
02 82 33 00-0076 Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal (02 82 33 00-0069)		
02 82 33 00-0077 SET Up To 10 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	746.30	
02 82 33 00-0078 LF >10 To 100 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	31.36	
02 82 33 00-0079 LF >100 To 250 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	23.88	
02 82 33 00-0080 LF >250 To 500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	18.26	
02 82 33 00-0081 LF >500 To 2,500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	14.04	
02 82 33 00-0082 LF >2,500 To 10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	10.89	
02 82 33 00-0083 LF >10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	10.67	
02 82 33 00-0084 Exterior Transite Siding, Asbestos Abatement And Disposal (02 82 33 00-0069)		
02 82 33 00-0085 SET Up To 125 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	898.55	
Note: Single or first of multiple layers.		
02 82 33 00-0086 SF >125 To 1,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	4.80	
Note: Single or first of multiple layers.		
02 82 33 00-0087 SF >1,000 To 5,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	3.86	
Note: Single or first of multiple layers.		
02 82 33 00-0088 SF >5,000 To 10,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	3.11	
Note: Single or first of multiple layers.		
02 82 33 00-0089 SF >10,000 To 20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	2.37	
Note: Single or first of multiple layers.		
02 82 33 00-0090 SF >20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	1.80	
Note: Single or first of multiple layers.		
02 82 33 00-0091 Asbestos Contaminated Debris, Asbestos Abatement And Disposal (02 82 33)		

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

02 82 33 00-0092	Asbestos Contaminated Debris, Asbestos Abatement And Disposal <small>(02 82 33 00-0091)</small>	
02 82 33 00-0093	SET Up To 10 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	599.87 175.72
02 82 33 00-0094	CF >10 To 100 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	59.64 17.47
02 82 33 00-0095	CF >100 To 250 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	40.23 11.65
02 82 33 00-0096	CF >250 To 500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	30.57 8.75
02 82 33 00-0097	CF >500 To 2,500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	24.71 6.99
02 82 33 00-0098	CF >2,500 To 10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	21.21 5.94
02 82 33 00-0099	CF >10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	19.23 5.35
02 82 33 00-0100	Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal <small>(02 82 33 00-0091)</small>	
02 82 33 00-0101	SET Up To 4 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	612.89
02 82 33 00-0102	EA >4 To 40 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	59.21
02 82 33 00-0103	EA >40 To 60 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	41.74
02 82 33 00-0104	EA >60 To 125 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	33.04
02 82 33 00-0105	EA >125 To 625 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	27.76
02 82 33 00-0106	EA >625 To 1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	24.61
02 82 33 00-0107	EA >1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	22.83
02 82 33 00-0108	Other Asbestos Containing Materials, Asbestos Abatement And Disposal <small>(02 82 33 00-0108)</small>	
02 82 33 00-0109	30" To 36" Fire Door, Asbestos Abatement And Disposal <small>(02 82 33 00-0108)</small>	
02 82 33 00-0110	SET Up To 1 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal	299.22
02 82 33 00-0111	EA >1 To 20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal	111.80
02 82 33 00-0112	EA >20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal	101.26
02 82 33 00-0113	Grout, Asbestos Abatement And Disposal <small>(02 82 33 00-0108)</small>	
	Note: e.g. flue grout.	
02 82 33 00-0114	SET Up To 10 LF, Grout, Asbestos Abatement And Disposal	293.05
02 82 33 00-0115	LF >10 To 50 LF, Grout, Asbestos Abatement And Disposal	11.55
02 82 33 00-0116	LF >50 To 100 LF, Grout, Asbestos Abatement And Disposal	7.96
02 82 33 00-0117	LF >100 To 250 LF, Grout, Asbestos Abatement And Disposal	6.82
02 82 33 00-0118	LF >250 To 1,000 LF, Grout, Asbestos Abatement And Disposal	5.86
02 82 33 00-0119	LF >1,000 To 2,500 LF, Grout, Asbestos Abatement And Disposal	5.05
02 82 33 00-0120	LF >2,500 LF, Grout, Asbestos Abatement And Disposal	4.33
02 82 33 00-0121	Gaskets, Asbestos Abatement And Disposal <small>(02 82 33 00-0108)</small>	
	Note: e.g. rope, web cloth, flat.	
02 82 33 00-0122	SET Up To 10 LF, Gaskets, Asbestos Abatement And Disposal	293.14
02 82 33 00-0123	LF >10 To 50 LF, Gaskets, Asbestos Abatement And Disposal	15.57
02 82 33 00-0124	LF >50 To 250 LF, Gaskets, Asbestos Abatement And Disposal	11.68
02 82 33 00-0125	LF >250 To 500 LF, Gaskets, Asbestos Abatement And Disposal	9.95
02 82 33 00-0126	LF >500 To 1,500 LF, Gaskets, Asbestos Abatement And Disposal	8.96
02 82 33 00-0127	LF >1,500 To 2,500 LF, Gaskets, Asbestos Abatement And Disposal	8.05
02 82 33 00-0128	LF >2,500 LF, Gaskets, Asbestos Abatement And Disposal	7.66
02 82 33 00-0129	Caulking, Asbestos Abatement And Disposal <small>(02 82 33 00-0108)</small>	
02 82 33 00-0130	Non Friable Caulking, Asbestos Abatement And Disposal <small>(02 82 33 00-0129)</small>	
02 82 33 00-0131	SET Up To 10 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal	293.05
02 82 33 00-0132	LF >10 To 50 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal	8.66
02 82 33 00-0133	LF >50 To 100 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal	6.11
02 82 33 00-0134	LF >100 To 250 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal	4.55
02 82 33 00-0135	LF >250 To 1,000 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal	3.43
02 82 33 00-0136	LF >1,000 To 2,500 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal	2.72
02 82 33 00-0137	LF >2,500 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal	2.36
02 82 33 00-0138	Window Putty, Asbestos Abatement And Disposal <small>(02 82 33 00-0108)</small>	
02 82 33 00-0139	SET Up To 10 LF, Window Putty, Asbestos Abatement And Disposal	293.05
02 82 33 00-0140	LF >10 To 50 LF, Window Putty, Asbestos Abatement And Disposal	11.55
02 82 33 00-0141	LF >50 To 100 LF, Window Putty, Asbestos Abatement And Disposal	7.96



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 82 33 00-0142	LF	>100 To 250 LF, Window Putty, Asbestos Abatement And Disposal.....	6.82
02 82 33 00-0143	LF	>250 To 1,000 LF, Window Putty, Asbestos Abatement And Disposal.....	5.86
02 82 33 00-0144	LF	>1,000 LF, Window Putty, Asbestos Abatement And Disposal.....	5.05

02 83 Lead Remediation (02 80)

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

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

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

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

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

02 83 19 13-0002	EA	Lead-Based Paint Remediation Minimum Show Up Charge.....	977.78
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Note: For projects where the total lead-based paint remediation charge is less than the minimum charge, use task "Minimum Charge For Lead-Based Paint Remediation" exclusively. Task "Minimum Charge For Lead-Based Paint Remediation" should not be used in conjunction with any other tasks in this section. Includes air sample and personal air monitoring.

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

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

02 83 19 13-0004	HR	Certified Lead Sampling Technician For Bulk Sampling Or Air Monitoring	78.53
02 83 19 13-0005	EA	X-Ray Fluorescence (XRF) Lead Testing	50.17
		Note: Including Technician, 3 Readings Per Surface And Lab Fee	
02 83 19 13-0006	EA	5 Day Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	48.02
02 83 19 13-0007	EA	48 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	72.76
02 83 19 13-0008	EA	24 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	101.87
02 83 19 13-0009	EA	5 Day Turnaround Total Threshold Leaching Concentration (TTL) Lead Test And Lab Fee	18.92
02 83 19 13-0010	EA	24 Hour Turnaround Total Threshold Leaching Concentration (TTL) Lead Test And Lab Fee	29.11
02 83 19 13-0011	EA	8 Hour Turnaround Total Threshold Leaching Concentration (TTL) Lead Test And Lab Fee	36.38
02 83 19 13-0012	EA	5 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee	48.02
02 83 19 13-0013	EA	3 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee	72.76
02 83 19 13-0014	EA	5 Day Turnaround Lead Wipe Samples And Lab Fee.....	8.00
02 83 19 13-0015	EA	24 Hour Turnaround Lead Wipe Samples And Lab Fee	10.91
02 83 19 13-0016	EA	8 Hour Turnaround Lead Wipe Samples And Lab Fee	16.01
02 83 19 13-0017	EA	5 Day Turnaround Lead Air Samples And Lab Fee	8.00
02 83 19 13-0018	EA	24 Hour Turnaround Lead Air Samples And Lab Fee	10.91
02 83 19 13-0019	EA	8 Hour Turnaround Lead Air Samples And Lab Fee	16.01
02 83 19 13-0020	EA	5 Day Turnaround Lead Water Test and Lab Fee.....	29.11
02 83 19 13-0021	EA	24 Hour Turnaround Lead Water Test and Lab Fee	43.66
02 83 19 13-0022	EA	8 Hour Turnaround Lead Water Test and Lab Fee.....	58.21
02 83 19 13-0023	EA	5 Day Turnaround Lead Paint Chip Test and Lab Fee.....	30.10
02 83 19 13-0024	EA	5 Day Turnaround Lead Soil Test and Lab Fee	60.20

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

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

02 83 19 13-0026	SF	Balustrades, Chemical Stripping Of Lead Contaminated Material	30.03
		For 0.025" (25 mil) Application, Add	1.69
		For 0.03" (30 mil) Application, Add	2.65
02 83 19 13-0027	SF	Balustrades, Ornate, Chemical Stripping Of Lead Contaminated Material	44.57
		For 0.025" (25 mil) Application, Add	2.42
		For 0.03" (30 mil) Application, Add	3.74
02 83 19 13-0028	SF	Wood Floors, Chemical Stripping Of Lead Contaminated Material	7.08
		For 0.025" (25 mil) Application, Add	0.50
		For 0.03" (30 mil) Application, Add	0.85
02 83 19 13-0029	SF	HVAC Grilles, Chemical Stripping Of Lead Contaminated Material	26.83
		For 0.025" (25 mil) Application, Add	1.49
		For 0.03" (30 mil) Application, Add	2.33
02 83 19 13-0030	SF	HVAC Grilles, Ornate, Chemical Stripping Of Lead Contaminated Material	32.01
		For 0.025" (25 mil) Application, Add	1.75
		For 0.03" (30 mil) Application, Add	2.72
02 83 19 13-0031	EA	Up To 6" Diameter Hangers, Chemical Stripping Of Lead Contaminated Material	20.66
		For 0.025" (25 mil) Application, Add	1.26
		For 0.03" (30 mil) Application, Add	2.03
		For 0.125" (125 mil) Application, Add	11.95
02 83 19 13-0032	LF	>2" To 4" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material.....	9.25
		For 0.025" (25 mil) Application, Add	0.57
		For 0.03" (30 mil) Application, Add	0.93
		For 0.125" (125 mil) Application, Add	5.67

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0033 LF >4" To 8" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	16.57	
For 0.025" (25 mil) Application, Add	1.02	
For 0.03" (30 mil) Application, Add	1.64	
For 0.125" (125 mil) Application, Add	9.78	
02 83 19 13-0034 LF >8" To 12" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	22.72	
For 0.025" (25 mil) Application, Add	1.36	
For 0.03" (30 mil) Application, Add	2.18	
For 0.125" (125 mil) Application, Add	12.46	
02 83 19 13-0035 LF >12" To 16" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	40.76	
For 0.025" (25 mil) Application, Add	2.38	
For 0.03" (30 mil) Application, Add	3.78	
For 0.125" (125 mil) Application, Add	20.33	
02 83 19 13-0036 SF >16" Diameter Pipes, Chemical Stripping Of Lead Contaminated Material, SF Of Surface Area	12.18	
For 0.025" (25 mil) Application, Add	0.69	
For 0.03" (30 mil) Application, Add	1.08	
For 0.125" (125 mil) Application, Add	5.45	
02 83 19 13-0037 EA Up To 12 SF Radiators, Chemical Stripping Of Lead Contaminated Material	242.51	
For 0.025" (25 mil) Application, Add	13.22	
For 0.03" (30 mil) Application, Add	20.50	
02 83 19 13-0038 SF Flat Steel Surfaces, Chemical Stripping Of Lead Contaminated Material	9.29	
For 0.025" (25 mil) Application, Add	0.61	
For 0.03" (30 mil) Application, Add	1.02	
For 0.125" (125 mil) Application, Add	6.82	
02 83 19 13-0039 SF Corrugated Steel, Chemical Stripping Of Lead Contaminated Material	10.56	
For 0.025" (25 mil) Application, Add	0.68	
For 0.03" (30 mil) Application, Add	1.11	
For 0.125" (125 mil) Application, Add	7.14	
02 83 19 13-0040 SF Steel Beams and Columns, Chemical Stripping Of Lead Contaminated Material	10.53	
For 0.025" (25 mil) Application, Add	0.68	
For 0.03" (30 mil) Application, Add	1.11	
For 0.125" (125 mil) Application, Add	7.13	
02 83 19 13-0041 SF Metal Stairs, Chemical Stripping Of Lead Contaminated Material	48.63	
For 0.025" (25 mil) Application, Add	2.73	
For 0.03" (30 mil) Application, Add	4.28	
For 0.125" (125 mil) Application, Add	21.16	
02 83 19 13-0042 LF Metal Single Hand Rail, Chemical Stripping Of Lead Contaminated Material	8.42	
For 0.025" (25 mil) Application, Add	0.53	
For 0.03" (30 mil) Application, Add	0.87	
For 0.125" (125 mil) Application, Add	5.47	
02 83 19 13-0043 SF Metal Railing And Posts, Chemical Stripping Of Lead Contaminated Material	24.70	
Note: The unit of measure "SF" is measured for 'Length x Height'. Work includes both sides of railing.		
For 0.025" (25 mil) Application, Add	1.46	
For 0.03" (30 mil) Application, Add	2.33	
For 0.125" (125 mil) Application, Add	12.96	
02 83 19 13-0044 SF Metal Picket Fence, Chemical Stripping Of Lead Contaminated Material	27.02	
For 0.025" (25 mil) Application, Add	1.54	
For 0.03" (30 mil) Application, Add	2.43	
For 0.125" (125 mil) Application, Add	12.40	
02 83 19 13-0045 Demolish Lead Contaminated Material <small>(02 83 19 13)</small>		
Note: Includes waste handling, packing, all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not be limited to, chromium, cadmium and mercury.		
02 83 19 13-0046 SF Demolish Brick, Lead Contaminated Material	3.74	
02 83 19 13-0047 SF Demolish Concrete Block, Lead Contaminated Material	4.81	
02 83 19 13-0048 SF Demolish Up To 6" Concrete, Lead Contaminated Material	5.44	
02 83 19 13-0049 IN Drilling, Up To 1/2" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth	4.22	
02 83 19 13-0050 IN Drilling, >1/2" To 1" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth	5.61	
02 83 19 13-0051 LF Demolish Wood Balustrades And Railings, Lead Contaminated Material	6.20	
02 83 19 13-0052 SF Demolish Concrete, Lead Contaminated Material	12.33	
02 83 19 13-0053 LF Demolish Cabinets, Lead Contaminated Material	28.74	
02 83 19 13-0054 SF Demolish Grilles, Lead Contaminated Material	3.46	
02 83 19 13-0055 EA Demolish Up To 6" Diameter Hangers, Lead Contaminated Material	14.94	
02 83 19 13-0056 LF Demolish Up To 2" Diameter Pipes, Lead Contaminated Material	6.12	
02 83 19 13-0057 LF Demolish >2" To 4" Diameter Pipes, Lead Contaminated Material	8.94	
02 83 19 13-0058 LF Demolish >4" To 8" Diameter Pipes, Lead Contaminated Material	13.50	
02 83 19 13-0059 LF Demolish >8" To 12" Diameter Pipes, Lead Contaminated Material	24.90	
02 83 19 13-0060 EA Demolish Radiators, Lead Contaminated Material	107.57	
02 83 19 13-0061 SF Demolish Siding, Lead Contaminated Material	1.66	
02 83 19 13-0062 SF Demolish Flat Steel Surfaces, Lead Contaminated Material	3.88	
02 83 19 13-0063 SF Demolish Steel Beams, Lead Contaminated Material	4.56	
02 83 19 13-0064 SF Demolish Trusses, Lead Contaminated Material	5.98	
02 83 19 13-0065 SF Demolish Metal Stair, Lead Contaminated Material	7.13	
02 83 19 13-0066 LF Demolish Single Metal Hand Rail, Lead Contaminated Material	5.23	
02 83 19 13-0067 LF Demolish Metal Railing And Posts, Lead Contaminated Material	8.54	
02 83 19 13-0068 SF Demolish Metal Picket Fence, Lead Contaminated Material	2.35	
02 83 19 13-0069 SF Demolish Plywood, Lead Contaminated Material	6.44	
02 83 19 13-0070 SF Demolish Planks (Various Sizes), Lead Contaminated Material	3.14	
02 83 19 13-0071 EA Demolish Metal Brackets Or Other Small Metal Shapes, Lead Contaminated Material	19.63	
02 83 19 13-0072 LF Demolish Metal Guard Rails, Lead Contaminated Material	11.78	

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



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0074 SF Wet Sand/Scrape Of Lead Contaminated Material For Prep Before New Paint.....	1.70	
02 83 19 13-0075 Lead Abatement Encapsulation (02 83 19 13)		
Note: Can also be used for asbestos contaminated encapsulation. Spray applied application unless task described otherwise.		
02 83 19 13-0076 SF Balustrades, Lead Abatement Encapsulation	5.33	
02 83 19 13-0077 SF Brick, Concrete Block, Concrete, Lead Abatement Encapsulation	3.39	
02 83 19 13-0078 SF Columns, Lead Abatement Encapsulation	4.11	
02 83 19 13-0079 SF Picket Fence (Brush), Lead Abatement Encapsulation	2.42	
02 83 19 13-0080 SF Wood Floors (Roller), Lead Abatement Encapsulation	2.00	
02 83 19 13-0081 SF Grilles, Vents, Lead Abatement Encapsulation	5.75	
02 83 19 13-0082 EA Hangers, Lead Abatement Encapsulation	46.05	
02 83 19 13-0083 LF Up To 4" Diameter Pipe (Brush), Lead Abatement Encapsulation	3.23	
02 83 19 13-0084 LF >4" To 8" Diameter Pipe (Brush), Lead Abatement Encapsulation	4.60	
02 83 19 13-0085 LF >8" To 12" Diameter Pipe (Brush), Lead Abatement Encapsulation	7.09	
02 83 19 13-0086 LF >12" To 16" Diameter Pipe (Brush), Lead Abatement Encapsulation	10.46	
02 83 19 13-0087 SF Siding, Lead Abatement Encapsulation	2.90	
02 83 19 13-0088 SF Steel, Flat Surfaces And Tanks Up To 12', Lead Abatement Encapsulation.....	3.39	
02 83 19 13-0089 SF Steel Beams And Metal Decks, Lead Abatement Encapsulation.....	4.46	
02 83 19 13-0090 SF Trusses, Lead Abatement Encapsulation.....	4.46	
02 83 33 Removal and Disposal of Material Containing Lead (02 83)		
02 83 33 13 Lead-Based Paint Removal and Disposal (02 83 33)		
02 83 33 13-0001 Remove Loose Dirt And Debris Containing Lead (02 83 33 13)		
02 83 33 13-0002 SF High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Mild Detergent	0.25	
02 83 33 13-0003 SF High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Tri-Sodium Phosphate.....	0.27	
02 83 33 13-0004 SF High Efficiency Particulate Air (HEPA) Vacuum And Shampoo Cleaning Of Lead Contaminated Carpeting.....	1.24	
02 86 Hazardous Waste Drum Handling (02 80)		
02 86 00 00-0001 Hazardous Waste Packaging (02 86)		
02 86 00 00-0002 Overpacks (02 86 00 00-0001)		
02 86 00 00-0003 Steel Salvage Drums, 16 Gauge (02 86 00 00-0002)		
02 86 00 00-0004 EA 110 Gallon, 30" Diameter X 41" High	340.63	
02 86 00 00-0005 EA 85 Gallon, 26" Diameter X 38" High	193.90	
02 86 00 00-0006 EA 83 Gallon, 26" Diameter X 36" High	187.14	
02 86 00 00-0007 EA 55 Gallon, DOT 17C, 18" Diameter X 34" High	117.08	
02 86 00 00-0008 EA 30 Gallon, DOT 17C, 18" Diameter X 28" High	92.23	
02 86 00 00-0009 EA 22 Gallon, 16" Diameter X 25" High	62.14	
02 86 00 00-0010 EA 15 Gallon, DOT 17C, 14" Diameter X 24" High	56.18	
02 86 00 00-0011 EA 10 Gallon, 13.8" Diameter X 15" High	49.51	
02 86 00 00-0012 Polyethylene Overpacks (02 86 00 00-0002)		
02 86 00 00-0013 EA 95 Gallon, DOT E9618, Twist On Lid 31" Diameter X 41" High	384.77	
02 86 00 00-0014 EA 20 Gallon, Labpack, Twist On Lid 21" Diameter X 7.5" High	71.11	
02 86 00 00-0015 EA 85 Gallon, DOT E9775, Clamp Ring Lid, 27" Diameter X 41" High.....	348.16	
02 86 00 00-0016 Composite Overpacks (02 86 00 00-0002)		
02 86 00 00-0017 EA 55 Gal, DOT 17C, Steel Drum Nested With 2-20 Gallon Fiber Drums	188.93	
02 86 00 00-0018 EA 55 Gal, DOT 17C, Steel Drum Nested With 4-10 Gallon Fiber Drums	259.27	
02 86 00 00-0019 EA 85 Gal, 16 Gauge Salvage Drum Nested With 3-20 Gallon Fiber Drums.....	351.67	
02 86 00 00-0020 DOT E-9168 Exempt Packaging (02 86 00 00-0002)		
02 86 00 00-0021 EA 32 Oz Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168.....	16.63	
02 86 00 00-0022 EA 950 cc Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168.....	17.54	
02 86 00 00-0023 EA 500 cc Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168.....	17.15	
02 86 00 00-0024 EA 250 cc Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168.....	8.49	
02 86 00 00-0025 EA Can, Carton, Insert, Tape - Corrosive And Flammable - UPS.....	10.12	
02 86 00 00-0026 EA 16 Oz Bottle, Carton, Insert And Tape, Sludge/Viscous, UPS.....	6.32	
02 86 00 00-0027 EA 32 Oz Bottle, Carton, Insert And Tape, Sludge/Viscous, UPS	8.22	
02 86 00 00-0028 Steel Drums (02 86 00 00-0001)		
02 86 00 00-0029 UN Rated Steel Drums (02 86 00 00-0028)		
02 86 00 00-0030 EA UN 1A2/X 320/S 55 Gallon, Open, 16 Gauge, Steel Drum	105.80	
02 86 00 00-0031 EA 55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (25-49)	941.29	
02 86 00 00-0032 EA 8 Gallon, 17C, Open, Steel Drum	63.44	
02 86 00 00-0033 EA 55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (10-24)	759.57	
02 86 00 00-0034 EA 55 Gallon Reconditioned Steel 17h Drum (50+)	62.06	

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

02 86 00 00-0035	EA	55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (25-49)	745.28
02 86 00 00-0036	EA	55 Gallon Stainless Steel DOT 5C Ch Seamless Drum 16-Gauge (10-24)	1,090.35
02 86 00 00-0037	EA	55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (50+)	892.29
02 86 00 00-0038	EA	UN 1A2/X 320/S 55 Gallon, Closed, 16 Gauge, Steel Drum	99.99
02 86 00 00-0039	EA	UN 1A2/Y 1.4/100 55 Gallon, Open, 16 Gauge, Steel Drum	81.08
02 86 00 00-0040	EA	55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (1-9)	986.21
02 86 00 00-0041	EA	55 Gallon Stainless Steel DOT 5C Ch Seamless Drum 16-Gauge (25-49)	1,069.93
02 86 00 00-0042	EA	55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (50+)	671.77
02 86 00 00-0043	EA	55 Gallon Stainless Steel DOT 5C Ch Seamless Drum 16-Gauge (50+)	963.75
02 86 00 00-0044	EA	UN 1A2/Y 1.4/100 55 Gallon, Closed, 16 Gauge, Steel Drum	63.90
02 86 00 00-0045	EA	55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (10-24)	967.84
02 86 00 00-0046	EA	30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (1-9)	632.97
02 86 00 00-0047	EA	30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (10-24)	608.47
02 86 00 00-0048	EA	55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (1-9)	1,029.09
02 86 00 00-0049	EA	55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (25-49)	871.87
02 86 00 00-0050	EA	UN 1A2/X 160/S 30 Gallon, Open, 18 Gauge, Steel Drum	74.07
02 86 00 00-0051	EA	55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (50+)	826.95
02 86 00 00-0052	EA	UN 1A2/Y 1.4/100 30 Gallon, Open, 18 Gauge, Steel Drum	62.96
02 86 00 00-0053	EA	55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (10-24)	1,004.59
02 86 00 00-0054	EA	30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (25-49)	581.93
02 86 00 00-0055	EA	30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (50+)	561.51
02 86 00 00-0056	EA	55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (25-49)	986.21
02 86 00 00-0057	EA	30 Gallon, 17E, Open, Steel Drum	45.68
02 86 00 00-0058	EA	55 Gallon Reconditioned Steel 17h Drum (1-9)	91.02
02 86 00 00-0059	EA	20 Gallon, 17C, Open, Steel Drum	64.19
02 86 00 00-0060	EA	55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (50+)	888.20
02 86 00 00-0061	EA	55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (1-9)	1,063.80
02 86 00 00-0062	EA	55 Gallon Reconditioned Steel 17h Drum (10-24)	80.68
02 86 00 00-0063	EA	55 Gallon Reconditioned Steel 17h Drum (25-49)	70.33
02 86 00 00-0064	EA	55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (1-9)	777.94
02 86 00 00-0065	EA	55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (10-24)	1,043.39
02 86 00 00-0066	EA	20 Gallon, 17E, Open, Steel Drum	43.21

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

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

02 86 00 00-0069	EA	55 Gallon Polyethylene Closed Head Drums	66.42
02 86 00 00-0070	EA	35 Gallon Polyethylene Closed Head Drums	50.98
02 86 00 00-0071	EA	30 Gallon Polyethylene Closed Head Drums	46.29
02 86 00 00-0072	EA	20 Gallon Polyethylene Closed Head Drums	32.34
02 86 00 00-0073	EA	15 Gallon Polyethylene Closed Head Drums	31.73

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

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

02 86 00 00-0075	EA	55 Gallon Polyethylene Open Head Drums	83.95
02 86 00 00-0076	EA	35 Gallon Polyethylene Open Head Drums	61.72
02 86 00 00-0077	EA	30 Gallon Polyethylene Open Head Drums	58.64
02 86 00 00-0078	EA	20 Gallon Polyethylene Open Head Drums	43.21
02 86 00 00-0079	EA	15 Gallon Polyethylene Open Head Drums	37.03

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

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

02 86 00 00-0082	EA	30 Gallon Fiber Drum DOT-21C (1-9)	50.86
02 86 00 00-0083	EA	30 Gallon Fiber Drum DOT-21C (10-24)	47.65
02 86 00 00-0084	EA	30 Gallon Fiber Drum DOT-21C (25-49)	43.45
02 86 00 00-0085	EA	30 Gallon Fiber Drum DOT-21C (50+)	42.96
02 86 00 00-0086	EA	55 Gallon Fiber Drum DOT-21C (1-9)	52.34
02 86 00 00-0087	EA	55 Gallon Fiber Drum DOT-21C (10-24)	49.38
02 86 00 00-0088	EA	55 Gallon Fiber Drum DOT-21C (25-49)	45.68
02 86 00 00-0089	EA	55 Gallon Fiber Drum DOT-21C (50-99)	44.19
02 86 00 00-0090	EA	55 Gallon Fiber Drum DOT-21C (100+)	38.27
02 86 00 00-0091	EA	10 Gallon, 20" Diameter, DOT 21C-250 Polyethylene/Polyester Lined	32.59
02 86 00 00-0092	EA	20 Gallon, 20" Diameter, DOT 21C-250 Polyethylene/Polyester Lined	35.55
02 86 00 00-0093	EA	20 Gallon, 23" Diameter, DOT 21C-250 Polyethylene/Polyester Lined	41.48

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

02 86 00 00-0095	EA	Load Drums On Disposal Truck	9.81
02 86 00 00-0096	EA	Load Liquid Or Sludge Into 5,000 Gallon Bulk Tank Truck	1,057.93

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

Note: Includes transportation for up to 25 miles.

02 86 00 00-0098	EA	Transport Drum To Landfill	68.46
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Note: Includes transportation for up to 25 miles.



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

02

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

02 87 13 Mold Remediation (02 87)

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

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

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

Note: Treat fittings as additional lf of insulation.

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

Note: Diameter is outer size of insulation.

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

Note: Excludes encased fittings.

02 87 13 33-0004	SET	Up To 20 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	592.79
02 87 13 33-0005	LF	>20 To 250 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	23.00
02 87 13 33-0006	LF	>250 To 500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	17.34
02 87 13 33-0007	LF	>500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	13.09
02 87 13 33-0008	LF	>2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	9.90
02 87 13 33-0009	LF	>10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	8.66

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

02 87 13 33-0011	SET	Up To 20 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	614.02
02 87 13 33-0012	LF	>20 To 250 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	27.46
02 87 13 33-0013	LF	>250 To 500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	20.94
02 87 13 33-0014	LF	>500 To 2,500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	16.06
02 87 13 33-0015	LF	>2,500 To 10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	12.39
02 87 13 33-0016	LF	>10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	10.96

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

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

02 87 13 33-0019	SET	Up To 50 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	603.41
02 87 13 33-0020	SF	>50 To 500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	13.36
02 87 13 33-0021	SF	>500 To 2,500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	10.11
02 87 13 33-0022	SF	>2,500 To 10,000 SF, Up To 3" Thick Other Thermal Insulation, Mold Abatement And Disposal	7.68
02 87 13 33-0023	SF	>10,000 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	5.96

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

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

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

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

02 87 13 33-0026	SET	Up To 50 SF, Stucco, Mold Abatement And Disposal	597.51
02 87 13 33-0027	SF	>50 To 500 SF, Stucco, Mold Abatement And Disposal	13.25
02 87 13 33-0028	SF	>500 To 2,500 SF, Stucco, Mold Abatement And Disposal	10.00
02 87 13 33-0029	SF	>2,500 To 10,000 SF, Stucco, Mold Abatement And Disposal	7.57
02 87 13 33-0030	SF	>10,000 SF, Stucco, Mold Abatement And Disposal	5.74

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

Note: Exposed surface area, includes associated overspray.

02 87 13 33-0032	SET	Up To 50 SF, Fireproofing, Mold Abatement And Disposal	603.41
02 87 13 33-0033	SF	>50 To 500 SF, Fireproofing, Mold Abatement And Disposal	18.29
02 87 13 33-0034	SF	>500 To 2,500 SF, Fireproofing, Mold Abatement And Disposal	13.82
02 87 13 33-0035	SF	>2,500 To 10,000 SF, Fireproofing, Mold Abatement And Disposal	10.45
02 87 13 33-0036	SF	>10,000 SF, Fireproofing, Mold Abatement And Disposal	7.93

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

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

02 87 13 33-0039	SET	Up To 100 SF, Exterior Siding Board, Mold Abatement And Disposal	609.31
02 87 13 33-0040	SF	>100 To 500 SF, Exterior Siding Board, Mold Abatement And Disposal	5.47
02 87 13 33-0041	SF	>500 To 2,500 SF, Exterior Siding Board, Mold Abatement And Disposal	3.81
02 87 13 33-0042	SF	>2,500 To 10,000 SF, Exterior Siding Board, Mold Abatement And Disposal	2.59
02 87 13 33-0043	SF	>10,000 SF, Exterior Siding Board, Mold Abatement And Disposal	2.34

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

02 87 13 33-0044	Contaminated Debris, Mold Abatement And Disposal (02 87 13 33)		
02 87 13 33-0045	Contaminated Debris, Mold Abatement And Disposal (02 87 13 33-0044)		
02 87 13 33-0046	SET Up To 20 CF, Contaminated Debris, Mold Abatement And Disposal	.....	614.02
02 87 13 33-0047	CF >20 To 100 CF, Contaminated Debris, Mold Abatement And Disposal	.....	21.66
02 87 13 33-0048	CF >100 To 250 CF, Contaminated Debris, Mold Abatement And Disposal	.....	14.92
02 87 13 33-0049	CF >250 To 500 CF, Contaminated Debris, Mold Abatement And Disposal	.....	11.54
02 87 13 33-0050	CF >500 To 2,500 CF, Contaminated Debris, Mold Abatement And Disposal	.....	9.51
02 87 13 33-0051	CF >2,500 To 10,000 CF, Contaminated Debris, Mold Abatement And Disposal	.....	5.83
02 87 13 33-0052	CF >10,000 CF, Contaminated Debris, Mold Abatement And Disposal	.....	5.38
02 87 13 33-0053	Other Mold Containing Materials, Mold Abatement And Disposal (02 87 13 33)		
02 87 13 33-0054	Caulking, Mold Abatement And Disposal (02 87 13 33-0053)		
02 87 13 33-0055	SET Up To 20 LF, Caulking, Mold Abatement And Disposal	.....	146.82
02 87 13 33-0056	LF >20 To 50 LF, Caulking, Mold Abatement And Disposal	.....	2.95
02 87 13 33-0057	LF >50 To 100 LF, Caulking, Mold Abatement And Disposal	.....	2.12
02 87 13 33-0058	LF >100 To 250 LF, Caulking, Mold Abatement And Disposal	.....	1.60
02 87 13 33-0059	LF >250 To 1,000 LF, Caulking, Mold Abatement And Disposal	.....	1.19
02 87 13 33-0060	LF >1,000 To 2,500 LF, Caulking, Mold Abatement And Disposal	.....	0.97
02 87 13 33-0061	LF >2,500 LF, Caulking, Mold Abatement And Disposal	.....	0.84
02 87 13 33-0062	Wipe Down Walls, Ceilings And Floors (02 87 13 33-0053)		
02 87 13 33-0063	CSF Wipe Down Floors With Mild Bleach Solution	.....	16.29
	For >25 To 50, Deduct	.....	-1.63
	For >50 To 200, Deduct	.....	-4.07
	For >200, Deduct	.....	-6.51
02 87 13 33-0064	CSF Wipe Down Walls With Mild Bleach Solution	.....	19.16
	For >25 To 50, Deduct	.....	-1.91
	For >50 To 200, Deduct	.....	-4.79
	For >200, Deduct	.....	-7.66
02 87 13 33-0065	CSF Wipe Down Ceilings With Mild Bleach Solution	.....	21.79
	For >25 To 50, Deduct	.....	-2.18
	For >50 To 200, Deduct	.....	-5.44
	For >200, Deduct	.....	-8.71
02 87 13 33-0066	CSF Wipe Down Countertops With Mild Bleach Solution	.....	17.77
	For >25 To 50, Deduct	.....	-1.78
02 87 13 33-0067	CSF Wipe Down Other Surfaces With Mild Bleach Solution	.....	22.54
	For >25 To 50, Deduct	.....	-2.25
	For >50 To 200, Deduct	.....	-5.63
	For >200, Deduct	.....	-9.01
02 87 16	Excrement Removal (02 87)		
	Note: Tasks include materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, clean-up, vacuuming, disposal, personnel health monitoring, documentation and other associated costs necessary for the complete removal and disposal of the contaminated material in accordance with EPA and local regulations. The quantity of the entire project, not a particular work area, is to be used in determining which tasks apply. There is a task with a unit of measure of EA for a quantity of less than 10 SF, followed by a series of tasks for additional quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus each additional task in sequence to arrive at the total quantity for the entire project, not a particular work area.		
02 87 16 13	Bird Excrement Removal (02 87 16)		
02 87 16 13-0001	Bird Waste Removal (02 87 16 13)		
	Note: In addition to items listed the Bio-Hazard Material Remediation note above, tasks include wetting agents and disinfection of contaminated surfaces.		
02 87 16 13-0002	EA Up To 10 SF Bird Waste Removal, Up To 3" Thickness	.....	585.72
	For Work In Restricted Working Space, Add	.....	175.72
02 87 16 13-0003	SF >10 To 500 SF Bird Waste Removal, Up To 3" Thickness	.....	9.76
	For Work In Restricted Working Space, Add	.....	2.93
02 87 16 13-0004	SF >500 To 2,500 SF Bird Waste Removal, Up To 3" Thickness	.....	8.88
	For Work In Restricted Working Space, Add	.....	2.66
02 87 16 13-0005	SF >2,500 To 10,000 SF Bird Waste Removal, Up To 3" Thickness	.....	8.07
	For Work In Restricted Working Space, Add	.....	2.42
02 87 16 13-0006	SF >10,000 SF Bird Waste Removal, Up To 3" Thickness	.....	7.34
	For Work In Restricted Working Space, Add	.....	2.20
02 89	Hazmat Ancillary Tasks and Support (02 89)		
02 89 00 00-0001	Barriers And Protection (02 89)		
	Note: Includes removal and disposal after use.		
02 89 00 00-0002	Hazmat Containment Construction (02 89 00 00-0001)		
02 89 00 00-0003	SF 6 Mil Plastic Sheeting, Applied To Floors, Hazmat Containment Construction	.....	0.35
02 89 00 00-0004	SF 6 Mil Plastic Sheeting, Applied To Walls, Hazmat Containment Construction	.....	0.47
02 89 00 00-0005	SF 6 Mil Plastic Sheeting, Applied To Ceilings, Hazmat Containment Construction	.....	0.62
02 89 00 00-0006	SF 6 Mil Plastic Fire Retardant, Anti Static Sheeting, Applied To Floors, Hazmat Containment Construction	.....	0.58
02 89 00 00-0007	SF 6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Walls, Hazmat Containment Construction	.....	0.74
02 89 00 00-0008	SF 6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Ceilings, Hazmat Containment Construction	.....	0.97



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 89 00 00-0009 Decontamination Chambers <small>(02 89)</small> Note: Includes removal after use.		
02 89 00 00-0010 EA 3 Stage Portable Personnel Decontamination Wash Facility Note: Includes connection to negative air system.	767.12	
02 89 00 00-0011 EA 5 Stage Portable Personnel Decontamination Wash Facility Note: Includes connection to negative air system.	905.75	
02 89 00 00-0012 EA Portable Waste Decontamination Unit Note: Includes connection to negative air system.	481.45	
<i>For Dismantling And Relocation To A Different Area, Add</i>		327.15

END OF SECTION 02

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



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST

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

03 01 Maintenance of Concrete (03)

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

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

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

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

03 01 30 51-0002	SF	Concrete Floors, Abrasive Shot Blasting.....	2.31
		<i>For Up To 100, Add</i>	2.70
		<i>For >100 To 250, Add</i>	0.68
		<i>For >250 To 500, Add</i>	0.34
		<i>For >5,000 To 10,000, Deduct</i>	-0.07
		<i>For >10,000, Deduct</i>	-0.14
03 01 30 51-0003	SF	Concrete Walls, Abrasive Shot Blasting.....	3.67
		<i>For Up To 100, Add</i>	5.42
		<i>For >100 To 250, Add</i>	1.36
		<i>For >250 To 500, Add</i>	0.68
		<i>For >5,000 To 10,000, Deduct</i>	-0.14
		<i>For >10,000, Deduct</i>	-0.27

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

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

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

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

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

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

03 01 30 71-0004	SF	Patch Decks Or Floors With 1/8" To 1/4" Thick Cementitious Mortar.....	6.44
03 01 30 71-0005	SF	Patch Decks Or Floors With 1/8" To 1/4" Thick Epoxy Cementitious Mortar.....	22.42
03 01 30 71-0006	SF	Patch Decks Or Floors With White Aluminum Oxide Grit (Non Slip Aggregate)	0.61

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

03 01 30 71-0008	SY	Grinding Cured, Warped, Or Rough Concrete Slabs	1.83
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03 01 30 71-0009 Verticals Or Overheads (03 01 30 71-0002)

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

03 01 30 71-0010	SF	Patch Verticals Or Overheads With 1/8" To 1/4" Thick Cementitious Mortar	9.52
03 01 30 71-0011	SF	Patch Verticals Or Overheads With 1/8" To 1/4" Thick Epoxy Cementitious Mortar	29.36
03 01 30 71-0012	SF	Patch Verticals Or Overheads With 1/8" To 1/4" Thick Latex Cementitious Mortar	33.42
03 01 30 71-0013	SF	Patch Verticals Or Overheads With 1/8" To 1/4" Thick Elastomeric Compound	7.13
03 01 30 71-0014	SF	Patch Verticals Or Overheads With 1/8" To 1/4" Thick Copolymer Cementitious Compound.....	12.49

Note: Rapid Set - WunderFixx

03 01 30 71-0015 Bridge Deck Treatment (03 01 30 71-0002)

03 01 30 71-0016	SF	Sweep Bridge Deck	0.02
03 01 30 71-0017	SF	Clean Bridge Deck	0.02
03 01 30 71-0018	SF	Treat Bridge Deck With Methacrylate Resin Sealant	1.71

03 01 30 71-0019 Concrete Finishes (03 01 30 71-0001)

03 01 30 71-0020 Concrete Patching (03 01 30 71-0019)

03 01 30 71-0021 Walls (03 01 30 71-0020)

03 01 30 71-0022	BAG	Sika Top 111 Plus.....	129.47
		Note: SikaTop 111 PLUS is a two-component, polymer-modified, portland-cement, fast-setting, screed mortar. Yield: Approximately 0.5 cu. ft./unit. Approximately 0.75 cu. ft./unit (SikaTop 111 + 42 lbs. of 3/8" pea gravel).	
		<i>For Up To 10, Add</i>	44.05
		<i>For >10 To 25, Add</i>	26.43
		<i>For >25 To 50, Add</i>	17.62
		<i>For >50 To 75, Add</i>	8.81
03 01 30 71-0023	BAG	Sika Grout 212, 50 LB Bag	90.30
		Note: SikaGrout 212 is a non-shrink, cementitious grout with a unique 2-stage shrinkage compensating mechanism. It is non-metallic and contains no chloride. Coverage: Approximately 0.44 cu. ft./bag at high flow.	
		<i>For Up To 10, Add</i>	27.91
		<i>For >10 To 25, Add</i>	16.74
		<i>For >25 To 50, Add</i>	11.16
		<i>For >50 To 75, Add</i>	5.58
03 01 30 71-0024	EA	Sika Flex 1A, 10.3 Ounce Tube	33.70
		Note: Sikaflex-1a is a premium-grade, high-performance, moisture-cured, 1-component, polyurethane-based, non-sag elastomeric sealant. Coverage: 10.3 fl. oz. cartridge seals 12.4 lineal ft. of 1/2 x 1/4 in. joint. 20 fl. oz. uni-pac sausage seals 24 lineal ft. of 1/2 x 1/4 in. joint.	
03 01 30 71-0025	BAG	Pea Gravel.....	24.27

03 Concrete**03 01 Maintenance of Concrete****03 01 30 Maintenance of Cast-In-Place Concrete**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 01 30 71-0026	Crack Repair For Concrete (03 01 30 71-0001)	
03 01 30 71-0027	Non Structural Crack Repair For Concrete (03 01 30 71-0026)	
03 01 30 71-0028	Surface Applied, Non Structural Crack Repair For Concrete (03 01 30 71-0027) Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing sealer with caulk gun, cartridge gun, squeeze bottle, etc. Excludes backer rod and sanding.	
03 01 30 71-0029	LF Up To 1/4" Wide, Latex Emulsion, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	5.42
	For V-Grooving Crack With Grinder, Add	4.35
03 01 30 71-0030	LF >1/4" To 1/2" Wide, Latex Emulsion, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	7.07
	For V-Grooving Crack With Grinder, Add	4.24
03 01 30 71-0031	LF Up To 1/4" Wide, Sanded Acrylic Latex, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	5.52
	For V-Grooving Crack With Grinder, Add	4.35
03 01 30 71-0032	LF >1/4" To 1/2" Wide, Sanded Acrylic Latex, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	7.26
	For V-Grooving Crack With Grinder, Add	4.24
03 01 30 71-0033	LF Up To 1/4" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant).....	5.87
	For V-Grooving Crack With Grinder, Add	4.35
03 01 30 71-0034	LF >1/4" To 1/2" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant).....	7.96
	For V-Grooving Crack With Grinder, Add	4.24
03 01 30 71-0035	LF Up To 1/4" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix).....	6.12
	For V-Grooving Crack With Grinder, Add	4.35
03 01 30 71-0036	LF >1/4" To 1/2" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix).....	8.47
	For V-Grooving Crack With Grinder, Add	4.24
03 01 30 71-0037	Pressure Injected, Non Structural Crack Repair For Concrete (03 01 30 71-0027) Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with polyurethane and restoring the sealed surface to flush conditions. Excludes disposal.	
03 01 30 71-0038	LF Up To 1/4" Wide, Water Activated Polyurethane Foam Grout, Non Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (SealBoss 1570).....	23.68
	For Cracks Accessible From Both Sides, Add	4.81
03 01 30 71-0039	Structural Crack Repair For Concrete (03 01 30 71-0026)	
03 01 30 71-0040	Surface Applied, Structural Crack Repair For Concrete (03 01 30 71-0039) Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Excludes disposal.	
03 01 30 71-0041	LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35).....	6.19
	For V-Grooving Crack With Grinder, Add	4.35
03 01 30 71-0042	LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35).....	8.60
	For V-Grooving Crack With Grinder, Add	4.24
03 01 30 71-0043	LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied Trowel (Sikadur® 52).....	5.99
	For V-Grooving Crack With Grinder, Add	4.35
03 01 30 71-0044	LF >1/4" To 1/2" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 52).....	8.20
	For V-Grooving Crack With Grinder, Add	4.24
03 01 30 71-0045	LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix).....	7.19
	For V-Grooving Crack With Grinder, Add	4.35
03 01 30 71-0046	LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix).....	10.61
	For V-Grooving Crack With Grinder, Add	4.24
03 01 30 71-0047	Pressure Injected, Structural Crack Repair For Concrete (03 01 30 71-0039) Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with epoxy and restoring the sealed surface to flush conditions. Excludes disposal.	
03 01 30 71-0048	LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 35).....	20.95
	For Cracks Accessible From Both Sides, Add	4.81
03 01 30 71-0049	LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 52).....	20.75
	For Cracks Accessible From Both Sides, Add	4.81
03 01 30 71-0050	Carbon Fiber Strengthening System (03 01 30 71-0001) Note: Includes preparing surface, dust and debris removal by hand, clean and protect adjacent area, fill voids, primer, fabric substrate layers, final coat of epoxy and finish. Excludes disposal.	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 01 30 71-0051 SF Carbon Fiber Strengthening System Beams, Per Layer Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.	69.90	
03 01 30 71-0052 SF Carbon Fiber Strengthening System Columns, Per Layer Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.	61.47	
03 01 30 71-0053 SF Carbon Fiber Strengthening System Slabs, Per Layer Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.	54.08	

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

03 01 30 72-0001 Concrete Surface Repairs (03 01 30 72)		
03 01 30 72-0002 SF Sound The Concrete Surface To Locate Delaminated Areas	0.34	

03 05 Common Work Results For Concrete (03)

03 05 13 Concrete Admixtures (03 05)

03 05 13 00-0001 Concrete Admixtures (03 05 13)		
03 05 13 00-0002 CY Low Range Water Reducing (LRWR), Type A Concrete Admixture	4.64	
03 05 13 00-0003 CY Set Retarding, Type B Concrete Admixture	3.22	
03 05 13 00-0004 CY 1% Calcium Chloride Accelerating, Type C Concrete Admixture	5.00	
03 05 13 00-0005 CY 2% Calcium Chloride Accelerating, Type C Concrete Admixture	10.00	
03 05 13 00-0006 CY 1% Non-Chloride Accelerating, Type C Concrete Admixture	8.93	
03 05 13 00-0007 CY 2% Non-Chloride Accelerating, Type C Concrete Admixture	17.86	
03 05 13 00-0008 CY Water Reducing and Retarding (Hydration Stabilizer), Type D Concrete Admixture	3.86	
03 05 13 00-0009 CY 1% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture	5.36	
03 05 13 00-0010 CY 2% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture	10.72	
03 05 13 00-0011 CY Mid Range Water Reducing (MRWR) Superplasticizer, Type A Or E Concrete Admixture	6.72	
03 05 13 00-0012 CY High Range Water Reducing (HRWR) Superplasticizer, Type F Concrete Admixture	8.58	
03 05 13 00-0013 CY 1-1/2 LB/CY Polyethylene, Polypropylene, Nylon, Synthetic Plastic Fibers, Concrete Admixture	11.43	
03 05 13 00-0014 CY 25 LB/CY Steel Fibers, Concrete Admixture	26.57	
03 05 13 00-0015 CY 10% Microsilica (Silica Fume), Concrete Admixture	57.17	
03 05 13 00-0016 CY Corrosion Inhibiting Concrete Admixture	21.44	
03 05 13 00-0017 CY Winter Service Or Heat, Concrete Add	5.00	
03 05 13 00-0018 CY Chilled Water, Concrete Add	5.00	
03 05 13 00-0019 CY Subtle Color (See Davis Colors Color Card), Concrete Admixture	28.94	
03 05 13 00-0020 CY Standard Color (See Davis Colors Color Card), Concrete Admixture	48.24	
03 05 13 00-0021 CY Premium Color (See Davis Colors Color Card), Concrete Admixture	92.61	
03 05 13 00-0022 CY Ultra Premium Color (See Davis Colors Color Card), Concrete Admixture	128.63	

03 10 Concrete Forming and Accessories (03)

03 11 Concrete Forming (03 10)

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

Note: Per square foot of formwork.

03 11 13 00-0001 Wood Formwork (03 11 13) Note: For job built wood and/or plywood form systems where metal framed formwork cannot be used. Includes erecting, stripping, stacking, plywood, framing lumber, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.		
03 11 13 00-0002 Foundation Wood Formwork (03 11 13 00-0001) Note: For foundation work below or at grade.		
03 11 13 00-0003 SF Continuous Footings Foundation Wood Formwork	8.84	
For <1,000, Add	1.53	
For Foundations >8' Below Grade, Add	1.41	
For Curved Formwork, Add	2.82	
03 11 13 00-0004 SF Pile Cap, Pier Or Spread Footings Foundation Wood Formwork	10.31	
For <1,000, Add	1.81	
For Foundations >8' Below Grade, Add	1.69	
For Curved Formwork, Add	3.37	
03 11 13 00-0005 SF Mat Foundation Wood Formwork	11.54	
For <1,000, Add	2.08	
For Foundations >8' Below Grade, Add	1.97	
For Curved Formwork, Add	3.94	
03 11 13 00-0006 SF Grade Beams Or Duct Bank Foundation Wood Formwork	9.86	
For <1,000, Add	1.75	
For Foundations >8' Below Grade, Add	1.63	
For Curved Formwork, Add	3.27	
03 11 13 00-0007 SF Below Grade Walls Foundation Wood Formwork	14.12	
Note: Excludes footing		
For <1,000, Add	2.49	
For Foundations >8' Below Grade, Add	2.32	
For Curved Formwork, Add	4.63	

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

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0009 LF Up To 6" High Slab Edge and Block-Out Wood Formwork .....6.48 <i>For Foundations >8' Below Grade, Add</i> 1.11 <i>For Curved Formwork, Add</i> 2.21 <i>For Up To 250, Add</i> 1.17		
03 11 13 00-0010 LF >6" To 12" High Slab Edge and Block-Out Wood Formwork.....9.70 <i>For Foundations >8' Below Grade, Add</i> 1.56 <i>For Curved Formwork, Add</i> 3.13 <i>For Up To 250, Add</i> 1.69		
03 11 13 00-0011 SF >12" High Slab Edge and Block-Out Wood Formwork .....12.29 <i>For Foundations >8' Below Grade, Add</i> 2.01 <i>For Curved Formwork, Add</i> 4.03 <i>For <1,000, Add</i> 2.16		
03 11 13 00-0012 Column Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0013 LF Up To 8" Square Column Wood Formwork .....52.50		
03 11 13 00-0014 LF >8" To 12" Square Column Wood Formwork .....78.10		
03 11 13 00-0015 LF >12" To 18" Square Column Wood Formwork .....96.16		
03 11 13 00-0016 LF >18" To 24" Square Column Wood Formwork .....133.95		
03 11 13 00-0017 LF >24" To 36" Square Column Wood Formwork .....190.87		
03 11 13 00-0018 LF >36" To 48" Square Column Wood Formwork .....248.56		
03 11 13 00-0019 Above Grade Wall Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0020 SF Up To 8' High Above Grade Wall Wood Formwork .....15.54 <i>For Curved Formwork, Add</i> 5.20 <i>For <1,000, Add</i> 2.77		
03 11 13 00-0021 SF >8' High Above Grade Wall Wood Formwork.....18.38 <i>For Curved Formwork, Add</i> 6.17 <i>For <1,000, Add</i> 3.28		
03 11 13 00-0022 Elevated Beam Wood Formwork (03 11 13 00-0001)		
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.		
03 11 13 00-0023 SF Bottom of Elevated Beam Wood Formwork .....19.29 <i>For Curved Formwork, Add</i> 6.68 <i>For <1,000, Add</i> 3.51		
03 11 13 00-0024 SF Vertical Sides of Elevated Beam Wood Formwork.....12.81 <i>For Curved Formwork, Add</i> 4.32 <i>For <1,000, Add</i> 2.29		
03 11 13 00-0025 Elevated Slab Wood Formwork (03 11 13 00-0001)		
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.		
03 11 13 00-0026 SF Elevated Slab Wood Formwork.....12.01 <i>For <1,000, Add</i> 2.07		
03 11 13 00-0027 Metal Framed Formwork (03 11 13)		
Note: For all metal framed and metal form systems. Includes erecting, stripping, stacking, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.		
03 11 13 00-0028 Foundation Metal Framed Formwork (03 11 13 00-0027)		
Note: For foundation work below or at grade.		
03 11 13 00-0029 SF Continuous Footings Foundation Metal Framed Formwork .....6.82 <i>For <1,000, Add</i> 1.26 <i>For Foundations >8' Below Grade, Add</i> 1.21 <i>For Curved Formwork, Add</i> 2.41		
03 11 13 00-0030 SF Pile Cap, Pier Or Spread Footings Foundation Metal Framed Formwork .....7.57 <i>For <1,000, Add</i> 1.41 <i>For Foundations >8' Below Grade, Add</i> 1.35 <i>For Curved Formwork, Add</i> 2.70		
03 11 13 00-0031 SF Mat Foundation Metal Framed Formwork .....8.47 <i>For <1,000, Add</i> 1.56 <i>For Foundations >8' Below Grade, Add</i> 1.49 <i>For Curved Formwork, Add</i> 2.98		
03 11 13 00-0032 SF Grade Beams Or Duct Bank Foundation Metal Framed Formwork.....7.16 <i>For <1,000, Add</i> 1.32 <i>For Foundations >8' Below Grade, Add</i> 1.26 <i>For Curved Formwork, Add</i> 2.51		
03 11 13 00-0033 SF Below Grade Walls Foundation Metal Framed Formwork.....10.91 Note: Excludes footing. <i>For <1,000, Add</i> 2.04 <i>For Foundations >8' Below Grade, Add</i> 1.96 <i>For Curved Formwork, Add</i> 3.93		
03 11 13 00-0034 Slab Edge And Block-Out Metal Framed Formwork (03 11 13 00-0027)		
03 11 13 00-0035 LF Up To 6" High Slab Edge and Block-Out Metal Framed Formwork.....4.91 <i>For Foundations >8' Below Grade, Add</i> 0.96 <i>For Curved Formwork, Add</i> 1.92 <i>For <250, Add</i> 0.97		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0036	LF			>6" To 12" High Slab Edge and Block-Out Metal Framed Formwork.....6.14 <i>For Foundations >8' Below Grade, Add</i> <i>For Curved Formwork, Add</i> <i>For <250, Add</i>	1.19 2.38 1.20	
03 11 13 00-0037	SF			>12" High Slab Edge and Block-Out Metal Framed Formwork .....6.80 <i>For Foundations >8' Below Grade, Add</i> <i>For Curved Formwork, Add</i> <i>For <1,000, Add</i>	1.32 2.63 1.33	
03 11 13 00-0038				Column Metal Framed Formwork (03 11 13 00-0027)		
03 11 13 00-0039				Square Columns (03 11 13 00-0038)		
03 11 13 00-0040	LF			Up To 12" Square Column Metal Framed Formwork .....41.74		
03 11 13 00-0041	LF			>12" To 16" Square Column Metal Framed Formwork .....50.43		
03 11 13 00-0042	LF			>16" To 20" Square Column Metal Framed Formwork .....59.13		
03 11 13 00-0043	LF			>20" To 24" Square Column Metal Framed Formwork .....70.66		
03 11 13 00-0044	LF			>24" To 30" Square Column Metal Framed Formwork .....85.11		
03 11 13 00-0045	LF			>30" To 36" Square Column Metal Framed Formwork .....102.19		
03 11 13 00-0046	LF			>36" To 48" Square Column Metal Framed Formwork .....131.09		
03 11 13 00-0047	LF			>48" To 60" Square Column Metal Framed Formwork .....161.66		
03 11 13 00-0048				Round Columns (03 11 13 00-0038)		
03 11 13 00-0049	LF			Up To 12" Diameter Column Metal Formwork.....40.58		
03 11 13 00-0050	LF			>12" To 16" Diameter Column Metal Formwork.....45.17		
03 11 13 00-0051	LF			>16" To 20" Diameter Column Metal Formwork.....51.87		
03 11 13 00-0052	LF			>20" To 24" Diameter Column Metal Formwork .....60.55		
03 11 13 00-0053	LF			>24" To 30" Diameter Column Metal Formwork .....71.52		
03 11 13 00-0054	LF			>30" To 36" Diameter Column Metal Formwork .....81.95		
03 11 13 00-0055	LF			>36" To 48" Diameter Column Metal Formwork .....106.04		
03 11 13 00-0056	LF			>48" To 60" Diameter Column Metal Formwork .....137.96		
03 11 13 00-0057				Above Grade Wall Metal Framed Formwork (03 11 13 00-0027)		
03 11 13 00-0058	SF			Up to 8' High Above Grade Wall Metal Framed Formwork .....6.68 <i>For Curved Formwork, Add</i> <i>For <1,000, Add</i>	2.24 1.19	
03 11 13 00-0059	SF			>8' High Above Grade Wall Metal Framed Formwork .....8.15 <i>For Curved Formwork, Add</i> <i>For <1,000, Add</i>	2.70 1.44	
03 11 13 00-0060				Elevated Beam Metal Framed Formwork (03 11 13 00-0027) Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.		
03 11 13 00-0061	SF			Bottom of Elevated Beam Metal Framed Formwork .....6.56 <i>For Curved Formwork, Add</i> <i>For <1,000, Add</i>	2.08 1.13	
03 11 13 00-0062	SF			Vertical Sides of Elevated Beam Metal Framed Formwork .....4.97 <i>For Curved Formwork, Add</i> <i>For <1,000, Add</i>	1.64 0.88	
03 11 13 00-0063				Elevated Slab Metal Framed Formwork (03 11 13 00-0027) Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.		
03 11 13 00-0064	SF			Elevated Slab Metal Framed Formwork .....8.61 <i>For <1,000, Add</i>	1.34	
03 11 13 00-0065				Fiber Tube Formwork (03 11 13) Note: Includes all supporting braces, erecting, aligning, stripping, turnbuckles, ties and clips.		
03 11 13 00-0066				Round Column Fiber Tube Formwork (03 11 13 00-0065)		
03 11 13 00-0067	LF			6" Diameter Round Fiber Tube Formwork .....17.31 <i>For Plastic Lined, Add</i> <i>For Columns >12' In Length, Add</i>	0.62 1.73	
03 11 13 00-0068	LF			8" Diameter Round Fiber Tube Formwork .....18.25 <i>For Plastic Lined, Add</i> <i>For Columns >12' In Length, Add</i>	0.74 1.83	
03 11 13 00-0069	LF			10" Diameter Round Fiber Tube Formwork .....20.16 <i>For Plastic Lined, Add</i> <i>For Columns >12' In Length, Add</i>	0.85 2.02	
03 11 13 00-0070	LF			12" Diameter Round Fiber Tube Formwork .....23.76 <i>For Plastic Lined, Add</i> <i>For Columns >12' In Length, Add</i>	1.22 2.38	
03 11 13 00-0071	LF			14" Diameter Round Fiber Tube Formwork .....26.82 <i>For Plastic Lined, Add</i> <i>For Columns >12' In Length, Add</i>	1.65 2.68	
03 11 13 00-0072	LF			16" Diameter Round Fiber Tube Formwork .....29.04 <i>For Plastic Lined, Add</i> <i>For Columns >12' In Length, Add</i>	2.09 2.90	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0073 LF 18" Diameter Round Fiber Tube Formwork.....	30.50	
For Plastic Lined, Add	2.27	
For Columns >12' In Length, Add	3.05	
03 11 13 00-0074 LF 20" Diameter Round Fiber Tube Formwork.....	33.22	
For Plastic Lined, Add	2.83	
For Columns >12' In Length, Add	3.32	
03 11 13 00-0075 LF 22" Diameter Round Fiber Tube Formwork.....	36.35	
For Plastic Lined, Add	3.41	
For Columns >12' In Length, Add	3.64	
03 11 13 00-0076 LF 24" Diameter Round Fiber Tube Formwork.....	39.49	
For Plastic Lined, Add	3.99	
For Columns >12' In Length, Add	3.95	
03 11 13 00-0077 LF 26" Diameter Round Fiber Tube Formwork.....	41.17	
For Plastic Lined, Add	4.36	
For Columns >12' In Length, Add	4.12	
03 11 13 00-0078 LF 28" Diameter Round Fiber Tube Formwork.....	43.78	
For Plastic Lined, Add	5.00	
For Columns >12' In Length, Add	4.38	
03 11 13 00-0079 LF 30" Diameter Round Fiber Tube Formwork.....	46.57	
For Plastic Lined, Add	5.69	
For Columns >12' In Length, Add	4.66	
03 11 13 00-0080 LF 36" Diameter Round Fiber Tube Formwork.....	56.47	
For Plastic Lined, Add	8.15	
For Columns >12' In Length, Add	5.65	
03 11 13 00-0081 LF 42" Diameter Round Fiber Tube Formwork.....	76.67	
For Plastic Lined, Add	13.83	
For Columns >12' In Length, Add	7.67	
03 11 13 00-0082 LF 48" Diameter Round Fiber Tube Formwork.....	91.22	
For Plastic Lined, Add	17.83	
For Columns >12' In Length, Add	9.12	
03 11 13 00-0083 LF 54" Diameter Round Fiber Tube Formwork.....	151.02	
For Plastic Lined, Add	35.17	
For Columns >12' In Length, Add	15.10	
03 11 13 00-0084 LF 60" Diameter Round Fiber Tube Formwork.....	167.78	
For Plastic Lined, Add	39.74	
For Columns >12' In Length, Add	16.78	
03 11 13 00-0085 Accessories For Formwork (03 11 13)		
03 11 13 00-0086 Keyway Forms, All Materials (03 11 13 00-0085)		
03 11 13 00-0087 LF 2" x 4" To 2" x 6" Keyway Forms for Concrete Formwork, All Materials.....	2.28	
03 11 13 00-0088 Chamfer Strips, All Materials (03 11 13 00-0085)		
03 11 13 00-0089 LF 1/2" Wide Chamfer Strips for Concrete Formwork, All Materials.....	2.38	
03 11 13 00-0090 LF 3/4" Wide Chamfer Strips for Concrete Formwork, All Materials.....	2.84	
03 11 13 00-0091 LF 1" Wide Chamfer Strips for Concrete Formwork, All Materials.....	3.27	
03 11 13 00-0092 Strip Out Reglets For Concrete Formwork (03 11 13 00-0085)		
03 11 13 00-0093 LF 24 To 26 Gauge Galvanized Steel, Strip Out Reglets For Concrete Formwork.....	10.43	
03 11 13 00-0094 Sleeves And Chases, Plastic Or Sheet Metal (03 11 13 00-0085)		
03 11 13 00-0095 EA 2" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	12.47	
03 11 13 00-0096 EA 4" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	15.05	
03 11 13 00-0097 EA 6" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	18.19	
03 11 13 00-0098 EA 8" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	20.58	
03 11 13 00-0099 EA 12" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	26.50	
03 11 13 00-0100 EA 18" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	57.46	
03 11 16 Architectural Cast-In-Place Concrete Forming (03 11)		
03 11 16 13 Concrete Form Liners (03 11 16)		
03 11 16 13-0001 Concrete Form Liners (03 11 16 13)		
03 11 16 13-0002 SF Various Patterns And Textures, 1 Use, Concrete Form Liner, Add To Formwork.....	5.50	
03 11 16 13-0003 SF Beveled Edge, Rusticated Concrete Finish, 1 Use, Concrete Form Liner, Add To Formwork.....	6.95	
03 11 16 13-0004 SF Square Edge, Rusticated Concrete Finish, 1 Use, Concrete Form Liner, Add To Formwork.....	9.10	
03 11 23 Permanent Stair Forming (03 11)		
03 11 23 00-0001 Stairway Wood Formwork (03 11 23)		
03 11 23 00-0002 SF Cast On Grade Stairway Wood Formwork.....	18.43	
For Curved Formwork, Add	6.73	
For <1,000, Add	3.47	
03 11 23 00-0003 SF Elevated Stairway Wood Formwork.....	36.48	
Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair.		
For Curved Formwork, Add	13.16	
For <1,000, Add	6.82	



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

03 11 23 00-0005	SF Cast On Grade Stairway Metal Framed Formwork	14.29	
	<i>For Curved Formwork, Add</i>	5.42	
	<i>For <1,000, Add</i>	2.76	
03 11 23 00-0006	SF Elevated Stairway Metal Framed Formwork	26.40	
	<i>Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair.</i>		
	<i>For Curved Formwork, Add</i>	10.05	
	<i>For <1,000, Add</i>	5.11	

03 15 Concrete Accessories (03 10)

03 15 13 Waterstops (03 15)

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

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

03 15 13 13-0002	LF 3/16" Thick x 4" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	8.06	
03 15 13 13-0003	LF 3/16" Thick x 6" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	9.02	
03 15 13 13-0004	LF 3/16" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb	10.74	
03 15 13 13-0005	LF 3/8" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb	11.75	
03 15 13 13-0006	LF 1/2" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	17.14	
03 15 13 13-0007	LF 3/16" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop	8.60	
03 15 13 13-0008	LF 3/8" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop	10.84	
03 15 13 13-0009	LF 3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop	18.63	
03 15 13 13-0010	LF 3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop With Center Bulb	14.92	

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

03 15 13 13-0012	LF 3/8" Thick x 6" Wide Rubber Dumbbell Waterstop	9.04	
03 15 13 13-0013	LF 3/8" Thick x 9" Wide Rubber Dumbbell Waterstop	10.32	
03 15 13 13-0014	LF 1/4" Thick x 6" Wide Rubber Waterstop, With Center Bulb	9.33	
03 15 13 13-0015	LF 1/4" Thick x 9" Wide Rubber Waterstop, With Center Bulb	12.64	
03 15 13 13-0016	LF 3/8" Thick x 6" Wide Rubber Waterstop, With Center Bulb	10.63	
03 15 13 13-0017	LF 3/8" Thick x 9" Wide Rubber Waterstop, With Center Bulb	13.47	

03 15 13 16 Expanding Waterstops (03 15 13)

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

03 15 13 16-0002	LF 3/4" x 3/8" Bentonite Waterstop	7.05	
03 15 13 16-0003	LF 1-1/4" x 1/2" Bentonite Waterstop	10.67	
03 15 13 16-0004	LF 1" x 3/4" Bentonite Waterstop	11.94	
03 15 13 16-0005	LF 1" x 1" Bentonite Waterstop	13.44	

03 15 16 Concrete Construction Joints (03 15)

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

03 15 16 00-0002	LF 1/2" x 1" Plain Asphalt Expansion Joint, Poured	2.04	0.75
	<i>For Installation In Walls, Add</i>	1.26	
03 15 16 00-0003	LF 1" x 2" Plain Asphalt Expansion Joint, Poured	3.33	0.75
	<i>For Installation In Walls, Add</i>	1.42	
03 15 16 00-0004	LF 1/2" x 1" Liquid Neoprene Expansion Joint, Poured, Cold Applied	2.51	0.75
	<i>For Installation In Walls, Add</i>	1.26	
03 15 16 00-0005	LF 1" x 2" Liquid Neoprene Expansion Joint, Poured, Cold Applied	5.22	0.75
	<i>For Installation In Walls, Add</i>	1.42	
03 15 16 00-0006	LF 1/2" x 1" Polyurethane Expansion Joint, Poured, 2 Parts	3.43	0.75
	<i>For Installation In Walls, Add</i>	1.42	
03 15 16 00-0007	LF 1" x 2" Polyurethane Expansion Joint, Poured, Poured, 2 Parts	6.12	0.75
	<i>For Installation In Walls, Add</i>	2.30	
03 15 16 00-0008	LF 1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Or Cold Applied	2.14	0.75
	<i>For Installation In Walls, Add</i>	1.26	
03 15 16 00-0009	LF 1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant	2.38	0.75
	<i>For Installation In Walls, Add</i>	1.26	
03 15 16 00-0010	LF 1" x 2" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant	4.57	0.75
	<i>For Installation In Walls, Add</i>	1.42	

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

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

03 15 16 00-0013	LF 1/4" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	2.27	1.05
03 15 16 00-0014	LF 1/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	2.64	1.10
03 15 16 00-0015	LF 1/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	2.84	1.15
03 15 16 00-0016	LF 1/4" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	3.06	1.20
03 15 16 00-0017	LF 3/8" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	2.50	1.05
03 15 16 00-0018	LF 3/8" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	2.81	1.10
03 15 16 00-0019	LF 3/8" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.17	1.15
03 15 16 00-0020	LF 3/8" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	3.69	1.20



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 16 00-0021 LF 1/2" x 2" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.26	0.99
03 15 16 00-0022 LF 1/2" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.46	1.05
03 15 16 00-0023 LF 1/2" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.72	1.10
03 15 16 00-0024 LF 1/2" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.93	1.15
03 15 16 00-0025 LF 1/2" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.18	1.20
03 15 16 00-0026 LF 1/2" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.56	1.25
03 15 16 00-0027 LF 1/2" x 10" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.83	1.31
03 15 16 00-0028 LF 1/2" x 12" Asphalt Saturated Fiber, Premolded Expansion Joint.....	4.32	1.36
03 15 16 00-0029 LF 3/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.74	1.10
03 15 16 00-0030 LF 3/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.16	1.15
03 15 16 00-0031 LF 3/4" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.89	1.25
03 15 16 00-0032 SF 1" Asphalt Saturated Fiber, Premolded Expansion Joint.....	6.81	1.72
03 15 16 00-0033 Cork, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0034 LF 1/2" x 4" Cork, Premolded Expansion Joint.....	4.01	1.10
03 15 16 00-0035 LF 1/2" x 6" Cork, Premolded Expansion Joint.....	4.51	1.20
03 15 16 00-0036 LF 1/2" x 8" Cork, Premolded Expansion Joint.....	4.92	1.25
03 15 16 00-0037 LF 1/2" x 10" Cork, Premolded Expansion Joint.....	6.97	1.31
03 15 16 00-0038 LF 1/2" x 12" Cork, Premolded Expansion Joint.....	7.43	1.36
03 15 16 00-0039 SF 1/2" Cork, Premolded Expansion Joint.....	8.15	1.72
03 15 16 00-0040 SF 3/4" Cork, Premolded Expansion Joint.....	9.50	1.72
03 15 16 00-0041 SF 1" Cork, Premolded Expansion Joint.....	10.12	1.72
03 15 16 00-0042 Flexible Polyethylene Foam, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0043 LF 1/4" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.48	1.10
03 15 16 00-0044 LF 1/4" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.59	1.15
03 15 16 00-0045 LF 1/4" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.73	1.20
03 15 16 00-0046 LF 1/4" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint.....	3.20	1.25
03 15 16 00-0047 LF 1/2" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.56	1.10
03 15 16 00-0048 LF 1/2" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.67	1.15
03 15 16 00-0049 LF 1/2" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.78	1.20
03 15 16 00-0050 LF 1/2" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint.....	3.07	1.25
03 15 16 00-0051 Zip Strip, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0052 LF 1" Zip Strip, Premolded Expansion Joint.....	2.51	1.10
03 15 16 00-0053 LF 1-1/2" Zip Strip, Premolded Expansion Joint.....	2.75	1.15
03 15 16 00-0054 LF 2" Zip Strip, Premolded Expansion Joint.....	3.06	1.25
03 15 16 00-0055 Sponge Rubber, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0056 LF 1/2" x 4" Sponge Rubber, Premolded Expansion Joint.....	4.09	1.05
03 15 16 00-0057 LF 1/2" x 6" Sponge Rubber, Premolded Expansion Joint.....	4.90	1.05
03 15 16 00-0058 Asphalt Felt Control Joints Or Bond Breaker (03 15 16)		
03 15 16 00-0059 SF Asphalt Felt Control Joint, 30 LB Felt Bond Breaker.....	1.12	0.79
>1,250, Deduct	-0.06	
03 15 16 00-0060 SF Asphalt Felt Control Joint, 15 LB Felt Bond Breaker.....	1.09	0.79
>1,250, Deduct	-0.05	
03 15 16 00-0061 Keyed Cold Expansion And Control Joints (03 15 16)		
03 15 16 00-0062 24 Gauge Galvanized Steel With Stakes (03 15 16 00-0061)		
03 15 16 00-0063 LF 24 Gauge Galvanized Steel Keyed Joint, 3-1/2" Cold Expansion Or Control Joint.....	6.10	
03 15 16 00-0064 LF 24 Gauge Galvanized Steel Keyed Joint, 4-1/2" Cold Expansion Or Control Joint.....	6.23	
03 15 16 00-0065 LF 24 Gauge Galvanized Steel Keyed Joint, 5-1/2" Cold Expansion Or Control Joint.....	6.48	
03 15 16 00-0066 LF 24 Gauge Galvanized Steel Keyed Joint, 7-1/2" Cold Expansion Or Control Joint.....	6.91	
03 15 16 00-0067 LF 24 Gauge Galvanized Steel Keyed Joint, 9-1/2" Cold Expansion Or Control Joint.....	8.83	
03 15 19 Cast-In Concrete Anchors (03 15)		
03 15 19 00-0001 Cast In Place Anchors (03 15 19)		
Note: For cast in place installations. Includes nut and washer.		
03 15 19 00-0002 J-Type Anchor Bolts (03 15 19 00-0001)		
See CSI section 03 11 13 00-0002 for template.		
03 15 19 00-0003 1/2" And 5/8" Diameter (03 15 19 00-0002)		
03 15 19 00-0004 EA 1/2" Diameter x 6" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	8.03	
For Galvanized, Add	1.05	
For Stainless Steel, Add	7.35	
For >10 To 50, Deduct	-0.30	
For >50 To 100, Deduct	-0.65	
For >100, Deduct	-1.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0005 EA 1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	9.07	
<i>For Galvanized, Add</i>	1.34	
<i>For Stainless Steel, Add</i>	9.38	
<i>For >10 To 50, Deduct</i>	-0.32	
<i>For >50 To 100, Deduct</i>	-0.71	
<i>For >100, Deduct</i>	-1.41	
03 15 19 00-0006 EA 1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	10.61	
<i>For Galvanized, Add</i>	1.85	
<i>For Stainless Steel, Add</i>	12.92	
<i>For >10 To 50, Deduct</i>	-0.35	
<i>For >50 To 100, Deduct</i>	-0.78	
<i>For >100, Deduct</i>	-1.57	
03 15 19 00-0007 EA 5/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	11.73	
<i>For Galvanized, Add</i>	2.41	
<i>For Stainless Steel, Add</i>	16.84	
<i>For >10 To 50, Deduct</i>	-0.35	
<i>For >50 To 100, Deduct</i>	-0.81	
<i>For >100, Deduct</i>	-1.62	
03 15 19 00-0008 EA 5/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	13.99	
<i>For Galvanized, Add</i>	3.22	
<i>For Stainless Steel, Add</i>	22.51	
<i>For >10 To 50, Deduct</i>	-0.38	
<i>For >50 To 100, Deduct</i>	-0.92	
<i>For >100, Deduct</i>	-1.83	
03 15 19 00-0009 EA 5/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	15.66	
<i>For Galvanized, Add</i>	3.68	
<i>For Stainless Steel, Add</i>	25.73	
<i>For >10 To 50, Deduct</i>	-0.42	
<i>For >50 To 100, Deduct</i>	-1.01	
<i>For >100, Deduct</i>	-2.03	
03 15 19 00-0010 3/4" And 7/8" Diameter <small>(03 15 19 00-0002)</small>		
03 15 19 00-0011 EA 3/4" Diameter x 8" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	15.60	
<i>For Galvanized, Add</i>	3.65	
<i>For Stainless Steel, Add</i>	25.52	
<i>For >10 To 50, Deduct</i>	-0.42	
<i>For >50 To 100, Deduct</i>	-1.01	
<i>For >100, Deduct</i>	-2.03	
03 15 19 00-0012 EA 3/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	17.73	
<i>For Galvanized, Add</i>	4.25	
<i>For Stainless Steel, Add</i>	29.75	
<i>For >10 To 50, Deduct</i>	-0.46	
<i>For >50 To 100, Deduct</i>	-1.14	
<i>For >100, Deduct</i>	-2.27	
03 15 19 00-0013 EA 3/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	21.28	
<i>For Galvanized, Add</i>	5.45	
<i>For Stainless Steel, Add</i>	38.12	
<i>For >10 To 50, Deduct</i>	-0.52	
<i>For >50 To 100, Deduct</i>	-1.31	
<i>For >100, Deduct</i>	-2.62	
03 15 19 00-0014 EA 3/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	25.36	
<i>For Galvanized, Add</i>	6.86	
<i>For Stainless Steel, Add</i>	48.02	
<i>For >10 To 50, Deduct</i>	-0.58	
<i>For >50 To 100, Deduct</i>	-1.51	
<i>For >100, Deduct</i>	-3.01	
03 15 19 00-0015 EA 7/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	20.36	
<i>For Galvanized, Add</i>	4.99	
<i>For Stainless Steel, Add</i>	34.90	
<i>For >10 To 50, Deduct</i>	-0.52	
<i>For >50 To 100, Deduct</i>	-1.29	
<i>For >100, Deduct</i>	-2.58	
03 15 19 00-0016 EA 7/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	23.81	
<i>For Galvanized, Add</i>	5.97	
<i>For Stainless Steel, Add</i>	41.79	
<i>For >10 To 50, Deduct</i>	-0.59	
<i>For >50 To 100, Deduct</i>	-1.49	
<i>For >100, Deduct</i>	-2.97	
03 15 19 00-0017 EA 7/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	29.76	
<i>For Galvanized, Add</i>	7.96	
<i>For Stainless Steel, Add</i>	55.69	
<i>For >10 To 50, Deduct</i>	-0.69	
<i>For >50 To 100, Deduct</i>	-1.78	
<i>For >100, Deduct</i>	-3.57	
03 15 19 00-0018 1" And 1-1/8" Diameter <small>(03 15 19 00-0002)</small>		
03 15 19 00-0019 EA 1" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	24.77	
<i>For Galvanized, Add</i>	6.45	
<i>For Stainless Steel, Add</i>	45.15	
<i>For >10 To 50, Deduct</i>	-0.59	
<i>For >50 To 100, Deduct</i>	-1.51	
<i>For >100, Deduct</i>	-3.02	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0020	EA		1" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	29.37	
			<i>For Galvanized, Add</i>	7.76	
			<i>For Stainless Steel, Add</i>	54.32	
			<i>For >10 To 50, Deduct</i>	-0.69	
			<i>For >50 To 100, Deduct</i>	-1.77	
			<i>For >100, Deduct</i>	-3.55	
03 15 19 00-0021	EA		1" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	36.07	
			<i>For Galvanized, Add</i>	9.73	
			<i>For Stainless Steel, Add</i>	68.08	
			<i>For >10 To 50, Deduct</i>	-0.83	
			<i>For >50 To 100, Deduct</i>	-2.15	
			<i>For >100, Deduct</i>	-4.30	
03 15 19 00-0022	EA		1" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	44.54	
			<i>For Galvanized, Add</i>	11.89	
			<i>For Stainless Steel, Add</i>	83.20	
			<i>For >10 To 50, Deduct</i>	-1.04	
			<i>For >50 To 100, Deduct</i>	-2.67	
			<i>For >100, Deduct</i>	-5.34	
03 15 19 00-0023	EA		1-1/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	29.15	
			<i>For Galvanized, Add</i>	8.06	
			<i>For Stainless Steel, Add</i>	56.42	
			<i>For >10 To 50, Deduct</i>	-0.65	
			<i>For >50 To 100, Deduct</i>	-1.71	
			<i>For >100, Deduct</i>	-3.41	
03 15 19 00-0024	EA		1-1/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	34.60	
			<i>For Galvanized, Add</i>	9.70	
			<i>For Stainless Steel, Add</i>	67.90	
			<i>For >10 To 50, Deduct</i>	-0.76	
			<i>For >50 To 100, Deduct</i>	-2.01	
			<i>For >100, Deduct</i>	-4.01	
03 15 19 00-0025	EA		1-1/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	42.56	
			<i>For Galvanized, Add</i>	12.16	
			<i>For Stainless Steel, Add</i>	85.12	
			<i>For >10 To 50, Deduct</i>	-0.91	
			<i>For >50 To 100, Deduct</i>	-2.43	
			<i>For >100, Deduct</i>	-4.86	
03 15 19 00-0026	EA		1-1/8" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	52.52	
			<i>For Galvanized, Add</i>	14.86	
			<i>For Stainless Steel, Add</i>	103.99	
			<i>For >10 To 50, Deduct</i>	-1.14	
			<i>For >50 To 100, Deduct</i>	-3.02	
			<i>For >100, Deduct</i>	-6.05	
03 15 19 00-0027			1-1/4" And 1-1/2" Diameter <small>(03 15 19 00-0002)</small>		
03 15 19 00-0028	EA		1-1/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	34.59	
			<i>For Galvanized, Add</i>	10.08	
			<i>For Stainless Steel, Add</i>	70.53	
			<i>For >10 To 50, Deduct</i>	-0.72	
			<i>For >50 To 100, Deduct</i>	-1.95	
			<i>For >100, Deduct</i>	-3.90	
03 15 19 00-0029	EA		1-1/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	41.09	
			<i>For Galvanized, Add</i>	12.13	
			<i>For Stainless Steel, Add</i>	84.91	
			<i>For >10 To 50, Deduct</i>	-0.84	
			<i>For >50 To 100, Deduct</i>	-2.29	
			<i>For >100, Deduct</i>	-4.58	
03 15 19 00-0030	EA		1-1/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	50.62	
			<i>For Galvanized, Add</i>	15.21	
			<i>For Stainless Steel, Add</i>	106.44	
			<i>For >10 To 50, Deduct</i>	-1.01	
			<i>For >50 To 100, Deduct</i>	-2.78	
			<i>For >100, Deduct</i>	-5.56	
03 15 19 00-0031	EA		1-1/4" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	62.40	
			<i>For Galvanized, Add</i>	18.57	
			<i>For Stainless Steel, Add</i>	129.99	
			<i>For >10 To 50, Deduct</i>	-1.26	
			<i>For >50 To 100, Deduct</i>	-3.45	
			<i>For >100, Deduct</i>	-6.91	
03 15 19 00-0032	EA		1-1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	41.38	
			<i>For Galvanized, Add</i>	12.60	
			<i>For Stainless Steel, Add</i>	88.17	
			<i>For >10 To 50, Deduct</i>	-0.81	
			<i>For >50 To 100, Deduct</i>	-2.25	
			<i>For >100, Deduct</i>	-4.50	
03 15 19 00-0033	EA		1-1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	49.21	
			<i>For Galvanized, Add</i>	15.16	
			<i>For Stainless Steel, Add</i>	106.12	
			<i>For >10 To 50, Deduct</i>	-0.94	
			<i>For >50 To 100, Deduct</i>	-2.65	
			<i>For >100, Deduct</i>	-5.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0034 EA 1-1/2" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	60.69	
For Galvanized, Add	19.01	
For Stainless Steel, Add	133.07	
For >10 To 50, Deduct	-1.13	
For >50 To 100, Deduct	-3.22	
For >100, Deduct	-6.44	
03 15 19 00-0035 EA 1-1/2" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	74.74	
For Galvanized, Add	23.21	
For Stainless Steel, Add	162.47	
For >10 To 50, Deduct	-1.42	
For >50 To 100, Deduct	-3.99	
For >100, Deduct	-7.99	
03 15 19 00-0036 L-Type Anchor Bolts <small>(03 15 19 00-0001)</small>		
See CSI section 03 11 13 00-0002 for template.		
03 15 19 00-0037 3/4" And 7/8" Diameter <small>(03 15 19 00-0036)</small>		
03 15 19 00-0038 EA 3/4" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	14.81	
For Galvanized, Add	2.79	
For Stainless Steel, Add	19.53	
For >10 To 50, Deduct	-0.46	
For >50 To 100, Deduct	-1.06	
For >100, Deduct	-2.13	
03 15 19 00-0039 EA 3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	17.28	
For Galvanized, Add	3.45	
For Stainless Steel, Add	24.12	
For >10 To 50, Deduct	-0.52	
For >50 To 100, Deduct	-1.21	
For >100, Deduct	-2.42	
03 15 19 00-0040 EA 3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	19.77	
For Galvanized, Add	3.95	
For Stainless Steel, Add	27.65	
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.38	
For >100, Deduct	-2.77	
03 15 19 00-0041 EA 3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	22.05	
For Galvanized, Add	4.10	
For Stainless Steel, Add	28.70	
For >10 To 50, Deduct	-0.69	
For >50 To 100, Deduct	-1.59	
For >100, Deduct	-3.18	
03 15 19 00-0042 EA 3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	25.23	
For Galvanized, Add	4.31	
For Stainless Steel, Add	30.14	
For >10 To 50, Deduct	-0.83	
For >50 To 100, Deduct	-1.88	
For >100, Deduct	-3.75	
03 15 19 00-0043 EA 7/8" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	17.30	
For Galvanized, Add	3.46	
For Stainless Steel, Add	24.19	
For >10 To 50, Deduct	-0.52	
For >50 To 100, Deduct	-1.21	
For >100, Deduct	-2.42	
03 15 19 00-0044 EA 7/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	19.92	
For Galvanized, Add	4.03	
For Stainless Steel, Add	28.18	
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.39	
For >100, Deduct	-2.78	
03 15 19 00-0045 EA 7/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	23.09	
For Galvanized, Add	4.62	
For Stainless Steel, Add	32.34	
For >10 To 50, Deduct	-0.69	
For >50 To 100, Deduct	-1.62	
For >100, Deduct	-3.23	
03 15 19 00-0046 EA 7/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	26.21	
For Galvanized, Add	4.80	
For Stainless Steel, Add	33.57	
For >10 To 50, Deduct	-0.83	
For >50 To 100, Deduct	-1.90	
For >100, Deduct	-3.80	
03 15 19 00-0047 EA 7/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	30.84	
For Galvanized, Add	5.04	
For Stainless Steel, Add	35.25	
For >10 To 50, Deduct	-1.04	
For >50 To 100, Deduct	-2.33	
For >100, Deduct	-4.66	
03 15 19 00-0048 1" And 1-1/8" Diameter <small>(03 15 19 00-0036)</small>		

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

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

03 15 19 00-0049	EA	1" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	20.74	
		<i>For Galvanized, Add</i>	4.44	
		<i>For Stainless Steel, Add</i>	31.05	
		<i>For >10 To 50, Deduct</i>	-0.59	
		<i>For >50 To 100, Deduct</i>	-1.41	
		<i>For >100, Deduct</i>	-2.82	
03 15 19 00-0050	EA	1" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	23.82	
		<i>For Galvanized, Add</i>	4.99	
		<i>For Stainless Steel, Add</i>	34.90	
		<i>For >10 To 50, Deduct</i>	-0.69	
		<i>For >50 To 100, Deduct</i>	-1.63	
		<i>For >100, Deduct</i>	-3.27	
03 15 19 00-0051	EA	1" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	27.77	
		<i>For Galvanized, Add</i>	5.58	
		<i>For Stainless Steel, Add</i>	39.03	
		<i>For >10 To 50, Deduct</i>	-0.83	
		<i>For >50 To 100, Deduct</i>	-1.94	
		<i>For >100, Deduct</i>	-3.88	
03 15 19 00-0052	EA	1" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	29.74	
		<i>For Galvanized, Add</i>	5.84	
		<i>For Stainless Steel, Add</i>	40.88	
		<i>For >10 To 50, Deduct</i>	-0.90	
		<i>For >50 To 100, Deduct</i>	-2.10	
		<i>For >100, Deduct</i>	-4.20	
03 15 19 00-0053	EA	1" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	33.00	
		<i>For Galvanized, Add</i>	6.12	
		<i>For Stainless Steel, Add</i>	42.81	
		<i>For >10 To 50, Deduct</i>	-1.04	
		<i>For >50 To 100, Deduct</i>	-2.38	
		<i>For >100, Deduct</i>	-4.77	
03 15 19 00-0054	EA	1" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	37.25	
		<i>For Galvanized, Add</i>	7.09	
		<i>For Stainless Steel, Add</i>	49.60	
		<i>For >10 To 50, Deduct</i>	-1.15	
		<i>For >50 To 100, Deduct</i>	-2.66	
		<i>For >100, Deduct</i>	-5.32	
03 15 19 00-0055	EA	1" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	44.27	
		<i>For Galvanized, Add</i>	8.29	
		<i>For Stainless Steel, Add</i>	58.03	
		<i>For >10 To 50, Deduct</i>	-1.38	
		<i>For >50 To 100, Deduct</i>	-3.18	
		<i>For >100, Deduct</i>	-6.37	
03 15 19 00-0056	EA	1-1/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	25.51	
		<i>For Galvanized, Add</i>	5.83	
		<i>For Stainless Steel, Add</i>	40.81	
		<i>For >10 To 50, Deduct</i>	-0.69	
		<i>For >50 To 100, Deduct</i>	-1.68	
		<i>For >100, Deduct</i>	-3.35	
03 15 19 00-0057	EA	1-1/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	29.67	
		<i>For Galvanized, Add</i>	6.53	
		<i>For Stainless Steel, Add</i>	45.68	
		<i>For >10 To 50, Deduct</i>	-0.83	
		<i>For >50 To 100, Deduct</i>	-1.99	
		<i>For >100, Deduct</i>	-3.98	
03 15 19 00-0058	EA	1-1/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	31.72	
		<i>For Galvanized, Add</i>	6.83	
		<i>For Stainless Steel, Add</i>	47.81	
		<i>For >10 To 50, Deduct</i>	-0.90	
		<i>For >50 To 100, Deduct</i>	-2.15	
		<i>For >100, Deduct</i>	-4.30	
03 15 19 00-0059		1-1/4" And 1-3/8" Diameter <small>(03 15 19 00-0036)</small>		
03 15 19 00-0060	EA	1-1/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	30.72	
		<i>For Galvanized, Add</i>	7.05	
		<i>For Stainless Steel, Add</i>	49.35	
		<i>For >10 To 50, Deduct</i>	-0.83	
		<i>For >50 To 100, Deduct</i>	-2.01	
		<i>For >100, Deduct</i>	-4.03	
03 15 19 00-0061	EA	1-1/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	37.27	
		<i>For Galvanized, Add</i>	8.25	
		<i>For Stainless Steel, Add</i>	57.75	
		<i>For >10 To 50, Deduct</i>	-1.04	
		<i>For >50 To 100, Deduct</i>	-2.49	
		<i>For >100, Deduct</i>	-4.98	
03 15 19 00-0062	EA	1-1/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	40.56	
		<i>For Galvanized, Add</i>	9.35	
		<i>For Stainless Steel, Add</i>	65.42	
		<i>For >10 To 50, Deduct</i>	-1.09	
		<i>For >50 To 100, Deduct</i>	-2.65	
		<i>For >100, Deduct</i>	-5.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0063 EA 1-1/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	44.19	
For Galvanized, Add	10.56	
For Stainless Steel, Add	73.89	
For >10 To 50, Deduct	-1.15	
For >50 To 100, Deduct	-2.84	
For >100, Deduct	-5.67	
03 15 19 00-0064 EA 1-1/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	48.93	
For Galvanized, Add	11.48	
For Stainless Steel, Add	80.36	
For >10 To 50, Deduct	-1.30	
For >50 To 100, Deduct	-3.17	
For >100, Deduct	-6.34	
03 15 19 00-0065 EA 1-1/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	54.26	
For Galvanized, Add	12.29	
For Stainless Steel, Add	86.03	
For >10 To 50, Deduct	-1.48	
For >50 To 100, Deduct	-3.58	
For >100, Deduct	-7.17	
03 15 19 00-0066 EA 1-1/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	60.93	
For Galvanized, Add	13.16	
For Stainless Steel, Add	92.09	
For >10 To 50, Deduct	-1.73	
For >50 To 100, Deduct	-4.12	
For >100, Deduct	-8.24	
03 15 19 00-0067 EA 1-1/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	70.65	
For Galvanized, Add	14.55	
For Stainless Steel, Add	101.85	
For >10 To 50, Deduct	-2.08	
For >50 To 100, Deduct	-4.88	
For >100, Deduct	-9.77	
03 15 19 00-0068 EA 1-3/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	34.25	
For Galvanized, Add	8.82	
For Stainless Steel, Add	61.71	
For >10 To 50, Deduct	-0.83	
For >50 To 100, Deduct	-2.10	
For >100, Deduct	-4.21	
03 15 19 00-0069 EA 1-3/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	41.40	
For Galvanized, Add	10.32	
For Stainless Steel, Add	72.21	
For >10 To 50, Deduct	-1.04	
For >50 To 100, Deduct	-2.59	
For >100, Deduct	-5.19	
03 15 19 00-0070 EA 1-3/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	45.23	
For Galvanized, Add	11.68	
For Stainless Steel, Add	81.76	
For >10 To 50, Deduct	-1.09	
For >50 To 100, Deduct	-2.77	
For >100, Deduct	-5.54	
03 15 19 00-0071 EA 1-3/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	49.46	
For Galvanized, Add	13.19	
For Stainless Steel, Add	92.33	
For >10 To 50, Deduct	-1.15	
For >50 To 100, Deduct	-2.97	
For >100, Deduct	-5.94	
03 15 19 00-0072 EA 1-3/8" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	54.67	
For Galvanized, Add	14.35	
For Stainless Steel, Add	100.45	
For >10 To 50, Deduct	-1.30	
For >50 To 100, Deduct	-3.31	
For >100, Deduct	-6.63	
03 15 19 00-0073 EA 1-3/8" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	60.42	
For Galvanized, Add	15.37	
For Stainless Steel, Add	107.59	
For >10 To 50, Deduct	-1.48	
For >50 To 100, Deduct	-3.74	
For >100, Deduct	-7.47	
03 15 19 00-0074 EA 1-3/8" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	67.78	
For Galvanized, Add	16.58	
For Stainless Steel, Add	116.06	
For >10 To 50, Deduct	-1.73	
For >50 To 100, Deduct	-4.29	
For >100, Deduct	-8.58	
03 15 19 00-0075 EA 1-3/8" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	77.93	
For Galvanized, Add	18.19	
For Stainless Steel, Add	127.33	
For >10 To 50, Deduct	-2.08	
For >50 To 100, Deduct	-5.06	
For >100, Deduct	-10.13	

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

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

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

03 15 19 00-0077	EA	1-1/2" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	43.33	
		<i>For Galvanized, Add</i>	12.22	
		<i>For Stainless Steel, Add</i>	85.54	
		<i>For >10 To 50, Deduct</i>	-0.94	
		<i>For >50 To 100, Deduct</i>	-2.50	
		<i>For >100, Deduct</i>	-5.00	
03 15 19 00-0078	EA	1-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	47.50	
		<i>For Galvanized, Add</i>	12.82	
		<i>For Stainless Steel, Add</i>	89.71	
		<i>For >10 To 50, Deduct</i>	-1.09	
		<i>For >50 To 100, Deduct</i>	-2.83	
		<i>For >100, Deduct</i>	-5.66	
03 15 19 00-0079	EA	1-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	52.64	
		<i>For Galvanized, Add</i>	14.10	
		<i>For Stainless Steel, Add</i>	98.70	
		<i>For >10 To 50, Deduct</i>	-1.22	
		<i>For >50 To 100, Deduct</i>	-3.15	
		<i>For >100, Deduct</i>	-6.30	
03 15 19 00-0080	EA	1-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	56.78	
		<i>For Galvanized, Add</i>	15.41	
		<i>For Stainless Steel, Add</i>	107.84	
		<i>For >10 To 50, Deduct</i>	-1.30	
		<i>For >50 To 100, Deduct</i>	-3.37	
		<i>For >100, Deduct</i>	-6.73	
03 15 19 00-0081	EA	1-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	61.11	
		<i>For Galvanized, Add</i>	16.71	
		<i>For Stainless Steel, Add</i>	116.97	
		<i>For >10 To 50, Deduct</i>	-1.38	
		<i>For >50 To 100, Deduct</i>	-3.60	
		<i>For >100, Deduct</i>	-7.21	
03 15 19 00-0082	EA	1-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	67.90	
		<i>For Galvanized, Add</i>	17.97	
		<i>For Stainless Steel, Add</i>	125.79	
		<i>For >10 To 50, Deduct</i>	-1.60	
		<i>For >50 To 100, Deduct</i>	-4.09	
		<i>For >100, Deduct</i>	-8.19	
03 15 19 00-0083	EA	1-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	76.65	
		<i>For Galvanized, Add</i>	19.44	
		<i>For Stainless Steel, Add</i>	136.08	
		<i>For >10 To 50, Deduct</i>	-1.89	
		<i>For >50 To 100, Deduct</i>	-4.75	
		<i>For >100, Deduct</i>	-9.50	
03 15 19 00-0084	EA	1-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	89.28	
		<i>For Galvanized, Add</i>	21.56	
		<i>For Stainless Steel, Add</i>	150.92	
		<i>For >10 To 50, Deduct</i>	-2.31	
		<i>For >50 To 100, Deduct</i>	-5.69	
		<i>For >100, Deduct</i>	-11.39	
03 15 19 00-0085	EA	1-3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	57.54	
		<i>For Galvanized, Add</i>	18.39	
		<i>For Stainless Steel, Add</i>	128.70	
		<i>For >10 To 50, Deduct</i>	-1.04	
		<i>For >50 To 100, Deduct</i>	-3.00	
		<i>For >100, Deduct</i>	-5.99	
03 15 19 00-0086	EA	1-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	60.65	
		<i>For Galvanized, Add</i>	18.79	
		<i>For Stainless Steel, Add</i>	131.50	
		<i>For >10 To 50, Deduct</i>	-1.15	
		<i>For >50 To 100, Deduct</i>	-3.25	
		<i>For >100, Deduct</i>	-6.49	
03 15 19 00-0087	EA	1-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	62.61	
		<i>For Galvanized, Add</i>	19.09	
		<i>For Stainless Steel, Add</i>	133.60	
		<i>For >10 To 50, Deduct</i>	-1.22	
		<i>For >50 To 100, Deduct</i>	-3.40	
		<i>For >100, Deduct</i>	-6.80	
03 15 19 00-0088	EA	1-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	70.06	
		<i>For Galvanized, Add</i>	22.05	
		<i>For Stainless Steel, Add</i>	154.32	
		<i>For >10 To 50, Deduct</i>	-1.30	
		<i>For >50 To 100, Deduct</i>	-3.70	
		<i>For >100, Deduct</i>	-7.40	
03 15 19 00-0089	EA	1-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	80.58	
		<i>For Galvanized, Add</i>	25.45	
		<i>For Stainless Steel, Add</i>	178.15	
		<i>For >10 To 50, Deduct</i>	-1.48	
		<i>For >50 To 100, Deduct</i>	-4.24	
		<i>For >100, Deduct</i>	-8.48	
03 15 19 00-0090	EA	1-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	86.19	
		<i>For Galvanized, Add</i>	25.79	
		<i>For Stainless Steel, Add</i>	180.50	
		<i>For >10 To 50, Deduct</i>	-1.73	
		<i>For >50 To 100, Deduct</i>	-4.75	
		<i>For >100, Deduct</i>	-9.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0091 EA 1-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	97.24	
For Galvanized, Add	27.85	
For Stainless Steel, Add	194.92	
For >10 To 50, Deduct	-2.08	
For >50 To 100, Deduct	-5.55	
For >100, Deduct	-11.09	
03 15 19 00-0092 EA 1-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	111.91	
For Galvanized, Add	29.99	
For Stainless Steel, Add	209.93	
For >10 To 50, Deduct	-2.60	
For >50 To 100, Deduct	-6.69	
For >100, Deduct	-13.39	
03 15 19 00-0093 EA 2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	80.41	
For Galvanized, Add	27.99	
For Stainless Steel, Add	195.90	
For >10 To 50, Deduct	-1.22	
For >50 To 100, Deduct	-3.84	
For >100, Deduct	-7.69	
03 15 19 00-0094 EA 2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	88.20	
For Galvanized, Add	30.26	
For Stainless Steel, Add	211.79	
For >10 To 50, Deduct	-1.38	
For >50 To 100, Deduct	-4.28	
For >100, Deduct	-8.56	
03 15 19 00-0095 EA 2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	97.92	
For Galvanized, Add	32.98	
For Stainless Steel, Add	230.86	
For >10 To 50, Deduct	-1.60	
For >50 To 100, Deduct	-4.85	
For >100, Deduct	-9.69	
03 15 19 00-0096 EA 2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	107.62	
For Galvanized, Add	34.93	
For Stainless Steel, Add	244.48	
For >10 To 50, Deduct	-1.89	
For >50 To 100, Deduct	-5.52	
For >100, Deduct	-11.05	
03 15 19 00-0097 EA 2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	116.61	
For Galvanized, Add	37.53	
For Stainless Steel, Add	262.71	
For >10 To 50, Deduct	-2.08	
For >50 To 100, Deduct	-6.03	
For >100, Deduct	-12.06	
03 15 19 00-0098 EA 2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	126.31	
For Galvanized, Add	40.08	
For Stainless Steel, Add	280.53	
For >10 To 50, Deduct	-2.31	
For >50 To 100, Deduct	-6.62	
For >100, Deduct	-13.24	
03 15 19 00-0099 EA 2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	145.44	
For Galvanized, Add	43.04	
For Stainless Steel, Add	301.28	
For >10 To 50, Deduct	-2.97	
For >50 To 100, Deduct	-8.09	
For >100, Deduct	-16.18	
03 15 19 00-0100 EA 2" Diameter x 66" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	153.99	
For Galvanized, Add	47.32	
For Stainless Steel, Add	331.21	
For >10 To 50, Deduct	-2.97	
For >50 To 100, Deduct	-8.30	
For >100, Deduct	-16.60	
03 15 19 00-0101 EA 2" Diameter x 72" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	174.44	
For Galvanized, Add	52.60	
For Stainless Steel, Add	368.17	
For >10 To 50, Deduct	-3.46	
For >50 To 100, Deduct	-9.55	
For >100, Deduct	-19.11	
03 15 19 00-0102 2-1/2" And 2-3/4" Diameter (03 15 19 00-0096)	148.80	
03 15 19 00-0103 EA 2-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	148.80	
For Galvanized, Add	62.18	
For Stainless Steel, Add	435.26	
For >10 To 50, Deduct	-1.22	
For >50 To 100, Deduct	-5.55	
For >100, Deduct	-11.11	
03 15 19 00-0104 EA 2-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	157.68	
For Galvanized, Add	65.00	
For Stainless Steel, Add	454.97	
For >10 To 50, Deduct	-1.38	
For >50 To 100, Deduct	-6.02	
For >100, Deduct	-12.04	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0105	EA		2-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	172.93	
			<i>For Galvanized, Add</i>	70.49	
			<i>For Stainless Steel, Add</i>	493.40	
			<i>For >10 To 50, Deduct</i>	-1.60	
			<i>For >50 To 100, Deduct</i>	-6.72	
			<i>For >100, Deduct</i>	-13.44	
03 15 19 00-0106	EA		2-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	186.33	
			<i>For Galvanized, Add</i>	74.28	
			<i>For Stainless Steel, Add</i>	519.96	
			<i>For >10 To 50, Deduct</i>	-1.89	
			<i>For >50 To 100, Deduct</i>	-7.49	
			<i>For >100, Deduct</i>	-14.98	
03 15 19 00-0107	EA		2-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	198.07	
			<i>For Galvanized, Add</i>	78.26	
			<i>For Stainless Steel, Add</i>	547.82	
			<i>For >10 To 50, Deduct</i>	-2.08	
			<i>For >50 To 100, Deduct</i>	-8.07	
			<i>For >100, Deduct</i>	-16.14	
03 15 19 00-0108	EA		2-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	211.60	
			<i>For Galvanized, Add</i>	82.72	
			<i>For Stainless Steel, Add</i>	579.04	
			<i>For >10 To 50, Deduct</i>	-2.31	
			<i>For >50 To 100, Deduct</i>	-8.75	
			<i>For >100, Deduct</i>	-17.50	
03 15 19 00-0109	EA		2-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	233.93	
			<i>For Galvanized, Add</i>	87.29	
			<i>For Stainless Steel, Add</i>	611.00	
			<i>For >10 To 50, Deduct</i>	-2.97	
			<i>For >50 To 100, Deduct</i>	-10.30	
			<i>For >100, Deduct</i>	-20.60	
03 15 19 00-0110	EA		2-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	166.75	
			<i>For Galvanized, Add</i>	70.39	
			<i>For Stainless Steel, Add</i>	492.73	
			<i>For >10 To 50, Deduct</i>	-1.30	
			<i>For >50 To 100, Deduct</i>	-6.12	
			<i>For >100, Deduct</i>	-12.23	
03 15 19 00-0111	EA		2-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	180.27	
			<i>For Galvanized, Add</i>	75.30	
			<i>For Stainless Steel, Add</i>	527.07	
			<i>For >10 To 50, Deduct</i>	-1.48	
			<i>For >50 To 100, Deduct</i>	-6.73	
			<i>For >100, Deduct</i>	-13.47	
03 15 19 00-0112	EA		2-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	195.12	
			<i>For Galvanized, Add</i>	80.25	
			<i>For Stainless Steel, Add</i>	561.75	
			<i>For >10 To 50, Deduct</i>	-1.73	
			<i>For >50 To 100, Deduct</i>	-7.47	
			<i>For >100, Deduct</i>	-14.95	
03 15 19 00-0113	EA		2-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	210.97	
			<i>For Galvanized, Add</i>	84.71	
			<i>For Stainless Steel, Add</i>	592.97	
			<i>For >10 To 50, Deduct</i>	-2.08	
			<i>For >50 To 100, Deduct</i>	-8.39	
			<i>For >100, Deduct</i>	-16.78	
03 15 19 00-0114	EA		2-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	225.33	
			<i>For Galvanized, Add</i>	89.59	
			<i>For Stainless Steel, Add</i>	627.10	
			<i>For >10 To 50, Deduct</i>	-2.31	
			<i>For >50 To 100, Deduct</i>	-9.10	
			<i>For >100, Deduct</i>	-18.19	
03 15 19 00-0115	EA		2-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	244.94	
			<i>For Galvanized, Add</i>	96.51	
			<i>For Stainless Steel, Add</i>	675.54	
			<i>For >10 To 50, Deduct</i>	-2.60	
			<i>For >50 To 100, Deduct</i>	-10.02	
			<i>For >100, Deduct</i>	-20.04	
03 15 19 00-0116	EA		2-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	272.87	
			<i>For Galvanized, Add</i>	101.81	
			<i>For Stainless Steel, Add</i>	712.67	
			<i>For >10 To 50, Deduct</i>	-3.46	
			<i>For >50 To 100, Deduct</i>	-12.02	
			<i>For >100, Deduct</i>	-24.03	

03 20 Concrete Reinforcing ⁽⁰³⁾

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

03 21 Reinforcement Bars ^(03 20)

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

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

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0002 LF #3, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	0.57	
03 21 11 00-0003 LF #4, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	0.95	
03 21 11 00-0004 LF #5, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	1.41	
03 21 11 00-0005 LF #6, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	1.94	
03 21 11 00-0006 LF #3, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	0.58	
03 21 11 00-0007 LF #4, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	0.97	
03 21 11 00-0008 LF #5, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	1.44	
03 21 11 00-0009 LF #6, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	1.98	
03 21 11 00-0010 LF #3, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	0.59	
03 21 11 00-0011 LF #4, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	0.99	
03 21 11 00-0012 LF #5, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	1.48	
03 21 11 00-0013 LF #6, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	2.04	
03 21 11 00-0014 LF #7, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	2.63	
03 21 11 00-0015 LF #8, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	3.26	
03 21 11 00-0016 LF #9, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	3.99	
03 21 11 00-0017 LF #10, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	4.85	
03 21 11 00-0018 LF #11, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	5.75	
03 21 11 00-0019 LF #14, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	7.91	
03 21 11 00-0020 LF #18, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	13.44	
03 21 11 00-0021 LF #6, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	2.10	
03 21 11 00-0022 LF #7, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	2.72	
03 21 11 00-0023 LF #8, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	3.37	
03 21 11 00-0024 LF #9, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	4.13	
03 21 11 00-0025 LF #10, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	5.03	
03 21 11 00-0026 LF #11, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	5.96	
03 21 11 00-0027 LF #14, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	8.22	
03 21 11 00-0028 LF #18, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	14.00	
03 21 11 00-0029 LF #3, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	0.60	
03 21 11 00-0030 LF #4, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	1.01	
03 21 11 00-0031 LF #5, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	1.52	
03 21 11 00-0032 LF #6, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	2.09	
03 21 11 00-0033 LF #7, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	2.70	
03 21 11 00-0034 LF #8, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	3.34	
03 21 11 00-0035 LF #9, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	4.10	
03 21 11 00-0036 LF #10, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	4.98	
03 21 11 00-0037 LF #11, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	5.91	
03 21 11 00-0038 LF #14, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	8.15	
03 21 11 00-0039 LF #18, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	13.86	

03 21 11 00-0040

Columns, Steel Reinforcement Bar (03 21 11)

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

03 21 11 00-0041 LF #3, Grade 40, Columns, Steel Reinforcement Bar.....	0.60	
03 21 11 00-0042 LF #4, Grade 40, Columns, Steel Reinforcement Bar.....	1.01	
03 21 11 00-0043 LF #5, Grade 40, Columns, Steel Reinforcement Bar.....	1.49	
03 21 11 00-0044 LF #6, Grade 40, Columns, Steel Reinforcement Bar.....	2.05	
03 21 11 00-0045 LF #3, Grade 50, Columns, Steel Reinforcement Bar.....	0.61	
03 21 11 00-0046 LF #4, Grade 50, Columns, Steel Reinforcement Bar.....	1.03	
03 21 11 00-0047 LF #5, Grade 50, Columns, Steel Reinforcement Bar.....	1.52	
03 21 11 00-0048 LF #6, Grade 50, Columns, Steel Reinforcement Bar.....	2.09	
03 21 11 00-0049 LF #3, Grade 60, Columns, Steel Reinforcement Bar.....	0.62	
03 21 11 00-0050 LF #4, Grade 60, Columns, Steel Reinforcement Bar.....	1.05	
03 21 11 00-0051 LF #5, Grade 60, Columns, Steel Reinforcement Bar.....	1.56	
03 21 11 00-0052 LF #6, Grade 60, Columns, Steel Reinforcement Bar.....	2.15	
03 21 11 00-0053 LF #7, Grade 60, Columns, Steel Reinforcement Bar.....	2.77	
03 21 11 00-0054 LF #8, Grade 60, Columns, Steel Reinforcement Bar.....	3.42	
03 21 11 00-0055 LF #9, Grade 60, Columns, Steel Reinforcement Bar.....	4.17	
03 21 11 00-0056 LF #10, Grade 60, Columns, Steel Reinforcement Bar.....	5.06	
03 21 11 00-0057 LF #11, Grade 60, Columns, Steel Reinforcement Bar.....	5.99	
03 21 11 00-0058 LF #14, Grade 60, Columns, Steel Reinforcement Bar.....	8.24	
03 21 11 00-0059 LF #18, Grade 60, Columns, Steel Reinforcement Bar.....	13.94	
03 21 11 00-0060 LF #6, Grade 75, Columns, Steel Reinforcement Bar.....	2.21	
03 21 11 00-0061 LF #7, Grade 75, Columns, Steel Reinforcement Bar.....	2.86	
03 21 11 00-0062 LF #8, Grade 75, Columns, Steel Reinforcement Bar.....	3.53	
03 21 11 00-0063 LF #9, Grade 75, Columns, Steel Reinforcement Bar.....	4.31	
03 21 11 00-0064 LF #10, Grade 75, Columns, Steel Reinforcement Bar.....	5.24	
03 21 11 00-0065 LF #11, Grade 75, Columns, Steel Reinforcement Bar.....	6.20	
03 21 11 00-0066 LF #14, Grade 75, Columns, Steel Reinforcement Bar.....	8.55	
03 21 11 00-0067 LF #18, Grade 75, Columns, Steel Reinforcement Bar.....	14.50	
03 21 11 00-0068 LF #3, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	0.63	
03 21 11 00-0069 LF #4, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	1.07	
03 21 11 00-0070 LF #5, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	1.60	
03 21 11 00-0071 LF #6, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	2.20	
03 21 11 00-0072 LF #7, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	2.84	
03 21 11 00-0073 LF #8, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	3.50	
03 21 11 00-0074 LF #9, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	4.28	
03 21 11 00-0075 LF #10, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	5.19	
03 21 11 00-0076 LF #11, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	6.15	
03 21 11 00-0077 LF #14, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	8.48	
03 21 11 00-0078 LF #18, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	14.36	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 21 11 00-0079

Footings, Steel Reinforcement Bar^(03 21 11)

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

03 21 11 00-0080	LF	#3, Grade 40, Footings, Steel Reinforcement Bar.....	0.51
03 21 11 00-0081	LF	#4, Grade 40, Footings, Steel Reinforcement Bar.....	0.87
03 21 11 00-0082	LF	#5, Grade 40, Footings, Steel Reinforcement Bar.....	1.29
03 21 11 00-0083	LF	#6, Grade 40, Footings, Steel Reinforcement Bar.....	1.78
03 21 11 00-0084	LF	#3, Grade 50, Footings, Steel Reinforcement Bar.....	0.52
03 21 11 00-0085	LF	#4, Grade 50, Footings, Steel Reinforcement Bar.....	0.89
03 21 11 00-0086	LF	#5, Grade 50, Footings, Steel Reinforcement Bar.....	1.32
03 21 11 00-0087	LF	#6, Grade 50, Footings, Steel Reinforcement Bar.....	1.82
03 21 11 00-0088	LF	#3, Grade 60, Footings, Steel Reinforcement Bar.....	0.53
03 21 11 00-0089	LF	#4, Grade 60, Footings, Steel Reinforcement Bar.....	0.91
03 21 11 00-0090	LF	#5, Grade 60, Footings, Steel Reinforcement Bar.....	1.36
03 21 11 00-0091	LF	#6, Grade 60, Footings, Steel Reinforcement Bar.....	1.88
03 21 11 00-0092	LF	#7, Grade 60, Footings, Steel Reinforcement Bar.....	2.43
03 21 11 00-0093	LF	#8, Grade 60, Footings, Steel Reinforcement Bar.....	3.02
03 21 11 00-0094	LF	#9, Grade 60, Footings, Steel Reinforcement Bar.....	3.70
03 21 11 00-0095	LF	#10, Grade 60, Footings, Steel Reinforcement Bar.....	4.52
03 21 11 00-0096	LF	#11, Grade 60, Footings, Steel Reinforcement Bar.....	5.38
03 21 11 00-0097	LF	#14, Grade 60, Footings, Steel Reinforcement Bar.....	7.43
03 21 11 00-0098	LF	#18, Grade 60, Footings, Steel Reinforcement Bar.....	12.68
03 21 11 00-0099	LF	#6, Grade 75, Footings, Steel Reinforcement Bar.....	1.94
03 21 11 00-0100	LF	#7, Grade 75, Footings, Steel Reinforcement Bar.....	2.52
03 21 11 00-0101	LF	#8, Grade 75, Footings, Steel Reinforcement Bar.....	3.13
03 21 11 00-0102	LF	#9, Grade 75, Footings, Steel Reinforcement Bar.....	3.84
03 21 11 00-0103	LF	#10, Grade 75, Footings, Steel Reinforcement Bar.....	4.70
03 21 11 00-0104	LF	#11, Grade 75, Footings, Steel Reinforcement Bar.....	5.59
03 21 11 00-0105	LF	#14, Grade 75, Footings, Steel Reinforcement Bar.....	7.74
03 21 11 00-0106	LF	#18, Grade 75, Footings, Steel Reinforcement Bar.....	13.24
03 21 11 00-0107	LF	#3, Grade 60, Footings, Low Alloy Steel Reinforcement Bar.....	0.54
03 21 11 00-0108	LF	#4, Grade 60, Footings, Low Alloy Steel Reinforcement Bar.....	0.93
03 21 11 00-0109	LF	#5, Grade 60, Footings, Low Alloy Steel Reinforcement Bar.....	1.40
03 21 11 00-0110	LF	#6, Grade 60, Footings, Low Alloy Steel Reinforcement Bar.....	1.93
03 21 11 00-0111	LF	#7, Grade 60, Footings, Low Alloy Steel Reinforcement Bar.....	2.50
03 21 11 00-0112	LF	#8, Grade 60, Footings, Low Alloy Steel Reinforcement Bar.....	3.10
03 21 11 00-0113	LF	#9, Grade 60, Footings, Low Alloy Steel Reinforcement Bar.....	3.81
03 21 11 00-0114	LF	#10, Grade 60, Footings, Low Alloy Steel Reinforcement Bar.....	4.65
03 21 11 00-0115	LF	#11, Grade 60, Footings, Low Alloy Steel Reinforcement Bar.....	5.54
03 21 11 00-0116	LF	#14, Grade 60, Footings, Low Alloy Steel Reinforcement Bar.....	7.67
03 21 11 00-0117	LF	#18, Grade 60, Footings, Low Alloy Steel Reinforcement Bar.....	13.10

03 21 11 00-0118

Slab On Grade, Steel Reinforcement Bar^(03 21 11)

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

03 21 11 00-0119	LF	#3, Grade 40, Slab On Grade, Steel Reinforcement Bar.....	0.50
03 21 11 00-0120	LF	#4, Grade 40, Slab On Grade, Steel Reinforcement Bar.....	0.84
03 21 11 00-0121	LF	#5, Grade 40, Slab On Grade, Steel Reinforcement Bar.....	1.24
03 21 11 00-0122	LF	#6, Grade 40, Slab On Grade, Steel Reinforcement Bar.....	1.71
03 21 11 00-0123	LF	#3, Grade 50, Slab On Grade, Steel Reinforcement Bar.....	0.51
03 21 11 00-0124	LF	#4, Grade 50, Slab On Grade, Steel Reinforcement Bar.....	0.86
03 21 11 00-0125	LF	#5, Grade 50, Slab On Grade, Steel Reinforcement Bar.....	1.27
03 21 11 00-0126	LF	#6, Grade 50, Slab On Grade, Steel Reinforcement Bar.....	1.75
03 21 11 00-0127	LF	#3, Grade 60, Slab On Grade, Steel Reinforcement Bar.....	0.52
03 21 11 00-0128	LF	#4, Grade 60, Slab On Grade, Steel Reinforcement Bar.....	0.88
03 21 11 00-0129	LF	#5, Grade 60, Slab On Grade, Steel Reinforcement Bar.....	1.31
03 21 11 00-0130	LF	#6, Grade 60, Slab On Grade, Steel Reinforcement Bar.....	1.81
03 21 11 00-0131	LF	#7, Grade 60, Slab On Grade, Steel Reinforcement Bar.....	2.36
03 21 11 00-0132	LF	#8, Grade 60, Slab On Grade, Steel Reinforcement Bar.....	2.94
03 21 11 00-0133	LF	#9, Grade 60, Slab On Grade, Steel Reinforcement Bar.....	3.61
03 21 11 00-0134	LF	#10, Grade 60, Slab On Grade, Steel Reinforcement Bar.....	4.41
03 21 11 00-0135	LF	#11, Grade 60, Slab On Grade, Steel Reinforcement Bar.....	5.26
03 21 11 00-0136	LF	#14, Grade 60, Slab On Grade, Steel Reinforcement Bar.....	7.27
03 21 11 00-0137	LF	#18, Grade 60, Slab On Grade, Steel Reinforcement Bar.....	12.43
03 21 11 00-0138	LF	#6, Grade 75, Slab On Grade, Steel Reinforcement Bar.....	1.87
03 21 11 00-0139	LF	#7, Grade 75, Slab On Grade, Steel Reinforcement Bar.....	2.45
03 21 11 00-0140	LF	#8, Grade 75, Slab On Grade, Steel Reinforcement Bar.....	3.05
03 21 11 00-0141	LF	#9, Grade 75, Slab On Grade, Steel Reinforcement Bar.....	3.75
03 21 11 00-0142	LF	#10, Grade 75, Slab On Grade, Steel Reinforcement Bar.....	4.59
03 21 11 00-0143	LF	#11, Grade 75, Slab On Grade, Steel Reinforcement Bar.....	5.47
03 21 11 00-0144	LF	#14, Grade 75, Slab On Grade, Steel Reinforcement Bar.....	7.58
03 21 11 00-0145	LF	#18, Grade 75, Slab On Grade, Steel Reinforcement Bar.....	12.99
03 21 11 00-0146	LF	#3, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar.....	0.53
03 21 11 00-0147	LF	#4, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar.....	0.90
03 21 11 00-0148	LF	#5, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar.....	1.35
03 21 11 00-0149	LF	#6, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar.....	1.86
03 21 11 00-0150	LF	#7, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar.....	2.43
03 21 11 00-0151	LF	#8, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar.....	3.02
03 21 11 00-0152	LF	#9, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar.....	3.72
03 21 11 00-0153	LF	#10, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar.....	4.54
03 21 11 00-0154	LF	#11, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar.....	5.42
03 21 11 00-0155	LF	#14, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar.....	7.51



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 21 11 00-0156	LF	#18, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	12.85
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03 21 11 00-0157 Elevated Slabs, Steel Reinforcement Bar (03 21 11)

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

03 21 11 00-0158	LF	#3, Grade 40, Elevated Slabs, Steel Reinforcement Bar	0.46
03 21 11 00-0159	LF	#4, Grade 40, Elevated Slabs, Steel Reinforcement Bar	0.77
03 21 11 00-0160	LF	#5, Grade 40, Elevated Slabs, Steel Reinforcement Bar	1.16
03 21 11 00-0161	LF	#6, Grade 40, Elevated Slabs, Steel Reinforcement Bar	1.60
03 21 11 00-0162	LF	#3, Grade 50, Elevated Slabs, Steel Reinforcement Bar	0.47
03 21 11 00-0163	LF	#4, Grade 50, Elevated Slabs, Steel Reinforcement Bar	0.79
03 21 11 00-0164	LF	#5, Grade 50, Elevated Slabs, Steel Reinforcement Bar	1.19
03 21 11 00-0165	LF	#6, Grade 50, Elevated Slabs, Steel Reinforcement Bar	1.64
03 21 11 00-0166	LF	#3, Grade 60, Elevated Slabs, Steel Reinforcement Bar	0.48
03 21 11 00-0167	LF	#4, Grade 60, Elevated Slabs, Steel Reinforcement Bar	0.81
03 21 11 00-0168	LF	#5, Grade 60, Elevated Slabs, Steel Reinforcement Bar	1.23
03 21 11 00-0169	LF	#6, Grade 60, Elevated Slabs, Steel Reinforcement Bar	1.70
03 21 11 00-0170	LF	#7, Grade 60, Elevated Slabs, Steel Reinforcement Bar	2.23
03 21 11 00-0171	LF	#8, Grade 60, Elevated Slabs, Steel Reinforcement Bar	2.77
03 21 11 00-0172	LF	#9, Grade 60, Elevated Slabs, Steel Reinforcement Bar	3.43
03 21 11 00-0173	LF	#10, Grade 60, Elevated Slabs, Steel Reinforcement Bar	4.20
03 21 11 00-0174	LF	#11, Grade 60, Elevated Slabs, Steel Reinforcement Bar	5.01
03 21 11 00-0175	LF	#14, Grade 60, Elevated Slabs, Steel Reinforcement Bar	6.96
03 21 11 00-0176	LF	#18, Grade 60, Elevated Slabs, Steel Reinforcement Bar	11.93
03 21 11 00-0177	LF	#6, Grade 75, Elevated Slabs, Steel Reinforcement Bar	1.76
03 21 11 00-0178	LF	#7, Grade 75, Elevated Slabs, Steel Reinforcement Bar	2.32
03 21 11 00-0179	LF	#8, Grade 75, Elevated Slabs, Steel Reinforcement Bar	2.88
03 21 11 00-0180	LF	#9, Grade 75, Elevated Slabs, Steel Reinforcement Bar	3.57
03 21 11 00-0181	LF	#10, Grade 75, Elevated Slabs, Steel Reinforcement Bar	4.38
03 21 11 00-0182	LF	#11, Grade 75, Elevated Slabs, Steel Reinforcement Bar	5.22
03 21 11 00-0183	LF	#14, Grade 75, Elevated Slabs, Steel Reinforcement Bar	7.27
03 21 11 00-0184	LF	#18, Grade 75, Elevated Slabs, Steel Reinforcement Bar	12.49
03 21 11 00-0185	LF	#3, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	0.49
03 21 11 00-0186	LF	#4, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	0.83
03 21 11 00-0187	LF	#5, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	1.27
03 21 11 00-0188	LF	#6, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	1.75
03 21 11 00-0189	LF	#7, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	2.30
03 21 11 00-0190	LF	#8, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	2.85
03 21 11 00-0191	LF	#9, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	3.54
03 21 11 00-0192	LF	#10, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	4.33
03 21 11 00-0193	LF	#11, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	5.17
03 21 11 00-0194	LF	#14, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	7.20
03 21 11 00-0195	LF	#18, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	12.35

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

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

03 21 11 00-0197	LF	#3, Grade 40, Walls, Steel Reinforcement Bar	0.44
03 21 11 00-0198	LF	#4, Grade 40, Walls, Steel Reinforcement Bar	0.75
03 21 11 00-0199	LF	#5, Grade 40, Walls, Steel Reinforcement Bar	1.11
03 21 11 00-0200	LF	#6, Grade 40, Walls, Steel Reinforcement Bar	1.55
03 21 11 00-0201	LF	#3, Grade 50, Walls, Steel Reinforcement Bar	0.45
03 21 11 00-0202	LF	#4, Grade 50, Walls, Steel Reinforcement Bar	0.77
03 21 11 00-0203	LF	#5, Grade 50, Walls, Steel Reinforcement Bar	1.14
03 21 11 00-0204	LF	#6, Grade 50, Walls, Steel Reinforcement Bar	1.59
03 21 11 00-0205	LF	#3, Grade 60, Walls, Steel Reinforcement Bar	0.46
03 21 11 00-0206	LF	#4, Grade 60, Walls, Steel Reinforcement Bar	0.79
03 21 11 00-0207	LF	#5, Grade 60, Walls, Steel Reinforcement Bar	1.18
03 21 11 00-0208	LF	#6, Grade 60, Walls, Steel Reinforcement Bar	1.65
03 21 11 00-0209	LF	#7, Grade 60, Walls, Steel Reinforcement Bar	2.14
03 21 11 00-0210	LF	#8, Grade 60, Walls, Steel Reinforcement Bar	2.70
03 21 11 00-0211	LF	#9, Grade 60, Walls, Steel Reinforcement Bar	3.33
03 21 11 00-0212	LF	#10, Grade 60, Walls, Steel Reinforcement Bar	4.09
03 21 11 00-0213	LF	#11, Grade 60, Walls, Steel Reinforcement Bar	4.89
03 21 11 00-0214	LF	#14, Grade 60, Walls, Steel Reinforcement Bar	6.80
03 21 11 00-0215	LF	#18, Grade 60, Walls, Steel Reinforcement Bar	11.69
03 21 11 00-0216	LF	#6, Grade 75, Walls, Steel Reinforcement Bar	1.71
03 21 11 00-0217	LF	#7, Grade 75, Walls, Steel Reinforcement Bar	2.23
03 21 11 00-0218	LF	#8, Grade 75, Walls, Steel Reinforcement Bar	2.81
03 21 11 00-0219	LF	#9, Grade 75, Walls, Steel Reinforcement Bar	3.47
03 21 11 00-0220	LF	#10, Grade 75, Walls, Steel Reinforcement Bar	4.27
03 21 11 00-0221	LF	#11, Grade 75, Walls, Steel Reinforcement Bar	5.10
03 21 11 00-0222	LF	#14, Grade 75, Walls, Steel Reinforcement Bar	7.11
03 21 11 00-0223	LF	#18, Grade 75, Walls, Steel Reinforcement Bar	12.25
03 21 11 00-0224	LF	#3, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	0.47
03 21 11 00-0225	LF	#4, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	0.81
03 21 11 00-0226	LF	#5, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	1.22
03 21 11 00-0227	LF	#6, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	1.70
03 21 11 00-0228	LF	#7, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	2.21
03 21 11 00-0229	LF	#8, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	2.78
03 21 11 00-0230	LF	#9, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	3.44

03	Concrete
03 20	Concrete Reinforcing
03 21	Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0231	LF		#10, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	4.22	
03 21 11 00-0232	LF		#11, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	5.05	
03 21 11 00-0233	LF		#14, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	7.04	
03 21 11 00-0234	LF		#18, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	12.11	
03 21 11 00-0235			Mechanical Joint Connection (03 21 11)		
03 21 11 00-0236			Thermal Type Mechanical Joint Connection (03 21 11 00-0235)		
03 21 11 00-0237	EA		Thermal Type Mechanical Joint Connection, Add Per Splice	181.09	
03 21 11 00-0238			Screwed Type Mechanical Joint Connection (03 21 11 00-0235)		
03 21 11 00-0239	EA		Screwed Type Mechanical Joint Connection, Add Per Splice	99.73	
03 21 11 00-0240			Deformed Straight Dowels (03 21 11)		
			Note: Excludes drilling. See CSI section 02 41 19 13-0277 for drilling in concrete.		
03 21 11 00-0241	EA		3/8" Diameter x 24" Long, Deformed Straight Dowel	2.55	
			For Up To 12" Length, Deduct	-0.29	
			For >12" To <24" Length, Deduct	-0.15	
03 21 11 00-0242	EA		1/2" Diameter x 24" Long, Deformed Straight Dowel	3.05	
			For Up To 12" Length, Deduct	-0.38	
			For >12" To <24" Length, Deduct	-0.19	
03 21 11 00-0243	EA		5/8" Diameter x 24" Long, Deformed Straight Dowel	3.71	
			For Up To 12" Length, Deduct	-0.60	
			For >12" To <24" Length, Deduct	-0.30	
03 21 11 00-0244	EA		3/4" Diameter x 24" Long, Deformed Straight Dowel	4.49	
			For Up To 12" Length, Deduct	-0.87	
			For >12" To <24" Length, Deduct	-0.43	
03 21 11 00-0245	EA		7/8" Diameter x 24" Long, Deformed Straight Dowel	5.29	
			For Up To 12" Length, Deduct	-1.21	
			For >12" To <24" Length, Deduct	-0.61	
03 21 11 00-0246	EA		1" Diameter x 24" Long, Deformed Straight Dowel	6.66	
			For Up To 12" Length, Deduct	-1.55	
			For >12" To <24" Length, Deduct	-0.78	
03 21 11 00-0247	EA		1-1/8" Diameter x 24" Long, Deformed Straight Dowel	7.84	
			For Up To 12" Length, Deduct	-1.91	
			For >12" To <24" Length, Deduct	-0.96	
03 21 11 00-0248	EA		1-1/4" Diameter x 24" Long, Deformed Straight Dowel	9.59	
			For Up To 12" Length, Deduct	-2.50	
			For >12" To <24" Length, Deduct	-1.25	
03 21 11 00-0249	EA		1-3/8" Diameter x 24" Long, Deformed Straight Dowel	11.37	
			For Up To 12" Length, Deduct	-3.09	
			For >12" To <24" Length, Deduct	-1.54	
03 21 11 00-0250			Spirals, Reinforcing Steel (03 21 11)		
03 21 11 00-0251	TON		Up To 15" Diameter, Grade 60, Spirals, Reinforcing Steel	4,165.43	
			For Grade 75, Add	198.74	
03 21 11 00-0252	TON		>15" To 24" Diameter, Grade 60, Spirals, Reinforcing Steel	4,129.05	
			For Grade 75, Add	198.74	
03 21 11 00-0253	TON		>24" To 36" Diameter, Grade 60, Spirals, Reinforcing Steel	4,129.05	
			For Grade 75, Add	198.74	
03 21 11 00-0254	TON		>36" To 48" Diameter, Grade 60, Spirals, Reinforcing Steel	4,055.94	
			For Grade 75, Add	198.74	
03 21 11 00-0255	TON		>48" To 64" Diameter, Grade 60, Spirals, Reinforcing Steel	3,994.58	
			For Grade 75, Add	198.74	
03 21 11 00-0256	TON		>64" To 84" Diameter, Grade 60, Spirals, Reinforcing Steel	3,999.08	
			For Grade 75, Add	203.63	
03 21 11 00-0257	TON		>84" To 96" Diameter, Grade 60, Spirals, Reinforcing Steel	3,947.71	
			For Grade 75, Add	203.63	
03 21 11 00-0258			Accessories For Reinforcing Steel (03 21 11)		
03 21 11 00-0259			Reinforcing Steel Lap-Weld Splice (03 21 11 00-0258)		
03 21 11 00-0260	EA		Up To #6 Reinforcing Steel Lap-Weld Splice	50.08	
03 21 11 00-0261	EA		>#6 Reinforcing Steel Lap-Weld Splice	78.88	
03 21 11 00-0262			Reinforcing Steel Sleeve And Wedge Splice Joint (03 21 11 00-0258)		
03 21 11 00-0263	EA		Up To #4 Reinforcing Steel, Sleeve And Wedge Splice Joint	27.45	
03 21 11 00-0264	EA		#5 Reinforcing Steel, Sleeve And Wedge Splice Joint	40.35	
03 21 11 00-0265	EA		#6 Reinforcing Steel, Sleeve And Wedge Splice Joint	58.48	
03 21 13			Galvanized Reinforcement Steel Bars (03 21)		
03 21 13 00-0001			Beams And Girders, Galvanized Steel Reinforcement Bar (03 21 13)		
			Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21 13 00-0002	LF		#3, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	0.67	
03 21 13 00-0003	LF		#4, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	1.13	



			MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21	13 00-0004	LF	#5, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	1.71	
03 21	13 00-0005	LF	#6, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	2.36	
03 21	13 00-0006	LF	#3, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	0.68	
03 21	13 00-0007	LF	#4, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	1.15	
03 21	13 00-0008	LF	#5, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	1.74	
03 21	13 00-0009	LF	#6, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	2.40	
03 21	13 00-0010	LF	#3, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	0.70	
03 21	13 00-0011	LF	#4, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	1.18	
03 21	13 00-0012	LF	#5, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	1.78	
03 21	13 00-0013	LF	#6, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	2.46	
03 21	13 00-0014	LF	#7, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	3.21	
03 21	13 00-0015	LF	#8, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	4.01	
03 21	13 00-0016	LF	#9, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	4.95	
03 21	13 00-0017	LF	#10, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	6.06	
03 21	13 00-0018	LF	#11, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	7.24	
03 21	13 00-0019	LF	#14, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	10.06	
03 21	13 00-0020	LF	#18, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	17.26	
03 21	13 00-0021	LF	#6, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	2.52	
03 21	13 00-0022	LF	#7, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	3.29	
03 21	13 00-0023	LF	#8, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	4.12	
03 21	13 00-0024	LF	#9, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	5.09	
03 21	13 00-0025	LF	#10, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	6.24	
03 21	13 00-0026	LF	#11, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	7.46	
03 21	13 00-0027	LF	#14, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	10.38	
03 21	13 00-0028	LF	#18, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	17.82	
03 21 13 00-0029 Columns, Galvanized Steel Reinforcement Bar <small>(03 21 13)</small>					
Note: ASTM A-767 Hot Dipped Galvanized Steel.					
03 21	13 00-0030	LF	#3, Grade 40, Columns, Galvanized Steel Reinforcement Bar	0.70	
03 21	13 00-0031	LF	#4, Grade 40, Columns, Galvanized Steel Reinforcement Bar	1.19	
03 21	13 00-0032	LF	#5, Grade 40, Columns, Galvanized Steel Reinforcement Bar	1.79	
03 21	13 00-0033	LF	#6, Grade 40, Columns, Galvanized Steel Reinforcement Bar	2.47	
03 21	13 00-0034	LF	#3, Grade 50, Columns, Galvanized Steel Reinforcement Bar	0.71	
03 21	13 00-0035	LF	#4, Grade 50, Columns, Galvanized Steel Reinforcement Bar	1.21	
03 21	13 00-0036	LF	#5, Grade 50, Columns, Galvanized Steel Reinforcement Bar	1.82	
03 21	13 00-0037	LF	#6, Grade 50, Columns, Galvanized Steel Reinforcement Bar	2.51	
03 21	13 00-0038	LF	#3, Grade 60, Columns, Galvanized Steel Reinforcement Bar	0.73	
03 21	13 00-0039	LF	#4, Grade 60, Columns, Galvanized Steel Reinforcement Bar	1.24	
03 21	13 00-0040	LF	#5, Grade 60, Columns, Galvanized Steel Reinforcement Bar	1.86	
03 21	13 00-0041	LF	#6, Grade 60, Columns, Galvanized Steel Reinforcement Bar	2.57	
03 21	13 00-0042	LF	#7, Grade 60, Columns, Galvanized Steel Reinforcement Bar	3.35	
03 21	13 00-0043	LF	#8, Grade 60, Columns, Galvanized Steel Reinforcement Bar	4.17	
03 21	13 00-0044	LF	#9, Grade 60, Columns, Galvanized Steel Reinforcement Bar	5.13	
03 21	13 00-0045	LF	#10, Grade 60, Columns, Galvanized Steel Reinforcement Bar	6.27	
03 21	13 00-0046	LF	#11, Grade 60, Columns, Galvanized Steel Reinforcement Bar	7.48	
03 21	13 00-0047	LF	#14, Grade 60, Columns, Galvanized Steel Reinforcement Bar	10.39	
03 21	13 00-0048	LF	#18, Grade 60, Columns, Galvanized Steel Reinforcement Bar	17.76	
03 21	13 00-0049	LF	#6, Grade 75, Columns, Galvanized Steel Reinforcement Bar	2.63	
03 21	13 00-0050	LF	#7, Grade 75, Columns, Galvanized Steel Reinforcement Bar	3.43	
03 21	13 00-0051	LF	#8, Grade 75, Columns, Galvanized Steel Reinforcement Bar	4.28	
03 21	13 00-0052	LF	#9, Grade 75, Columns, Galvanized Steel Reinforcement Bar	5.27	
03 21	13 00-0053	LF	#10, Grade 75, Columns, Galvanized Steel Reinforcement Bar	6.45	
03 21	13 00-0054	LF	#11, Grade 75, Columns, Galvanized Steel Reinforcement Bar	7.70	
03 21	13 00-0055	LF	#14, Grade 75, Columns, Galvanized Steel Reinforcement Bar	10.71	
03 21	13 00-0056	LF	#18, Grade 75, Columns, Galvanized Steel Reinforcement Bar	18.32	
03 21 13 00-0057 Footings, Galvanized Steel Reinforcement Bar <small>(03 21 13)</small>					
Note: ASTM A-767 Hot Dipped Galvanized Steel.					
03 21	13 00-0058	LF	#3, Grade 40, Footings, Galvanized Steel Reinforcement Bar	0.61	
03 21	13 00-0059	LF	#4, Grade 40, Footings, Galvanized Steel Reinforcement Bar	1.05	
03 21	13 00-0060	LF	#5, Grade 40, Footings, Galvanized Steel Reinforcement Bar	1.59	
03 21	13 00-0061	LF	#6, Grade 40, Footings, Galvanized Steel Reinforcement Bar	2.20	
03 21	13 00-0062	LF	#3, Grade 50, Footings, Galvanized Steel Reinforcement Bar	0.62	
03 21	13 00-0063	LF	#4, Grade 50, Footings, Galvanized Steel Reinforcement Bar	1.07	
03 21	13 00-0064	LF	#5, Grade 50, Footings, Galvanized Steel Reinforcement Bar	1.62	
03 21	13 00-0065	LF	#6, Grade 50, Footings, Galvanized Steel Reinforcement Bar	2.24	
03 21	13 00-0066	LF	#3, Grade 60, Footings, Galvanized Steel Reinforcement Bar	0.64	
03 21	13 00-0067	LF	#4, Grade 60, Footings, Galvanized Steel Reinforcement Bar	1.10	
03 21	13 00-0068	LF	#5, Grade 60, Footings, Galvanized Steel Reinforcement Bar	1.66	
03 21	13 00-0069	LF	#6, Grade 60, Footings, Galvanized Steel Reinforcement Bar	2.30	
03 21	13 00-0070	LF	#7, Grade 60, Footings, Galvanized Steel Reinforcement Bar	3.01	
03 21	13 00-0071	LF	#8, Grade 60, Footings, Galvanized Steel Reinforcement Bar	3.77	
03 21	13 00-0072	LF	#9, Grade 60, Footings, Galvanized Steel Reinforcement Bar	4.66	
03 21	13 00-0073	LF	#10, Grade 60, Footings, Galvanized Steel Reinforcement Bar	5.73	
03 21	13 00-0074	LF	#11, Grade 60, Footings, Galvanized Steel Reinforcement Bar	6.87	
03 21	13 00-0075	LF	#14, Grade 60, Footings, Galvanized Steel Reinforcement Bar	9.58	
03 21	13 00-0076	LF	#18, Grade 60, Footings, Galvanized Steel Reinforcement Bar	16.50	
03 21	13 00-0077	LF	#6, Grade 75, Footings, Galvanized Steel Reinforcement Bar	2.36	
03 21	13 00-0078	LF	#7, Grade 75, Footings, Galvanized Steel Reinforcement Bar	3.09	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 21 13 00-0079	LF	#8, Grade 75, Footings, Galvanized Steel Reinforcement Bar.....	3.88
03 21 13 00-0080	LF	#9, Grade 75, Footings, Galvanized Steel Reinforcement Bar.....	4.80
03 21 13 00-0081	LF	#10, Grade 75, Footings, Galvanized Steel Reinforcement Bar.....	5.91
03 21 13 00-0082	LF	#11, Grade 75, Footings, Galvanized Steel Reinforcement Bar.....	7.09
03 21 13 00-0083	LF	#14, Grade 75, Footings, Galvanized Steel Reinforcement Bar.....	9.90
03 21 13 00-0084	LF	#18, Grade 75, Footings, Galvanized Steel Reinforcement Bar.....	17.06

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

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0086	LF	#3, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar.....	0.60
03 21 13 00-0087	LF	#4, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar.....	1.02
03 21 13 00-0088	LF	#5, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar.....	1.54
03 21 13 00-0089	LF	#6, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar.....	2.13
03 21 13 00-0090	LF	#3, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar.....	0.61
03 21 13 00-0091	LF	#4, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar.....	1.04
03 21 13 00-0092	LF	#5, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar.....	1.57
03 21 13 00-0093	LF	#6, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar.....	2.17
03 21 13 00-0094	LF	#3, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar.....	0.63
03 21 13 00-0095	LF	#4, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar.....	1.07
03 21 13 00-0096	LF	#5, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar.....	1.61
03 21 13 00-0097	LF	#6, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar.....	2.23
03 21 13 00-0098	LF	#7, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar.....	2.94
03 21 13 00-0099	LF	#8, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar.....	3.69
03 21 13 00-0100	LF	#9, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar.....	4.57
03 21 13 00-0101	LF	#10, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar.....	5.62
03 21 13 00-0102	LF	#11, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar.....	6.75
03 21 13 00-0103	LF	#14, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar.....	9.42
03 21 13 00-0104	LF	#18, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar.....	16.25
03 21 13 00-0105	LF	#6, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar.....	2.29
03 21 13 00-0106	LF	#7, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar.....	3.02
03 21 13 00-0107	LF	#8, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar.....	3.80
03 21 13 00-0108	LF	#9, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar.....	4.71
03 21 13 00-0109	LF	#10, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar.....	5.80
03 21 13 00-0110	LF	#11, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar.....	6.97
03 21 13 00-0111	LF	#14, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar.....	9.74
03 21 13 00-0112	LF	#18, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar.....	16.81

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

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0114	LF	#3, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	0.56
03 21 13 00-0115	LF	#4, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	0.95
03 21 13 00-0116	LF	#5, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	1.46
03 21 13 00-0117	LF	#6, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	2.02
03 21 13 00-0118	LF	#3, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	0.57
03 21 13 00-0119	LF	#4, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	0.97
03 21 13 00-0120	LF	#5, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	1.49
03 21 13 00-0121	LF	#6, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	2.06
03 21 13 00-0122	LF	#3, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	0.59
03 21 13 00-0123	LF	#4, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	1.00
03 21 13 00-0124	LF	#5, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	1.53
03 21 13 00-0125	LF	#6, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	2.12
03 21 13 00-0126	LF	#7, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	2.81
03 21 13 00-0127	LF	#8, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	3.52
03 21 13 00-0128	LF	#9, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	4.39
03 21 13 00-0129	LF	#10, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	5.41
03 21 13 00-0130	LF	#11, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	6.50
03 21 13 00-0131	LF	#14, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	9.11
03 21 13 00-0132	LF	#18, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	15.75
03 21 13 00-0133	LF	#6, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	2.18
03 21 13 00-0134	LF	#7, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	2.89
03 21 13 00-0135	LF	#8, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	3.63
03 21 13 00-0136	LF	#9, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	4.53
03 21 13 00-0137	LF	#10, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	5.59
03 21 13 00-0138	LF	#11, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	6.72
03 21 13 00-0139	LF	#14, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	9.43
03 21 13 00-0140	LF	#18, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar.....	16.31

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

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0142	LF	#3, Grade 40, Walls, Galvanized Steel Reinforcement Bar.....	0.54
03 21 13 00-0143	LF	#4, Grade 40, Walls, Galvanized Steel Reinforcement Bar.....	0.93
03 21 13 00-0144	LF	#5, Grade 40, Walls, Galvanized Steel Reinforcement Bar.....	1.41
03 21 13 00-0145	LF	#6, Grade 40, Walls, Galvanized Steel Reinforcement Bar.....	1.97
03 21 13 00-0146	LF	#3, Grade 50, Walls, Galvanized Steel Reinforcement Bar.....	0.55
03 21 13 00-0147	LF	#4, Grade 50, Walls, Galvanized Steel Reinforcement Bar.....	0.95
03 21 13 00-0148	LF	#5, Grade 50, Walls, Galvanized Steel Reinforcement Bar.....	1.44
03 21 13 00-0149	LF	#6, Grade 50, Walls, Galvanized Steel Reinforcement Bar.....	2.01
03 21 13 00-0150	LF	#3, Grade 60, Walls, Galvanized Steel Reinforcement Bar.....	0.57



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21	13 00-0151	LF		#4, Grade 60, Walls, Galvanized Steel Reinforcement Bar.....	0.98	
03 21	13 00-0152	LF		#5, Grade 60, Walls, Galvanized Steel Reinforcement Bar.....	1.48	
03 21	13 00-0153	LF		#6, Grade 60, Walls, Galvanized Steel Reinforcement Bar.....	2.07	
03 21	13 00-0154	LF		#7, Grade 60, Walls, Galvanized Steel Reinforcement Bar.....	2.72	
03 21	13 00-0155	LF		#8, Grade 60, Walls, Galvanized Steel Reinforcement Bar.....	3.45	
03 21	13 00-0156	LF		#9, Grade 60, Walls, Galvanized Steel Reinforcement Bar.....	4.29	
03 21	13 00-0157	LF		#10, Grade 60, Walls, Galvanized Steel Reinforcement Bar.....	5.30	
03 21	13 00-0158	LF		#11, Grade 60, Walls, Galvanized Steel Reinforcement Bar.....	6.38	
03 21	13 00-0159	LF		#14, Grade 60, Walls, Galvanized Steel Reinforcement Bar.....	8.95	
03 21	13 00-0160	LF		#18, Grade 60, Walls, Galvanized Steel Reinforcement Bar.....	15.51	
03 21	13 00-0161	LF		#6, Grade 75, Walls, Galvanized Steel Reinforcement Bar.....	2.13	
03 21	13 00-0162	LF		#7, Grade 75, Walls, Galvanized Steel Reinforcement Bar.....	2.80	
03 21	13 00-0163	LF		#8, Grade 75, Walls, Galvanized Steel Reinforcement Bar.....	3.56	
03 21	13 00-0164	LF		#9, Grade 75, Walls, Galvanized Steel Reinforcement Bar.....	4.43	
03 21	13 00-0165	LF		#10, Grade 75, Walls, Galvanized Steel Reinforcement Bar.....	5.48	
03 21	13 00-0166	LF		#11, Grade 75, Walls, Galvanized Steel Reinforcement Bar.....	6.60	
03 21	13 00-0167	LF		#14, Grade 75, Walls, Galvanized Steel Reinforcement Bar.....	9.27	
03 21	13 00-0168	LF		#18, Grade 75, Walls, Galvanized Steel Reinforcement Bar.....	16.07	

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

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

Note: ASTM A-775 Epoxy Coated Steel.

03 21	16 00-0002	LF		#3, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	0.66	
03 21	16 00-0003	LF		#4, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	1.11	
03 21	16 00-0004	LF		#5, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	1.67	
03 21	16 00-0005	LF		#6, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	2.31	
03 21	16 00-0006	LF		#3, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	0.67	
03 21	16 00-0007	LF		#4, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	1.13	
03 21	16 00-0008	LF		#5, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	1.70	
03 21	16 00-0009	LF		#6, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	2.35	
03 21	16 00-0010	LF		#3, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	0.69	
03 21	16 00-0011	LF		#4, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	1.16	
03 21	16 00-0012	LF		#5, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	1.75	
03 21	16 00-0013	LF		#6, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	2.42	
03 21	16 00-0014	LF		#7, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	3.15	
03 21	16 00-0015	LF		#8, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	3.93	
03 21	16 00-0016	LF		#9, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	4.84	
03 21	16 00-0017	LF		#10, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	5.93	
03 21	16 00-0018	LF		#11, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	7.08	
03 21	16 00-0019	LF		#14, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	9.83	
03 21	16 00-0020	LF		#18, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	16.85	
03 21	16 00-0021	LF		#6, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	2.48	
03 21	16 00-0022	LF		#7, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	3.23	
03 21	16 00-0023	LF		#8, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	4.04	
03 21	16 00-0024	LF		#9, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	4.98	
03 21	16 00-0025	LF		#10, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	6.11	
03 21	16 00-0026	LF		#11, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	7.30	
03 21	16 00-0027	LF		#14, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	10.14	
03 21	16 00-0028	LF		#18, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar.....	17.41	

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

Note: ASTM A-775 Epoxy Coated Steel.

03 21	16 00-0030	LF		#3, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar.....	0.69	
03 21	16 00-0031	LF		#4, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar.....	1.17	
03 21	16 00-0032	LF		#5, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar.....	1.75	
03 21	16 00-0033	LF		#6, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar.....	2.42	
03 21	16 00-0034	LF		#3, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar.....	0.70	
03 21	16 00-0035	LF		#4, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar.....	1.19	
03 21	16 00-0036	LF		#5, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar.....	1.78	
03 21	16 00-0037	LF		#6, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar.....	2.46	
03 21	16 00-0038	LF		#3, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar.....	0.72	
03 21	16 00-0039	LF		#4, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar.....	1.22	
03 21	16 00-0040	LF		#5, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar.....	1.83	
03 21	16 00-0041	LF		#6, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar.....	2.53	
03 21	16 00-0042	LF		#7, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar.....	3.29	
03 21	16 00-0043	LF		#8, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar.....	4.09	
03 21	16 00-0044	LF		#9, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar.....	5.02	
03 21	16 00-0045	LF		#10, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar.....	6.14	
03 21	16 00-0046	LF		#11, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar.....	7.32	
03 21	16 00-0047	LF		#14, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar.....	10.16	
03 21	16 00-0048	LF		#18, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar.....	17.35	
03 21	16 00-0049	LF		#6, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar.....	2.59	
03 21	16 00-0050	LF		#7, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar.....	3.37	
03 21	16 00-0051	LF		#8, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar.....	4.20	
03 21	16 00-0052	LF		#9, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar.....	5.16	
03 21	16 00-0053	LF		#10, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar.....	6.32	
03 21	16 00-0054	LF		#11, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar.....	7.54	
03 21	16 00-0055	LF		#14, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar.....	10.47	
03 21	16 00-0056	LF		#18, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar.....	17.91	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0058	LF	#3, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	.....	0.60
03 21 16 00-0059	LF	#4, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	.....	1.03
03 21 16 00-0060	LF	#5, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	.....	1.55
03 21 16 00-0061	LF	#6, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	.....	2.15
03 21 16 00-0062	LF	#3, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	.....	0.61
03 21 16 00-0063	LF	#4, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	.....	1.05
03 21 16 00-0064	LF	#5, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	.....	1.58
03 21 16 00-0065	LF	#6, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	.....	2.19
03 21 16 00-0066	LF	#3, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	0.63
03 21 16 00-0067	LF	#4, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	1.08
03 21 16 00-0068	LF	#5, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	1.63
03 21 16 00-0069	LF	#6, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	2.26
03 21 16 00-0070	LF	#7, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	2.95
03 21 16 00-0071	LF	#8, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	3.69
03 21 16 00-0072	LF	#9, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	4.55
03 21 16 00-0073	LF	#10, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	5.60
03 21 16 00-0074	LF	#11, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	6.71
03 21 16 00-0075	LF	#14, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	9.35
03 21 16 00-0076	LF	#18, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	16.09
03 21 16 00-0077	LF	#6, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	2.32
03 21 16 00-0078	LF	#7, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	3.03
03 21 16 00-0079	LF	#8, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	3.80
03 21 16 00-0080	LF	#9, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	4.69
03 21 16 00-0081	LF	#10, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	5.78
03 21 16 00-0082	LF	#11, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	6.93
03 21 16 00-0083	LF	#14, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	9.66
03 21 16 00-0084	LF	#18, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	16.65

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

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0086	LF	#3, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	0.59
03 21 16 00-0087	LF	#4, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	1.00
03 21 16 00-0088	LF	#5, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	1.50
03 21 16 00-0089	LF	#6, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	2.08
03 21 16 00-0090	LF	#3, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	0.60
03 21 16 00-0091	LF	#4, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	1.02
03 21 16 00-0092	LF	#5, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	1.53
03 21 16 00-0093	LF	#6, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	2.12
03 21 16 00-0094	LF	#3, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	0.62
03 21 16 00-0095	LF	#4, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	1.05
03 21 16 00-0096	LF	#5, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	1.58
03 21 16 00-0097	LF	#6, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	2.19
03 21 16 00-0098	LF	#7, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	2.88
03 21 16 00-0099	LF	#8, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	3.61
03 21 16 00-0100	LF	#9, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	4.46
03 21 16 00-0101	LF	#10, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	5.49
03 21 16 00-0102	LF	#11, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	6.59
03 21 16 00-0103	LF	#14, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	9.19
03 21 16 00-0104	LF	#18, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	15.84
03 21 16 00-0105	LF	#6, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	2.25
03 21 16 00-0106	LF	#7, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	2.96
03 21 16 00-0107	LF	#8, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	3.72
03 21 16 00-0108	LF	#9, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	4.60
03 21 16 00-0109	LF	#10, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	5.67
03 21 16 00-0110	LF	#11, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	6.81
03 21 16 00-0111	LF	#14, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	9.50
03 21 16 00-0112	LF	#18, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar	.....	16.40

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

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0114	LF	#3, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	.....	0.55
03 21 16 00-0115	LF	#4, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	.....	0.93
03 21 16 00-0116	LF	#5, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	.....	1.42
03 21 16 00-0117	LF	#6, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	.....	1.97
03 21 16 00-0118	LF	#3, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	.....	0.56
03 21 16 00-0119	LF	#4, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	.....	0.95
03 21 16 00-0120	LF	#5, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	.....	1.45
03 21 16 00-0121	LF	#6, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	.....	2.01
03 21 16 00-0122	LF	#3, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	.....	0.58
03 21 16 00-0123	LF	#4, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	.....	0.98
03 21 16 00-0124	LF	#5, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	.....	1.50
03 21 16 00-0125	LF	#6, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	.....	2.08
03 21 16 00-0126	LF	#7, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	.....	2.75
03 21 16 00-0127	LF	#8, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	.....	3.44
03 21 16 00-0128	LF	#9, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	.....	4.28



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	03 21	16 00-0129	LF	#10, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	5.28	
	03 21	16 00-0130	LF	#11, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	6.34	
	03 21	16 00-0131	LF	#14, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	8.88	
	03 21	16 00-0132	LF	#18, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	15.34	
	03 21	16 00-0133	LF	#6, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	2.14	
	03 21	16 00-0134	LF	#7, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	2.83	
	03 21	16 00-0135	LF	#8, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	3.55	
	03 21	16 00-0136	LF	#9, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	4.42	
	03 21	16 00-0137	LF	#10, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	5.46	
	03 21	16 00-0138	LF	#11, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	6.56	
	03 21	16 00-0139	LF	#14, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	9.19	
	03 21	16 00-0140	LF	#18, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar	15.90	
	03 21	16 00-0141		Walls, Epoxy Coated Steel Reinforcement Bar <small>(03 21 16)</small>		
				Note: ASTM A-775 Epoxy Coated Steel.		
	03 21	16 00-0142	LF	#3, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar	0.53	
	03 21	16 00-0143	LF	#4, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar	0.91	
	03 21	16 00-0144	LF	#5, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar	1.37	
	03 21	16 00-0145	LF	#6, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar	1.92	
	03 21	16 00-0146	LF	#3, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar	0.54	
	03 21	16 00-0147	LF	#4, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar	0.93	
	03 21	16 00-0148	LF	#5, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar	1.40	
	03 21	16 00-0149	LF	#6, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar	1.96	
	03 21	16 00-0150	LF	#3, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	0.56	
	03 21	16 00-0151	LF	#4, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	0.96	
	03 21	16 00-0152	LF	#5, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	1.45	
	03 21	16 00-0153	LF	#6, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	2.03	
	03 21	16 00-0154	LF	#7, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	2.66	
	03 21	16 00-0155	LF	#8, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	3.37	
	03 21	16 00-0156	LF	#9, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	4.18	
	03 21	16 00-0157	LF	#10, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	5.17	
	03 21	16 00-0158	LF	#11, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	6.22	
	03 21	16 00-0159	LF	#14, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	8.72	
	03 21	16 00-0160	LF	#18, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	15.10	
	03 21	16 00-0161	LF	#6, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar	2.09	
	03 21	16 00-0162	LF	#7, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar	2.74	
	03 21	16 00-0163	LF	#8, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar	3.48	
	03 21	16 00-0164	LF	#9, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar	4.32	
	03 21	16 00-0165	LF	#10, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar	5.35	
	03 21	16 00-0166	LF	#11, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar	6.44	
	03 21	16 00-0167	LF	#14, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar	9.03	
	03 21	16 00-0168	LF	#18, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar	15.66	
	03 21	16 00-0169		Epoxy Coated Deformed Straight Dowels <small>(03 21 16)</small>		
				Note: Excludes drilling. See CSI section 02 41 19 13-0277 for drilling in concrete.		
	03 21	16 00-0170	EA	3/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel	2.99	
				For Up To 12" Length, Deduct	-0.40	
				For >12" To <24" Length, Deduct	-0.20	
	03 21	16 00-0171	EA	1/2" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel	3.62	
				For Up To 12" Length, Deduct	-0.61	
				For >12" To <24" Length, Deduct	-0.31	
	03 21	16 00-0172	EA	5/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel	4.49	
				For Up To 12" Length, Deduct	-0.92	
				For >12" To <24" Length, Deduct	-0.46	
	03 21	16 00-0173	EA	3/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel	5.36	
				For Up To 12" Length, Deduct	-1.22	
				For >12" To <24" Length, Deduct	-0.61	
	03 21	16 00-0174	EA	7/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel	6.67	
				For Up To 12" Length, Deduct	-1.66	
				For >12" To <24" Length, Deduct	-0.83	
	03 21	16 00-0175	EA	1" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel	7.88	
				For Up To 12" Length, Deduct	-2.04	
				For >12" To <24" Length, Deduct	-1.02	
	03 21	16 00-0176	EA	1-1/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel	9.38	
				For Up To 12" Length, Deduct	-2.47	
				For >12" To <24" Length, Deduct	-1.23	
	03 21	16 00-0177	EA	1-1/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel	11.27	
				For Up To 12" Length, Deduct	-2.99	
				For >12" To <24" Length, Deduct	-1.49	
	03 22			Fabric and Grid Reinforcing <small>(03 20)</small>		
	03 22 11			Plain Steel Welded Wire Fabric Reinforcing <small>(03 22)</small>		
				Note: Includes cutting, tie wire, tying, overlap, bar chairs and all non-mechanical splicing.		
	03 22 11 00-0001			Welded Wire Fabric Placed In Floors Or Slabs Under 5 Tons <small>(03 22 11)</small>		
				Note: Includes bar chairs. Under 5 tons. ASTM A-185		
	03 22 11 00-0002	SF		6" x 6" x #10, 21 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4)	0.74	
				For >5 Ton, Deduct	-0.11	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 22 11 00-0003	SF		6" x 6" x #8, 30 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	0.85	
			<i>For >5 Ton, Deduct</i>	-0.13	
03 22 11 00-0004	SF		6" x 6" x #6, 42 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	0.97	
			<i>For >5 Ton, Deduct</i>	-0.14	
03 22 11 00-0005	SF		6" x 6" x #4, 58 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.16	
			<i>For >5 Ton, Deduct</i>	-0.16	
03 22 11 00-0006	SF		4" x 4" x #10, 31 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.89	
			<i>For >5 Ton, Deduct</i>	-0.13	
03 22 11 00-0007	SF		4" x 4" x #8, 44 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.01	
			<i>For >5 Ton, Deduct</i>	-0.15	
03 22 11 00-0008	SF		4" x 4" x #6, 62 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.29	
			<i>For >5 Ton, Deduct</i>	-0.18	
03 22 11 00-0009	SF		4" x 4" x #4, 85 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.50	
			<i>For >5 Ton, Deduct</i>	-0.20	
03 22 11 00-0010	SF		2" x 2" x #12, 37 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W0.9 x W0.9).....	1.41	
			<i>For >5 Ton, Deduct</i>	-0.18	
03 22 13 Galvanized Welded Wire Fabric Reinforcing (03 22)					
03 22 13 00-0001 Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 13)					
Note: Includes bar chairs. Under 5 tons.					
03 22 13 00-0002	SF		6" x 6" x #10, 21 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.83	
			<i>For >5 Ton, Deduct</i>	-0.12	
03 22 13 00-0003	SF		6" x 6" x #8, 29 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	0.96	
			<i>For >5 Ton, Deduct</i>	-0.14	
03 22 13 00-0004	SF		6" x 6" x #6, 42 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.11	
			<i>For >5 Ton, Deduct</i>	-0.16	
03 22 13 00-0005	SF		6" x 6" x #4, 58 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.35	
			<i>For >5 Ton, Deduct</i>	-0.18	
03 22 13 00-0006	SF		4" x 4" x #10, 31 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	1.02	
			<i>For >5 Ton, Deduct</i>	-0.14	
03 22 13 00-0007	SF		4" x 4" x #8, 43 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.16	
			<i>For >5 Ton, Deduct</i>	-0.16	
03 22 13 00-0008	SF		4" x 4" x #6, 62 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.53	
			<i>For >5 Ton, Deduct</i>	-0.20	
03 22 13 00-0009	SF		4" x 4" x #4, 85 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.81	
			<i>For >5 Ton, Deduct</i>	-0.23	
03 22 13 00-0010 Galvanized Welded Wire Reinforcement Wrap Placed In Beams And Columns (03 22 13)					
Note: Includes bar chairs. Under 5 tons.					
03 22 13 00-0011	SF		2" x 2" x #14, 21 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Wrap Placed In Beams And Columns (W0.5 x W0.5).....	2.90	
			<i>For >5 Ton, Deduct</i>	-0.45	
03 22 16 Epoxy-Coated Welded Wire Fabric Reinforcing (03 22)					
03 22 16 00-0001 Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 16)					
Note: Includes bar chairs. Under 5 tons.					
03 22 16 00-0002	SF		6" x 6" x #10, 21 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.82	
			<i>For >5 Ton, Deduct</i>	-0.12	
03 22 16 00-0003	SF		6" x 6" x #8, 29 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	0.94	
			<i>For >5 Ton, Deduct</i>	-0.14	
03 22 16 00-0004	SF		6" x 6" x #6, 42 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.09	
			<i>For >5 Ton, Deduct</i>	-0.15	
03 22 16 00-0005	SF		6" x 6" x #4, 58 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.33	
			<i>For >5 Ton, Deduct</i>	-0.18	
03 22 16 00-0006	SF		4" x 4" x #10, 31 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	1.00	
			<i>For >5 Ton, Deduct</i>	-0.14	
03 22 16 00-0007	SF		4" x 4" x #8, 43 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.14	
			<i>For >5 Ton, Deduct</i>	-0.16	
03 22 16 00-0008	SF		4" x 4" x #6, 62 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.50	
			<i>For >5 Ton, Deduct</i>	-0.20	
03 22 16 00-0009	SF		4" x 4" x #4, 85 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.77	
			<i>For >5 Ton, Deduct</i>	-0.23	

03 30 Cast-In-Place Concrete (03)

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

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

03 30 53 00-0001 Place Concrete Thrust Blocks And Backfill (03 30 53)



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 30 53 00-0002 CY Direct Chute, Place 3,000 PSI Concrete Thrust Blocks	260.15	
For 2,000 PSI Concrete, Deduct	-10.45	
For 2,500 PSI Concrete, Deduct	-5.22	
For 3,500 PSI Concrete, Add	9.68	
For 3,750 PSI Concrete, Add	13.16	
For 4,000 PSI Concrete, Add	16.64	
For 4,500 PSI Concrete, Add	19.35	
For 5,000 PSI Concrete, Add	22.06	
For 6,000 PSI Concrete, Add	52.25	
For 7,500 PSI Concrete, Add	129.74	
For White Cement Concrete, Add	23.22	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.16	
For High Early Strength, Type 3 ASTM C150, Add	19.35	
For Lightweight Aggregate, ASTM C330, Add	58.05	
03 30 53 00-0003 Place Concrete Slurry (03 30 53)		
03 30 53 00-0004 CY Direct Chute, Place Two Sack Cement, Concrete Slurry	204.60	
Note: Two 94# sack cement per CY.		
03 30 53 00-0005 CY Concrete Pump, Place Two Sack Cement, Concrete Slurry	198.72	
Note: Two 94# sack cement per CY. Excludes pumping equipment.		
03 30 53 00-0006 Hand Mix And Place Concrete (03 30 53)		
03 30 53 00-0007 CF Hand Mix And Place Concrete	29.97	
Note: For use where conventional equipment access is limited or when directed by the owner.		
For 2,000 PSI Concrete, Deduct	-0.45	
For 2,500 PSI Concrete, Deduct	-0.22	
For 3,500 PSI Concrete, Add	0.41	
03 31 Structural Concrete (03 30)		
03 31 13 Heavyweight Structural Concrete (03 31)		
Note: Includes delivery, fuel charge and placement of material. See CSI section 02 41 00 00-0000 for demolition, 03 05 13 00-0001 for admixtures, 03 11 00 00-0000 for forming, 03 20 00 00-0000 for reinforcing, 03 35 00 00-0000 for finishing, 03 39 00 00-0000 for curing.		
03 31 13 00-0001 Concrete Slab Assemblies (03 31 13)		
03 31 13 00-0002 3,000 PSI Slab On Grade Concrete Slabs Assemblies (03 31 13 00-0001)		
Note: Includes forms, welded wire reinforcement (where necessary), #3 to #6 reinforcing rods at 12" on center each way with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float, and finish for pedestrian slabs. Excludes excavation, base, earthwork, and expansion joints along existing slab. See CSI section 03 05 13 00-0001 for color additive alternative, 03 37 16 00-0001 for concrete pumping equipment.		
03 31 13 00-0003 SF 4" 3,000 PSI Slab On Grade Concrete Slabs Assembly	8.07	
For 2,000 PSI Concrete, Deduct	-0.25	
For 2,500 PSI Concrete, Deduct	-0.13	
For 3,500 PSI Concrete, Add	0.09	
For 4,000 PSI Concrete, Add	0.30	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
For Up To 500, Add	2.96	
For >500 To 1,000, Add	2.05	
For >1,000 To 2,000, Add	1.14	
For >2,000 To 5,000, Add	0.57	
For >10,000 To 20,000, Deduct	-0.24	
For >20,000 To 35,000, Deduct	-0.44	
For >35,000 To 50,000, Deduct	-0.64	
For >50,000 To 70,000, Deduct	-0.84	
For >70,000, Deduct	-1.04	
03 31 13 00-0004 SF 5" 3,000 PSI Slab On Grade Concrete Slabs Assembly	8.87	
For 2,000 PSI Concrete, Deduct	-0.29	
For 2,500 PSI Concrete, Deduct	-0.14	
For 3,500 PSI Concrete, Add	0.10	
For 4,000 PSI Concrete, Add	0.34	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
For Up To 500, Add	3.19	
For >500 To 1,000, Add	2.21	
For >1,000 To 2,000, Add	1.24	
For >2,000 To 5,000, Add	0.62	
For >10,000 To 20,000, Deduct	-0.27	
For >20,000 To 35,000, Deduct	-0.49	
For >35,000 To 50,000, Deduct	-0.71	
For >50,000 To 70,000, Deduct	-0.93	
For >70,000, Deduct	-1.15	

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0005	SF 6" 3,000 PSI Slab On Grade Concrete Slabs Assembly	10.00
	For 2,000 PSI Concrete, Deduct	-0.34
	For 2,500 PSI Concrete, Deduct	-0.17
	For 3,500 PSI Concrete, Add	0.12
	For 4,000 PSI Concrete, Add	0.39
	For Reinforcing Rods Are At 18" On Center, Deduct	-0.13
	For Reinforcing Rods Are At 24" On Center, Deduct	-0.40
	For Up To 500, Add	3.50
	For >500 To 1,000, Add	2.44
	For >1,000 To 2,000, Add	1.38
	For >2,000 To 5,000, Add	0.69
	For >10,000 To 20,000, Deduct	-0.31
	For >20,000 To 35,000, Deduct	-0.56
	For >35,000 To 50,000, Deduct	-0.81
	For >50,000 To 70,000, Deduct	-1.06
	For >70,000, Deduct	-1.31
03 31 13 00-0006	SF 7" 3,000 PSI Slab On Grade Concrete Slabs Assembly	11.10
	For 2,000 PSI Concrete, Deduct	-0.39
	For 2,500 PSI Concrete, Deduct	-0.19
	For 3,500 PSI Concrete, Add	0.14
	For 4,000 PSI Concrete, Add	0.45
	For Reinforcing Rods Are At 18" On Center, Deduct	-0.13
	For Reinforcing Rods Are At 24" On Center, Deduct	-0.40
	For Up To 500, Add	3.79
	For >500 To 1,000, Add	2.65
	For >1,000 To 2,000, Add	1.50
	For >2,000 To 5,000, Add	0.75
	For >10,000 To 20,000, Deduct	-0.36
	For >20,000 To 35,000, Deduct	-0.64
	For >35,000 To 50,000, Deduct	-0.91
	For >50,000 To 70,000, Deduct	-1.19
	For >70,000, Deduct	-1.47
03 31 13 00-0007	SF 8" 3,000 PSI Slab On Grade Concrete Slabs Assembly	12.02
	For 2,000 PSI Concrete, Deduct	-0.43
	For 2,500 PSI Concrete, Deduct	-0.21
	For 3,500 PSI Concrete, Add	0.15
	For 4,000 PSI Concrete, Add	0.50
	For Reinforcing Rods Are At 18" On Center, Deduct	-0.13
	For Reinforcing Rods Are At 24" On Center, Deduct	-0.40
	For Up To 500, Add	4.04
	For >500 To 1,000, Add	2.82
	For >1,000 To 2,000, Add	1.61
	For >2,000 To 5,000, Add	0.81
	For >10,000 To 20,000, Deduct	-0.40
	For >20,000 To 35,000, Deduct	-0.70
	For >35,000 To 50,000, Deduct	-1.00
	For >50,000 To 70,000, Deduct	-1.30
	For >70,000, Deduct	-1.60
03 31 13 00-0008	SF 10" 3,000 PSI Slab On Grade Concrete Slabs Assembly	14.42
	For 2,000 PSI Concrete, Deduct	-0.54
	For 2,500 PSI Concrete, Deduct	-0.27
	For 3,500 PSI Concrete, Add	0.19
	For 4,000 PSI Concrete, Add	0.63
	For Reinforcing Rods Are At 18" On Center, Deduct	-0.13
	For Reinforcing Rods Are At 24" On Center, Deduct	-0.40
	For Up To 500, Add	4.64
	For >500 To 1,000, Add	3.26
	For >1,000 To 2,000, Add	1.88
	For >2,000 To 5,000, Add	0.94
	For >10,000 To 20,000, Deduct	-0.50
	For >20,000 To 35,000, Deduct	-0.86
	For >35,000 To 50,000, Deduct	-1.22
	For >50,000 To 70,000, Deduct	-1.58
	For >70,000, Deduct	-1.94
03 31 13 00-0009	SF 12" 3,000 PSI Slab On Grade Concrete Slabs Assembly	16.27
	For 2,000 PSI Concrete, Deduct	-0.62
	For 2,500 PSI Concrete, Deduct	-0.31
	For 3,500 PSI Concrete, Add	0.22
	For 4,000 PSI Concrete, Add	0.73
	For Reinforcing Rods Are At 18" On Center, Deduct	-0.13
	For Reinforcing Rods Are At 24" On Center, Deduct	-0.40
	For Up To 500, Add	5.14
	For >500 To 1,000, Add	3.62
	For >1,000 To 2,000, Add	2.10
	For >2,000 To 5,000, Add	1.05
	For >10,000 To 20,000, Deduct	-0.58
	For >20,000 To 35,000, Deduct	-0.98
	For >35,000 To 50,000, Deduct	-1.39
	For >50,000 To 70,000, Deduct	-1.80
	For >70,000, Deduct	-2.21

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

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



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0011 Place Concrete By Method Indicated <small>(03 31 13 00-0010)</small> Note: Tasks for concrete placement "By Concrete Pump" exclude the pumping equipment. See CSI section 03 37 16 00-0001 for concrete pumping equipment.		
03 31 13 00-0012 Place Concrete Pile Caps <small>(03 31 13 00-0011)</small>		
03 31 13 00-0013 CY Crane And Bucket, Place 3,000 PSI Concrete Pile Caps	304.87	
For 2,000 PSI Concrete, Deduct	-10.45	
For 2,500 PSI Concrete, Deduct	-5.22	
For 3,500 PSI Concrete, Add	9.68	
For 3,750 PSI Concrete, Add	13.16	
For 4,000 PSI Concrete, Add	16.64	
For 4,500 PSI Concrete, Add	19.35	
For 5,000 PSI Concrete, Add	22.06	
For 6,000 PSI Concrete, Add	52.25	
For 7,500 PSI Concrete, Add	129.74	
For White Cement Concrete, Add	23.22	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.16	
For High Early Strength, Type 3 ASTM C150, Add	19.35	
For Lightweight Aggregate, ASTM C330, Add	58.05	
For Up To 20, Add	44.55	
For >20 To 50, Add	16.71	
For >100 To 200, Deduct	-6.10	
For >200 To 400, Deduct	-12.19	
For >400, Deduct	-18.29	
03 31 13 00-0014 CY Direct Chute, Place 3,000 PSI Concrete Pile Caps.....	242.51	
For 2,000 PSI Concrete, Deduct	-10.45	
For 2,500 PSI Concrete, Deduct	-5.22	
For 3,500 PSI Concrete, Add	9.68	
For 3,750 PSI Concrete, Add	13.16	
For 4,000 PSI Concrete, Add	16.64	
For 4,500 PSI Concrete, Add	19.35	
For 5,000 PSI Concrete, Add	22.06	
For 6,000 PSI Concrete, Add	52.25	
For 7,500 PSI Concrete, Add	129.74	
For White Cement Concrete, Add	23.22	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.16	
For High Early Strength, Type 3 ASTM C150, Add	19.35	
For Lightweight Aggregate, ASTM C330, Add	58.05	
For Up To 20, Add	19.60	
For >20 To 50, Add	7.35	
For >100 To 200, Deduct	-4.85	
For >200 To 400, Deduct	-9.70	
For >400, Deduct	-14.55	
03 31 13 00-0015 CY Concrete Pump, Place 3,000 PSI Concrete Pile Caps.....	256.29	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-11.32	
For 2,500 PSI Concrete, Deduct	-5.66	
For 3,500 PSI Concrete, Add	10.48	
For 3,750 PSI Concrete, Add	14.25	
For 4,000 PSI Concrete, Add	18.03	
For 4,500 PSI Concrete, Add	20.96	
For 5,000 PSI Concrete, Add	23.90	
For 6,000 PSI Concrete, Add	56.60	
For 7,500 PSI Concrete, Add	140.55	
For White Cement Concrete, Add	25.15	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	27.25	
For High Early Strength, Type 3 ASTM C150, Add	20.96	
For Lightweight Aggregate, ASTM C330, Add	62.89	
For Up To 20, Add	18.67	
For >20 To 50, Add	7.00	
For >100 To 200, Deduct	-5.13	
For >200 To 400, Deduct	-10.25	
For >400, Deduct	-15.38	
03 31 13 00-0016 Place Concrete Continuous Footings <small>(03 31 13 00-0011)</small>		
03 31 13 00-0017 CY Crane And Bucket, Place 3,000 PSI Concrete Continuous Footings	292.50	
For 2,000 PSI Concrete, Deduct	-10.45	
For 2,500 PSI Concrete, Deduct	-5.22	
For 3,500 PSI Concrete, Add	9.68	
For 3,750 PSI Concrete, Add	13.16	
For 4,000 PSI Concrete, Add	16.64	
For 4,500 PSI Concrete, Add	19.35	
For 5,000 PSI Concrete, Add	22.06	
For 6,000 PSI Concrete, Add	52.25	
For 7,500 PSI Concrete, Add	129.74	
For White Cement Concrete, Add	23.22	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.16	
For High Early Strength, Type 3 ASTM C150, Add	19.35	
For Lightweight Aggregate, ASTM C330, Add	58.05	
For Up To 20, Add	39.60	
For >20 To 50, Add	14.85	
For >100 To 200, Deduct	-5.85	
For >200 To 400, Deduct	-11.70	
For >400, Deduct	-17.55	

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0018	CY Direct Chute, Place 3,000 PSI Concrete Continuous Footings	237.07
	<i>For 2,000 PSI Concrete, Deduct</i>	-10.45
	<i>For 2,500 PSI Concrete, Deduct</i>	-5.22
	<i>For 3,500 PSI Concrete, Add</i>	9.68
	<i>For 3,750 PSI Concrete, Add</i>	13.16
	<i>For 4,000 PSI Concrete, Add</i>	16.64
	<i>For 4,500 PSI Concrete, Add</i>	19.35
	<i>For 5,000 PSI Concrete, Add</i>	22.06
	<i>For 6,000 PSI Concrete, Add</i>	52.25
	<i>For 7,500 PSI Concrete, Add</i>	129.74
	<i>For White Cement Concrete, Add</i>	23.22
	<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	25.16
	<i>For High Early Strength, Type 3 ASTM C150, Add</i>	19.35
	<i>For Lightweight Aggregate, ASTM C330, Add</i>	58.05
	<i>For Up To 20, Add</i>	17.43
	<i>For >20 To 50, Add</i>	6.54
	<i>For >100 To 200, Deduct</i>	-4.74
	<i>For >200 To 400, Deduct</i>	-9.48
	<i>For >400, Deduct</i>	-14.22
03 31 13 00-0019	CY Concrete Pump, Place 3,000 PSI Concrete Continuous Footings	251.11
	Note: Excludes pumping equipment.	
	<i>For 2,000 PSI Concrete, Deduct</i>	-11.32
	<i>For 2,500 PSI Concrete, Deduct</i>	-5.66
	<i>For 3,500 PSI Concrete, Add</i>	10.48
	<i>For 3,750 PSI Concrete, Add</i>	14.25
	<i>For 4,000 PSI Concrete, Add</i>	18.03
	<i>For 4,500 PSI Concrete, Add</i>	20.96
	<i>For 5,000 PSI Concrete, Add</i>	23.90
	<i>For 6,000 PSI Concrete, Add</i>	56.60
	<i>For 7,500 PSI Concrete, Add</i>	140.55
	<i>For White Cement Concrete, Add</i>	25.15
	<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	27.25
	<i>For High Early Strength, Type 3 ASTM C150, Add</i>	20.96
	<i>For Lightweight Aggregate, ASTM C330, Add</i>	62.89
	<i>For Up To 20, Add</i>	16.60
	<i>For >20 To 50, Add</i>	6.22
	<i>For >100 To 200, Deduct</i>	-5.02
	<i>For >200 To 400, Deduct</i>	-10.04
	<i>For >400, Deduct</i>	-15.07
03 31 13 00-0020	Place Concrete Spread Footings <small>(03 31 13 00-0011)</small>	360.57
03 31 13 00-0021	CY Crane And Bucket, Place 3,000 PSI Concrete Spread Footings	360.57
	<i>For 2,000 PSI Concrete, Deduct</i>	-10.45
	<i>For 2,500 PSI Concrete, Deduct</i>	-5.22
	<i>For 3,500 PSI Concrete, Add</i>	9.68
	<i>For 3,750 PSI Concrete, Add</i>	13.16
	<i>For 4,000 PSI Concrete, Add</i>	16.64
	<i>For 4,500 PSI Concrete, Add</i>	19.35
	<i>For 5,000 PSI Concrete, Add</i>	22.06
	<i>For 6,000 PSI Concrete, Add</i>	52.25
	<i>For 7,500 PSI Concrete, Add</i>	129.74
	<i>For White Cement Concrete, Add</i>	23.22
	<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	25.16
	<i>For High Early Strength, Type 3 ASTM C150, Add</i>	19.35
	<i>For Lightweight Aggregate, ASTM C330, Add</i>	58.05
	<i>For Up To 20, Add</i>	66.83
	<i>For >20 To 50, Add</i>	25.06
	<i>For >100 To 200, Deduct</i>	-7.21
	<i>For >200 To 400, Deduct</i>	-14.42
	<i>For >400, Deduct</i>	-21.63
03 31 13 00-0022	CY Direct Chute, Place 3,000 PSI Concrete Spread Footings	267.01
	<i>For 2,000 PSI Concrete, Deduct</i>	-10.45
	<i>For 2,500 PSI Concrete, Deduct</i>	-5.22
	<i>For 3,500 PSI Concrete, Add</i>	9.68
	<i>For 3,750 PSI Concrete, Add</i>	13.16
	<i>For 4,000 PSI Concrete, Add</i>	16.64
	<i>For 4,500 PSI Concrete, Add</i>	19.35
	<i>For 5,000 PSI Concrete, Add</i>	22.06
	<i>For 6,000 PSI Concrete, Add</i>	52.25
	<i>For 7,500 PSI Concrete, Add</i>	129.74
	<i>For White Cement Concrete, Add</i>	23.22
	<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	25.16
	<i>For High Early Strength, Type 3 ASTM C150, Add</i>	19.35
	<i>For Lightweight Aggregate, ASTM C330, Add</i>	58.05
	<i>For Up To 20, Add</i>	29.40
	<i>For >20 To 50, Add</i>	11.03
	<i>For >100 To 200, Deduct</i>	-5.34
	<i>For >200 To 400, Deduct</i>	-10.68
	<i>For >400, Deduct</i>	-16.02



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0023 CY Concrete Pump, Place 3,000 PSI Concrete Spread Footings.....	279.63	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-11.32	
For 2,500 PSI Concrete, Deduct	-5.66	
For 3,500 PSI Concrete, Add	10.48	
For 3,750 PSI Concrete, Add	14.25	
For 4,000 PSI Concrete, Add	18.03	
For 4,500 PSI Concrete, Add	20.96	
For 5,000 PSI Concrete, Add	23.90	
For 6,000 PSI Concrete, Add	56.60	
For 7,500 PSI Concrete, Add	140.55	
For White Cement Concrete, Add	25.15	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	27.25	
For High Early Strength, Type 3 ASTM C150, Add	20.96	
For Lightweight Aggregate, ASTM C330, Add	62.89	
For Up To 20, Add	28.00	
For >20 To 50, Add	10.50	
For >100 To 200, Deduct	-5.59	
For >200 To 400, Deduct	-11.19	
For >400, Deduct	-16.78	
03 31 13 00-0024 Place Concrete Mat Foundation (03 31 13 00-0011)		
03 31 13 00-0025 CY Crane And Bucket, Place 3,000 PSI Concrete Mat Foundation.....	223.20	
For 2,000 PSI Concrete, Deduct	-10.45	
For 2,500 PSI Concrete, Deduct	-5.22	
For 3,500 PSI Concrete, Add	9.68	
For 3,750 PSI Concrete, Add	13.16	
For 4,000 PSI Concrete, Add	16.64	
For 4,500 PSI Concrete, Add	19.35	
For 5,000 PSI Concrete, Add	22.06	
For 6,000 PSI Concrete, Add	52.25	
For 7,500 PSI Concrete, Add	129.74	
For White Cement Concrete, Add	23.22	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.16	
For High Early Strength, Type 3 ASTM C150, Add	19.35	
For Lightweight Aggregate, ASTM C330, Add	58.05	
For Up To 20, Add	11.88	
For >20 To 50, Add	4.46	
For >100 To 200, Deduct	-4.46	
For >200 To 400, Deduct	-8.93	
For >400, Deduct	-13.39	
03 31 13 00-0026 CY Direct Chute, Place 3,000 PSI Concrete Mat Foundation.....	206.57	
For 2,000 PSI Concrete, Deduct	-10.45	
For 2,500 PSI Concrete, Deduct	-5.22	
For 3,500 PSI Concrete, Add	9.68	
For 3,750 PSI Concrete, Add	13.16	
For 4,000 PSI Concrete, Add	16.64	
For 4,500 PSI Concrete, Add	19.35	
For 5,000 PSI Concrete, Add	22.06	
For 6,000 PSI Concrete, Add	52.25	
For 7,500 PSI Concrete, Add	129.74	
For White Cement Concrete, Add	23.22	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.16	
For High Early Strength, Type 3 ASTM C150, Add	19.35	
For Lightweight Aggregate, ASTM C330, Add	58.05	
For Up To 20, Add	5.23	
For >20 To 50, Add	1.96	
For >100 To 200, Deduct	-4.13	
For >200 To 400, Deduct	-8.26	
For >400, Deduct	-12.39	
03 31 13 00-0027 CY Concrete Pump, Place 3,000 PSI Concrete Mat Foundation.....	220.51	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-11.32	
For 2,500 PSI Concrete, Deduct	-5.66	
For 3,500 PSI Concrete, Add	10.48	
For 3,750 PSI Concrete, Add	14.25	
For 4,000 PSI Concrete, Add	18.03	
For 4,500 PSI Concrete, Add	20.96	
For 5,000 PSI Concrete, Add	23.90	
For 6,000 PSI Concrete, Add	56.60	
For 7,500 PSI Concrete, Add	140.55	
For White Cement Concrete, Add	25.15	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	27.25	
For High Early Strength, Type 3 ASTM C150, Add	20.96	
For Lightweight Aggregate, ASTM C330, Add	62.89	
For Up To 20, Add	4.36	
For >20 To 50, Add	1.63	
For >100 To 200, Deduct	-4.41	
For >200 To 400, Deduct	-8.82	
For >400, Deduct	-13.23	
03 31 13 00-0028 Place Concrete Grade Beams (03 31 13 00-0011)		

03 Concrete**03 30 Cast-In-Place Concrete****03 31 Structural Concrete**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

03 31 13 00-0029	CY	Crane And Bucket, Place 3,000 PSI Concrete Grade Beams	272.70
		For 2,000 PSI Concrete, Deduct	-10.45
		For 2,500 PSI Concrete, Deduct	-5.22
		For 3,500 PSI Concrete, Add	9.68
		For 3,750 PSI Concrete, Add	13.16
		For 4,000 PSI Concrete, Add	16.64
		For 4,500 PSI Concrete, Add	19.35
		For 5,000 PSI Concrete, Add	22.06
		For 6,000 PSI Concrete, Add	52.25
		For 7,500 PSI Concrete, Add	129.74
		For White Cement Concrete, Add	23.22
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.16
		For High Early Strength, Type 3 ASTM C150, Add	19.35
		For Lightweight Aggregate, ASTM C330, Add	58.05
		For Up To 20, Add	31.68
		For >20 To 50, Add	11.88
		For >100 To 200, Deduct	-5.45
		For >200 To 400, Deduct	-10.91
		For >400, Deduct	-16.36
03 31 13 00-0030	CY	Direct Chute, Place 3,000 PSI Concrete Grade Beams	228.35
		For 2,000 PSI Concrete, Deduct	-10.45
		For 2,500 PSI Concrete, Deduct	-5.22
		For 3,500 PSI Concrete, Add	9.68
		For 3,750 PSI Concrete, Add	13.16
		For 4,000 PSI Concrete, Add	16.64
		For 4,500 PSI Concrete, Add	19.35
		For 5,000 PSI Concrete, Add	22.06
		For 6,000 PSI Concrete, Add	52.25
		For 7,500 PSI Concrete, Add	129.74
		For White Cement Concrete, Add	23.22
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.16
		For High Early Strength, Type 3 ASTM C150, Add	19.35
		For Lightweight Aggregate, ASTM C330, Add	58.05
		For Up To 20, Add	13.94
		For >20 To 50, Add	5.23
		For >100 To 200, Deduct	-4.57
		For >200 To 400, Deduct	-9.13
		For >400, Deduct	-13.70
03 31 13 00-0031	CY	Concrete Pump, Place 3,000 PSI Concrete Grade Beams	242.81
		Note: Excludes pumping equipment.	
		For 2,000 PSI Concrete, Deduct	-11.32
		For 2,500 PSI Concrete, Deduct	-5.66
		For 3,500 PSI Concrete, Add	10.48
		For 3,750 PSI Concrete, Add	14.25
		For 4,000 PSI Concrete, Add	18.03
		For 4,500 PSI Concrete, Add	20.96
		For 5,000 PSI Concrete, Add	23.90
		For 6,000 PSI Concrete, Add	56.60
		For 7,500 PSI Concrete, Add	140.55
		For White Cement Concrete, Add	25.15
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	27.25
		For High Early Strength, Type 3 ASTM C150, Add	20.96
		For Lightweight Aggregate, ASTM C330, Add	62.89
		For Up To 20, Add	13.28
		For >20 To 50, Add	4.98
		For >100 To 200, Deduct	-4.86
		For >200 To 400, Deduct	-9.71
		For >400, Deduct	-14.57
03 31 13 00-0032		Place Concrete Slab On Grade (03 31 13 00-0011)	
03 31 13 00-0033	CY	Up To 6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade	274.57
		For 2,000 PSI Concrete, Deduct	-10.45
		For 2,500 PSI Concrete, Deduct	-5.22
		For 3,500 PSI Concrete, Add	9.68
		For 3,750 PSI Concrete, Add	13.16
		For 4,000 PSI Concrete, Add	16.64
		For 4,500 PSI Concrete, Add	19.35
		For 5,000 PSI Concrete, Add	22.06
		For 6,000 PSI Concrete, Add	52.25
		For 7,500 PSI Concrete, Add	129.74
		For White Cement Concrete, Add	23.22
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.16
		For High Early Strength, Type 3 ASTM C150, Add	19.35
		For Lightweight Aggregate, ASTM C330, Add	58.05
		For Up To 20, Add	32.43
		For >20 To 50, Add	12.16
		For >100 To 200, Deduct	-5.49
		For >200 To 400, Deduct	-10.98
		For >400, Deduct	-16.47



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0034 CY >6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade	255.01	
For 2,000 PSI Concrete, Deduct	-10.45	
For 2,500 PSI Concrete, Deduct	-5.22	
For 3,500 PSI Concrete, Add	9.68	
For 3,750 PSI Concrete, Add	13.16	
For 4,000 PSI Concrete, Add	16.64	
For 4,500 PSI Concrete, Add	19.35	
For 5,000 PSI Concrete, Add	22.06	
For 6,000 PSI Concrete, Add	52.25	
For 7,500 PSI Concrete, Add	129.74	
For White Cement Concrete, Add	23.22	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.16	
For High Early Strength, Type 3 ASTM C150, Add	19.35	
For Lightweight Aggregate, ASTM C330, Add	58.05	
For Up To 20, Add	24.60	
For >20 To 50, Add	9.23	
For >100 To 200, Deduct	-5.10	
For >200 To 400, Deduct	-10.20	
For >400, Deduct	-15.30	
03 31 13 00-0035 CY Up To 6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade	229.17	
For 2,000 PSI Concrete, Deduct	-10.45	
For 2,500 PSI Concrete, Deduct	-5.22	
For 3,500 PSI Concrete, Add	9.68	
For 3,750 PSI Concrete, Add	13.16	
For 4,000 PSI Concrete, Add	16.64	
For 4,500 PSI Concrete, Add	19.35	
For 5,000 PSI Concrete, Add	22.06	
For 6,000 PSI Concrete, Add	52.25	
For 7,500 PSI Concrete, Add	129.74	
For White Cement Concrete, Add	23.22	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.16	
For High Early Strength, Type 3 ASTM C150, Add	19.35	
For Lightweight Aggregate, ASTM C330, Add	58.05	
For Up To 20, Add	14.27	
For >20 To 50, Add	5.35	
For >100 To 200, Deduct	-4.58	
For >200 To 400, Deduct	-9.17	
For >400, Deduct	-13.75	
03 31 13 00-0036 CY >6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade	220.56	
For 2,000 PSI Concrete, Deduct	-10.45	
For 2,500 PSI Concrete, Deduct	-5.22	
For 3,500 PSI Concrete, Add	9.68	
For 3,750 PSI Concrete, Add	13.16	
For 4,000 PSI Concrete, Add	16.64	
For 4,500 PSI Concrete, Add	19.35	
For 5,000 PSI Concrete, Add	22.06	
For 6,000 PSI Concrete, Add	52.25	
For 7,500 PSI Concrete, Add	129.74	
For White Cement Concrete, Add	23.22	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.16	
For High Early Strength, Type 3 ASTM C150, Add	19.35	
For Lightweight Aggregate, ASTM C330, Add	58.05	
For Up To 20, Add	10.82	
For >20 To 50, Add	4.06	
For >100 To 200, Deduct	-4.41	
For >200 To 400, Deduct	-8.82	
For >400, Deduct	-13.23	
03 31 13 00-0037 CY Up To 6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade	239.35	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-11.32	
For 2,500 PSI Concrete, Deduct	-5.66	
For 3,500 PSI Concrete, Add	10.48	
For 3,750 PSI Concrete, Add	14.25	
For 4,000 PSI Concrete, Add	18.03	
For 4,500 PSI Concrete, Add	20.96	
For 5,000 PSI Concrete, Add	23.90	
For 6,000 PSI Concrete, Add	56.60	
For 7,500 PSI Concrete, Add	140.55	
For White Cement Concrete, Add	25.15	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	27.25	
For High Early Strength, Type 3 ASTM C150, Add	20.96	
For Lightweight Aggregate, ASTM C330, Add	62.89	
For Up To 20, Add	11.89	
For >20 To 50, Add	4.46	
For >100 To 200, Deduct	-4.79	
For >200 To 400, Deduct	-9.57	
For >400, Deduct	-14.36	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0038	CY	>6"	By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade.....	232.17	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-11.32	
			For 2,500 PSI Concrete, Deduct	-5.66	
			For 3,500 PSI Concrete, Add	10.48	
			For 3,750 PSI Concrete, Add	14.25	
			For 4,000 PSI Concrete, Add	18.03	
			For 4,500 PSI Concrete, Add	20.96	
			For 5,000 PSI Concrete, Add	23.90	
			For 6,000 PSI Concrete, Add	56.60	
			For 7,500 PSI Concrete, Add	140.55	
			For White Cement Concrete, Add	25.15	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	27.25	
			For High Early Strength, Type 3 ASTM C150, Add	20.96	
			For Lightweight Aggregate, ASTM C330, Add	62.89	
			For Up To 20, Add	9.02	
			For >20 To 50, Add	3.38	
			For >100 To 200, Deduct	-4.64	
			For >200 To 400, Deduct	-9.29	
			For >400, Deduct	-13.93	
03 31 13 00-0039			Place Concrete Duct Bank (03 31 13 00-0011)	223.02	
03 31 13 00-0040	CY	Direct Chute, Place 3,000 PSI Concrete Duct Bank.....	223.02		
			For 2,000 PSI Concrete, Deduct	-10.45	
			For 2,500 PSI Concrete, Deduct	-5.22	
			For 3,500 PSI Concrete, Add	9.68	
			For 3,750 PSI Concrete, Add	13.16	
			For 4,000 PSI Concrete, Add	16.64	
			For 4,500 PSI Concrete, Add	19.35	
			For 5,000 PSI Concrete, Add	22.06	
			For 6,000 PSI Concrete, Add	52.25	
			For 7,500 PSI Concrete, Add	129.74	
			For White Cement Concrete, Add	23.22	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.16	
			For High Early Strength, Type 3 ASTM C150, Add	19.35	
			For Lightweight Aggregate, ASTM C330, Add	58.05	
			For Up To 20, Add	11.81	
			For >20 To 50, Add	4.43	
			For >100 To 200, Deduct	-4.46	
			For >200 To 400, Deduct	-8.92	
			For >400, Deduct	-13.38	
03 31 13 00-0041			Place Concrete Stairs (03 31 13 00-0011)	558.23	
03 31 13 00-0042	CY	Crane And Bucket, Place 3,000 PSI On Grade Concrete Stairs	558.23		
			For 2,000 PSI Concrete, Deduct	-10.45	
			For 2,500 PSI Concrete, Deduct	-5.22	
			For 3,500 PSI Concrete, Add	9.68	
			For 3,750 PSI Concrete, Add	13.16	
			For 4,000 PSI Concrete, Add	16.64	
			For 4,500 PSI Concrete, Add	19.35	
			For 5,000 PSI Concrete, Add	22.06	
			For 6,000 PSI Concrete, Add	52.25	
			For 7,500 PSI Concrete, Add	129.74	
			For White Cement Concrete, Add	23.22	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.16	
			For High Early Strength, Type 3 ASTM C150, Add	19.35	
			For Lightweight Aggregate, ASTM C330, Add	58.05	
			For Up To 20, Add	145.89	
			For >20 To 50, Add	54.71	
			For >100 To 200, Deduct	-11.16	
			For >200 To 400, Deduct	-22.33	
			For >400, Deduct	-33.49	
03 31 13 00-0043	CY	Direct Chute, Place 3,000 PSI On Grade Concrete Stairs	354.01		
			For 2,000 PSI Concrete, Deduct	-10.45	
			For 2,500 PSI Concrete, Deduct	-5.22	
			For 3,500 PSI Concrete, Add	9.68	
			For 3,750 PSI Concrete, Add	13.16	
			For 4,000 PSI Concrete, Add	16.64	
			For 4,500 PSI Concrete, Add	19.35	
			For 5,000 PSI Concrete, Add	22.06	
			For 6,000 PSI Concrete, Add	52.25	
			For 7,500 PSI Concrete, Add	129.74	
			For White Cement Concrete, Add	23.22	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.16	
			For High Early Strength, Type 3 ASTM C150, Add	19.35	
			For Lightweight Aggregate, ASTM C330, Add	58.05	
			For Up To 20, Add	64.20	
			For >20 To 50, Add	24.08	
			For >100 To 200, Deduct	-7.08	
			For >200 To 400, Deduct	-14.16	
			For >400, Deduct	-21.24	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0044 CY Concrete Pump, Place 3,000 PSI On Grade Concrete Stairs .....343.39 Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-11.32	
For 2,500 PSI Concrete, Deduct	-5.66	
For 3,500 PSI Concrete, Add	10.48	
For 3,750 PSI Concrete, Add	14.25	
For 4,000 PSI Concrete, Add	18.03	
For 4,500 PSI Concrete, Add	20.96	
For 5,000 PSI Concrete, Add	23.90	
For 6,000 PSI Concrete, Add	56.60	
For 7,500 PSI Concrete, Add	140.55	
For White Cement Concrete, Add	25.15	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	27.25	
For High Early Strength, Type 3 ASTM C150, Add	20.96	
For Lightweight Aggregate, ASTM C330, Add	62.89	
For Up To 20, Add	53.51	
For >20 To 50, Add	20.07	
For >100 To 200, Deduct	-6.87	
For >200 To 400, Deduct	-13.74	
For >400, Deduct	-20.60	
03 31 13 00-0045 Place Concrete Superstructure By Method Indicated (03 31 13 00-0010) See CSI section 03 37 16 00-0001 for concrete pump truck.		
03 31 13 00-0046 Place Elevated Concrete Beams (03 31 13 00-0045)		
03 31 13 00-0047 CY Crane And Bucket, Place 3,000 PSI Elevated Concrete Beams .....391.51		
For 2,000 PSI Concrete, Deduct	-10.45	
For 2,500 PSI Concrete, Deduct	-5.22	
For 3,500 PSI Concrete, Add	9.68	
For 3,750 PSI Concrete, Add	13.16	
For 4,000 PSI Concrete, Add	16.64	
For 4,500 PSI Concrete, Add	19.35	
For 5,000 PSI Concrete, Add	22.06	
For 6,000 PSI Concrete, Add	52.25	
For 7,500 PSI Concrete, Add	129.74	
For White Cement Concrete, Add	23.22	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.16	
For High Early Strength, Type 3 ASTM C150, Add	19.35	
For Lightweight Aggregate, ASTM C330, Add	58.05	
For Up To 20, Add	79.20	
For >20 To 50, Add	29.70	
For >100 To 200, Deduct	-7.83	
For >200 To 400, Deduct	-15.66	
For >400, Deduct	-23.49	
03 31 13 00-0048 CY Concrete Pump, Place 3,000 PSI Elevated Concrete Beams .....292.60 Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-11.32	
For 2,500 PSI Concrete, Deduct	-5.66	
For 3,500 PSI Concrete, Add	10.48	
For 3,750 PSI Concrete, Add	14.25	
For 4,000 PSI Concrete, Add	18.03	
For 4,500 PSI Concrete, Add	20.96	
For 5,000 PSI Concrete, Add	23.90	
For 6,000 PSI Concrete, Add	56.60	
For 7,500 PSI Concrete, Add	140.55	
For White Cement Concrete, Add	25.15	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	27.25	
For High Early Strength, Type 3 ASTM C150, Add	20.96	
For Lightweight Aggregate, ASTM C330, Add	62.89	
For Up To 20, Add	33.19	
For >20 To 50, Add	12.45	
For >100 To 200, Deduct	-5.85	
For >200 To 400, Deduct	-11.70	
For >400, Deduct	-17.56	
03 31 13 00-0049 Place Elevated Concrete Slab (03 31 13 00-0045)		
03 31 13 00-0050 CY Up To 6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab .....286.73		
For 2,000 PSI Concrete, Deduct	-10.45	
For 2,500 PSI Concrete, Deduct	-5.22	
For 3,500 PSI Concrete, Add	9.68	
For 3,750 PSI Concrete, Add	13.16	
For 4,000 PSI Concrete, Add	16.64	
For 4,500 PSI Concrete, Add	19.35	
For 5,000 PSI Concrete, Add	22.06	
For 6,000 PSI Concrete, Add	52.25	
For 7,500 PSI Concrete, Add	129.74	
For White Cement Concrete, Add	23.22	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.16	
For High Early Strength, Type 3 ASTM C150, Add	19.35	
For Lightweight Aggregate, ASTM C330, Add	58.05	
For Up To 20, Add	37.29	
For >20 To 50, Add	13.98	
For >100 To 200, Deduct	-5.73	
For >200 To 400, Deduct	-11.47	
For >400, Deduct	-17.20	

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0051	CY	>6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab	264.23
		<i>For 2,000 PSI Concrete, Deduct</i>	-10.45
		<i>For 2,500 PSI Concrete, Deduct</i>	-5.22
		<i>For 3,500 PSI Concrete, Add</i>	9.68
		<i>For 3,750 PSI Concrete, Add</i>	13.16
		<i>For 4,000 PSI Concrete, Add</i>	16.64
		<i>For 4,500 PSI Concrete, Add</i>	19.35
		<i>For 5,000 PSI Concrete, Add</i>	22.06
		<i>For 6,000 PSI Concrete, Add</i>	52.25
		<i>For 7,500 PSI Concrete, Add</i>	129.74
		<i>For White Cement Concrete, Add</i>	23.22
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	25.16
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	19.35
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	58.05
		<i>For Up To 20, Add</i>	28.29
		<i>For >20 To 50, Add</i>	10.61
		<i>For >100 To 200, Deduct</i>	-5.28
		<i>For >200 To 400, Deduct</i>	-10.57
		<i>For >400, Deduct</i>	-15.85
03 31 13 00-0052	CY	Up To 6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab	248.68
		Note: Excludes pumping equipment.	
		<i>For 2,000 PSI Concrete, Deduct</i>	-11.32
		<i>For 2,500 PSI Concrete, Deduct</i>	-5.66
		<i>For 3,500 PSI Concrete, Add</i>	10.48
		<i>For 3,750 PSI Concrete, Add</i>	14.25
		<i>For 4,000 PSI Concrete, Add</i>	18.03
		<i>For 4,500 PSI Concrete, Add</i>	20.96
		<i>For 5,000 PSI Concrete, Add</i>	23.90
		<i>For 6,000 PSI Concrete, Add</i>	56.60
		<i>For 7,500 PSI Concrete, Add</i>	140.55
		<i>For White Cement Concrete, Add</i>	25.15
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	27.25
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	20.96
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	62.89
		<i>For Up To 20, Add</i>	15.62
		<i>For >20 To 50, Add</i>	5.86
		<i>For >100 To 200, Deduct</i>	-4.97
		<i>For >200 To 400, Deduct</i>	-9.95
		<i>For >400, Deduct</i>	-14.92
03 31 13 00-0053	CY	>6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab.....	239.26
		Note: Excludes pumping equipment.	
		<i>For 2,000 PSI Concrete, Deduct</i>	-11.32
		<i>For 2,500 PSI Concrete, Deduct</i>	-5.66
		<i>For 3,500 PSI Concrete, Add</i>	10.48
		<i>For 3,750 PSI Concrete, Add</i>	14.25
		<i>For 4,000 PSI Concrete, Add</i>	18.03
		<i>For 4,500 PSI Concrete, Add</i>	20.96
		<i>For 5,000 PSI Concrete, Add</i>	23.90
		<i>For 6,000 PSI Concrete, Add</i>	56.60
		<i>For 7,500 PSI Concrete, Add</i>	140.55
		<i>For White Cement Concrete, Add</i>	25.15
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	27.25
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	20.96
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	62.89
		<i>For Up To 20, Add</i>	11.86
		<i>For >20 To 50, Add</i>	4.45
		<i>For >100 To 200, Deduct</i>	-4.79
		<i>For >200 To 400, Deduct</i>	-9.57
		<i>For >400, Deduct</i>	-14.36
03 31 13 00-0054		Place Concrete Columns (03 31 13 00-0045)	
03 31 13 00-0055	CY	12" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	407.35
		<i>For 2,000 PSI Concrete, Deduct</i>	-10.45
		<i>For 2,500 PSI Concrete, Deduct</i>	-5.22
		<i>For 3,500 PSI Concrete, Add</i>	9.68
		<i>For 3,750 PSI Concrete, Add</i>	13.16
		<i>For 4,000 PSI Concrete, Add</i>	16.64
		<i>For 4,500 PSI Concrete, Add</i>	19.35
		<i>For 5,000 PSI Concrete, Add</i>	22.06
		<i>For 6,000 PSI Concrete, Add</i>	52.25
		<i>For 7,500 PSI Concrete, Add</i>	129.74
		<i>For White Cement Concrete, Add</i>	23.22
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	25.16
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	19.35
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	58.05
		<i>For Up To 20, Add</i>	85.54
		<i>For >20 To 50, Add</i>	32.08
		<i>For >100 To 200, Deduct</i>	-8.15
		<i>For >200 To 400, Deduct</i>	-16.29
		<i>For >400, Deduct</i>	-24.44



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0056 CY 18" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	348.94	
For 2,000 PSI Concrete, Deduct	-10.45	
For 2,500 PSI Concrete, Deduct	-5.22	
For 3,500 PSI Concrete, Add	9.68	
For 3,750 PSI Concrete, Add	13.16	
For 4,000 PSI Concrete, Add	16.64	
For 4,500 PSI Concrete, Add	19.35	
For 5,000 PSI Concrete, Add	22.06	
For 6,000 PSI Concrete, Add	52.25	
For 7,500 PSI Concrete, Add	129.74	
For White Cement Concrete, Add	23.22	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.16	
For High Early Strength, Type 3 ASTM C150, Add	19.35	
For Lightweight Aggregate, ASTM C330, Add	58.05	
For Up To 20, Add	62.18	
For >20 To 50, Add	23.32	
For >100 To 200, Deduct	-6.98	
For >200 To 400, Deduct	-13.96	
For >400, Deduct	-20.94	
03 31 13 00-0057 CY 24" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	307.16	
For 2,000 PSI Concrete, Deduct	-10.45	
For 2,500 PSI Concrete, Deduct	-5.22	
For 3,500 PSI Concrete, Add	9.68	
For 3,750 PSI Concrete, Add	13.16	
For 4,000 PSI Concrete, Add	16.64	
For 4,500 PSI Concrete, Add	19.35	
For 5,000 PSI Concrete, Add	22.06	
For 6,000 PSI Concrete, Add	52.25	
For 7,500 PSI Concrete, Add	129.74	
For White Cement Concrete, Add	23.22	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.16	
For High Early Strength, Type 3 ASTM C150, Add	19.35	
For Lightweight Aggregate, ASTM C330, Add	58.05	
For Up To 20, Add	45.46	
For >20 To 50, Add	17.05	
For >100 To 200, Deduct	-6.14	
For >200 To 400, Deduct	-12.29	
For >400, Deduct	-18.43	
03 31 13 00-0058 CY 36" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	288.55	
For 2,000 PSI Concrete, Deduct	-10.45	
For 2,500 PSI Concrete, Deduct	-5.22	
For 3,500 PSI Concrete, Add	9.68	
For 3,750 PSI Concrete, Add	13.16	
For 4,000 PSI Concrete, Add	16.64	
For 4,500 PSI Concrete, Add	19.35	
For 5,000 PSI Concrete, Add	22.06	
For 6,000 PSI Concrete, Add	52.25	
For 7,500 PSI Concrete, Add	129.74	
For White Cement Concrete, Add	23.22	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.16	
For High Early Strength, Type 3 ASTM C150, Add	19.35	
For Lightweight Aggregate, ASTM C330, Add	58.05	
For Up To 20, Add	38.02	
For >20 To 50, Add	14.26	
For >100 To 200, Deduct	-5.77	
For >200 To 400, Deduct	-11.54	
For >400, Deduct	-17.31	
03 31 13 00-0059 CY 12" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	299.23	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-11.32	
For 2,500 PSI Concrete, Deduct	-5.66	
For 3,500 PSI Concrete, Add	10.48	
For 3,750 PSI Concrete, Add	14.25	
For 4,000 PSI Concrete, Add	18.03	
For 4,500 PSI Concrete, Add	20.96	
For 5,000 PSI Concrete, Add	23.90	
For 6,000 PSI Concrete, Add	56.60	
For 7,500 PSI Concrete, Add	140.55	
For White Cement Concrete, Add	25.15	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	27.25	
For High Early Strength, Type 3 ASTM C150, Add	20.96	
For Lightweight Aggregate, ASTM C330, Add	62.89	
For Up To 20, Add	35.84	
For >20 To 50, Add	13.44	
For >100 To 200, Deduct	-5.98	
For >200 To 400, Deduct	-11.97	
For >400, Deduct	-17.95	

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0060	CY	18" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns.....	274.76
		Note: Excludes pumping equipment.	
		For 2,000 PSI Concrete, Deduct	-11.32
		For 2,500 PSI Concrete, Deduct	-5.66
		For 3,500 PSI Concrete, Add	10.48
		For 3,750 PSI Concrete, Add	14.25
		For 4,000 PSI Concrete, Add	18.03
		For 4,500 PSI Concrete, Add	20.96
		For 5,000 PSI Concrete, Add	23.90
		For 6,000 PSI Concrete, Add	56.60
		For 7,500 PSI Concrete, Add	140.55
		For White Cement Concrete, Add	25.15
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	27.25
		For High Early Strength, Type 3 ASTM C150, Add	20.96
		For Lightweight Aggregate, ASTM C330, Add	62.89
		For Up To 20, Add	26.06
		For >20 To 50, Add	9.77
		For >100 To 200, Deduct	-5.50
		For >200 To 400, Deduct	-10.99
		For >400, Deduct	-16.49
03 31 13 00-0061	CY	24" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns.....	257.25
		Note: Excludes pumping equipment.	
		For 2,000 PSI Concrete, Deduct	-11.32
		For 2,500 PSI Concrete, Deduct	-5.66
		For 3,500 PSI Concrete, Add	10.48
		For 3,750 PSI Concrete, Add	14.25
		For 4,000 PSI Concrete, Add	18.03
		For 4,500 PSI Concrete, Add	20.96
		For 5,000 PSI Concrete, Add	23.90
		For 6,000 PSI Concrete, Add	56.60
		For 7,500 PSI Concrete, Add	140.55
		For White Cement Concrete, Add	25.15
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	27.25
		For High Early Strength, Type 3 ASTM C150, Add	20.96
		For Lightweight Aggregate, ASTM C330, Add	62.89
		For Up To 20, Add	19.05
		For >20 To 50, Add	7.14
		For >100 To 200, Deduct	-5.15
		For >200 To 400, Deduct	-10.29
		For >400, Deduct	-15.44
03 31 13 00-0062	CY	36" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns.....	249.44
		Note: Excludes pumping equipment.	
		For 2,000 PSI Concrete, Deduct	-11.32
		For 2,500 PSI Concrete, Deduct	-5.66
		For 3,500 PSI Concrete, Add	10.48
		For 3,750 PSI Concrete, Add	14.25
		For 4,000 PSI Concrete, Add	18.03
		For 4,500 PSI Concrete, Add	20.96
		For 5,000 PSI Concrete, Add	23.90
		For 6,000 PSI Concrete, Add	56.60
		For 7,500 PSI Concrete, Add	140.55
		For White Cement Concrete, Add	25.15
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	27.25
		For High Early Strength, Type 3 ASTM C150, Add	20.96
		For Lightweight Aggregate, ASTM C330, Add	62.89
		For Up To 20, Add	15.93
		For >20 To 50, Add	5.97
		For >100 To 200, Deduct	-4.99
		For >200 To 400, Deduct	-9.98
		For >400, Deduct	-14.97
03 31 13 00-0063		Place Concrete Walls <small>(03 31 13 00-0045)</small>	
03 31 13 00-0064	CY	8" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	393.98
		For 2,000 PSI Concrete, Deduct	-10.45
		For 2,500 PSI Concrete, Deduct	-5.22
		For 3,500 PSI Concrete, Add	9.68
		For 3,750 PSI Concrete, Add	13.16
		For 4,000 PSI Concrete, Add	16.64
		For 4,500 PSI Concrete, Add	19.35
		For 5,000 PSI Concrete, Add	22.06
		For 6,000 PSI Concrete, Add	52.25
		For 7,500 PSI Concrete, Add	129.74
		For White Cement Concrete, Add	23.22
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.16
		For High Early Strength, Type 3 ASTM C150, Add	19.35
		For Lightweight Aggregate, ASTM C330, Add	58.05
		For Up To 20, Add	80.19
		For >20 To 50, Add	30.07
		For >100 To 200, Deduct	-7.88
		For >200 To 400, Deduct	-15.76
		For >400, Deduct	-23.64



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0065 CY 12" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	377.36	
For 2,000 PSI Concrete, Deduct	-10.45	
For 2,500 PSI Concrete, Deduct	-5.22	
For 3,500 PSI Concrete, Add	9.68	
For 3,750 PSI Concrete, Add	13.16	
For 4,000 PSI Concrete, Add	16.64	
For 4,500 PSI Concrete, Add	19.35	
For 5,000 PSI Concrete, Add	22.06	
For 6,000 PSI Concrete, Add	52.25	
For 7,500 PSI Concrete, Add	129.74	
For White Cement Concrete, Add	23.22	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.16	
For High Early Strength, Type 3 ASTM C150, Add	19.35	
For Lightweight Aggregate, ASTM C330, Add	58.05	
For Up To 20, Add	73.54	
For >20 To 50, Add	27.58	
For >100 To 200, Deduct	-7.55	
For >200 To 400, Deduct	-15.09	
For >400, Deduct	-22.64	
03 31 13 00-0066 CY 15" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	333.84	
For 2,000 PSI Concrete, Deduct	-10.45	
For 2,500 PSI Concrete, Deduct	-5.22	
For 3,500 PSI Concrete, Add	9.68	
For 3,750 PSI Concrete, Add	13.16	
For 4,000 PSI Concrete, Add	16.64	
For 4,500 PSI Concrete, Add	19.35	
For 5,000 PSI Concrete, Add	22.06	
For 6,000 PSI Concrete, Add	52.25	
For 7,500 PSI Concrete, Add	129.74	
For White Cement Concrete, Add	23.22	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.16	
For High Early Strength, Type 3 ASTM C150, Add	19.35	
For Lightweight Aggregate, ASTM C330, Add	58.05	
For Up To 20, Add	56.14	
For >20 To 50, Add	21.05	
For >100 To 200, Deduct	-6.68	
For >200 To 400, Deduct	-13.35	
For >400, Deduct	-20.03	
03 31 13 00-0067 CY 8" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	281.71	
For 2,000 PSI Concrete, Deduct	-10.45	
For 2,500 PSI Concrete, Deduct	-5.22	
For 3,500 PSI Concrete, Add	9.68	
For 3,750 PSI Concrete, Add	13.16	
For 4,000 PSI Concrete, Add	16.64	
For 4,500 PSI Concrete, Add	19.35	
For 5,000 PSI Concrete, Add	22.06	
For 6,000 PSI Concrete, Add	52.25	
For 7,500 PSI Concrete, Add	129.74	
For White Cement Concrete, Add	23.22	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.16	
For High Early Strength, Type 3 ASTM C150, Add	19.35	
For Lightweight Aggregate, ASTM C330, Add	58.05	
For Up To 20, Add	35.28	
For >20 To 50, Add	13.23	
For >100 To 200, Deduct	-5.63	
For >200 To 400, Deduct	-11.27	
For >400, Deduct	-16.90	
03 31 13 00-0068 CY 12" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	264.07	
For 2,000 PSI Concrete, Deduct	-10.45	
For 2,500 PSI Concrete, Deduct	-5.22	
For 3,500 PSI Concrete, Add	9.68	
For 3,750 PSI Concrete, Add	13.16	
For 4,000 PSI Concrete, Add	16.64	
For 4,500 PSI Concrete, Add	19.35	
For 5,000 PSI Concrete, Add	22.06	
For 6,000 PSI Concrete, Add	52.25	
For 7,500 PSI Concrete, Add	129.74	
For White Cement Concrete, Add	23.22	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.16	
For High Early Strength, Type 3 ASTM C150, Add	19.35	
For Lightweight Aggregate, ASTM C330, Add	58.05	
For Up To 20, Add	28.23	
For >20 To 50, Add	10.59	
For >100 To 200, Deduct	-5.28	
For >200 To 400, Deduct	-10.56	
For >400, Deduct	-15.84	

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0069	CY 15" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	255.25
	<i>For 2,000 PSI Concrete, Deduct</i>	-10.45
	<i>For 2,500 PSI Concrete, Deduct</i>	-5.22
	<i>For 3,500 PSI Concrete, Add</i>	9.68
	<i>For 3,750 PSI Concrete, Add</i>	13.16
	<i>For 4,000 PSI Concrete, Add</i>	16.64
	<i>For 4,500 PSI Concrete, Add</i>	19.35
	<i>For 5,000 PSI Concrete, Add</i>	22.06
	<i>For 6,000 PSI Concrete, Add</i>	52.25
	<i>For 7,500 PSI Concrete, Add</i>	129.74
	<i>For White Cement Concrete, Add</i>	23.22
	<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	25.16
	<i>For High Early Strength, Type 3 ASTM C150, Add</i>	19.35
	<i>For Lightweight Aggregate, ASTM C330, Add</i>	58.05
	<i>For Up To 20, Add</i>	24.70
	<i>For >20 To 50, Add</i>	9.26
	<i>For >100 To 200, Deduct</i>	-5.11
	<i>For >200 To 400, Deduct</i>	-10.21
	<i>For >400, Deduct</i>	-15.32
03 31 13 00-0070	CY 8" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	293.63
	Note: Excludes pumping equipment.	
	<i>For 2,000 PSI Concrete, Deduct</i>	-11.32
	<i>For 2,500 PSI Concrete, Deduct</i>	-5.66
	<i>For 3,500 PSI Concrete, Add</i>	10.48
	<i>For 3,750 PSI Concrete, Add</i>	14.25
	<i>For 4,000 PSI Concrete, Add</i>	18.03
	<i>For 4,500 PSI Concrete, Add</i>	20.96
	<i>For 5,000 PSI Concrete, Add</i>	23.90
	<i>For 6,000 PSI Concrete, Add</i>	56.60
	<i>For 7,500 PSI Concrete, Add</i>	140.55
	<i>For White Cement Concrete, Add</i>	25.15
	<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	27.25
	<i>For High Early Strength, Type 3 ASTM C150, Add</i>	20.96
	<i>For Lightweight Aggregate, ASTM C330, Add</i>	62.89
	<i>For Up To 20, Add</i>	33.60
	<i>For >20 To 50, Add</i>	12.60
	<i>For >100 To 200, Deduct</i>	-5.87
	<i>For >200 To 400, Deduct</i>	-11.75
	<i>For >400, Deduct</i>	-17.62
03 31 13 00-0071	CY 12" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	276.83
	Note: Excludes pumping equipment.	
	<i>For 2,000 PSI Concrete, Deduct</i>	-11.32
	<i>For 2,500 PSI Concrete, Deduct</i>	-5.66
	<i>For 3,500 PSI Concrete, Add</i>	10.48
	<i>For 3,750 PSI Concrete, Add</i>	14.25
	<i>For 4,000 PSI Concrete, Add</i>	18.03
	<i>For 4,500 PSI Concrete, Add</i>	20.96
	<i>For 5,000 PSI Concrete, Add</i>	23.90
	<i>For 6,000 PSI Concrete, Add</i>	56.60
	<i>For 7,500 PSI Concrete, Add</i>	140.55
	<i>For White Cement Concrete, Add</i>	25.15
	<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	27.25
	<i>For High Early Strength, Type 3 ASTM C150, Add</i>	20.96
	<i>For Lightweight Aggregate, ASTM C330, Add</i>	62.89
	<i>For Up To 20, Add</i>	26.88
	<i>For >20 To 50, Add</i>	10.08
	<i>For >100 To 200, Deduct</i>	-5.54
	<i>For >200 To 400, Deduct</i>	-11.07
	<i>For >400, Deduct</i>	-16.61
03 31 13 00-0072	CY 15" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	268.42
	Note: Excludes pumping equipment.	
	<i>For 2,000 PSI Concrete, Deduct</i>	-11.32
	<i>For 2,500 PSI Concrete, Deduct</i>	-5.66
	<i>For 3,500 PSI Concrete, Add</i>	10.48
	<i>For 3,750 PSI Concrete, Add</i>	14.25
	<i>For 4,000 PSI Concrete, Add</i>	18.03
	<i>For 4,500 PSI Concrete, Add</i>	20.96
	<i>For 5,000 PSI Concrete, Add</i>	23.90
	<i>For 6,000 PSI Concrete, Add</i>	56.60
	<i>For 7,500 PSI Concrete, Add</i>	140.55
	<i>For White Cement Concrete, Add</i>	25.15
	<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	27.25
	<i>For High Early Strength, Type 3 ASTM C150, Add</i>	20.96
	<i>For Lightweight Aggregate, ASTM C330, Add</i>	62.89
	<i>For Up To 20, Add</i>	23.52
	<i>For >20 To 50, Add</i>	8.82
	<i>For >100 To 200, Deduct</i>	-5.37
	<i>For >200 To 400, Deduct</i>	-10.74
	<i>For >400, Deduct</i>	-16.11

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



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0074 CY Crane And Bucket, Place 3,000 PSI Elevated Concrete Stairs.....	598.80	
For 2,000 PSI Concrete, Deduct	-10.45	
For 2,500 PSI Concrete, Deduct	-5.22	
For 3,500 PSI Concrete, Add	9.68	
For 3,750 PSI Concrete, Add	13.16	
For 4,000 PSI Concrete, Add	16.64	
For 4,500 PSI Concrete, Add	19.35	
For 5,000 PSI Concrete, Add	22.06	
For 6,000 PSI Concrete, Add	52.25	
For 7,500 PSI Concrete, Add	129.74	
For White Cement Concrete, Add	23.22	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.16	
For High Early Strength, Type 3 ASTM C150, Add	19.35	
For Lightweight Aggregate, ASTM C330, Add	58.05	
For Up To 20, Add	162.12	
For >20 To 50, Add	60.80	
For >100 To 200, Deduct	-11.98	
For >200 To 400, Deduct	-23.95	
For >400, Deduct	-35.93	
03 31 13 00-0075 CY Direct Chute, Place 3,000 PSI Elevated Concrete Stairs.....	371.83	
For 2,000 PSI Concrete, Deduct	-10.45	
For 2,500 PSI Concrete, Deduct	-5.22	
For 3,500 PSI Concrete, Add	9.68	
For 3,750 PSI Concrete, Add	13.16	
For 4,000 PSI Concrete, Add	16.64	
For 4,500 PSI Concrete, Add	19.35	
For 5,000 PSI Concrete, Add	22.06	
For 6,000 PSI Concrete, Add	52.25	
For 7,500 PSI Concrete, Add	129.74	
For White Cement Concrete, Add	23.22	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.16	
For High Early Strength, Type 3 ASTM C150, Add	19.35	
For Lightweight Aggregate, ASTM C330, Add	58.05	
For Up To 20, Add	71.33	
For >20 To 50, Add	26.75	
For >100 To 200, Deduct	-7.44	
For >200 To 400, Deduct	-14.87	
For >400, Deduct	-22.31	
03 31 13 00-0076 CY Concrete Pump, Place 3,000 PSI Elevated Concrete Stairs.....	358.23	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-11.32	
For 2,500 PSI Concrete, Deduct	-5.66	
For 3,500 PSI Concrete, Add	10.48	
For 3,750 PSI Concrete, Add	14.25	
For 4,000 PSI Concrete, Add	18.03	
For 4,500 PSI Concrete, Add	20.96	
For 5,000 PSI Concrete, Add	23.90	
For 6,000 PSI Concrete, Add	56.60	
For 7,500 PSI Concrete, Add	140.55	
For White Cement Concrete, Add	25.15	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	27.25	
For High Early Strength, Type 3 ASTM C150, Add	20.96	
For Lightweight Aggregate, ASTM C330, Add	62.89	
For Up To 20, Add	59.44	
For >20 To 50, Add	22.29	
For >100 To 200, Deduct	-7.16	
For >200 To 400, Deduct	-14.33	
For >400, Deduct	-21.49	
03 31 13 00-0077 Place Concrete Coping (03 31 13 00-0045)		
03 31 13 00-0078 CY Crane And Bucket, Place 3,000 PSI Concrete Coping	612.81	
For 2,000 PSI Concrete, Deduct	-10.45	
For 2,500 PSI Concrete, Deduct	-5.22	
For 3,500 PSI Concrete, Add	9.68	
For 3,750 PSI Concrete, Add	13.16	
For 4,000 PSI Concrete, Add	16.64	
For 4,500 PSI Concrete, Add	19.35	
For 5,000 PSI Concrete, Add	22.06	
For 6,000 PSI Concrete, Add	52.25	
For 7,500 PSI Concrete, Add	129.74	
For White Cement Concrete, Add	23.22	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.16	
For High Early Strength, Type 3 ASTM C150, Add	19.35	
For Lightweight Aggregate, ASTM C330, Add	58.05	
For Up To 20, Add	167.72	
For >20 To 50, Add	62.90	
For >100 To 200, Deduct	-12.26	
For >200 To 400, Deduct	-24.51	
For >400, Deduct	-36.77	

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0079	CY	Direct Chute, Place 3,000 PSI Concrete Coping.....	370.63	
		<i>For 2,000 PSI Concrete, Deduct</i>	-10.45	
		<i>For 2,500 PSI Concrete, Deduct</i>	-5.22	
		<i>For 3,500 PSI Concrete, Add</i>	9.68	
		<i>For 3,750 PSI Concrete, Add</i>	13.16	
		<i>For 4,000 PSI Concrete, Add</i>	16.64	
		<i>For 4,500 PSI Concrete, Add</i>	19.35	
		<i>For 5,000 PSI Concrete, Add</i>	22.06	
		<i>For 6,000 PSI Concrete, Add</i>	52.25	
		<i>For 7,500 PSI Concrete, Add</i>	129.74	
		<i>For White Cement Concrete, Add</i>	23.22	
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	25.16	
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	19.35	
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	58.05	
		<i>For Up To 20, Add</i>	70.85	
		<i>For >20 To 50, Add</i>	26.57	
		<i>For >100 To 200, Deduct</i>	-7.41	
		<i>For >200 To 400, Deduct</i>	-14.83	
		<i>For >400, Deduct</i>	-22.24	
03 31 13 00-0080	CY	Concrete Pump, Place 3,000 PSI Concrete Coping.....	477.92	
		Note: Excludes pumping equipment.		
		<i>For 2,000 PSI Concrete, Deduct</i>	-11.32	
		<i>For 2,500 PSI Concrete, Deduct</i>	-5.66	
		<i>For 3,500 PSI Concrete, Add</i>	10.48	
		<i>For 3,750 PSI Concrete, Add</i>	14.25	
		<i>For 4,000 PSI Concrete, Add</i>	18.03	
		<i>For 4,500 PSI Concrete, Add</i>	20.96	
		<i>For 5,000 PSI Concrete, Add</i>	23.90	
		<i>For 6,000 PSI Concrete, Add</i>	56.60	
		<i>For 7,500 PSI Concrete, Add</i>	140.55	
		<i>For White Cement Concrete, Add</i>	25.15	
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	27.25	
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	20.96	
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	62.89	
		<i>For Up To 20, Add</i>	107.32	
		<i>For >20 To 50, Add</i>	40.25	
		<i>For >100 To 200, Deduct</i>	-9.56	
		<i>For >200 To 400, Deduct</i>	-19.12	
		<i>For >400, Deduct</i>	-28.68	
03 31 13 00-0081		Concrete Carts <small>(03 31 13 00-0010)</small>		
		Note: Used to place concrete were necessary.		
03 31 13 00-0082	CY	50' Haul, Non Motorized, Concrete Buggy	21.12	
03 31 13 00-0083	CY	150' Haul, Non Motorized, Concrete Buggy	28.27	
03 31 13 00-0084	CY	250' Haul, Non Motorized, Concrete Buggy	37.71	
03 31 13 00-0085	CY	50' Haul, Motorized, Concrete Buggy	9.67	
03 31 13 00-0086	CY	150' Haul, Motorized, Concrete Buggy	12.95	
03 31 13 00-0087	CY	250' Haul, Motorized, Concrete Buggy	17.27	
03 31 13 00-0088		Delivery Fee For Small Purchases <small>(03 31 13)</small>		
03 31 13 00-0089	CY	Delivery Fee For Concrete Purchases Per CY For Each CY Less Than 9 CY.....	22.92	
		Note: The task quantity is 9 minus the number of CY's delivered. For example, the delivery fee for 2CY's is: (9-2) = 7.		
03 31 13 00-0090		Delivery Fee For Concrete, Per Truck Load <small>(03 31 13)</small>		
03 31 13 00-0091	EA	Concrete Delivery Fee, Per Truck.....	40.00	
		Note: To be added to all concrete leaving concrete yard		
03 31 13 00-0092		Equipment Pads <small>(03 31 13)</small>		
03 31 13 00-0093		Small Concrete Equipment Housekeeping Pad Assemblies <small>(03 31 13 00-0092)</small>		
		Note: Includes forms, hand mix concrete, finish, curing and reinforcing. For up to 50 SF per pad and up to 5 pads per project. See CSI section 03 31 13 00-0002 for >50 SF concrete pads.		
03 31 13 00-0094	SF	4" Equipment Pad With Welded Wire Reinforcement	18.18	
		<i>For >5 To 20 Pads, Deduct</i>	-2.10	
		<i>For >20 To 50 Pads, Deduct</i>	-3.84	
		<i>For >50 Pads, Deduct</i>	-5.59	
03 31 13 00-0095	SF	4" Equipment Pad With Rebar	21.98	
		<i>For >5 To 20 Pads, Deduct</i>	-2.42	
		<i>For >20 To 50 Pads, Deduct</i>	-4.43	
		<i>For >50 Pads, Deduct</i>	-6.45	
03 31 13 00-0096	SF	6" Equipment Pad With Rebar	28.07	
		<i>For >5 To 20 Pads, Deduct</i>	-3.04	
		<i>For >20 To 50 Pads, Deduct</i>	-5.57	
		<i>For >50 Pads, Deduct</i>	-8.10	
03 31 13 00-0097	SF	8" Equipment Pad With Rebar	35.49	
		<i>For >5 To 20 Pads, Deduct</i>	-3.86	
		<i>For >20 To 50 Pads, Deduct</i>	-7.08	
		<i>For >50 Pads, Deduct</i>	-10.30	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 31 16 Lightweight Structural Concrete (03 31)

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

03 31 16 00-0002	CY	Lightweight Low Density Cellular/Foam Concrete, 100 To 120 PCF Density Range	239.43
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03 35 Concrete Finishing (03 30)

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

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

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

03 35 13 00-0002	SF	Screed, Concrete Floor Finish	0.92
		<i>For Up To 100, Add</i>	1.84
		<i>For >100 To 250, Add</i>	0.46
		<i>For >250 To 500, Add</i>	0.23
		<i>For >5,000 To 10,000, Deduct</i>	-0.05
		<i>For >10,000, Deduct</i>	-0.09
03 35 13 00-0003	SF	Darby, Concrete Floor Finish	1.10
		<i>For Up To 100, Add</i>	2.20
		<i>For >100 To 250, Add</i>	0.55
		<i>For >250 To 500, Add</i>	0.28
		<i>For >5,000 To 10,000, Deduct</i>	-0.06
		<i>For >10,000, Deduct</i>	-0.11
03 35 13 00-0004	SF	Broom, Concrete Floor Finish	1.21
		<i>For Up To 100, Add</i>	2.42
		<i>For >100 To 250, Add</i>	0.61
		<i>For >250 To 500, Add</i>	0.30
		<i>For >5,000 To 10,000, Deduct</i>	-0.06
		<i>For >10,000, Deduct</i>	-0.12
03 35 13 00-0005	SF	Final Float, Concrete Floor Finish	1.41
		<i>For Up To 100, Add</i>	2.82
		<i>For >100 To 250, Add</i>	0.71
		<i>For >250 To 500, Add</i>	0.35
		<i>For >5,000 To 10,000, Deduct</i>	-0.07
		<i>For >10,000, Deduct</i>	-0.14
03 35 13 00-0006	SF	Steel Trowel, Concrete Floor Finish	1.60
		<i>For Up To 100, Add</i>	3.20
		<i>For >100 To 250, Add</i>	0.80
		<i>For >250 To 500, Add</i>	0.40
		<i>For >5,000 To 10,000, Deduct</i>	-0.08
		<i>For >10,000, Deduct</i>	-0.16

03 35 16 Heavy-Duty Concrete Floor Finishing (03 35)

03 35 16 00-0001 Shake On Floor Hardeners (03 35 16)

03 35 16 00-0002	SF	0.3 LB/SF, Metallic, Shake On Floor Hardener	1.21
03 35 16 00-0003	SF	0.65 LB/SF, Metallic, Shake On Floor Hardener	1.90
03 35 16 00-0004	SF	0.3 LB/SF, Non Metallic, Shake On Floor Hardener	1.13
03 35 16 00-0005	SF	0.65 LB/SF, Non Metallic, Shake On Floor Hardener	1.41

03 35 19 Colored Concrete Finishing (03 35)

03 35 19 00-0001 Concrete Surface Treatments (03 35 19)

03 35 19 00-0002	SF	Acrylic Latex Bonding Agent	0.45
03 35 19 00-0003	SF	Epoxy Resin Bonding Agent	2.47
03 35 19 00-0004	SF	Clear Acrylic Sealer, Hardener And Dustproof	0.30
03 35 19 00-0005	SF	Colored Acrylic Sealer, Hardener And Dustproof	0.31

03 35 23 Exposed Aggregate Concrete Finishing (03 35)

03 35 23 00-0001 Exposed Aggregate, Concrete Finish (03 35 23)

03 35 23 00-0002	SF	Exposed Aggregate, Concrete Floor Finish	3.02
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03 35 26 Grooved Concrete Surface Finishing (03 35)

03 35 26 00-0001 Ramp, Grooved Concrete Surface Finishing (03 35 26)

03 35 26 00-0002	SF	Ramp, Grooved Concrete Surface Finishing	4.02
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03 35 29 Tooled Concrete Finishing (03 35)

03 35 29 00-0001 Solid Board Concrete Finish (03 35 29)

03 35 29 00-0002	SF	Solid Board Concrete, Non Uniform Finish, 1 Use, Add To Formwork	15.15
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03 35 29 00-0003 Marblecrete Finishes (03 35 29)

03 35 29 00-0004	SF	2" Thick Marblecrete And Finish	45.70
03 35 29 00-0005	SF	4" Thick Marblecrete And Finish	61.22



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 35 33 Stamped Concrete Finishing (03 35)

03 35 33 00-0001	Stamped Concrete Finishes (03 35 33)		
03 35 33 00-0002	SF Up To 2,500 SF Stamped Concrete Finish	3.64	
03 35 33 00-0003	SF >2,500 To 10,000 SF Stamped Concrete Finish	3.29	
03 35 33 00-0004	SF >10,000 SF Stamped Concrete Finish	3.15	

03 35 63 Slip-Resistant Floor Finishing (03 35)

03 35 63 00-0001	Slip-Resistant Floor Finishing (03 35 63)		
03 35 63 00-0002	SF Aluminum Oxide Abrasive Floor Finish, 0.25 LB/SF	1.26	
	For Up To 100, Add	1.76	
	For >100 To 250, Add	0.44	
	For >250 To 500, Add	0.22	
	For >5,000 To 10,000, Deduct	-0.04	
	For >10,000, Deduct	-0.09	
03 35 63 00-0003	SF Silicone Carbide Abrasive Floor Finish 0.25 LB/SF	1.11	
	For Up To 100, Add	1.76	
	For >100 To 250, Add	0.44	
	For >250 To 500, Add	0.22	
	For >5,000 To 10,000, Deduct	-0.04	
	For >10,000, Deduct	-0.09	

03 35 66 Acid Etch Floor Finishing (03 35)

03 35 66 00-0001	Acid Etch Floor (03 35 66)		
03 35 66 00-0002	SF Concrete Floor Finishes, Etch With Acid And Rinse	1.03	
	For Up To 100, Add	0.84	
	For >100 To 250, Add	0.21	
	For >250 To 500, Add	0.11	
	For >5,000 To 10,000, Deduct	-0.02	
	For >10,000, Deduct	-0.04	

03 35 83 Concrete Wall Finishing (03 35)

03 35 83 00-0001	Wall Finishes (03 35 83)		
03 35 83 00-0002	SF Burlap Rub With Grout, New Concrete Wall Finishes	1.65	
	For Up To 100, Add	3.08	
	For >100 To 250, Add	0.77	
	For >250 To 500, Add	0.39	
	For >5,000 To 10,000, Deduct	-0.08	
	For >10,000, Deduct	-0.15	
03 35 83 00-0003	SF 1/16" Float Finish, New Concrete Wall Finishes	2.47	
	For Up To 100, Add	4.60	
	For >100 To 250, Add	1.15	
	For >250 To 500, Add	0.58	
	For >5,000 To 10,000, Deduct	-0.12	
	For >10,000, Deduct	-0.23	
03 35 83 00-0004	SF Etch With Acid And Rinse, New Concrete Wall Finishes	1.12	
	For Up To 100, Add	1.02	
	For >100 To 250, Add	0.26	
	For >250 To 500, Add	0.13	
	For >5,000 To 10,000, Deduct	-0.03	
	For >10,000, Deduct	-0.05	
03 35 83 00-0005	SF Bush Hammer Green Concrete, New Concrete Wall Finishes	4.93	
	For Up To 100, Add	9.74	
	For >100 To 250, Add	2.44	
	For >250 To 500, Add	1.22	
	For >5,000 To 10,000, Deduct	-0.24	
	For >10,000, Deduct	-0.49	
03 35 83 00-0006	SF Bush Hammer Cured Concrete, New Concrete Wall Finishes	7.64	
	For Up To 100, Add	15.06	
	For >100 To 250, Add	3.77	
	For >250 To 500, Add	1.88	
	For >5,000 To 10,000, Deduct	-0.38	
	For >10,000, Deduct	-0.75	
03 35 83 00-0007	SF Break Ties And Patch, New Concrete Wall Finishes	0.96	
	For Up To 100, Add	1.64	
	For >100 To 250, Add	0.41	
	For >250 To 500, Add	0.21	
	For >5,000 To 10,000, Deduct	-0.04	
	For >10,000, Deduct	-0.08	
03 35 83 00-0008	SF Carborundum Dry Rub, New Concrete Wall Finishes	3.20	
	For Up To 100, Add	6.12	
	For >100 To 250, Add	1.53	
	For >250 To 500, Add	0.77	
	For >5,000 To 10,000, Deduct	-0.15	
	For >10,000, Deduct	-0.31	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 83 00-0009 SF Carborundum Wet Rub, New Concrete Wall Finishes	4.87	
<i>For Up To 100, Add</i>	9.46	
<i>For >100 To 250, Add</i>	2.37	
<i>For >250 To 500, Add</i>	1.18	
<i>For >5,000 To 10,000, Deduct</i>	-0.24	
<i>For >10,000, Deduct</i>	-0.47	
03 35 83 00-0010 SF Up To 1/4" Penetration Sand Blasting, New Concrete Wall Finishes.....	3.10	
<i>For Up To 100, Add</i>	5.24	
<i>For >100 To 250, Add</i>	1.31	
<i>For >250 To 500, Add</i>	0.66	
<i>For >5,000 To 10,000, Deduct</i>	-0.13	
<i>For >10,000, Deduct</i>	-0.26	
03 35 83 00-0011 SF >1/4" To 1/2" Penetration Sand Blasting, New Concrete Wall Finishes	8.63	
<i>For Up To 100, Add</i>	15.34	
<i>For >100 To 250, Add</i>	3.84	
<i>For >250 To 500, Add</i>	1.92	
<i>For >5,000 To 10,000, Deduct</i>	-0.38	
<i>For >10,000, Deduct</i>	-0.77	

03 37 Specialty Placed Concrete (03 30)

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

03 37 13 Shotcrete (03 37)

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

03 37 13 00-0002 SF 1" Thick Shotcrete, Fiber Reinforced	5.48	
<i>For Up To 25, Add</i>	0.81	
<i>For >25 To 50, Add</i>	0.45	
<i>For >50 To 150, Add</i>	0.13	
03 37 13 00-0003 SF 2" Thick Shotcrete, Fiber Reinforced	10.61	
<i>For Up To 25, Add</i>	1.54	
<i>For >25 To 50, Add</i>	0.85	
<i>For >50 To 150, Add</i>	0.24	
03 37 13 00-0004 SF 3" Thick Shotcrete, Fiber Reinforced	15.45	
<i>For Up To 25, Add</i>	2.19	
<i>For >25 To 50, Add</i>	1.20	
<i>For >50 To 150, Add</i>	0.32	
03 37 13 00-0005 SF 4" Thick Shotcrete, Fiber Reinforced	20.02	
<i>For Up To 25, Add</i>	2.78	
<i>For >25 To 50, Add</i>	1.52	
<i>For >50 To 150, Add</i>	0.39	
03 37 13 00-0006 SF 6" Thick Shotcrete, Fiber Reinforced	28.55	
<i>For Up To 25, Add</i>	3.80	
<i>For >25 To 50, Add</i>	2.06	
<i>For >50 To 150, Add</i>	0.47	

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

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

03 37 13 00-0008 SF 1" Thick Gunite (Dry Mix Shotcrete), Sprayed.....	4.98	
<i>For Radius Or Irregular Surface, Add</i>	0.98	
<i>For Up To 25, Add</i>	0.87	
<i>For >25 To 50, Add</i>	0.49	
<i>For >50 To 150, Add</i>	0.18	
03 37 13 00-0009 SF 2" Thick Gunite (Dry Mix Shotcrete), Sprayed.....	9.43	
<i>For Radius Or Irregular Surface, Add</i>	1.75	
<i>For Up To 25, Add</i>	1.60	
<i>For >25 To 50, Add</i>	0.91	
<i>For >50 To 150, Add</i>	0.33	
03 37 13 00-0010 SF 3" Thick Gunite (Dry Mix Shotcrete), Sprayed.....	13.50	
<i>For Radius Or Irregular Surface, Add</i>	2.37	
<i>For Up To 25, Add</i>	2.24	
<i>For >25 To 50, Add</i>	1.27	
<i>For >50 To 150, Add</i>	0.44	
03 37 13 00-0011 SF 4" Thick Gunite (Dry Mix Shotcrete), Sprayed.....	17.21	
<i>For Radius Or Irregular Surface, Add</i>	2.84	
<i>For Up To 25, Add</i>	2.79	
<i>For >25 To 50, Add</i>	1.57	
<i>For >50 To 150, Add</i>	0.53	
03 37 13 00-0012 SF 5" Thick Gunite (Dry Mix Shotcrete), Sprayed.....	20.63	
<i>For Radius Or Irregular Surface, Add</i>	3.20	
<i>For Up To 25, Add</i>	3.26	
<i>For >25 To 50, Add</i>	1.83	
<i>For >50 To 150, Add</i>	0.60	
03 37 13 00-0013 SF 6" Thick Gunite (Dry Mix Shotcrete), Sprayed.....	23.80	
<i>For Radius Or Irregular Surface, Add</i>	3.46	
<i>For Up To 25, Add</i>	3.68	
<i>For >25 To 50, Add</i>	2.05	
<i>For >50 To 150, Add</i>	0.65	
03 37 13 00-0014 SF 8" Thick Gunite (Dry Mix Shotcrete), Sprayed.....	30.58	
<i>For Radius Or Irregular Surface, Add</i>	4.15	
<i>For Up To 25, Add</i>	4.61	
<i>For >25 To 50, Add</i>	2.57	
<i>For >50 To 150, Add</i>	0.78	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 37 13 00-0015 SF 10" Thick Gunite (Dry Mix Shotcrete), Sprayed.....	36.91	
For Radius Or Irregular Surface, Add	4.66	
For Up To 25, Add	5.44	
For >25 To 50, Add	3.01	
For >50 To 150, Add	0.87	
03 37 13 00-0016 SF 12" Thick Gunite (Dry Mix Shotcrete), Sprayed.....	42.91	
For Radius Or Irregular Surface, Add	5.04	
For Up To 25, Add	6.18	
For >25 To 50, Add	3.40	
For >50 To 150, Add	0.94	
03 37 16 Pumped Concrete (03 37)		
03 37 16 00-0001 Concrete Pumping With Boom Truck (03 37 16)		
Note: Includes truck rental, operator, and local travel delivery. For delivery/set-up of equipment add one hour, for clean-up of equipment add one hour. Use four hours as the minimum cost including set-up and clean-up. Excludes concrete, use "Concrete Pump" concrete tasks from appropriate section to place into pump hopper and place concrete. Sizes are measured at a 30 degree vertical reach. See CSI section 03 31 13 00-0010 for concrete placement.		
03 37 16 00-0002 HR 55' To 60' Boom Truck For Concrete Placement (95 CY Per Hour Rating).....	136.83	
03 37 16 00-0003 HR 70' To 80' Boom Truck For Concrete Placement (117 CY Per Hour Rating).....	142.80	
For Each CY Of Concrete Pumped, Add	1.25	
03 37 16 00-0004 HR 90' To 100' Boom Truck For Concrete Placement (117 CY Per Hour Rating).....	164.36	
For Each CY Of Concrete Pumped, Add	1.50	
03 37 16 00-0005 HR 105' To 115' Boom Truck For Concrete Placement (117 CY Per Hour Rating).....	177.78	
For Each CY Of Concrete Pumped, Add	1.50	
03 37 16 00-0006 HR 120' To 130' Boom Truck For Concrete Placement (170 CY Per Hour Rating).....	191.63	
For Each CY Of Concrete Pumped, Add	1.75	
03 37 16 00-0007 HR 135' To 140' Boom Truck For Concrete Placement (170 CY Per Hour Rating).....	220.97	
03 37 16 00-0008 HR 148' To 155' Boom Truck For Concrete Placement (170 CY Per Hour Rating).....	238.47	
03 37 16 00-0009 HR 170' To 175' Boom Truck For Concrete Placement (182 CY Per Hour Rating).....	280.86	
For Each CY Of Concrete Pumped, Add	2.25	
03 37 16 00-0010 HR 35 CY/HR, 66 HP Trailer Mounted Concrete Pump	98.56	
Note: Includes hoses		
03 39 Concrete Curing (03 39)		
03 39 13 Water Concrete Curing (03 39)		
03 39 13 00-0001 Water Concrete Curing (03 39 13)		
03 39 13 00-0002 SF Water Based Curing, Sealing, Hardening And Dustproofing Compound	0.28	
Note: Coverage rates: rough finish = 300 SF/GAL, broom finish = 300 to 400 SF/GAL, steel troweled = 500 to 600 SF/GAL, and vertical surface = 400 - 500 SF/GAL.		
03 39 23 Membrane Concrete Curing (03 39)		
03 39 23 23 Sheet Membrane Concrete Curing (03 39 23)		
03 39 23 23-0001 Warm Weather Concrete Curing Blankets (03 39 23 23)		
03 39 23 23-0002 CSF Warm Weather Concrete Curing Blankets	32.31	
03 39 23 23-0003 Cold Weather Concrete Curing Blankets (03 39 23 23)		
03 39 23 23-0004 CSF Electric, Cold Weather Concrete Curing Blanket.....	215.60	
03 39 23 23-0005 CSF Non-Electric, Cold Weather Concrete Curing Blanket.....	29.45	
03 40 Precast Concrete (03)		
Note: Precast concrete material prices are based on a precast operation producing large quantities of precast products. Material prices include the concrete panel, delivery to construction site and overhead/mobilization charges for the precast plant.		
03 41 Precast Structural Concrete (03 40)		
03 41 16 Precast Concrete Slabs (03 41)		
03 41 16 00-0001 Flat Floor Slab/Floor Plank (03 41 16)		
03 41 16 00-0002 Erection Costs For Using A 90 Ton Crawler Crane (03 41 16 00-0001)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 16 00-0003 EA Erect Precast Floor Deck, 0-2 Ton/Piece 150' Maximum Radius With 90 Ton Crane.....	316.98	253.60
03 41 16 00-0004 EA Erect Precast Floor Deck, 2-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	352.37	281.84
03 41 16 00-0005 EA Erect Precast Floor Deck, 3-4 Ton/Piece 105' Maximum Radius With 90 Ton Crane.....	374.16	299.32
03 41 16 00-0006 EA Erect Precast Floor Deck, 4-5 Ton/Piece 88' Maximum Radius With 90 Ton Crane.....	396.66	317.35
03 41 16 00-0007 EA Erect Precast Floor Deck, 5-6 Ton/Piece 82' Maximum Radius With 90 Ton Crane.....	424.49	339.57
03 41 16 00-0008 EA Erect Precast Floor Deck, 6-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	453.68	362.94
03 41 16 00-0009 EA Erect Precast Floor Deck, 7-8 Ton/Piece 70' Maximum Radius With 90 Ton Crane.....	487.17	389.71
03 41 16 00-0010 EA Erect Precast Floor Deck, 8-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	529.84	423.85
03 41 16 00-0011 EA Erect Precast Floor Deck, 9-10 Ton/Piece 60' Maximum Radius With 90 Ton Crane.....	576.10	460.94



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 16 00-0012 Material Cost <small>(03 41 16 00-0001)</small>		
Note: Includes cost for 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operations cost.		
03 41 16 00-0013 SF 4" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	27.87	
For 3,500 PSI Concrete, Add	0.56	
For 4,000 PSI Concrete, Add	0.84	
For 4,500 PSI Concrete, Add	1.11	
For 5,000 PSI Concrete, Add	1.67	
03 41 16 00-0014 SF 5" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	33.45	
For 3,500 PSI Concrete, Add	0.67	
For 4,000 PSI Concrete, Add	1.00	
For 4,500 PSI Concrete, Add	1.34	
For 5,000 PSI Concrete, Add	2.01	
03 41 16 00-0015 SF 6" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	40.88	
For 3,500 PSI Concrete, Add	0.82	
For 4,000 PSI Concrete, Add	1.23	
For 4,500 PSI Concrete, Add	1.64	
For 5,000 PSI Concrete, Add	2.45	
03 41 16 00-0016 SF 8" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	54.26	
For 3,500 PSI Concrete, Add	1.09	
For 4,000 PSI Concrete, Add	1.63	
For 4,500 PSI Concrete, Add	2.17	
For 5,000 PSI Concrete, Add	3.26	
03 41 16 00-0017 Floor Units, Combination Beam And Slab <small>(03 41 16)</small>		
03 41 16 00-0018 Erection Costs For Using 90 Ton Crawler Crane <small>(03 41 16 00-0017)</small>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 16 00-0019 EA Erect Precast Comb Deck, 0-5 Ton/Piece Beam And Slab, 88' Maximum Radius With 90 Ton Crane.....	389.31	311.43
03 41 16 00-0020 EA Erect Precast Comb Deck, 5-10 Ton/Piece Beam And Slab, 60' Maximum Radius With 90 Ton Crane.....	424.32	339.49
03 41 16 00-0021 EA Erect Precast Comb Deck, 10-15 Ton/Piece Beam And Slab, 43' Maximum Radius With 90 Ton Crane.....	468.98	375.14
03 41 16 00-0022 EA Erect Precast Comb Deck, 15-20 Ton/Piece Beam And Slab, 36' Maximum Radius With 90 Ton Crane.....	520.75	416.58
03 41 16 00-0023 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 31' Maximum Radius With 90 Ton Crane.....	585.37	468.26
03 41 16 00-0024 Erection Costs Using A 125 Ton Crawler Crane <small>(03 41 16 00-0017)</small>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 16 00-0025 EA Erect Precast Comb Deck, 0-5 Ton/Piece Beam And Slab, 110' Maximum Radius, 125 Ton Crane.....	501.42	401.16
03 41 16 00-0026 EA Erect Precast Comb Deck, 5-10 Ton/Piece Beam And Slab, 75' Maximum Radius, 125 Ton Crane.....	546.51	437.18
03 41 16 00-0027 EA Erect Precast Comb Deck, 10-15 Ton/Piece Beam And Slab, 55' Maximum Radius, 125 Ton Crane.....	604.04	483.27
03 41 16 00-0028 EA Erect Precast Comb Deck, 15-20 Ton/Piece Beam And Slab, 50' Maximum Radius, 125 Ton Crane.....	670.72	536.60
03 41 16 00-0029 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 40' Maximum Radius, 125 Ton Crane.....	753.94	603.22
03 41 16 00-0030 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 33' Maximum Radius, 125 Ton Crane.....	819.77	655.76
03 41 16 00-0031 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 30' Maximum Radius, 125 Ton Crane.....	906.06	724.84
03 41 16 00-0032 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 28' Maximum Radius, 125 Ton Crane.....	1,002.82	802.32
03 41 16 00-0033 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 26' Maximum Radius, 125 Ton Crane.....	1,135.06	908.06
03 41 16 00-0034 Material Cost <small>(03 41 16 00-0017)</small>		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operation.		
03 41 16 00-0035 4" Slab <small>(03 41 16 00-0034)</small>		
03 41 16 00-0036 CY Precast Combination Deck, 4" Slab With Beams Edge Beam Only, 3,000 PSI Concrete.....	2,935.78	
For 3,500 PSI Concrete, Add	58.72	
For 4,000 PSI Concrete, Add	88.07	
For 4,500 PSI Concrete, Add	117.43	
For 5,000 PSI Concrete, Add	176.15	
03 41 16 00-0037 CY Precast Combination Deck, 4" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete.....	2,972.94	
For 3,500 PSI Concrete, Add	59.46	
For 4,000 PSI Concrete, Add	89.19	
For 4,500 PSI Concrete, Add	118.92	
For 5,000 PSI Concrete, Add	178.38	
03 41 16 00-0038 CY Precast Combination Deck, 4" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete.....	3,344.56	
For 3,500 PSI Concrete, Add	66.89	
For 4,000 PSI Concrete, Add	100.34	
For 4,500 PSI Concrete, Add	133.78	
For 5,000 PSI Concrete, Add	200.67	
03 41 16 00-0039 5" Slab <small>(03 41 16 00-0034)</small>		
03 41 16 00-0040 CY Precast Combination Deck, 5" Slab With Beams Edge Beam Only, 3,000 PSI Concrete.....	3,010.10	
For 3,500 PSI Concrete, Add	60.20	
For 4,000 PSI Concrete, Add	90.30	
For 4,500 PSI Concrete, Add	120.40	
For 5,000 PSI Concrete, Add	180.61	
03 41 16 00-0041 CY Precast Combination Deck, 5" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete.....	3,121.59	
For 3,500 PSI Concrete, Add	62.43	
For 4,000 PSI Concrete, Add	93.65	
For 4,500 PSI Concrete, Add	124.86	
For 5,000 PSI Concrete, Add	187.30	

03	Concrete
03 40	Precast Concrete
03 41	Precast Structural Concrete



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 41 16 00-0042	CY	Precast Combination Deck, 5" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete.....	3,976.31	
		<i>For 3,500 PSI Concrete, Add</i>	79.53	
		<i>For 4,000 PSI Concrete, Add</i>	119.29	
		<i>For 4,500 PSI Concrete, Add</i>	159.05	
		<i>For 5,000 PSI Concrete, Add</i>	238.58	

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

03 41 16 00-0044	CY	Precast Combination Deck, 6" Slab With Beams Edge Beam Only, 3,000 PSI Concrete.....	3,121.59	
		<i>For 3,500 PSI Concrete, Add</i>	62.43	
		<i>For 4,000 PSI Concrete, Add</i>	93.65	
		<i>For 4,500 PSI Concrete, Add</i>	124.86	
		<i>For 5,000 PSI Concrete, Add</i>	187.30	
03 41 16 00-0045	CY	Precast Combination Deck, 6" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete.....	3,716.17	
		<i>For 3,500 PSI Concrete, Add</i>	74.32	
		<i>For 4,000 PSI Concrete, Add</i>	111.49	
		<i>For 4,500 PSI Concrete, Add</i>	148.65	
		<i>For 5,000 PSI Concrete, Add</i>	222.97	
03 41 16 00-0046	CY	Precast Combination Deck, 6" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete.....	4,533.73	
		<i>For 3,500 PSI Concrete, Add</i>	90.67	
		<i>For 4,000 PSI Concrete, Add</i>	136.01	
		<i>For 4,500 PSI Concrete, Add</i>	181.35	
		<i>For 5,000 PSI Concrete, Add</i>	272.02	

03 41 19 Precast Concrete Wall Panels (03 41)

03 41 19 00-0001 Structural Wall Panels (03 41 19)

Note: Gray, smooth form or board finish one side.

03 41 19 00-0002 Erection Cost Using 50 Ton Hydraulic Crane (03 41 19 00-0001)

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

03 41 19 00-0003	EA	Erect Precast Wall Panel 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane	310.39	248.32
03 41 19 00-0004	EA	Erect Precast Wall Panel 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane	345.03	275.98
03 41 19 00-0005	EA	Erect Precast Wall Panel 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane	388.41	310.75
03 41 19 00-0006	EA	Erect Precast Wall Panel 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane	415.66	332.51
03 41 19 00-0007	EA	Erect Precast Wall Panel 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane	444.24	355.39
03 41 19 00-0008	EA	Erect Precast Wall Panel 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane	477.03	381.60
03 41 19 00-0009	EA	Erect Precast Wall Panel 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane	518.82	415.03
03 41 19 00-0010	EA	Erect Precast Wall Panel 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane	564.11	451.35

03 41 19 00-0011 Erection Cost Using 90 Ton Crawler Crane (03 41 19 00-0001)

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

03 41 19 00-0012	EA	Erect Precast Wall Panel 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane	350.20	280.13
03 41 19 00-0013	EA	Erect Precast Wall Panel 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	389.31	311.43
03 41 19 00-0014	EA	Erect Precast Wall Panel 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane	438.23	350.64
03 41 19 00-0015	EA	Erect Precast Wall Panel 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	468.98	375.14
03 41 19 00-0016	EA	Erect Precast Wall Panel 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	501.22	400.99
03 41 19 00-0017	EA	Erect Precast Wall Panel 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane	538.23	430.61
03 41 19 00-0018	EA	Erect Precast Wall Panel 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane	585.37	468.26
03 41 19 00-0019	EA	Erect Precast Wall Panel 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane	636.48	509.14
03 41 19 00-0020	EA	Erect Precast Wall Panel 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane	703.48	562.83
03 41 19 00-0021	EA	Erect Precast Wall Panel 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane	778.61	622.86
03 41 19 00-0022	EA	Erect Precast Wall Panel 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane	881.28	705.06
03 41 19 00-0023	EA	Erect Precast Wall Panel 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane	1,002.46	801.96
03 41 19 00-0024	EA	Erect Precast Wall Panel 35-40 Ton/Piece 23' Maximum Radius With 90 Ton Crane	1,162.27	929.84

03 41 19 00-0025 Material Cost (03 41 19 00-0001)

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

03 41 19 00-0026	SF	4" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	37.16	
		<i>For 3,500 PSI Concrete, Add</i>	0.74	
		<i>For 4,000 PSI Concrete, Add</i>	1.11	
		<i>For 4,500 PSI Concrete, Add</i>	1.49	
		<i>For 5,000 PSI Concrete, Add</i>	2.23	
		<i>For White Facing, Add</i>	7.43	
		<i>For Solid White Through Thickness, Add</i>	7.43	
		<i>For Broken Rib Finish, Add</i>	3.72	
		<i>For Fluted Surface, Add</i>	3.72	
		<i>For Exposed Aggregate, Add</i>	7.43	
		<i>For Sandblasting Of Surface, Add</i>	3.72	
		<i>For 2" Polystyrene Insulation, Add</i>	1.15	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0027 SF 5" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect	45.71	
For 3,500 PSI Concrete, Add	0.91	
For 4,000 PSI Concrete, Add	1.37	
For 4,500 PSI Concrete, Add	1.83	
For 5,000 PSI Concrete, Add	2.74	
For White Facing, Add	9.14	
For Solid White Through Thickness, Add	9.14	
For Broken Rib Finish, Add	4.57	
For Fluted Surface, Add	4.57	
For Exposed Aggregate, Add	9.14	
For Sandblasting Of Surface, Add	4.57	
For 2" Polystyrene Insulation, Add	1.15	
03 41 19 00-0028 SF 6" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect	55.00	
For 3,500 PSI Concrete, Add	1.10	
For 4,000 PSI Concrete, Add	1.65	
For 4,500 PSI Concrete, Add	2.20	
For 5,000 PSI Concrete, Add	3.30	
For White Facing, Add	11.00	
For Solid White Through Thickness, Add	11.00	
For Broken Rib Finish, Add	5.50	
For Fluted Surface, Add	5.50	
For Exposed Aggregate, Add	11.00	
For Sandblasting Of Surface, Add	5.50	
For 2" Polystyrene Insulation, Add	1.15	
03 41 19 00-0029 SF 8" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect	72.47	
For 3,500 PSI Concrete, Add	1.45	
For 4,000 PSI Concrete, Add	2.17	
For 4,500 PSI Concrete, Add	2.90	
For 5,000 PSI Concrete, Add	4.35	
For White Facing, Add	14.49	
For Solid White Through Thickness, Add	14.49	
For Broken Rib Finish, Add	7.25	
For Fluted Surface, Add	7.25	
For Exposed Aggregate, Add	14.49	
For Sandblasting Of Surface, Add	7.25	
For 2" Polystyrene Insulation, Add	1.15	
03 41 19 00-0030 Partition Panels <small>(03 41 19)</small>		
03 41 19 00-0031 Erection Costs Using 20 Ton Hydraulic Crane <small>(03 41 19 00-0030)</small>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0032 EA Erect Precast Partition Wall 0-1 Ton/Piece 69' Maximum Radius With 20 Ton Crane	248.30	198.61
03 41 19 00-0033 EA Erect Precast Partition Wall 1-2 Ton/Piece 50' Maximum Radius With 20 Ton Crane	276.03	220.84
03 41 19 00-0034 EA Erect Precast Partition Wall 2-3 Ton/Piece 41' Maximum Radius With 20 Ton Crane	310.72	248.57
03 41 19 00-0035 EA Erect Precast Partition Wall 3-4 Ton/Piece 33' Maximum Radius With 20 Ton Crane	355.39	284.31
03 41 19 00-0036 EA Erect Precast Partition Wall 4-5 Ton/Piece 30' Maximum Radius With 20 Ton Crane	381.62	305.33
03 41 19 00-0037 EA Erect Precast Partition Wall 5-6 Ton/Piece 26' Maximum Radius With 20 Ton Crane	415.05	332.03
03 41 19 00-0038 EA Erect Precast Partition Wall 6-7 Ton/Piece 23' Maximum Radius With 20 Ton Crane	451.29	361.07
03 41 19 00-0039 EA Erect Precast Partition Wall 7-8 Ton/Piece 20' Maximum Radius With 20 Ton Crane	498.79	399.05
03 41 19 00-0040 Erection Costs Using 50 Ton Hydraulic Crane <small>(03 41 19 00-0030)</small>		
Note: Includes handling, hoisting in place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.		
03 41 19 00-0041 EA Erect Precast Partition Wall 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane	310.39	248.32
03 41 19 00-0042 EA Erect Precast Partition Wall 1-2 Ton/Piece 82' Maximum Radius With 50 Ton Crane	345.03	275.98
03 41 19 00-0043 EA Erect Precast Partition Wall 2-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane	388.41	310.75
03 41 19 00-0044 EA Erect Precast Partition Wall 3-4 Ton/Piece 57' Maximum Radius With 50 Ton Crane	444.24	355.39
03 41 19 00-0045 EA Erect Precast Partition Wall 4-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane	477.03	381.60
03 41 19 00-0046 EA Erect Precast Partition Wall 5-6 Ton/Piece 44' Maximum Radius With 50 Ton Crane	518.82	415.03
03 41 19 00-0047 EA Erect Precast Partition Wall 6-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane	564.11	451.35
03 41 19 00-0048 EA Erect Precast Partition Wall 7-8 Ton/Piece 36' Maximum Radius With 50 Ton Crane	623.49	498.77
03 41 19 00-0049 EA Erect Precast Partition Wall 8-10 Ton/Piece 31' Maximum Radius With 50 Ton Crane	690.08	552.08
03 41 19 00-0050 EA Erect Precast Partition Wall 10-12 Ton/Piece 26' Maximum Radius With 50 Ton Crane	781.08	624.82
03 41 19 00-0051 EA Erect Precast Partition Wall 12-14 Ton/Piece 25' Maximum Radius With 50 Ton Crane	888.47	710.78
03 41 19 00-0052 EA Erect Precast Partition Wall 14-16 Ton/Piece 21' Maximum Radius With 50 Ton Crane	1,030.12	824.06
03 41 19 00-0053 Material Cost <small>(03 41 19 00-0030)</small>		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operations.		
03 41 19 00-0054 SF 4" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect	35.30	
For 4,000 PSI Concrete, Add	1.06	
For 4,500 PSI Concrete, Add	1.41	
For 5,000 PSI Concrete, Add	2.12	
For White Facing, Add	7.06	
For Solid White Through Thickness, Add	7.06	
For Broken Rib Finish, Add	3.53	
For Fluted Surface, Add	3.53	
For Exposed Aggregate, Add	7.06	
For Sandblasting Of Surface, Add	3.53	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0055 SF 5" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect	43.48	
For 4,000 PSI Concrete, Add	1.30	
For 4,500 PSI Concrete, Add	1.74	
For 5,000 PSI Concrete, Add	2.61	
For White Facing, Add	8.70	
For Solid White Through Thickness, Add	8.70	
For Broken Rib Finish, Add	4.35	
For Fluted Surface, Add	4.35	
For Exposed Aggregate, Add	8.70	
For Sandblasting Of Surface, Add	4.35	
03 41 19 00-0056 SF 6" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect	52.03	
For 4,000 PSI Concrete, Add	1.56	
For 4,500 PSI Concrete, Add	2.08	
For 5,000 PSI Concrete, Add	3.12	
For White Facing, Add	10.41	
For Solid White Through Thickness, Add	10.41	
For Broken Rib Finish, Add	5.20	
For Fluted Surface, Add	5.20	
For Exposed Aggregate, Add	10.41	
For Sandblasting Of Surface, Add	5.20	
03 41 19 00-0057 SF 8" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect	68.75	
For 4,000 PSI Concrete, Add	2.06	
For 4,500 PSI Concrete, Add	2.75	
For 5,000 PSI Concrete, Add	4.13	
For White Facing, Add	13.75	
For Solid White Through Thickness, Add	13.75	
For Broken Rib Finish, Add	6.88	
For Fluted Surface, Add	6.88	
For Exposed Aggregate, Add	13.75	
For Sandblasting Of Surface, Add	6.88	
03 41 19 00-0058 Cladding Panels (03 41 19)		
03 41 19 00-0059 Erection Costs Using 50 Ton Hydraulic Crane (03 41 19 00-0058)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0060 EA Erect Precast Cladding 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane	327.55	261.99
03 41 19 00-0061 EA Erect Precast Cladding 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane	366.38	293.09
03 41 19 00-0062 EA Erect Precast Cladding 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane	415.66	332.51
03 41 19 00-0063 EA Erect Precast Cladding 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane	444.24	355.39
03 41 19 00-0064 EA Erect Precast Cladding 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane	477.03	381.60
03 41 19 00-0065 EA Erect Precast Cladding 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane	518.82	415.03
03 41 19 00-0066 EA Erect Precast Cladding 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane	564.11	451.35
03 41 19 00-0067 EA Erect Precast Cladding 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane	623.49	498.77
03 41 19 00-0068 Erection Costs Using 90 Ton Crawler Crane (03 41 19 00-0058)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0069 EA Erect Precast Cladding 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane	369.57	295.61
03 41 19 00-0070 EA Erect Precast Cladding 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	413.38	330.70
03 41 19 00-0071 EA Erect Precast Cladding 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane	468.98	375.14
03 41 19 00-0072 EA Erect Precast Cladding 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	501.22	400.99
03 41 19 00-0073 EA Erect Precast Cladding 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	538.23	430.61
03 41 19 00-0074 EA Erect Precast Cladding 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane	585.37	468.26
03 41 19 00-0075 EA Erect Precast Cladding 11-13 Ton/Piece 90' Maximum Radius With 90 Ton Crane	636.48	509.14
03 41 19 00-0076 EA Erect Precast Cladding 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane	703.48	562.83
03 41 19 00-0077 EA Erect Precast Cladding 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane	778.61	622.86
03 41 19 00-0078 EA Erect Precast Cladding 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane	881.28	705.06
03 41 19 00-0079 EA Erect Precast Cladding 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane	1,002.46	801.96
03 41 19 00-0080 EA Erect Precast Cladding 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane	1,162.27	929.84
03 41 19 00-0081 Material Cost (03 41 19 00-0058)		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations.		
03 41 19 00-0082 SF 4" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect	35.30	
For 3,500 PSI Concrete, Add	0.71	
For 4,000 PSI Concrete, Add	1.06	
For 4,500 PSI Concrete, Add	1.41	
For 5,000 PSI Concrete, Add	2.12	
For White Facing, Add	7.06	
For Solid White Through Thickness, Add	7.06	
For Broken Rib Finish, Add	3.53	
For Fluted Surface, Add	3.53	
For Exposed Aggregate, Add	7.06	
For Sandblasting Of Surface, Add	3.53	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0083 SF 5" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	43.48	
For 3,500 PSI Concrete, Add	0.87	
For 4,000 PSI Concrete, Add	1.30	
For 4,500 PSI Concrete, Add	1.74	
For 5,000 PSI Concrete, Add	2.61	
For White Facing, Add	8.70	
For Solid White Through Thickness, Add	8.70	
For Broken Rib Finish, Add	4.35	
For Fluted Surface, Add	4.35	
For Exposed Aggregate, Add	8.70	
For Sandblasting Of Surface, Add	4.35	
03 41 19 00-0084 SF 6" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	52.03	
For 3,500 PSI Concrete, Add	1.04	
For 4,000 PSI Concrete, Add	1.56	
For 4,500 PSI Concrete, Add	2.08	
For 5,000 PSI Concrete, Add	3.12	
For White Facing, Add	10.41	
For Solid White Through Thickness, Add	10.41	
For Broken Rib Finish, Add	5.20	
For Fluted Surface, Add	5.20	
For Exposed Aggregate, Add	10.41	
For Sandblasting Of Surface, Add	5.20	
03 41 19 00-0085 SF 8" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	68.75	
For 3,500 PSI Concrete, Add	1.38	
For 4,000 PSI Concrete, Add	2.06	
For 4,500 PSI Concrete, Add	2.75	
For 5,000 PSI Concrete, Add	4.13	
For White Facing, Add	13.75	
For Solid White Through Thickness, Add	13.75	
For Broken Rib Finish, Add	6.88	
For Fluted Surface, Add	6.88	
For Exposed Aggregate, Add	13.75	
For Sandblasting Of Surface, Add	6.88	
03 41 19 00-0086 Sandwich Panel (03 41 19)		
03 41 19 00-0087 Erection Costs Using 50 Ton Hydraulic Crane (03 41 19 00-0086)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0088 EA Erect Precast Sandwich Panel 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane	327.55	261.99
03 41 19 00-0089 EA Erect Precast Sandwich Panel 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane	366.38	293.09
03 41 19 00-0090 EA Erect Precast Sandwich Panel 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane	415.66	332.51
03 41 19 00-0091 EA Erect Precast Sandwich Panel 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane	444.24	355.39
03 41 19 00-0092 EA Erect Precast Sandwich Panel 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane	477.03	381.60
03 41 19 00-0093 EA Erect Precast Sandwich Panel 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane	518.82	415.03
03 41 19 00-0094 EA Erect Precast Sandwich Panel 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane	564.11	451.35
03 41 19 00-0095 EA Erect Precast Sandwich Panel 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane	623.49	498.77
03 41 19 00-0096 Erection Costs Using 90 Ton Crawler Crane (03 41 19 00-0086)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0097 EA Erect Precast Sandwich Panel 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane	334.51	267.55
03 41 19 00-0098 EA Erect Precast Sandwich Panel 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	374.16	299.32
03 41 19 00-0099 EA Erect Precast Sandwich Panel 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane	424.49	339.57
03 41 19 00-0100 EA Erect Precast Sandwich Panel 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	453.68	362.94
03 41 19 00-0101 EA Erect Precast Sandwich Panel 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	487.17	389.71
03 41 19 00-0102 EA Erect Precast Sandwich Panel 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane	529.84	423.85
03 41 19 00-0103 EA Erect Precast Sandwich Panel 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane	576.10	460.94
03 41 19 00-0104 EA Erect Precast Sandwich Panel 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane	636.74	509.37
03 41 19 00-0105 EA Erect Precast Sandwich Panel 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane	704.74	563.81
03 41 19 00-0106 EA Erect Precast Sandwich Panel 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane	797.68	638.10
03 41 19 00-0107 EA Erect Precast Sandwich Panel 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane	907.35	725.89
03 41 19 00-0108 EA Erect Precast Sandwich Panel 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane	1,052.01	841.57
03 41 19 00-0109 Material Cost (03 41 19 00-0086)		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations. Sandwich panel consists of 2.5" cladding panel, 2" fiber board insulation and the structural panel as defined.		
03 41 19 00-0110 SF 4" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	48.31	
For 3,500 PSI Concrete, Add	0.97	
For 4,000 PSI Concrete, Add	1.45	
For 4,500 PSI Concrete, Add	1.93	
For 5,000 PSI Concrete, Add	2.90	
For White Facing, Add	9.66	
For Solid White Through Thickness, Add	9.66	
For Broken Rib Finish, Add	4.83	
For Fluted Surface, Add	4.83	
For Exposed Aggregate, Add	9.66	
For Sandblasting Of Surface, Add	4.83	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0111 SF 5" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect.....	56.86	
For 3,500 PSI Concrete, Add	1.14	
For 4,000 PSI Concrete, Add	1.71	
For 4,500 PSI Concrete, Add	2.27	
For 5,000 PSI Concrete, Add	3.41	
For White Facing, Add	11.37	
For Solid White Through Thickness, Add	11.37	
For Broken Rib Finish, Add	5.69	
For Fluted Surface, Add	5.69	
For Exposed Aggregate, Add	11.37	
For Sandblasting Of Surface, Add	5.69	
03 41 19 00-0112 SF 6" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect.....	66.15	
For 3,500 PSI Concrete, Add	1.32	
For 4,000 PSI Concrete, Add	1.98	
For 4,500 PSI Concrete, Add	2.65	
For 5,000 PSI Concrete, Add	3.97	
For White Facing, Add	13.23	
For Solid White Through Thickness, Add	13.23	
For Broken Rib Finish, Add	6.62	
For Fluted Surface, Add	6.62	
For Exposed Aggregate, Add	13.23	
For Sandblasting Of Surface, Add	6.62	
03 41 19 00-0113 SF 8" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect.....	83.61	
For 3,500 PSI Concrete, Add	1.67	
For 4,000 PSI Concrete, Add	2.51	
For 4,500 PSI Concrete, Add	3.34	
For 5,000 PSI Concrete, Add	5.02	
For White Facing, Add	16.72	
For Solid White Through Thickness, Add	16.72	
For Broken Rib Finish, Add	8.36	
For Fluted Surface, Add	8.36	
For Exposed Aggregate, Add	16.72	
For Sandblasting Of Surface, Add	8.36	

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

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

03 41 23 00-0002 EA Erect Precast Stairs, 0-2 Ton/Piece 82' Maximum Radius With 50 Ton Crane.....	345.03	275.98
03 41 23 00-0003 EA Erect Precast Stairs, 2-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	366.38	293.09
03 41 23 00-0004 EA Erect Precast Stairs, 3-4 Ton/Piece 57' Maximum Radius With 50 Ton Crane.....	388.41	310.75
03 41 23 00-0005 EA Erect Precast Stairs, 4-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	415.66	332.51
03 41 23 00-0006 EA Erect Precast Stairs, 5-6 Ton/Piece 44' Maximum Radius With 50 Ton Crane.....	444.24	355.39
03 41 23 00-0007 EA Erect Precast Stairs, 6-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	477.03	381.60
03 41 23 00-0008 EA Erect Precast Stairs, 7-8 Ton/Piece 36' Maximum Radius With 50 Ton Crane.....	518.82	415.03
03 41 23 00-0009 EA Erect Precast Stairs, 8-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane.....	564.11	451.35

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

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

03 41 23 00-0011 EA Erect Precast Stairs, 0-2 Ton/Piece 151' Maximum Radius With 90 Ton Crane.....	345.03	275.98
03 41 23 00-0012 EA Erect Precast Stairs, 2-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	366.38	293.09
03 41 23 00-0013 EA Erect Precast Stairs, 3-4 Ton/Piece 105' Maximum Radius With 90 Ton Crane.....	388.41	310.75
03 41 23 00-0014 EA Erect Precast Stairs, 4-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane.....	415.66	332.51
03 41 23 00-0015 EA Erect Precast Stairs, 5-6 Ton/Piece 82' Maximum Radius With 90 Ton Crane.....	444.24	355.39
03 41 23 00-0016 EA Erect Precast Stairs, 6-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	477.03	381.60
03 41 23 00-0017 EA Erect Precast Stairs, 7-8 Ton/Piece 70' Maximum Radius With 90 Ton Crane.....	518.82	415.03
03 41 23 00-0018 EA Erect Precast Stairs, 8-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	564.11	451.35

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

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

03 41 23 00-0020 EA 3' Wide With 10-1/2" Depth Treads Precast Concrete Stair Unit, Per Riser.....	744.76	
For 3,500 PSI Concrete, Add	97.19	
For 4,000 PSI Concrete, Add	182.62	
For 4,500 PSI Concrete, Add	268.41	
For 5,000 PSI Concrete, Add	365.16	

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

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

03 41 26 00-0003 EA Erect Precast Structural Sections, 0-5 Ton/Piece Beam, Girder, Joist; 89' Maximum Radius, 90 Ton Crane.....	438.23	350.64
03 41 26 00-0004 EA Erect Precast Structural Sections, 5-10 Ton/Piece Beam, Girder, Joist; 60' Maximum Radius, 90 Ton Crane.....	468.98	375.14
03 41 26 00-0005 EA Erect Precast Structural Sections, 10-15 Ton/Piece Beam, Girder, Joist; 43' Maximum Radius, 90 Ton Crane.....	501.22	400.99
03 41 26 00-0006 EA Erect Precast Structural Sections, 15-20 Ton/Piece Beam, Girder, Joist; 36' Maximum Radius, 90 Ton Crane.....	538.23	430.61

03 Concrete**03 40 Precast Concrete****03 41 Precast Structural Concrete**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

03 41 26 00-0038	Material Cost <small>(03 41 26 00-0029)</small>		
	Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast operations.		
03 41 26 00-0039	12" x 12" Column, Square, Tied <small>(03 41 26 00-0038)</small>		
03 41 26 00-0040	CY 12" x 12" Precast Column, Tied, Average Reinforced 351 LB/CY.....	770.84	
	For 3,500 PSI Concrete, Add	57.81	
	For 4,000 PSI Concrete, Add	108.69	
	For 4,500 PSI Concrete, Add	160.33	
	For 5,000 PSI Concrete, Add	218.15	
03 41 26 00-0041	16" x 16" Column, Square, Tied <small>(03 41 26 00-0038)</small>		
03 41 26 00-0042	CY 16" x 16" Precast Column, Tied, Average Reinforced 368 LB/CY.....	789.87	
	For 3,500 PSI Concrete, Add	59.24	
	For 4,000 PSI Concrete, Add	111.37	
	For 4,500 PSI Concrete, Add	164.29	
	For 5,000 PSI Concrete, Add	223.53	
03 41 26 00-0043	20" x 20" Column, Square, Tied <small>(03 41 26 00-0038)</small>		
03 41 26 00-0044	CY 20" x 20" Precast Column, Tied, Average Reinforced 357 LB/CY.....	791.39	
	For 3,500 PSI Concrete, Add	59.35	
	For 4,000 PSI Concrete, Add	111.59	
	For 4,500 PSI Concrete, Add	164.61	
	For 5,000 PSI Concrete, Add	223.96	
03 41 26 00-0045	24" x 24" Column, Square, Tied <small>(03 41 26 00-0038)</small>		
03 41 26 00-0046	CY 24" x 24" Precast Column, Tied, Average Reinforced 365 LB/CY.....	791.39	
	For 3,500 PSI Concrete, Add	59.35	
	For 4,000 PSI Concrete, Add	111.59	
	For 4,500 PSI Concrete, Add	164.61	
	For 5,000 PSI Concrete, Add	223.96	
03 41 26 00-0047	28" x 28" Column, Square, Tied <small>(03 41 26 00-0038)</small>		
03 41 26 00-0048	CY 28" x 28" Precast Column, Tied, Average Reinforced 347 LB/CY.....	791.39	
	For 3,500 PSI Concrete, Add	59.35	
	For 4,000 PSI Concrete, Add	111.59	
	For 4,500 PSI Concrete, Add	164.61	
	For 5,000 PSI Concrete, Add	223.96	
03 41 26 00-0049	32" x 32" Column, Square, Tied <small>(03 41 26 00-0038)</small>		
03 41 26 00-0050	CY 32" x 32" Precast Column, Tied, Average Reinforced 351 LB/CY.....	789.87	
	For 3,500 PSI Concrete, Add	59.24	
	For 4,000 PSI Concrete, Add	111.37	
	For 4,500 PSI Concrete, Add	164.29	
	For 5,000 PSI Concrete, Add	223.53	
03 41 26 00-0051	36" x 36" Column, Square, Tied <small>(03 41 26 00-0038)</small>		
03 41 26 00-0052	CY 36" x 36" Precast Column, Tied, Average Reinforced 278 LB/CY.....	791.39	
	For 3,500 PSI Concrete, Add	59.35	
	For 4,000 PSI Concrete, Add	111.59	
	For 4,500 PSI Concrete, Add	164.61	
	For 5,000 PSI Concrete, Add	223.96	
03 41 33	Precast Structural Pretensioned Concrete <small>(03 41)</small>		
03 41 33 00-0001	Slabs, Roof And Floor Members <small>(03 41 33)</small>		
03 41 33 00-0002	SF 4" Thick Precast Prestressed Slab, 12-16' Span Roof/Floor.....	15.74	2.05
03 41 33 00-0003	SF 6" Thick Precast Prestressed Slab, 16-25' Span Roof/Floor.....	19.62	2.05
03 41 33 00-0004	SF 8" Thick Precast Prestressed Slab, 25-32' Span Roof/Floor.....	23.51	2.15
03 41 33 00-0005	SF 10" Thick Precast Prestressed Slab, 32-40' Span Roof/Floor.....	27.42	2.25
03 41 33 00-0006	Tee Members <small>(03 41 33)</small>		
03 41 33 00-0007	Multiple Tee, Roof And Floor <small>(03 41 33 00-0006)</small>		
03 41 33 00-0008	SF Prestressed Multiple Tee, Roof And Floor Members.....	35.37	2.66
03 41 33 00-0009	Double Tee Wall Member <small>(03 41 33 00-0006)</small>		
03 41 33 00-0010	SF Prestressed Double Tee Wall Members Precast Concrete, <40' Span.....	50.06	7.27
03 41 33 00-0011	Single Tee, Short Span, Roof Members <small>(03 41 33 00-0006)</small>		
03 41 33 00-0012	SF Prestressed Single Tee, Short Span Roof Precast Concrete Members, <40' Span.....	41.58	4.41



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 33 00-0013 Single Tee, Long Span, Roof Members <small>(03 41 33 00-0006)</small>		
03 41 33 00-0014 SF Prestressed Single Tee, Long Span Roof Precast Concrete Members, <40' Span	49.89	3.79
03 41 33 00-0015 Prestressed Concrete Items <small>(03 41 33)</small>		
03 41 33 00-0016 Prestressed Quad Tee <small>(03 41 33 00-0015)</small>		
03 41 33 00-0017 SF Tees, Prestressed Quad Tee, Short Spans, Roof	25.61	0.82
03 41 33 00-0018 SF Tees, Prestressed Quad Tee, Short Spans, Floor	26.72	0.82
03 41 33 00-0019 Prestressed Double Tee <small>(03 41 33 00-0015)</small>		
03 41 33 00-0020 SF Tees, Double Tee, Floor Members , 60' Span.....	42.59	0.72
03 41 33 00-0021 SF Tees, Double Tee, Floor Members , 80' Span.....	58.64	0.72
03 41 33 00-0022 SF Tees, Double Tee, Roof Members, 30' Span	29.06	1.23
03 41 33 00-0023 SF Tees, Double Tee, Roof Members, 50' Span	45.03	0.82
03 41 33 00-0024 SF Tees, Double Tee, Wall Members, Up To 55' High	31.49	1.64
03 41 33 00-0025 Prestressed Single Tee <small>(03 41 33 00-0015)</small>		
03 41 33 00-0026 SF Tees, Single Tee Roof Members, 40' Span	50.40	1.84
03 41 33 00-0027 SF Tees, Single Tee Roof Members, 80' Span	58.37	1.12
03 41 33 00-0028 SF Tees, Single Tee Roof Members, 100' Span	77.23	1.03
03 41 33 00-0029 SF Tees, Single Tee Roof Members, 120' Span	81.32	1.03
03 41 33 00-0030 Prestressed Double Tee Floor Members <small>(03 41 33 00-0015)</small>		
03 41 33 00-0031 EA Tees, Double Tees, Floor Members, Lightweight, 20" X 8' Wide, 45'	13,029.65	295.05
03 41 33 00-0032 EA Tees, Double Tees, Floor Members, Lightweight, 24" X 8' Wide, 50'	14,187.73	327.83
03 41 33 00-0033 EA Tees, Double Tees, Floor Members, Lightweight, 32" X 10' Wide, 60'	23,734.50	368.81
03 41 33 00-0034 EA Tees, Double Tees, Floor Members, Standard Weight, 12" X 8' Wide, 25'	5,101.76	268.31
03 41 33 00-0035 EA Tees, Double Tees, Floor Members, Standard Weight, 16" X 8' Wide, 25'	6,699.25	295.05
03 41 33 00-0036 EA Tees, Double Tees, Floor Members, Standard Weight, 18" X 8' Wide, 35'	8,561.13	295.05
03 41 33 00-0037 EA Tees, Double Tees, Floor Members, Standard Weight, 20" X 8' Wide, 45'	9,533.02	327.83
03 41 33 00-0038 EA Tees, Double Tees, Floor Members, Standard Weight, 24" X 8' Wide, 50'	12,190.82	368.81
03 41 33 00-0039 EA Tees, Double Tees, Floor Members, Standard Weight, 32" X 10' Wide, 60'	21,938.73	421.67
03 41 33 00-0040 Plant Produced Pretensioned Prestressed Concrete Hollow Core Slab <small>(03 41 33)</small>		
03 41 33 00-0041 SF Hollow Core Slab, 4" Slab, 12' - 16' Spans, Plant Produced Pretensioned Prestressed Concrete	27.06	
03 41 33 00-0042 SF Hollow Core Slab, 6" Slab, 16' - 25' Spans, Plant Produced Pretensioned Prestressed Concrete	28.18	
03 41 33 00-0043 SF Hollow Core Slab, 8" Slab, 25' - 30' Spans, Plant Produced Pretensioned Prestressed Concrete	29.48	
03 41 33 00-0044 SF Hollow Core Slab, 10" Slab, 30' - 35' Spans, Plant Produced Pretensioned Prestressed Concrete	30.46	
03 41 33 00-0045 SF Hollow Core Slab, 12" Slab, 35' - 40' Spans, Plant Produced Pretensioned Prestressed Concrete	32.55	
03 41 33 00-0046 Double And Single Tees <small>(03 41 33)</small>		
03 41 33 00-0047 Double And Single Tees With 16" Roof And Floor Loading <small>(03 41 33 00-0046)</small>		
03 41 33 00-0048 SF Double Tee With 16" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	32.71	
03 41 33 00-0049 SF Double Tee With 16" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	31.93	
03 41 33 00-0050 SF Double Tee With 16" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	30.15	
03 41 33 00-0051 SF Double Tee With 16" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	32.71	
03 41 33 00-0052 SF Double Tee With 16" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	32.60	
03 41 33 00-0053 SF Single Tee With 16" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	50.14	
03 41 33 00-0054 SF Single Tee With 16" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	49.02	
03 41 33 00-0055 SF Single Tee With 16" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	45.90	
03 41 33 00-0056 SF Single Tee With 16" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	50.14	
03 41 33 00-0057 SF Single Tee With 16" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	47.01	
03 41 33 00-0058 Double And Single Tees With 24" Roof And Floor Loading <small>(03 41 33 00-0046)</small>		
03 41 33 00-0059 SF Double Tee With 24" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	33.71	
03 41 33 00-0060 SF Double Tee With 24" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	32.93	
03 41 33 00-0061 SF Double Tee With 24" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	31.83	
03 41 33 00-0062 SF Double Tee With 24" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	33.71	
03 41 33 00-0063 SF Double Tee With 24" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	32.60	
03 41 33 00-0064 SF Single Tee With 24" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	51.48	
03 41 33 00-0065 SF Single Tee With 24" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	50.36	
03 41 33 00-0066 SF Single Tee With 24" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	48.58	
03 41 33 00-0067 SF Single Tee With 24" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	51.48	
03 41 33 00-0068 SF Single Tee With 24" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	50.03	
03 41 33 00-0069 Double And Single Tees With 32" Roof And Floor Loading <small>(03 41 33 00-0046)</small>		
03 41 33 00-0070 SF Double Tee With 32" Roof Load, 50' Span, Pretensioned Prestressed Concrete	35.55	
03 41 33 00-0071 SF Double Tee With 32" Roof Load, 60' Span, Pretensioned Prestressed Concrete	34.43	
03 41 33 00-0072 SF Double Tee With 32" Roof Load, 70' Span, Pretensioned Prestressed Concrete	33.31	

03	Concrete
03 40	Precast Concrete
03 41	Precast Structural Concrete



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 41 33 00-0073	SF	Single Tee With 32" Roof Load, 50' Span, Pretensioned Prestressed Concrete.....	54.65	
03 41 33 00-0074	SF	Single Tee With 32" Roof Load, 60' Span, Pretensioned Prestressed Concrete.....	52.87	
03 41 33 00-0075	SF	Single Tee With 32" Roof Load, 70' Span, Pretensioned Prestressed Concrete.....	50.74	

03 48 Precast Concrete Specialties (03 40)

03 48 16 Precast Concrete Splash Blocks (03 48)

03 48 16 00-0001		Precast Concrete Splash Blocks <small>(03 48 16)</small>		
03 48 16 00-0002	EA	Precast Concrete Splash Blocks, 20" x 12" x 3".....	34.55	3.39

03 48 21 Precast Concrete Handrails (03 48)

03 48 21 00-0001		Installation Cost <small>(03 48 21)</small>		
Note: Includes handling, hoisting into place, alignment, and permanent connections. Excludes grouting.				
03 48 21 00-0002	EA	Install Precast Handrails, 0-2 Ton/Handrail.....	141.53	63.72
03 48 21 00-0003	EA	Install Precast Handrails, Over 2 Ton/Handrail.....	169.74	76.36

03 48 21 00-0004 Material Cost (03 48 21)

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

03 48 21 00-0005	CY	4" Thick 3,000 PSI Concrete Precast Concrete Handrail.....	2,941.87	
		For 3,500 PSI Concrete, Add	191.96	
		For 4,000 PSI Concrete, Add	360.67	
		For 4,500 PSI Concrete, Add	530.12	
		For 5,000 PSI Concrete, Add	721.20	
03 48 21 00-0006	CY	5" Thick 3,000 PSI Concrete Precast Concrete Handrail.....	3,053.59	
		For 3,500 PSI Concrete, Add	199.25	
		For 4,000 PSI Concrete, Add	374.37	
		For 4,500 PSI Concrete, Add	550.26	
		For 5,000 PSI Concrete, Add	748.59	
03 48 21 00-0007	CY	6" Thick 3,000 PSI Concrete Precast Concrete Handrail.....	3,165.31	
		For 3,500 PSI Concrete, Add	206.54	
		For 4,000 PSI Concrete, Add	388.07	
		For 4,500 PSI Concrete, Add	570.39	
		For 5,000 PSI Concrete, Add	775.98	
03 48 21 00-0008	CY	8" Thick 3,000 PSI Concrete Precast Concrete Handrail.....	3,314.26	
		For 3,500 PSI Concrete, Add	216.26	
		For 4,000 PSI Concrete, Add	406.33	
		For 4,500 PSI Concrete, Add	597.23	
		For 5,000 PSI Concrete, Add	812.49	

03 48 22 Precast Concrete Sun Screen and Trellis (03 48)

03 48 22 00-0001		Sun Screen Blades <small>(03 48 22)</small>		
03 48 22 00-0002		Installation Cost <small>(03 48 22 00-0001)</small>		
Note: Includes handling, hoisting into place, alignment, bracing, and permanent connections.				
03 48 22 00-0003	EA	Install Precast Sun Screen Blade, 0-1 Ton/Each.....	70.77	31.85
03 48 22 00-0004	EA	Install Precast Sun Screen Blade, 1-2 Ton/Each.....	85.02	38.23
03 48 22 00-0005	EA	Install Precast Sun Screen Blade, 2-3 Ton/Each.....	106.22	47.84

03 48 22 00-0006 Material Cost (03 48 22 00-0001)

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

03 48 22 00-0007	CY	4" Thick 3,000 PSI Concrete Precast Sun Screen Blades.....	3,128.07	
		For 3,500 PSI Concrete, Add	204.11	
		For 4,000 PSI Concrete, Add	383.50	
		For 4,500 PSI Concrete, Add	563.68	
		For 5,000 PSI Concrete, Add	766.85	
03 48 22 00-0008	CY	5" Thick 3,000 PSI Concrete Precast Sun Screen Blades.....	3,239.78	
		For 3,500 PSI Concrete, Add	211.40	
		For 4,000 PSI Concrete, Add	397.20	
		For 4,500 PSI Concrete, Add	583.81	
		For 5,000 PSI Concrete, Add	794.23	
03 48 22 00-0009	CY	6" Thick 3,000 PSI Concrete Precast Sun Screen Blades.....	3,388.74	
		For 3,500 PSI Concrete, Add	221.12	
		For 4,000 PSI Concrete, Add	415.46	
		For 4,500 PSI Concrete, Add	610.65	
		For 5,000 PSI Concrete, Add	830.75	
03 48 22 00-0010	CY	8" Thick 3,000 PSI Concrete Precast Sun Screen Blades.....	3,537.70	
		For 3,500 PSI Concrete, Add	230.83	
		For 4,000 PSI Concrete, Add	433.72	
		For 4,500 PSI Concrete, Add	637.49	
		For 5,000 PSI Concrete, Add	867.27	

03 48 22 00-0011 Sun Screen/Trellis Units (03 48 22)

03 48 22 00-0012		Installation Cost Using A 50 Ton Hydraulic Crane <small>(03 48 22 00-0011)</small>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent to connections.				
03 48 22 00-0013	EA	Install Precast Trellis, 0-1 Tons/Unit 100' Maximum Radius With 50 Ton Crane.....	327.55	147.37



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 48 22 00-0014 EA Install Precast Trellis, 1-3 Tons/Unit 65' Maximum Radius With 50 Ton Crane	366.38	164.93
03 48 22 00-0015 EA Install Precast Trellis, 3-5 Tons/Unit 50' Maximum Radius With 50 Ton Crane	415.66	187.02
03 48 22 00-0016 EA Install Precast Trellis, 5-7 Tons/Unit 40' Maximum Radius With 50 Ton Crane	444.24	199.91
03 48 22 00-0017 Material Cost <small>(03 48 22 00-0011)</small>		
Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 22 00-0018 CY 4" Thick 3,000 PSI Concrete Precast Trellises Blades.....	3,612.17	
For 3,500 PSI Concrete, Add	235.69	
For 4,000 PSI Concrete, Add	442.85	
For 4,500 PSI Concrete, Add	650.91	
For 5,000 PSI Concrete, Add	885.52	
03 48 22 00-0019 CY 5" Thick 3,000 PSI Concrete Precast Trellises Blades.....	3,723.89	
For 3,500 PSI Concrete, Add	242.98	
For 4,000 PSI Concrete, Add	456.55	
For 4,500 PSI Concrete, Add	671.04	
For 5,000 PSI Concrete, Add	912.91	
03 48 22 00-0020 CY 6" Thick 3,000 PSI Concrete Precast Trellises Blades.....	3,872.85	
For 3,500 PSI Concrete, Add	252.70	
For 4,000 PSI Concrete, Add	474.81	
For 4,500 PSI Concrete, Add	697.89	
For 5,000 PSI Concrete, Add	949.43	
03 48 22 00-0021 CY 8" Thick 3,000 PSI Concrete Precast Trellises Blades.....	4,059.04	
For 3,500 PSI Concrete, Add	264.85	
For 4,000 PSI Concrete, Add	497.64	
For 4,500 PSI Concrete, Add	731.44	
For 5,000 PSI Concrete, Add	995.07	
03 48 24 Precast Minaret Segments <small>(03 48)</small>		
03 48 24 00-0001 Installation Costs Using A 50 Ton Hydraulic Crane <small>(03 48 24)</small>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections.		
03 48 24 00-0002 L - Shaped Segments <small>(03 48 24 00-0001)</small>		
03 48 24 00-0003 EA Install Minaret, L-Shape Segment, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	318.74	254.99
03 48 24 00-0004 EA Install Minaret, L-Shape Segment, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	357.18	285.75
03 48 24 00-0005 EA Install Minaret, L-Shape Segment, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	403.86	323.07
03 48 24 00-0006 EA Install Minaret, L-Shape Segment, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	430.77	344.62
03 48 24 00-0007 O - Shaped Segments <small>(03 48 24 00-0001)</small>		
03 48 24 00-0008 EA Install Minaret, O-Shape Segment, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	336.86	269.54
03 48 24 00-0009 EA Install Minaret, O-Shape Segment, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	378.08	302.41
03 48 24 00-0010 EA Install Minaret, O-Shape Segment, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	428.18	342.51
03 48 24 00-0011 EA Install Minaret, O-Shape Segment, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	458.57	366.83
03 48 24 00-0012 Platform Segment <small>(03 48 24 00-0001)</small>		
03 48 24 00-0013 EA Install Minaret, Platform Segments, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane.....	646.16	516.98
03 48 24 00-0014 EA Install Minaret, Platform Segments, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane.....	781.08	624.82
03 48 24 00-0015 EA Install Minaret, Platform Segments, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane.....	866.81	693.46
03 48 24 00-0016 EA Install Minaret, Platform Segments, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane.....	973.68	778.97
03 48 24 00-0017 Cap Segment <small>(03 48 24 00-0001)</small>		
03 48 24 00-0018 EA Install Minaret, Cap Segments, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	353.63	282.87
03 48 24 00-0019 EA Install Minaret, Cap Segments, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	394.88	315.85
03 48 24 00-0020 EA Install Minaret, Cap Segments, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	449.86	359.83
03 48 24 00-0021 EA Install Minaret, Cap Segments, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	480.26	384.15
03 48 24 00-0022 Installation Costs Using A 90 Ton Crawler Crane <small>(03 48 24)</small>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting and caulking of joints.		
03 48 24 00-0023 L - Shaped Segments <small>(03 48 24 00-0022)</small>		
03 48 24 00-0024 EA Install Minaret, L-Shaped Segments, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	325.51	260.41
03 48 24 00-0025 EA Install Minaret, L-Shaped Segments, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	364.77	291.83
03 48 24 00-0026 EA Install Minaret, L-Shaped Segments, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	412.44	329.94
03 48 24 00-0027 EA Install Minaret, L-Shaped Segments, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	439.93	351.94
03 48 24 00-0028 O - Shaped Segment <small>(03 48 24 00-0022)</small>		
03 48 24 00-0029 EA Install Minaret, O-Shaped Segments, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane.....	344.02	275.27
03 48 24 00-0030 EA Install Minaret, O-Shaped Segments, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane.....	386.11	308.84
03 48 24 00-0031 EA Install Minaret, O-Shaped Segments, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane.....	437.28	349.79
03 48 24 00-0032 EA Install Minaret, O-Shaped Segments, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane.....	468.32	374.63
03 48 24 00-0033 Platform Segment <small>(03 48 24 00-0022)</small>		
03 48 24 00-0034 EA Install Minaret, Platform Segment, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	526.00	420.79

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 48 24 00-0035 EA Install Minaret, Platform Segment, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane.....	636.74	509.37
03 48 24 00-0036 EA Install Minaret, Platform Segment, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane.....	704.74	563.81
03 48 24 00-0037 EA Install Minaret, Platform Segment, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane.....	797.68	638.10
03 48 24 00-0038 Cap Segment (03 48 24 00-0022)		
03 48 24 00-0039 EA Install Minaret, Cap Segment, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane.....	361.14	288.88
03 48 24 00-0040 EA Install Minaret, Cap Segment, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane.....	403.27	322.56
03 48 24 00-0041 EA Install Minaret, Cap Segment, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane.....	459.42	367.48
03 48 24 00-0042 EA Install Minaret, Cap Segment, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane.....	490.47	392.32
03 48 24 00-0043 Material Costs (03 48 24)		
Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 24 00-0044 CY Precast Concrete Minaret, L-Shaped Segments, 3,000 PSI Concrete.....	8,936.84	
Note: Including Post Tension Cost		
03 48 24 00-0045 CY Precast Concrete Minaret, O-Shaped Segments, 3,000 PSI Concrete.....	8,936.84	
Note: Including Post Tension Cost		
03 48 24 00-0046 CY Precast Concrete Minaret, Platform Segments, 3,000 PSI Concrete.....	8,936.84	
Note: Including Post Tension Cost		
03 48 24 00-0047 CY Precast Concrete Minaret, Cap Segments, 3,000 PSI Concrete.....	8,936.84	
Note: Including Post Tension Cost		
03 48 29 Precast Accessories (03 48)		
Note: Includes installation labor, material and equipment.		
03 48 29 00-0001 Bearing Pads For Precast Members (03 48 29)		
03 48 29 00-0002 Continuous 2" Wide Strips (03 48 29 00-0001)		
03 48 29 00-0003 LF Bearing Pads, Continuous 2" Wide x 1/8" Thick Strips.....	1.29	
Note: For precast members		
03 48 29 00-0004 LF Bearing Pads, Continuous 2" Wide x 1/4" Thick Strips.....	1.88	
Note: For precast members.		
03 48 29 00-0005 LF Bearing Pads, Continuous 2" Wide x 1/2" Thick Strips.....	3.16	
Note: For precast members		
03 48 29 00-0006 LF Bearing Pads, Continuous 2" Wide x 3/4" Thick Strips.....	4.45	
Note: For precast members		
03 48 29 00-0007 LF Bearing Pads, Continuous 2" Wide x 1" Thick Strips.....	5.81	
Note: For precast members		
03 48 29 00-0008 LF Bearing Pads, Continuous 2" Wide x 1-1/2" Thick Strips.....	8.38	
Note: For precast members		
03 48 29 00-0009 Bearing Pad Pipe Supports (03 48 29)		
03 48 29 00-0010 LF 4" x 4" Precast Pipe Support.....	7.62	
03 48 46 Precast Skylight Shells (03 48)		
03 48 46 00-0001 Installation Cost Using A 90 Ton Crawler Crane (03 48 46)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections.		
03 48 46 00-0002 EA Install Precast Skylight Shell, 0-4 Tons/Each Based On 90 Ton Crawler Crane.....	468.98	211.08
03 48 46 00-0003 EA Install Precast Skylight Shell, 4-6 Tons/Each Based On 90 Ton Crawler Crane.....	520.75	234.35
03 48 46 00-0004 EA Install Precast Skylight Shell, 6-8 Tons/Each Based On 90 Ton Crawler Crane.....	585.37	263.43
03 48 46 00-0005 Material Cost (03 48 46)		
Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 46 00-0006 CY 3.5" Thick 3,000 PSI Concrete Precast Skylight With 4.4' Radius.....	3,738.89	
03 48 49 Precast Landings (03 48)		
03 48 49 00-0001 SF 3" Thick Precast Landing.....	92.08	
03 48 49 00-0002 SF 4" Thick Precast Landing.....	107.43	
03 48 49 00-0003 SF 5" Thick Precast Landing.....	121.95	
03 48 49 00-0004 SF 6" Thick Precast Landing.....	140.58	
03 48 54 Precast Concrete Blocks (03 48)		
03 48 54 00-0001 Precast Concrete Blocks (03 48 54)		
03 48 54 00-0002 EA 2' x 2' x 2' Precast Concrete Block.....	104.65	37.13
03 48 54 00-0003 EA 2' x 2' x 4' Precast Concrete Block.....	148.23	46.41
03 48 54 00-0004 EA 2' x 2' x 8' Precast Concrete Block.....	242.83	55.69

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

Note: Installed over new or existing concrete.



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 53 14 Granolithic Concrete Topping (03 53)

03 53 14 00-0001 Granolithic Topping Laid After (03 53 14)
Note: Using 1:1:1-1/2 mix.

03 53 14 00-0002 SF	1/2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix	3.93
03 53 14 00-0003 SF	1" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix	4.32
03 53 14 00-0004 SF	2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix	5.54

03 53 19 Concrete Overlayment (03 53)

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

03 53 19 00-0002 SF	3/16" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	2.35
03 53 19 00-0003 SF	1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	2.68
03 53 19 00-0004 SF	3/4" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	3.17
03 53 19 00-0005 SF	1" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	3.78
03 53 19 00-0006 SF	2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	5.48
03 53 19 00-0007 SF	2-1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	4.86
03 53 19 00-0008 SF	3" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	5.49

03 54 Cast Underlayment (03 50)

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

03 54 16 Hydraulic Cement Underlayment (03 54)

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

03 54 16 00-0002 SF	1/8" Thick Self Leveling Cementitious Underlayment For Floors	1.78
	Note: Including Surface Preparation	
	For Up To 100 SF, Add	0.13
	For >100 To 250 SF, Add	0.07
03 54 16 00-0003 SF	1/4" Thick Self Leveling Cementitious Underlayment For Floors	3.16
	Note: Including Surface Preparation	
	For Up To 100 SF, Add	0.13
	For >100 To 250 SF, Add	0.07
03 54 16 00-0004 SF	3/8" Thick Self Leveling Cementitious Underlayment For Floors	4.07
	Note: Including Surface Preparation	
	For Up To 100 SF, Add	0.13
	For >100 To 250 SF, Add	0.07
03 54 16 00-0005 SF	1/2" Thick Self Leveling Cementitious Underlayment For Floors	5.90
	Note: Including Surface Preparation	
	For Up To 100 SF, Add	0.13
	For >100 To 250 SF, Add	0.07
03 54 16 00-0006 SF	5/8" Thick Self Leveling Cementitious Underlayment For Floors	7.00
	Note: Including Surface Preparation	
	For Up To 100 SF, Add	0.13
	For >100 To 250 SF, Add	0.07
03 54 16 00-0007 SF	3/4" Thick Self Leveling Cementitious Underlayment For Floors	8.69
	Note: Including Surface Preparation	
	For Up To 100 SF, Add	0.15
	For >100 To 250 SF, Add	0.08
03 54 16 00-0008 SF	1" Thick Self Leveling Cementitious Underlayment For Floors	11.43
	Note: Including Surface Preparation	
	For Up To 100 SF, Add	0.15
	For >100 To 250 SF, Add	0.08
03 54 16 00-0009 SF	1-1/4" Thick Self Leveling Cementitious Underlayment For Floors	15.12
	Note: Including Surface Preparation	
	For Up To 100 SF, Add	0.17
	For >100 To 250 SF, Add	0.09
03 54 16 00-0010 SF	1-1/2" Thick Self Leveling Cementitious Underlayment For Floors	16.96
	Note: Including Surface Preparation	
	For Up To 100 SF, Add	0.17
	For >100 To 250 SF, Add	0.09
03 54 16 00-0011 SF	1-3/4" Thick Self Leveling Cementitious Underlayment For Floors	22.53
	Note: Including Surface Preparation	
	For Up To 100 SF, Add	0.21
	For >100 To 250 SF, Add	0.11

03 60 Grouting (03)

03 61 Cementitious Grouting (03 60)

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

03 61 16 Cementitious Flowable Grout (03 61)

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

03 61 16 00-0002 CY	Cementitious Flowable Grout	467.65
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03 62 Non-Shrink Grouting (03 60)

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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

03 62 13 00-0001	Fluid Type, Non-Metallic Non-Shrink Grouting For Bases (03 62 13)	
03 62 13 00-0002	SF 1" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases	25.70
03 62 13 00-0003	SF 2" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases	38.97

03 62 13 00-0004 Non-Metallic Non-Shrink Grouting For Bases (03 62 13)

03 62 13 00-0005	SF 1" Deep, Non-Metallic Non-Shrink Grout For Bases	39.76
03 62 13 00-0006	SF 2" Deep, Non-Metallic Non-Shrink Grout For Bases	64.92

03 62 13 00-0007 Non-Metallic Non-Shrink Grouting For Joints (03 62 13)

03 62 13 00-0008	1/2" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints (03 62 13 00-0007)	
03 62 13 00-0009	LF 4" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	1.97
03 62 13 00-0010	LF 6" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	2.60
03 62 13 00-0011	LF 8" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	3.43

03 62 13 00-0012 1" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints (03 62 13 00-0007)

03 62 13 00-0013	LF 4" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	2.96
03 62 13 00-0014	LF 6" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	3.98
03 62 13 00-0015	LF 8" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	5.30

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

03 62 16 00-0001	Metallic Non-Shrink Grouting For Bases (03 62 16)	
03 62 16 00-0002	SF 1" Deep, Metallic Non-Shrink Grout For Bases	32.78
03 62 16 00-0003	SF 2" Deep, Metallic Non-Shrink Grout For Bases	51.38

03 62 16 00-0004 Metallic Non-Shrink Grouting For Joints (03 62 16)

03 62 16 00-0005	1/2" Joint Thickness, Metallic Non-Shrink Grout For Joints (03 62 16 00-0004)	
03 62 16 00-0006	LF 4" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints	1.53
03 62 16 00-0007	LF 6" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints	1.94
03 62 16 00-0008	LF 8" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints	2.58

03 62 16 00-0009 1" Joint Thickness, Metallic Non-Shrink Grout For Joints (03 62 16 00-0004)

03 62 16 00-0010	LF 4" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints	2.11
03 62 16 00-0011	LF 6" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints	2.67
03 62 16 00-0012	LF 8" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints	3.57

03 64 Injection Grouting (03 60)

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

03 64 23 Epoxy Injection Grouting (03 64)

03 64 23 00-0001	Pressure Injected Epoxy Grout (03 64 23)	
03 64 23 00-0002	CF Pressure Injected Epoxy Grout	855.67
	<i>For >4, Deduct</i>	-89.36

03 64 26 Cementitious Injection Grouting (03 64)

03 64 26 00-0001	Pressure Injected Cementitious Grout (03 64 26)	
03 64 26 00-0002	CF Pressure Injected Cementitious Grout	169.21
	<i>For >4, Deduct</i>	-41.86

03 80 Concrete Cutting and Boring (03)

03 81 Concrete Cutting (03 80)

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

03 82 Concrete Boring (03 80)

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



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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END OF SECTION 03

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



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

05 05 Common Work Results for Metals (05)

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

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

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

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

Note: Includes drilling.

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

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

Note: Includes nut and washer.

05 05 19 00-0005	EA 1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	10.98
	For >10 To 50, Deduct	-0.52
	For >50 To 100, Deduct	-1.05
	For >100, Deduct	-2.09
05 05 19 00-0006	EA 1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	11.09
	For >10 To 50, Deduct	-0.52
	For >50 To 100, Deduct	-1.05
	For >100, Deduct	-2.10
05 05 19 00-0007	EA 1/4" Diameter x 3-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	11.45
	For >10 To 50, Deduct	-0.53
	For >50 To 100, Deduct	-1.08
	For >100, Deduct	-2.16
05 05 19 00-0008	EA 3/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	13.50
	For >10 To 50, Deduct	-0.63
	For >50 To 100, Deduct	-1.28
	For >100, Deduct	-2.56
05 05 19 00-0009	EA 3/8" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	13.58
	For >10 To 50, Deduct	-0.63
	For >50 To 100, Deduct	-1.28
	For >100, Deduct	-2.56
05 05 19 00-0010	EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	13.61
	For >10 To 50, Deduct	-0.63
	For >50 To 100, Deduct	-1.28
	For >100, Deduct	-2.56
05 05 19 00-0011	EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	13.92
	For >10 To 50, Deduct	-0.63
	For >50 To 100, Deduct	-1.29
	For >100, Deduct	-2.58
05 05 19 00-0012	EA 1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	19.57
	For >10 To 50, Deduct	-0.89
	For >50 To 100, Deduct	-1.83
	For >100, Deduct	-3.65
05 05 19 00-0013	EA 1/2" Diameter x 3-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	19.63
	For >10 To 50, Deduct	-0.89
	For >50 To 100, Deduct	-1.83
	For >100, Deduct	-3.66
05 05 19 00-0014	EA 1/2" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	19.76
	For >10 To 50, Deduct	-0.89
	For >50 To 100, Deduct	-1.83
	For >100, Deduct	-3.66
05 05 19 00-0015	EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	20.10
	For >10 To 50, Deduct	-0.89
	For >50 To 100, Deduct	-1.84
	For >100, Deduct	-3.68
05 05 19 00-0016	EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	20.58
	For >10 To 50, Deduct	-0.89
	For >50 To 100, Deduct	-1.85
	For >100, Deduct	-3.70
05 05 19 00-0017	EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	25.52
	For >10 To 50, Deduct	-1.10
	For >50 To 100, Deduct	-2.29
	For >100, Deduct	-4.58
05 05 19 00-0018	EA 5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	25.62
	For >10 To 50, Deduct	-1.10
	For >50 To 100, Deduct	-2.29
	For >100, Deduct	-4.58
05 05 19 00-0019	EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	25.84
	For >10 To 50, Deduct	-1.10
	For >50 To 100, Deduct	-2.30
	For >100, Deduct	-4.59
05 05 19 00-0020	EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	26.26
	For >10 To 50, Deduct	-1.10
	For >50 To 100, Deduct	-2.31
	For >100, Deduct	-4.61
05 05 19 00-0021	EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	26.68
	For >10 To 50, Deduct	-1.10
	For >50 To 100, Deduct	-2.32
	For >100, Deduct	-4.64

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0022	EA		5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	30.02	
			<i>For >10 To 50, Deduct</i>	-1.10	
			<i>For >50 To 100, Deduct</i>	-2.40	
			<i>For >100, Deduct</i>	-4.80	
05 05 19 00-0023	EA		5/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	32.89	
			<i>For >10 To 50, Deduct</i>	-1.10	
			<i>For >50 To 100, Deduct</i>	-2.47	
			<i>For >100, Deduct</i>	-4.95	
05 05 19 00-0024	EA		3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	30.82	
			<i>For >10 To 50, Deduct</i>	-1.31	
			<i>For >50 To 100, Deduct</i>	-2.73	
			<i>For >100, Deduct</i>	-5.47	
05 05 19 00-0025	EA		3/4" Diameter x 4-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	30.91	
			<i>For >10 To 50, Deduct</i>	-1.31	
			<i>For >50 To 100, Deduct</i>	-2.74	
			<i>For >100, Deduct</i>	-5.47	
05 05 19 00-0026	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	31.42	
			<i>For >10 To 50, Deduct</i>	-1.31	
			<i>For >50 To 100, Deduct</i>	-2.75	
			<i>For >100, Deduct</i>	-5.50	
05 05 19 00-0027	EA		3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	32.04	
			<i>For >10 To 50, Deduct</i>	-1.31	
			<i>For >50 To 100, Deduct</i>	-2.77	
			<i>For >100, Deduct</i>	-5.53	
05 05 19 00-0028	EA		3/4" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	32.74	
			<i>For >10 To 50, Deduct</i>	-1.31	
			<i>For >50 To 100, Deduct</i>	-2.78	
			<i>For >100, Deduct</i>	-5.57	
05 05 19 00-0029	EA		3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	35.42	
			<i>For >10 To 50, Deduct</i>	-1.31	
			<i>For >50 To 100, Deduct</i>	-2.85	
			<i>For >100, Deduct</i>	-5.70	
05 05 19 00-0030	EA		3/4" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	38.98	
			<i>For >10 To 50, Deduct</i>	-1.31	
			<i>For >50 To 100, Deduct</i>	-2.94	
			<i>For >100, Deduct</i>	-5.88	
05 05 19 00-0031	EA		3/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	42.99	
			<i>For >10 To 50, Deduct</i>	-1.31	
			<i>For >50 To 100, Deduct</i>	-3.04	
			<i>For >100, Deduct</i>	-6.08	
05 05 19 00-0032	EA		7/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	41.66	
			<i>For >10 To 50, Deduct</i>	-1.42	
			<i>For >50 To 100, Deduct</i>	-3.17	
			<i>For >100, Deduct</i>	-6.34	
05 05 19 00-0033	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	43.77	
			<i>For >10 To 50, Deduct</i>	-1.42	
			<i>For >50 To 100, Deduct</i>	-3.23	
			<i>For >100, Deduct</i>	-6.45	
05 05 19 00-0034	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	46.57	
			<i>For >10 To 50, Deduct</i>	-1.42	
			<i>For >50 To 100, Deduct</i>	-3.30	
			<i>For >100, Deduct</i>	-6.59	
05 05 19 00-0035	EA		1" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	51.51	
			<i>For >10 To 50, Deduct</i>	-1.84	
			<i>For >50 To 100, Deduct</i>	-4.05	
			<i>For >100, Deduct</i>	-8.09	
05 05 19 00-0036	EA		1" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	55.49	
			<i>For >10 To 50, Deduct</i>	-1.84	
			<i>For >50 To 100, Deduct</i>	-4.15	
			<i>For >100, Deduct</i>	-8.29	
05 05 19 00-0037	EA		1" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	59.43	
			<i>For >10 To 50, Deduct</i>	-1.84	
			<i>For >50 To 100, Deduct</i>	-4.24	
			<i>For >100, Deduct</i>	-8.49	
05 05 19 00-0038	EA		1-1/4" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	67.13	
			<i>For >10 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-5.21	
			<i>For >100, Deduct</i>	-10.42	
05 05 19 00-0039	EA		1-1/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	69.98	
			<i>For >10 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-5.28	
			<i>For >100, Deduct</i>	-10.56	
05 05 19 00-0040			304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0041	EA		1/4" Diameter x 1-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	12.03	
			<i>For >10 To 50, Deduct</i>	-0.52	
			<i>For >50 To 100, Deduct</i>	-1.07	
			<i>For >100, Deduct</i>	-2.15	
05 05 19 00-0042	EA		1/4" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	12.44	
			<i>For >10 To 50, Deduct</i>	-0.52	
			<i>For >50 To 100, Deduct</i>	-1.08	
			<i>For >100, Deduct</i>	-2.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0043 EA 1/4" Diameter x 3-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	12.97	
<i>For >10 To 50, Deduct</i>	-0.53	
<i>For >50 To 100, Deduct</i>	-1.12	
<i>For >100, Deduct</i>	-2.24	
05 05 19 00-0044 EA 3/8" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	15.45	
<i>For >10 To 50, Deduct</i>	-0.63	
<i>For >50 To 100, Deduct</i>	-1.33	
<i>For >100, Deduct</i>	-2.65	
05 05 19 00-0045 EA 3/8" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	15.80	
<i>For >10 To 50, Deduct</i>	-0.63	
<i>For >50 To 100, Deduct</i>	-1.34	
<i>For >100, Deduct</i>	-2.67	
05 05 19 00-0046 EA 3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	16.05	
<i>For >10 To 50, Deduct</i>	-0.63	
<i>For >50 To 100, Deduct</i>	-1.34	
<i>For >100, Deduct</i>	-2.68	
05 05 19 00-0047 EA 3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	17.93	
<i>For >10 To 50, Deduct</i>	-0.63	
<i>For >50 To 100, Deduct</i>	-1.39	
<i>For >100, Deduct</i>	-2.78	
05 05 19 00-0048 EA 1/2" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	23.93	
<i>For >10 To 50, Deduct</i>	-0.89	
<i>For >50 To 100, Deduct</i>	-1.94	
<i>For >100, Deduct</i>	-3.87	
05 05 19 00-0049 EA 1/2" Diameter x 3-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	24.58	
<i>For >10 To 50, Deduct</i>	-0.89	
<i>For >50 To 100, Deduct</i>	-1.95	
<i>For >100, Deduct</i>	-3.90	
05 05 19 00-0050 EA 1/2" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	24.96	
<i>For >10 To 50, Deduct</i>	-0.89	
<i>For >50 To 100, Deduct</i>	-1.96	
<i>For >100, Deduct</i>	-3.92	
05 05 19 00-0051 EA 1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	26.67	
<i>For >10 To 50, Deduct</i>	-0.89	
<i>For >50 To 100, Deduct</i>	-2.00	
<i>For >100, Deduct</i>	-4.01	
05 05 19 00-0052 EA 1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	29.26	
<i>For >10 To 50, Deduct</i>	-0.89	
<i>For >50 To 100, Deduct</i>	-2.07	
<i>For >100, Deduct</i>	-4.14	
05 05 19 00-0053 EA 5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	34.38	
<i>For >10 To 50, Deduct</i>	-1.10	
<i>For >50 To 100, Deduct</i>	-2.51	
<i>For >100, Deduct</i>	-5.02	
05 05 19 00-0054 EA 5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	36.06	
<i>For >10 To 50, Deduct</i>	-1.10	
<i>For >50 To 100, Deduct</i>	-2.55	
<i>For >100, Deduct</i>	-5.10	
05 05 19 00-0055 EA 5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	37.87	
<i>For >10 To 50, Deduct</i>	-1.10	
<i>For >50 To 100, Deduct</i>	-2.60	
<i>For >100, Deduct</i>	-5.20	
05 05 19 00-0056 EA 5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	40.29	
<i>For >10 To 50, Deduct</i>	-1.10	
<i>For >50 To 100, Deduct</i>	-2.66	
<i>For >100, Deduct</i>	-5.32	
05 05 19 00-0057 EA 5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	50.88	
<i>For >10 To 50, Deduct</i>	-1.10	
<i>For >50 To 100, Deduct</i>	-2.92	
<i>For >100, Deduct</i>	-5.85	
05 05 19 00-0058 EA 3/4" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	41.04	
<i>For >10 To 50, Deduct</i>	-1.31	
<i>For >50 To 100, Deduct</i>	-2.99	
<i>For >100, Deduct</i>	-5.98	
05 05 19 00-0059 EA 3/4" Diameter x 4-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	44.45	
<i>For >10 To 50, Deduct</i>	-1.31	
<i>For >50 To 100, Deduct</i>	-3.08	
<i>For >100, Deduct</i>	-6.15	
05 05 19 00-0060 EA 3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	47.36	
<i>For >10 To 50, Deduct</i>	-1.31	
<i>For >50 To 100, Deduct</i>	-3.15	
<i>For >100, Deduct</i>	-6.30	
05 05 19 00-0061 EA 3/4" Diameter x 6-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	47.72	
<i>For >10 To 50, Deduct</i>	-1.31	
<i>For >50 To 100, Deduct</i>	-3.16	
<i>For >100, Deduct</i>	-6.31	
05 05 19 00-0062 EA 3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	50.46	
<i>For >10 To 50, Deduct</i>	-1.31	
<i>For >50 To 100, Deduct</i>	-3.23	
<i>For >100, Deduct</i>	-6.45	
05 05 19 00-0063 EA 3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	57.55	
<i>For >10 To 50, Deduct</i>	-1.31	
<i>For >50 To 100, Deduct</i>	-3.40	
<i>For >100, Deduct</i>	-6.81	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0064	EA		3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	67.57	
			<i>For >10 To 50, Deduct</i>	-1.31	
			<i>For >50 To 100, Deduct</i>	-3.65	
			<i>For >100, Deduct</i>	-7.31	
05 05 19 00-0065	EA		7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	67.93	
			<i>For >10 To 50, Deduct</i>	-1.42	
			<i>For >50 To 100, Deduct</i>	-3.83	
			<i>For >100, Deduct</i>	-7.66	
05 05 19 00-0066	EA		1" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	98.76	
			<i>For >10 To 50, Deduct</i>	-1.84	
			<i>For >50 To 100, Deduct</i>	-5.23	
			<i>For >100, Deduct</i>	-10.46	
05 05 19 00-0067	EA		1" Diameter x 9" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	113.57	
			<i>For >10 To 50, Deduct</i>	-1.84	
			<i>For >50 To 100, Deduct</i>	-5.60	
			<i>For >100, Deduct</i>	-11.20	
05 05 19 00-0068			316 Stainless Steel, Wedge Anchor Expansion Bolt <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0069	EA		1/4" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt	12.38	
			<i>For >10 To 50, Deduct</i>	-0.52	
			<i>For >50 To 100, Deduct</i>	-1.08	
			<i>For >100, Deduct</i>	-2.16	
05 05 19 00-0070	EA		1/4" Diameter x 3-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt	13.13	
			<i>For >10 To 50, Deduct</i>	-0.53	
			<i>For >50 To 100, Deduct</i>	-1.12	
			<i>For >100, Deduct</i>	-2.25	
05 05 19 00-0071	EA		3/8" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt	16.58	
			<i>For >10 To 50, Deduct</i>	-0.63	
			<i>For >50 To 100, Deduct</i>	-1.36	
			<i>For >100, Deduct</i>	-2.71	
05 05 19 00-0072	EA		3/8" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt	17.17	
			<i>For >10 To 50, Deduct</i>	-0.63	
			<i>For >50 To 100, Deduct</i>	-1.37	
			<i>For >100, Deduct</i>	-2.74	
05 05 19 00-0073	EA		3/8" Diameter x 3" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt	17.32	
			<i>For >10 To 50, Deduct</i>	-0.63	
			<i>For >50 To 100, Deduct</i>	-1.37	
			<i>For >100, Deduct</i>	-2.75	
05 05 19 00-0074	EA		3/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt	20.17	
			<i>For >10 To 50, Deduct</i>	-0.63	
			<i>For >50 To 100, Deduct</i>	-1.44	
			<i>For >100, Deduct</i>	-2.89	
05 05 19 00-0075	EA		1/2" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt	26.65	
			<i>For >10 To 50, Deduct</i>	-0.89	
			<i>For >50 To 100, Deduct</i>	-2.00	
			<i>For >100, Deduct</i>	-4.01	
05 05 19 00-0076	EA		1/2" Diameter x 3-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt	28.30	
			<i>For >10 To 50, Deduct</i>	-0.89	
			<i>For >50 To 100, Deduct</i>	-2.04	
			<i>For >100, Deduct</i>	-4.09	
05 05 19 00-0077	EA		1/2" Diameter x 4-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt	31.29	
			<i>For >10 To 50, Deduct</i>	-0.89	
			<i>For >50 To 100, Deduct</i>	-2.12	
			<i>For >100, Deduct</i>	-4.24	
05 05 19 00-0078	EA		1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt	32.03	
			<i>For >10 To 50, Deduct</i>	-0.89	
			<i>For >50 To 100, Deduct</i>	-2.14	
			<i>For >100, Deduct</i>	-4.27	
05 05 19 00-0079	EA		5/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt	43.56	
			<i>For >10 To 50, Deduct</i>	-1.10	
			<i>For >50 To 100, Deduct</i>	-2.74	
			<i>For >100, Deduct</i>	-5.48	
05 05 19 00-0080	EA		5/8" Diameter x 7" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt	44.46	
			<i>For >10 To 50, Deduct</i>	-1.10	
			<i>For >50 To 100, Deduct</i>	-2.76	
			<i>For >100, Deduct</i>	-5.52	
05 05 19 00-0081	EA		3/4" Diameter x 4-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt	53.88	
			<i>For >10 To 50, Deduct</i>	-1.31	
			<i>For >50 To 100, Deduct</i>	-3.31	
			<i>For >100, Deduct</i>	-6.62	
05 05 19 00-0082	EA		3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt	57.62	
			<i>For >10 To 50, Deduct</i>	-1.31	
			<i>For >50 To 100, Deduct</i>	-3.40	
			<i>For >100, Deduct</i>	-6.81	
05 05 19 00-0083			Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0084	EA		1/2" Diameter x 2-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	22.88	
			<i>For >10 To 50, Deduct</i>	-0.89	
			<i>For >50 To 100, Deduct</i>	-1.91	
			<i>For >100, Deduct</i>	-3.82	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0085	EA			1/2" Diameter x 4-1/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	24.21	
				<i>For >10 To 50, Deduct</i>	-0.89	
				<i>For >50 To 100, Deduct</i>	-1.94	
				<i>For >100, Deduct</i>	-3.89	
05 05 19 00-0086	EA			1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	25.53	
				<i>For >10 To 50, Deduct</i>	-0.89	
				<i>For >50 To 100, Deduct</i>	-1.97	
				<i>For >100, Deduct</i>	-3.95	
05 05 19 00-0087	EA			1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	26.21	
				<i>For >10 To 50, Deduct</i>	-0.89	
				<i>For >50 To 100, Deduct</i>	-1.99	
				<i>For >100, Deduct</i>	-3.99	
05 05 19 00-0088	EA			5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	31.59	
				<i>For >10 To 50, Deduct</i>	-1.10	
				<i>For >50 To 100, Deduct</i>	-2.44	
				<i>For >100, Deduct</i>	-4.88	
05 05 19 00-0089	EA			5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	29.99	
				<i>For >10 To 50, Deduct</i>	-1.10	
				<i>For >50 To 100, Deduct</i>	-2.40	
				<i>For >100, Deduct</i>	-4.80	
05 05 19 00-0090	EA			3/4" Diameter x 4-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	41.10	
				<i>For >10 To 50, Deduct</i>	-1.31	
				<i>For >50 To 100, Deduct</i>	-2.99	
				<i>For >100, Deduct</i>	-5.98	
05 05 19 00-0091	EA			3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	42.56	
				<i>For >10 To 50, Deduct</i>	-1.31	
				<i>For >50 To 100, Deduct</i>	-3.03	
				<i>For >100, Deduct</i>	-6.06	
05 05 19 00-0092	EA			3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	49.76	
				<i>For >10 To 50, Deduct</i>	-1.31	
				<i>For >50 To 100, Deduct</i>	-3.21	
				<i>For >100, Deduct</i>	-6.42	
05 05 19 00-0093	EA			1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	52.12	
				<i>For >10 To 50, Deduct</i>	-1.84	
				<i>For >50 To 100, Deduct</i>	-4.06	
				<i>For >100, Deduct</i>	-8.12	
05 05 19 00-0094	EA			1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	56.26	
				<i>For >10 To 50, Deduct</i>	-1.84	
				<i>For >50 To 100, Deduct</i>	-4.17	
				<i>For >100, Deduct</i>	-8.33	
05 05 19 00-0095	EA			1" Diameter x 12" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	60.36	
				<i>For >10 To 50, Deduct</i>	-1.84	
				<i>For >50 To 100, Deduct</i>	-4.27	
				<i>For >100, Deduct</i>	-8.54	
05 05 19 00-0096				Concrete Sleeve Anchors <small>(05 05 19 00-0002)</small>		
05 05 19 00-0097				Zinc Plated Steel, Concrete Sleeve Anchors <small>(05 05 19 00-0096)</small>		
				Note: Includes nut and washer.		
05 05 19 00-0098	EA			1/4" Diameter x 5/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor.....	11.04	
				<i>For >10 To 50, Deduct</i>	-0.53	
				<i>For >50 To 100, Deduct</i>	-1.07	
				<i>For >100, Deduct</i>	-2.13	
05 05 19 00-0099	EA			1/4" Diameter x 1-3/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor.....	11.19	
				<i>For >10 To 50, Deduct</i>	-0.53	
				<i>For >50 To 100, Deduct</i>	-1.07	
				<i>For >100, Deduct</i>	-2.14	
05 05 19 00-0100	EA			1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor.....	11.38	
				<i>For >10 To 50, Deduct</i>	-0.53	
				<i>For >50 To 100, Deduct</i>	-1.08	
				<i>For >100, Deduct</i>	-2.15	
05 05 19 00-0101	EA			5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor.....	11.64	
				<i>For >10 To 50, Deduct</i>	-0.55	
				<i>For >50 To 100, Deduct</i>	-1.12	
				<i>For >100, Deduct</i>	-2.24	
05 05 19 00-0102	EA			5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor.....	11.78	
				<i>For >10 To 50, Deduct</i>	-0.55	
				<i>For >50 To 100, Deduct</i>	-1.12	
				<i>For >100, Deduct</i>	-2.25	
05 05 19 00-0103	EA			3/8" Diameter x 1-7/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor.....	13.18	
				<i>For >10 To 50, Deduct</i>	-0.63	
				<i>For >50 To 100, Deduct</i>	-1.27	
				<i>For >100, Deduct</i>	-2.54	
05 05 19 00-0104	EA			3/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor.....	13.44	
				<i>For >10 To 50, Deduct</i>	-0.63	
				<i>For >50 To 100, Deduct</i>	-1.28	
				<i>For >100, Deduct</i>	-2.55	
05 05 19 00-0105	EA			3/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor.....	13.68	
				<i>For >10 To 50, Deduct</i>	-0.63	
				<i>For >50 To 100, Deduct</i>	-1.28	
				<i>For >100, Deduct</i>	-2.56	
05 05 19 00-0106	EA			1/2" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor.....	18.99	
				<i>For >10 To 50, Deduct</i>	-0.89	
				<i>For >50 To 100, Deduct</i>	-1.81	
				<i>For >100, Deduct</i>	-3.62	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0107 EA 1/2" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor.....	19.31	
For >10 To 50, Deduct	-0.89	
For >50 To 100, Deduct	-1.82	
For >100, Deduct	-3.64	
05 05 19 00-0108 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor.....	19.59	
For >10 To 50, Deduct	-0.89	
For >50 To 100, Deduct	-1.82	
For >100, Deduct	-3.65	
05 05 19 00-0109 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor.....	19.92	
For >10 To 50, Deduct	-0.89	
For >50 To 100, Deduct	-1.83	
For >100, Deduct	-3.67	
05 05 19 00-0110 EA 5/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	23.84	
For >10 To 50, Deduct	-1.10	
For >50 To 100, Deduct	-2.25	
For >100, Deduct	-4.49	
05 05 19 00-0111 EA 5/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor.....	24.33	
For >10 To 50, Deduct	-1.10	
For >50 To 100, Deduct	-2.26	
For >100, Deduct	-4.52	
05 05 19 00-0112 EA 5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	24.70	
For >10 To 50, Deduct	-1.10	
For >50 To 100, Deduct	-2.27	
For >100, Deduct	-4.54	
05 05 19 00-0113 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor.....	25.75	
For >10 To 50, Deduct	-1.10	
For >50 To 100, Deduct	-2.29	
For >100, Deduct	-4.59	
05 05 19 00-0114 EA 3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	29.26	
For >10 To 50, Deduct	-1.31	
For >50 To 100, Deduct	-2.70	
For >100, Deduct	-5.39	
05 05 19 00-0115 EA 3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	30.17	
For >10 To 50, Deduct	-1.31	
For >50 To 100, Deduct	-2.72	
For >100, Deduct	-5.44	
05 05 19 00-0116 EA 3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	30.99	
For >10 To 50, Deduct	-1.31	
For >50 To 100, Deduct	-2.74	
For >100, Deduct	-5.48	
05 05 19 00-0117 EA 3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	32.29	
For >10 To 50, Deduct	-1.31	
For >50 To 100, Deduct	-2.77	
For >100, Deduct	-5.54	
05 05 19 00-0118 304/18-8 Stainless Steel, Concrete Sleeve Anchors (05 05 19 00-0096)		
Note: Includes nut and washer.		
05 05 19 00-0119 EA 1/4" Diameter x 1-3/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor.....	12.69	
For >10 To 50, Deduct	-0.53	
For >50 To 100, Deduct	-1.11	
For >100, Deduct	-2.22	
05 05 19 00-0120 EA 3/8" Diameter x 1-7/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor.....	16.55	
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.35	
For >100, Deduct	-2.71	
05 05 19 00-0121 EA 3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor.....	18.15	
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.39	
For >100, Deduct	-2.79	
05 05 19 00-0122 EA 1/2" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor.....	24.62	
For >10 To 50, Deduct	-0.89	
For >50 To 100, Deduct	-1.95	
For >100, Deduct	-3.90	
05 05 19 00-0123 EA 1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor.....	27.49	
For >10 To 50, Deduct	-0.89	
For >50 To 100, Deduct	-2.02	
For >100, Deduct	-4.04	
05 05 19 00-0124 EA 5/8" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor.....	37.60	
For >10 To 50, Deduct	-1.10	
For >50 To 100, Deduct	-2.59	
For >100, Deduct	-5.18	
05 05 19 00-0125 Concrete Strike Anchors (05 05 19 00-0002)		
Note: Includes nut and washer.		
05 05 19 00-0126 EA 1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	11.78	
For >10 To 50, Deduct	-0.53	
For >50 To 100, Deduct	-1.09	
For >100, Deduct	-2.17	
05 05 19 00-0127 EA 1/4" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor	12.04	
For >10 To 50, Deduct	-0.53	
For >50 To 100, Deduct	-1.09	
For >100, Deduct	-2.18	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0128 EA 5/16" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	12.55	
<i>For >10 To 50, Deduct</i>	-0.55	
<i>For >50 To 100, Deduct</i>	-1.14	
<i>For >100, Deduct</i>	-2.29	
05 05 19 00-0129 EA 5/16" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor	13.62	
<i>For >10 To 50, Deduct</i>	-0.55	
<i>For >50 To 100, Deduct</i>	-1.17	
<i>For >100, Deduct</i>	-2.34	
05 05 19 00-0130 EA 3/8" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor	14.33	
<i>For >10 To 50, Deduct</i>	-0.63	
<i>For >50 To 100, Deduct</i>	-1.30	
<i>For >100, Deduct</i>	-2.60	
05 05 19 00-0131 EA 3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor	15.13	
<i>For >10 To 50, Deduct</i>	-0.63	
<i>For >50 To 100, Deduct</i>	-1.32	
<i>For >100, Deduct</i>	-2.64	
05 05 19 00-0132 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor	15.74	
<i>For >10 To 50, Deduct</i>	-0.63	
<i>For >50 To 100, Deduct</i>	-1.33	
<i>For >100, Deduct</i>	-2.67	
05 05 19 00-0133 EA 1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	20.96	
<i>For >10 To 50, Deduct</i>	-0.89	
<i>For >50 To 100, Deduct</i>	-1.86	
<i>For >100, Deduct</i>	-3.72	
05 05 19 00-0134 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor	21.43	
<i>For >10 To 50, Deduct</i>	-0.89	
<i>For >50 To 100, Deduct</i>	-1.87	
<i>For >100, Deduct</i>	-3.74	
05 05 19 00-0135 EA 1/2" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	22.83	
<i>For >10 To 50, Deduct</i>	-0.89	
<i>For >50 To 100, Deduct</i>	-1.91	
<i>For >100, Deduct</i>	-3.81	
05 05 19 00-0136 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	24.63	
<i>For >10 To 50, Deduct</i>	-0.89	
<i>For >50 To 100, Deduct</i>	-1.95	
<i>For >100, Deduct</i>	-3.90	
05 05 19 00-0137 EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor	28.03	
<i>For >10 To 50, Deduct</i>	-1.10	
<i>For >50 To 100, Deduct</i>	-2.35	
<i>For >100, Deduct</i>	-4.70	
05 05 19 00-0138 EA 5/8" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	29.69	
<i>For >10 To 50, Deduct</i>	-1.10	
<i>For >50 To 100, Deduct</i>	-2.39	
<i>For >100, Deduct</i>	-4.78	
05 05 19 00-0139 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	31.16	
<i>For >10 To 50, Deduct</i>	-1.10	
<i>For >50 To 100, Deduct</i>	-2.43	
<i>For >100, Deduct</i>	-4.86	
05 05 19 00-0140 EA 3/4" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor	36.21	
<i>For >10 To 50, Deduct</i>	-1.31	
<i>For >50 To 100, Deduct</i>	-2.87	
<i>For >100, Deduct</i>	-5.74	
05 05 19 00-0141 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	37.77	
<i>For >10 To 50, Deduct</i>	-1.31	
<i>For >50 To 100, Deduct</i>	-2.91	
<i>For >100, Deduct</i>	-5.82	
 05 05 19 00-0142 Multi-Set Drop-In Anchors <small>(05 05 19 00-0002)</small>		
05 05 19 00-0143 Zinc Plated Steel, Multi-Set Drop-In Anchors <small>(05 05 19 00-0142)</small>		
Note: Excludes bolt, nut and washer.		
05 05 19 00-0144 EA 1/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	15.32	
<i>For >10 To 50, Deduct</i>	-0.73	
<i>For >50 To 100, Deduct</i>	-1.48	
<i>For >100, Deduct</i>	-2.97	
05 05 19 00-0145 EA 3/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	18.76	
<i>For >10 To 50, Deduct</i>	-0.89	
<i>For >50 To 100, Deduct</i>	-1.81	
<i>For >100, Deduct</i>	-3.62	
05 05 19 00-0146 EA 1/2" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	22.94	
<i>For >10 To 50, Deduct</i>	-1.05	
<i>For >50 To 100, Deduct</i>	-2.15	
<i>For >100, Deduct</i>	-4.31	
05 05 19 00-0147 EA 5/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	26.09	
<i>For >10 To 50, Deduct</i>	-1.16	
<i>For >50 To 100, Deduct</i>	-2.39	
<i>For >100, Deduct</i>	-4.78	
05 05 19 00-0148 EA 3/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	31.38	
<i>For >10 To 50, Deduct</i>	-1.32	
<i>For >50 To 100, Deduct</i>	-2.76	
<i>For >100, Deduct</i>	-5.52	
 05 05 19 00-0149 304/18-8 Stainless Steel, Multi-Set Drop-In Anchors <small>(05 05 19 00-0142)</small>		
Note: Excludes bolt, nut and washer.		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0150 EA 1/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	18.70	
For >10 To 50, Deduct	-0.73	
For >50 To 100, Deduct	-1.57	
For >100, Deduct	-3.13	
05 05 19 00-0151 EA 3/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	25.11	
For >10 To 50, Deduct	-0.89	
For >50 To 100, Deduct	-1.97	
For >100, Deduct	-3.94	
05 05 19 00-0152 EA 1/2" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	31.34	
For >10 To 50, Deduct	-1.05	
For >50 To 100, Deduct	-2.36	
For >100, Deduct	-4.73	
05 05 19 00-0153 EA 5/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	39.62	
For >10 To 50, Deduct	-1.16	
For >50 To 100, Deduct	-2.73	
For >100, Deduct	-5.46	
05 05 19 00-0154 EA 3/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	54.64	
For >10 To 50, Deduct	-1.32	
For >50 To 100, Deduct	-3.34	
For >100, Deduct	-6.68	
05 05 19 00-0155 Single Bolt Expansion Anchors (05 05 19 00-0002)		
Note: Excludes bolt, nut and washer.		
05 05 19 00-0156 EA 1/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	11.26	
For >10 To 50, Deduct	-0.53	
For >50 To 100, Deduct	-1.07	
For >100, Deduct	-2.14	
05 05 19 00-0157 EA 5/16" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	12.06	
For >10 To 50, Deduct	-0.55	
For >50 To 100, Deduct	-1.13	
For >100, Deduct	-2.26	
05 05 19 00-0158 EA 3/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	13.63	
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.28	
For >100, Deduct	-2.56	
05 05 19 00-0159 EA 1/2" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	19.92	
For >10 To 50, Deduct	-0.89	
For >50 To 100, Deduct	-1.83	
For >100, Deduct	-3.67	
05 05 19 00-0160 EA 5/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	27.82	
For >10 To 50, Deduct	-1.10	
For >50 To 100, Deduct	-2.35	
For >100, Deduct	-4.69	
05 05 19 00-0161 EA 3/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	33.60	
For >10 To 50, Deduct	-1.31	
For >50 To 100, Deduct	-2.80	
For >100, Deduct	-5.61	
05 05 19 00-0162 Concrete Lag Shield Anchors (05 05 19 00-0002)		
Note: Excludes lag bolt and washer.		
05 05 19 00-0163 EA 1/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	11.44	
For >10 To 50, Deduct	-0.53	
For >50 To 100, Deduct	-1.08	
For >100, Deduct	-2.15	
05 05 19 00-0164 EA 5/16" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	13.61	
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.28	
For >100, Deduct	-2.56	
05 05 19 00-0165 EA 3/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	14.33	
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.30	
For >100, Deduct	-2.60	
05 05 19 00-0166 EA 1/2" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	20.16	
For >10 To 50, Deduct	-0.89	
For >50 To 100, Deduct	-1.84	
For >100, Deduct	-3.68	
05 05 19 00-0167 EA 5/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	26.82	
For >10 To 50, Deduct	-1.10	
For >50 To 100, Deduct	-2.32	
For >100, Deduct	-4.64	
05 05 19 00-0168 EA 3/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	30.00	
For >10 To 50, Deduct	-1.31	
For >50 To 100, Deduct	-2.71	
For >100, Deduct	-5.43	
05 05 19 00-0169 Chemical And Adhesive Anchors (05 05 19 00-0001)		
05 05 19 00-0170 Chemically Adhered Anchor Rods (05 05 19 00-0169)		
Note: Includes drilling hole, injected adhesive or pre-placed adhesive cartridge, nut and washer. Zinc coated carbon steel.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0171 EA 1/4" x 1-9/16" Long Chemically Adhered Anchor Rod.....	14.54	
<i>For >10 To 50, Deduct</i>	-0.58	
<i>For >50 To 100, Deduct</i>	-1.23	
<i>For >100, Deduct</i>	-2.47	
05 05 19 00-0172 EA 5/16" x 2-3/8" Long Chemically Adhered Anchor Rod.....	16.94	
<i>For >10 To 50, Deduct</i>	-0.63	
<i>For >50 To 100, Deduct</i>	-1.37	
<i>For >100, Deduct</i>	-2.74	
05 05 19 00-0173 EA 3/8" x 2-3/4" Long Chemically Adhered Anchor Rod.....	21.02	
<i>For >10 To 50, Deduct</i>	-0.79	
<i>For >50 To 100, Deduct</i>	-1.71	
<i>For >100, Deduct</i>	-3.42	
05 05 19 00-0174 EA 1/2" x 3-11/16" Long Chemically Adhered Anchor Rod.....	24.68	
<i>For >10 To 50, Deduct</i>	-0.89	
<i>For >50 To 100, Deduct</i>	-1.95	
<i>For >100, Deduct</i>	-3.90	
05 05 19 00-0175 EA 1/2" x 5-1/2" Long Chemically Adhered Anchor Rod.....	26.25	
<i>For >10 To 50, Deduct</i>	-0.89	
<i>For >50 To 100, Deduct</i>	-1.99	
<i>For >100, Deduct</i>	-3.98	
05 05 19 00-0176 EA 5/8" x 7" Long Chemically Adhered Anchor Rod.....	32.50	
<i>For >10 To 50, Deduct</i>	-1.10	
<i>For >50 To 100, Deduct</i>	-2.46	
<i>For >100, Deduct</i>	-4.93	
05 05 19 00-0177 EA 3/4" x 9-1/2" Long Chemically Adhered Anchor Rod.....	42.45	
<i>For >10 To 50, Deduct</i>	-1.31	
<i>For >50 To 100, Deduct</i>	-3.03	
<i>For >100, Deduct</i>	-6.05	
05 05 19 00-0178 EA 7/8" x 10" Long Chemically Adhered Anchor Rod.....	50.56	
<i>For >10 To 50, Deduct</i>	-1.42	
<i>For >50 To 100, Deduct</i>	-3.39	
<i>For >100, Deduct</i>	-6.78	
05 05 19 00-0179 EA 1" x 11-3/4" Long Chemically Adhered Anchor Rod.....	69.30	
<i>For >10 To 50, Deduct</i>	-1.84	
<i>For >50 To 100, Deduct</i>	-4.49	
<i>For >100, Deduct</i>	-8.98	
05 05 19 00-0180 EA 1-1/4" x 14" Long Chemically Adhered Anchor Rod.....	100.08	
<i>For >10 To 50, Deduct</i>	-2.32	
<i>For >50 To 100, Deduct</i>	-5.98	
<i>For >100, Deduct</i>	-11.96	
05 05 19 00-0181 Chemical Adhesives For Bolts, Dowels Or Threaded Rod <small>(05 05 19 00-0169)</small>		
Note: Injected or drop in cartridge. Sizes listed are for the diameter of the bolt, dowel or rod to be anchored.		
Includes drilling. Excludes bolt, dowel or rod.		
05 05 19 00-0182 EA 5/16" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	13.10	
<i>For >10 To 50, Deduct</i>	-0.63	
<i>For >50 To 100, Deduct</i>	-1.28	
<i>For >100, Deduct</i>	-2.55	
05 05 19 00-0183 EA 3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	16.41	
<i>For >10 To 50, Deduct</i>	-0.79	
<i>For >50 To 100, Deduct</i>	-1.60	
<i>For >100, Deduct</i>	-3.19	
05 05 19 00-0184 EA 1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	18.66	
<i>For >10 To 50, Deduct</i>	-0.89	
<i>For >50 To 100, Deduct</i>	-1.80	
<i>For >100, Deduct</i>	-3.60	
05 05 19 00-0185 EA 5/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	24.09	
<i>For >10 To 50, Deduct</i>	-1.10	
<i>For >50 To 100, Deduct</i>	-2.25	
<i>For >100, Deduct</i>	-4.50	
05 05 19 00-0186 EA 3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	29.84	
<i>For >10 To 50, Deduct</i>	-1.31	
<i>For >50 To 100, Deduct</i>	-2.71	
<i>For >100, Deduct</i>	-5.42	
05 05 19 00-0187 EA 7/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	33.21	
<i>For >10 To 50, Deduct</i>	-1.42	
<i>For >50 To 100, Deduct</i>	-2.96	
<i>For >100, Deduct</i>	-5.91	
05 05 19 00-0188 EA 1" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	44.08	
<i>For >10 To 50, Deduct</i>	-1.84	
<i>For >50 To 100, Deduct</i>	-3.86	
<i>For >100, Deduct</i>	-7.72	
05 05 19 00-0189 EA 1-1/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	50.54	
<i>For >10 To 50, Deduct</i>	-2.08	
<i>For >50 To 100, Deduct</i>	-4.38	
<i>For >100, Deduct</i>	-8.76	
05 05 19 00-0190 EA 1-1/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	58.04	
<i>For >10 To 50, Deduct</i>	-2.32	
<i>For >50 To 100, Deduct</i>	-4.93	
<i>For >100, Deduct</i>	-9.86	
05 05 19 00-0191 EA 1-3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	63.06	
<i>For >10 To 50, Deduct</i>	-2.42	
<i>For >50 To 100, Deduct</i>	-5.21	
<i>For >100, Deduct</i>	-10.42	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0192 EA 1-1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	70.04	
For >10 To 50, Deduct	-2.53	
For >50 To 100, Deduct	-5.54	
For >100, Deduct	-11.09	
05 05 19 00-0193 EA 1-3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	83.99	
For >10 To 50, Deduct	-2.74	
For >50 To 100, Deduct	-6.21	
For >100, Deduct	-12.42	
05 05 19 00-0194 EA 2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	115.29	
For >10 To 50, Deduct	-2.85	
For >50 To 100, Deduct	-7.15	
For >100, Deduct	-14.30	
05 05 19 00-0195 Grout Concrete Anchor Bolt Or Threaded Rod (05 05 19 00-0169)		
05 05 19 00-0196 EA Grout Concrete Anchor Bolt or Threaded Rod.....	4.30	
For >10 To 50, Deduct	-0.21	
For >50 To 100, Deduct	-0.42	
For >100, Deduct	-0.83	
05 05 19 00-0197 Other Concrete And Masonry Anchors (05 05 19 00-0001)		
05 05 19 00-0198 Tapcon Masonry Screws (05 05 19 00-0197)		
Note: Includes drilling, Countersunk or hex head.		
05 05 19 00-0199 EA 3/16" x 1-1/4" Tapcon Masonry Screw.....	10.83	
For >10 To 50, Deduct	-0.53	
For >50 To 100, Deduct	-1.06	
For >100, Deduct	-2.12	
05 05 19 00-0200 EA 3/16" x 2-1/4" Tapcon Masonry Screw.....	10.91	
For >10 To 50, Deduct	-0.53	
For >50 To 100, Deduct	-1.06	
For >100, Deduct	-2.13	
05 05 19 00-0201 EA 3/16" x 3-1/4" Tapcon Masonry Screw.....	11.08	
For >10 To 50, Deduct	-0.53	
For >50 To 100, Deduct	-1.07	
For >100, Deduct	-2.14	
05 05 19 00-0202 EA 1/4" x 1-1/4" Tapcon Masonry Screw.....	10.92	
For >10 To 50, Deduct	-0.53	
For >50 To 100, Deduct	-1.06	
For >100, Deduct	-2.13	
05 05 19 00-0203 EA 1/4" x 2-1/4" Tapcon Masonry Screw.....	11.02	
For >10 To 50, Deduct	-0.53	
For >50 To 100, Deduct	-1.07	
For >100, Deduct	-2.13	
05 05 19 00-0204 EA 1/4" x 3-1/4" Tapcon Masonry Screw.....	11.22	
For >10 To 50, Deduct	-0.53	
For >50 To 100, Deduct	-1.07	
For >100, Deduct	-2.14	
05 05 19 00-0205 Large Diameter, Self-Threading Concrete Fasteners (05 05 19 00-0197)		
Note: Includes drilling, Zinc plated.		
05 05 19 00-0206 EA 3/8" x 1-3/4", Large Diameter, Self-Threading Concrete Fastener.....	11.47	
For >10 To 50, Deduct	-0.53	
For >50 To 100, Deduct	-1.08	
For >100, Deduct	-2.15	
05 05 19 00-0207 EA 3/8" x 2-1/2", Large Diameter, Self-Threading Concrete Fastener.....	11.80	
For >10 To 50, Deduct	-0.53	
For >50 To 100, Deduct	-1.09	
For >100, Deduct	-2.17	
05 05 19 00-0208 EA 3/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....	11.89	
For >10 To 50, Deduct	-0.53	
For >50 To 100, Deduct	-1.09	
For >100, Deduct	-2.18	
05 05 19 00-0209 EA 3/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....	12.05	
For >10 To 50, Deduct	-0.53	
For >50 To 100, Deduct	-1.09	
For >100, Deduct	-2.18	
05 05 19 00-0210 EA 3/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....	12.19	
For >10 To 50, Deduct	-0.53	
For >50 To 100, Deduct	-1.10	
For >100, Deduct	-2.19	
05 05 19 00-0211 EA 1/2" x 3", Large Diameter, Self-Threading Concrete Fastener.....	12.48	
For >10 To 50, Deduct	-0.53	
For >50 To 100, Deduct	-1.10	
For >100, Deduct	-2.21	
05 05 19 00-0212 EA 1/2" x 4", Large Diameter, Self-Threading Concrete Fastener.....	12.84	
For >10 To 50, Deduct	-0.53	
For >50 To 100, Deduct	-1.11	
For >100, Deduct	-2.22	
05 05 19 00-0213 EA 1/2" x 5", Large Diameter, Self-Threading Concrete Fastener.....	13.17	
For >10 To 50, Deduct	-0.53	
For >50 To 100, Deduct	-1.12	
For >100, Deduct	-2.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0214 EA 1/2" x 6", Large Diameter, Self-Threading Concrete Fastener	14.09	
<i>For >10 To 50, Deduct</i>	-0.53	
<i>For >50 To 100, Deduct</i>	-1.14	
<i>For >100, Deduct</i>	-2.29	
05 05 19 00-0215 EA 5/8" x 3", Large Diameter, Self-Threading Concrete Fastener	14.20	
<i>For >10 To 50, Deduct</i>	-0.53	
<i>For >50 To 100, Deduct</i>	-1.15	
<i>For >100, Deduct</i>	-2.29	
05 05 19 00-0216 EA 5/8" x 4", Large Diameter, Self-Threading Concrete Fastener	14.76	
<i>For >10 To 50, Deduct</i>	-0.53	
<i>For >50 To 100, Deduct</i>	-1.16	
<i>For >100, Deduct</i>	-2.32	
05 05 19 00-0217 EA 5/8" x 5", Large Diameter, Self-Threading Concrete Fastener	15.34	
<i>For >10 To 50, Deduct</i>	-0.53	
<i>For >50 To 100, Deduct</i>	-1.17	
<i>For >100, Deduct</i>	-2.35	
05 05 19 00-0218 EA 5/8" x 6", Large Diameter, Self-Threading Concrete Fastener	15.71	
<i>For >10 To 50, Deduct</i>	-0.53	
<i>For >50 To 100, Deduct</i>	-1.18	
<i>For >100, Deduct</i>	-2.37	
05 05 19 00-0219 EA 3/4" x 4-1/2", Large Diameter, Self-Threading Concrete Fastener	15.55	
<i>For >10 To 50, Deduct</i>	-0.53	
<i>For >50 To 100, Deduct</i>	-1.18	
<i>For >100, Deduct</i>	-2.36	
05 05 19 00-0220 EA 3/4" x 5-1/2", Large Diameter, Self-Threading Concrete Fastener	16.08	
<i>For >10 To 50, Deduct</i>	-0.53	
<i>For >50 To 100, Deduct</i>	-1.19	
<i>For >100, Deduct</i>	-2.39	
05 05 19 00-0221 EA 3/4" x 6-1/4", Large Diameter, Self-Threading Concrete Fastener	17.33	
<i>For >10 To 50, Deduct</i>	-0.53	
<i>For >50 To 100, Deduct</i>	-1.22	
<i>For >100, Deduct</i>	-2.45	
05 05 19 00-0222 Pin Bolt Drives <small>(05 05 19 00-0197)</small>		
Note: Includes drilling. Zinc plated.		
05 05 19 00-0223 EA 1/4" x 1" Pin Bolt Drive	6.77	
<i>For >10 To 50, Deduct</i>	-0.32	
<i>For >50 To 100, Deduct</i>	-0.64	
<i>For >100, Deduct</i>	-1.29	
05 05 19 00-0224 EA 1/4" x 1-1/4" Pin Bolt Drive	6.77	
<i>For >10 To 50, Deduct</i>	-0.32	
<i>For >50 To 100, Deduct</i>	-0.64	
<i>For >100, Deduct</i>	-1.29	
05 05 19 00-0225 EA 1/4" x 1-1/2" Pin Bolt Drive	6.83	
<i>For >10 To 50, Deduct</i>	-0.32	
<i>For >50 To 100, Deduct</i>	-0.64	
<i>For >100, Deduct</i>	-1.29	
05 05 19 00-0226 EA 1/4" x 2" Pin Bolt Drive	6.84	
<i>For >10 To 50, Deduct</i>	-0.32	
<i>For >50 To 100, Deduct</i>	-0.65	
<i>For >100, Deduct</i>	-1.29	
05 05 19 00-0227 Powder Actuated, Shot-In Place Anchors <small>(05 05 19 00-0197)</small>		
05 05 19 00-0228 EA 0.15" Diameter x 1/2" Length, Stud Powder Actuated Anchor	1.70	
<i>For >10 To 50, Deduct</i>	-0.07	
<i>For >50 To 100, Deduct</i>	-0.15	
<i>For >100, Deduct</i>	-0.30	
05 05 19 00-0229 EA 0.15" Diameter x 3/4" Length, Stud Powder Actuated Anchor	1.79	
<i>For >10 To 50, Deduct</i>	-0.07	
<i>For >50 To 100, Deduct</i>	-0.16	
<i>For >100, Deduct</i>	-0.31	
05 05 19 00-0230 EA 0.15"/0.18" Diameter x 1" Length, Stud Powder Actuated Anchor	1.96	
<i>For >10 To 50, Deduct</i>	-0.08	
<i>For >50 To 100, Deduct</i>	-0.17	
<i>For >100, Deduct</i>	-0.34	
05 05 19 00-0231 EA 0.15"/0.18" Diameter x 1-1/4" Length, Stud Powder Actuated Anchor	2.17	
<i>For >10 To 50, Deduct</i>	-0.08	
<i>For >50 To 100, Deduct</i>	-0.18	
<i>For >100, Deduct</i>	-0.36	
05 05 19 00-0232 EA 0.15"/0.18" Diameter x 1-7/8" Length, Stud Powder Actuated Anchor	2.29	
<i>For >10 To 50, Deduct</i>	-0.08	
<i>For >50 To 100, Deduct</i>	-0.18	
<i>For >100, Deduct</i>	-0.37	
05 05 19 00-0233 Powder Actuated, Shot-In Place Anchors With Exposed Thread <small>(05 05 19 00-0197)</small>		
05 05 19 00-0234 EA 0.145" Diameter x 1" Long Shank, 3/4" Thread Length, 1/4" - 20 Treaded Stud Powder Actuated Anchor	2.02	
<i>For >10 To 50, Deduct</i>	-0.07	
<i>For >50 To 100, Deduct</i>	-0.16	
<i>For >100, Deduct</i>	-0.32	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0235	EA		0.205" Diameter x 1-1/16" Long Shank, 1" Thread Length, 3/8" - 16 Treaded Stud Powder Actuated Anchor	2.76	
			<i>For >10 To 50, Deduct</i>	-0.09	
			<i>For >50 To 100, Deduct</i>	-0.20	
			<i>For >100, Deduct</i>	-0.41	
05 05 21 Fastening Methods for Metal <small>(05 05)</small>					
05 05 21 00-0001			Welding <small>(05 05 21)</small>		
05 05 21 00-0002			Welding Minimum Charge <small>(05 05 21 00-0001)</small>		
05 05 21 00-0003	EA		Welding Minimum Charge	417.78	
			Note: For projects where the total welding charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
05 05 21 00-0004			Spot Welding <small>(05 05 21 00-0001)</small>		
			See CSI section 05 05 21 00-0007 for a series of welds.		
05 05 21 00-0005	EA		Up To 15 Spot Weldings, Welds Up To 1" Length Each	10.68	
			<i>For Aluminum Welding, Add</i>	1.67	
			<i>For Stainless Steel Welding, Add</i>	2.75	
05 05 21 00-0006	EA		>15 Spot Weldings, Welds Up To 1" Length Each	8.33	
			<i>For Aluminum Welding, Add</i>	1.32	
			<i>For Stainless Steel Welding, Add</i>	2.17	
05 05 21 00-0007			Field Welding (Seam And Stitch Welding) <small>(05 05 21 00-0001)</small>		
05 05 21 00-0008			Vertical Fillet Welds <small>(05 05 21 00-0007)</small>		
			Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.		
05 05 21 00-0009	LF		1/8" Vertical Fillet Weld	6.77	
			<i>For Aluminum Welding, Add</i>	1.33	
			<i>For Stainless Steel Welding, Add</i>	2.09	
			<i>For Up To 25, Add</i>	2.24	
			<i>For >25 To 50, Add</i>	1.59	
05 05 21 00-0010	LF		3/16" Vertical Fillet Weld	13.13	
			<i>For Aluminum Welding, Add</i>	2.37	
			<i>For Stainless Steel Welding, Add</i>	3.78	
			<i>For Up To 25, Add</i>	4.43	
			<i>For >25 To 50, Add</i>	3.15	
05 05 21 00-0011	LF		1/4" Vertical Fillet Weld	19.72	
			<i>For Aluminum Welding, Add</i>	3.56	
			<i>For Stainless Steel Welding, Add</i>	5.69	
			<i>For Up To 25, Add</i>	6.65	
			<i>For >25 To 50, Add</i>	4.73	
05 05 21 00-0012	LF		5/16" Vertical Fillet Weld	26.01	
			<i>For Aluminum Welding, Add</i>	4.72	
			<i>For Stainless Steel Welding, Add</i>	7.52	
			<i>For Up To 25, Add</i>	8.76	
			<i>For >25 To 50, Add</i>	6.23	
05 05 21 00-0013	LF		3/8" Vertical Fillet Weld	32.86	
			<i>For Aluminum Welding, Add</i>	5.93	
			<i>For Stainless Steel Welding, Add</i>	9.47	
			<i>For Up To 25, Add</i>	11.08	
			<i>For >25 To 50, Add</i>	7.88	
05 05 21 00-0014	LF		7/16" Vertical Fillet Weld	38.25	
			<i>For Aluminum Welding, Add</i>	6.53	
			<i>For Stainless Steel Welding, Add</i>	10.55	
			<i>For Up To 25, Add</i>	13.06	
			<i>For >25 To 50, Add</i>	9.30	
05 05 21 00-0015	LF		1/2" Vertical Fillet Weld	44.92	
			<i>For Aluminum Welding, Add</i>	8.14	
			<i>For Stainless Steel Welding, Add</i>	12.98	
			<i>For Up To 25, Add</i>	15.14	
			<i>For >25 To 50, Add</i>	10.76	
05 05 21 00-0016	LF		9/16" Vertical Fillet Weld	52.57	
			<i>For Aluminum Welding, Add</i>	9.14	
			<i>For Stainless Steel Welding, Add</i>	14.71	
			<i>For Up To 25, Add</i>	17.88	
			<i>For >25 To 50, Add</i>	12.72	
05 05 21 00-0017	LF		5/8" Vertical Fillet Weld	60.94	
			<i>For Aluminum Welding, Add</i>	10.62	
			<i>For Stainless Steel Welding, Add</i>	17.09	
			<i>For Up To 25, Add</i>	20.71	
			<i>For >25 To 50, Add</i>	14.74	
05 05 21 00-0018	LF		3/4" Vertical Fillet Weld	82.20	
			<i>For Aluminum Welding, Add</i>	14.88	
			<i>For Stainless Steel Welding, Add</i>	23.74	
			<i>For Up To 25, Add</i>	27.71	
			<i>For >25 To 50, Add</i>	19.70	
05 05 21 00-0019	LF		7/8" Vertical Fillet Weld	121.68	
			<i>For Aluminum Welding, Add</i>	21.10	
			<i>For Stainless Steel Welding, Add</i>	33.98	
			<i>For Up To 25, Add</i>	41.40	
			<i>For >25 To 50, Add</i>	29.47	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 21 00-0020 LF 1" Vertical Fillet Weld	163.85	
<i>For Aluminum Welding, Add</i>	29.34	
<i>For Stainless Steel Welding, Add</i>	46.92	
<i>For Up To 25, Add</i>	55.36	
<i>For >25 To 50, Add</i>	39.37	
05 05 21 00-0021 Horizontal Or Flat Fillet Welds <small>(05 05 21 00-0007)</small>		
<small>Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.</small>		
05 05 21 00-0022 LF 1/8" Horizontal Or Flat Fillet Weld	5.69	
<i>For Aluminum Welding, Add</i>	1.17	
<i>For Stainless Steel Welding, Add</i>	1.82	
<i>For Up To 25, Add</i>	1.86	
<i>For >25 To 50, Add</i>	1.32	
05 05 21 00-0023 LF 3/16" Horizontal Or Flat Fillet Weld	11.13	
<i>For Aluminum Welding, Add</i>	2.09	
<i>For Stainless Steel Welding, Add</i>	3.31	
<i>For Up To 25, Add</i>	3.72	
<i>For >25 To 50, Add</i>	2.64	
05 05 21 00-0024 LF 1/4" Horizontal Or Flat Fillet Weld	16.64	
<i>For Aluminum Welding, Add</i>	3.13	
<i>For Stainless Steel Welding, Add</i>	4.95	
<i>For Up To 25, Add</i>	5.56	
<i>For >25 To 50, Add</i>	3.95	
05 05 21 00-0025 LF 5/16" Horizontal Or Flat Fillet Weld	21.99	
<i>For Aluminum Welding, Add</i>	4.16	
<i>For Stainless Steel Welding, Add</i>	6.57	
<i>For Up To 25, Add</i>	7.34	
<i>For >25 To 50, Add</i>	5.21	
05 05 21 00-0026 LF 3/8" Horizontal Or Flat Fillet Weld	27.76	
<i>For Aluminum Welding, Add</i>	5.21	
<i>For Stainless Steel Welding, Add</i>	8.25	
<i>For Up To 25, Add</i>	9.28	
<i>For >25 To 50, Add</i>	6.59	
05 05 21 00-0027 LF 7/16" Horizontal Or Flat Fillet Weld	32.18	
<i>For Aluminum Welding, Add</i>	5.66	
<i>For Stainless Steel Welding, Add</i>	9.09	
<i>For Up To 25, Add</i>	10.92	
<i>For >25 To 50, Add</i>	7.77	
05 05 21 00-0028 LF 1/2" Horizontal Or Flat Fillet Weld	37.91	
<i>For Aluminum Welding, Add</i>	7.15	
<i>For Stainless Steel Welding, Add</i>	11.31	
<i>For Up To 25, Add</i>	12.66	
<i>For >25 To 50, Add</i>	8.99	
05 05 21 00-0029 LF 9/16" Horizontal Or Flat Fillet Weld	44.33	
<i>For Aluminum Welding, Add</i>	7.99	
<i>For Stainless Steel Welding, Add</i>	12.76	
<i>For Up To 25, Add</i>	14.96	
<i>For >25 To 50, Add</i>	10.64	
05 05 21 00-0030 LF 5/8" Horizontal Or Flat Fillet Weld	51.61	
<i>For Aluminum Welding, Add</i>	9.48	
<i>For Stainless Steel Welding, Add</i>	15.07	
<i>For Up To 25, Add</i>	17.34	
<i>For >25 To 50, Add</i>	12.32	
05 05 21 00-0031 LF 3/4" Horizontal Or Flat Fillet Weld	69.45	
<i>For Aluminum Welding, Add</i>	13.09	
<i>For Stainless Steel Welding, Add</i>	20.71	
<i>For Up To 25, Add</i>	23.19	
<i>For >25 To 50, Add</i>	16.47	
05 05 21 00-0032 LF 7/8" Horizontal Or Flat Fillet Weld	101.87	
<i>For Aluminum Welding, Add</i>	17.93	
<i>For Stainless Steel Welding, Add</i>	28.78	
<i>For Up To 25, Add</i>	34.55	
<i>For >25 To 50, Add</i>	24.58	
05 05 21 00-0033 LF 1" Horizontal Or Flat Fillet Weld	137.93	
<i>For Aluminum Welding, Add</i>	25.68	
<i>For Stainless Steel Welding, Add</i>	40.72	
<i>For Up To 25, Add</i>	46.20	
<i>For >25 To 50, Add</i>	32.82	
05 05 23 Metal Fastenings <small>(05 05)</small>		
05 05 23 00-0001 Drilling In Steel Plates <small>(05 05 23)</small>		
05 05 23 00-0002 EA >1-1/2" To 4" Diameter Drill Through Up To 1/4" Steel Plate	30.73	
<i>For Aluminum, Deduct</i>	-3.07	
<i>For Stainless Steel, Add</i>	3.84	
<i>For >5 To 10, Deduct</i>	-3.07	
<i>For >10 To 25, Deduct</i>	-7.68	
<i>For >25 To 50, Deduct</i>	-10.76	
<i>For >50, Deduct</i>	-15.37	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0003 EA >4" To 10" Diameter Drill Through Up To 1/4" Steel Plate	41.16	
For Aluminum, Deduct	-4.12	
For Stainless Steel, Add	5.15	
For >5 To 10, Deduct	-4.12	
For >10 To 25, Deduct	-10.29	
For >25 To 50, Deduct	-14.41	
For >50, Deduct	-20.58	
05 05 23 00-0004 EA >1-1/2" To 4" Diameter Drill Through >1/4" To 1/2" Steel Plate	41.16	
For Aluminum, Deduct	-4.12	
For Stainless Steel, Add	5.15	
For >5 To 10, Deduct	-4.12	
For >10 To 25, Deduct	-10.29	
For >25 To 50, Deduct	-14.41	
For >50, Deduct	-20.58	
05 05 23 00-0005 EA Up To 1/2" Diameter Drill Through >1/2" To 1" Steel Plate	27.44	
For Aluminum, Deduct	-2.74	
For Stainless Steel, Add	3.43	
For >5 To 10, Deduct	-2.74	
For >10 To 25, Deduct	-6.86	
For >25 To 50, Deduct	-9.60	
For >50, Deduct	-13.72	
05 05 23 00-0006 EA >1/2" To 7/8" Diameter Drill Through >1/2" To 1" Steel Plate	36.22	
For Aluminum, Deduct	-3.62	
For Stainless Steel, Add	4.53	
For >5 To 10, Deduct	-3.62	
For >10 To 25, Deduct	-9.06	
For >25 To 50, Deduct	-12.68	
For >50, Deduct	-18.11	
05 05 23 00-0007 EA >7/8" To 1-1/2" Diameter Drill Through >1/2" To 1" Steel Plate	43.90	
For >5 To 10, Deduct	-4.39	
For >10 To 25, Deduct	-10.98	
For >25 To 50, Deduct	-15.37	
For >50, Deduct	-21.95	
05 05 23 00-0008 Hex Bolts <small>(05 05 23)</small>		
Note: For owner furnished materials or where requested by the owner. Excludes drilling through steel, concrete, brick or block. See CSI section 02 41 19 13-0277 for drilling into concrete, 02 41 19 13-0287 for drilling into brick or block, 02 41 19 13-0297 for drilling into wood or plastic, 05 05 23 00-0001 for drilling through steel.		
05 05 23 00-0009 A307B Heavy Hex Bolts <small>(05 05 23 00-0008)</small>		
Note: Includes A307B heavy hex nut and two structural washers.		
05 05 23 00-0010 Plain Finish A307B Heavy Hex Bolts <small>(05 05 23 00-0009)</small>		
05 05 23 00-0011 EA 1/2" Diameter x 1-1/2" Long, Plain Finish A307B Heavy Hex Bolt	12.48	1.19
For >10 To 50, Deduct	-0.50	
For >50 To 100, Deduct	-1.06	
For >100, Deduct	-2.12	
05 05 23 00-0012 EA 1/2" Diameter x 3" Long, Plain Finish A307B Heavy Hex Bolt.....	13.93	1.19
For >10 To 50, Deduct	-0.50	
For >50 To 100, Deduct	-1.10	
For >100, Deduct	-2.19	
05 05 23 00-0013 EA 5/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt.....	13.97	1.19
For >10 To 50, Deduct	-0.50	
For >50 To 100, Deduct	-1.10	
For >100, Deduct	-2.19	
05 05 23 00-0014 EA 5/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt.....	16.72	1.36
For >10 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.27	
For >100, Deduct	-2.54	
05 05 23 00-0015 EA 3/4" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt.....	16.41	1.19
For >10 To 50, Deduct	-0.50	
For >50 To 100, Deduct	-1.16	
For >100, Deduct	-2.32	
05 05 23 00-0016 EA 3/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt.....	19.75	1.36
For >10 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.35	
For >100, Deduct	-2.69	
05 05 23 00-0017 EA 3/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt.....	25.37	1.43
For >10 To 50, Deduct	-0.60	
For >50 To 100, Deduct	-1.53	
For >100, Deduct	-3.05	
05 05 23 00-0018 EA 3/4" Diameter x 8" Long, Plain Finish A307B Heavy Hex Bolt.....	27.30	1.50
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.62	
For >100, Deduct	-3.24	
05 05 23 00-0019 EA 7/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt.....	19.83	1.30
For >10 To 50, Deduct	-0.54	
For >50 To 100, Deduct	-1.31	
For >100, Deduct	-2.61	
05 05 23 00-0020 EA 7/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt.....	24.09	1.43
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.49	
For >100, Deduct	-2.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0021 EA 1" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	28.59 -0.63 -1.65 -3.31	1.50
05 05 23 00-0022 EA 1" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	41.56 -0.66 -2.03 -4.05	1.57
05 05 23 00-0023 EA 1-1/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	48.75 -0.74 -2.33 -4.67	1.79
05 05 23 00-0024 EA 1-1/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	54.99 -0.80 -2.57 -5.14	1.91
05 05 23 00-0025 Galvanized A307B Heavy Hex Bolts <small>(05 05 23 00-0009)</small>		
05 05 23 00-0026 EA 1/2" Diameter x 1-1/2" Long, Galvanized A307B Heavy Hex Bolt <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	13.19 -0.50 -1.08 -2.16	1.19
05 05 23 00-0027 EA 1/2" Diameter x 3" Long, Galvanized A307B Heavy Hex Bolt <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	14.41 -0.50 -1.11 -2.22	1.19
05 05 23 00-0028 EA 5/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	15.73 -0.50 -1.14 -2.28	1.19
05 05 23 00-0029 EA 5/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	18.48 -0.57 -1.32 -2.63	1.36
05 05 23 00-0030 EA 3/4" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	18.40 -0.50 -1.21 -2.42	1.19
05 05 23 00-0031 EA 3/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	23.43 -0.57 -1.44 -2.88	1.36
05 05 23 00-0032 EA 3/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	31.72 -0.60 -1.69 -3.37	1.43
05 05 23 00-0033 EA 3/4" Diameter x 8" Long, Galvanized A307B Heavy Hex Bolt <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	37.58 -0.63 -1.88 -3.76	1.50
05 05 23 00-0034 EA 7/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	25.05 -0.54 -1.44 -2.87	1.30
05 05 23 00-0035 EA 7/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	29.97 -0.59 -1.64 -3.28	1.43
05 05 23 00-0036 EA 1" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	36.19 -0.63 -1.84 -3.69	1.50
05 05 23 00-0037 EA 1" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	55.32 -0.66 -2.37 -4.74	1.57
05 05 23 00-0038 EA 1-1/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	54.90 -0.74 -2.49 -4.97	1.79
05 05 23 00-0039 EA 1-1/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	69.25 -0.80 -2.92 -5.85	1.91
05 05 23 00-0040 A325 High Strength Structural Bolts <small>(05 05 23 00-0008)</small> Note: Includes A325 heavy hex nut and two structural washers.		
05 05 23 00-0041 Plain Finish A325 High Strength Structural Bolts <small>(05 05 23 00-0040)</small> Note: Includes A325 heavy hex nut and structural washer.		
05 05 23 00-0042 EA 1/2" Diameter x 1-1/2" Long, Plain Finish A325 High Strength Structural Bolt <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	12.15 -0.50 -1.05 -2.10	1.19

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0043 EA 1/2" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt	12.47	1.19
For >10 To 50, Deduct	-0.50	
For >50 To 100, Deduct	-1.06	
For >100, Deduct	-2.12	
05 05 23 00-0044 EA 5/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt	13.49	1.19
For >10 To 50, Deduct	-0.50	
For >50 To 100, Deduct	-1.09	
For >100, Deduct	-2.17	
05 05 23 00-0045 EA 5/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt	16.75	1.36
For >10 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.27	
For >100, Deduct	-2.55	
05 05 23 00-0046 EA 5/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt	19.70	1.43
For >10 To 50, Deduct	-0.60	
For >50 To 100, Deduct	-1.39	
For >100, Deduct	-2.77	
05 05 23 00-0047 EA 3/4" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt	14.91	1.19
For >10 To 50, Deduct	-0.50	
For >50 To 100, Deduct	-1.12	
For >100, Deduct	-2.24	
05 05 23 00-0048 EA 3/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt	18.27	1.36
For >10 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.31	
For >100, Deduct	-2.62	
05 05 23 00-0049 EA 3/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt	21.04	1.43
For >10 To 50, Deduct	-0.60	
For >50 To 100, Deduct	-1.42	
For >100, Deduct	-2.84	
05 05 23 00-0050 EA 3/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt	26.39	1.50
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.60	
For >100, Deduct	-3.20	
05 05 23 00-0051 EA 7/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt	17.49	1.30
For >10 To 50, Deduct	-0.54	
For >50 To 100, Deduct	-1.25	
For >100, Deduct	-2.50	
05 05 23 00-0052 EA 7/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt	21.60	1.43
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.43	
For >100, Deduct	-2.86	
05 05 23 00-0053 EA 7/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt	24.91	1.50
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.56	
For >100, Deduct	-3.12	
05 05 23 00-0054 EA 7/8" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt	27.09	1.57
For >10 To 50, Deduct	-0.66	
For >50 To 100, Deduct	-1.66	
For >100, Deduct	-3.33	
05 05 23 00-0055 EA 1" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt	19.49	1.35
For >10 To 50, Deduct	-0.56	
For >50 To 100, Deduct	-1.33	
For >100, Deduct	-2.66	
05 05 23 00-0056 EA 1" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt	23.70	1.50
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.53	
For >100, Deduct	-3.06	
05 05 23 00-0057 EA 1" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt	27.77	1.57
For >10 To 50, Deduct	-0.66	
For >50 To 100, Deduct	-1.68	
For >100, Deduct	-3.36	
05 05 23 00-0058 EA 1" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt	36.24	1.67
For >10 To 50, Deduct	-0.70	
For >50 To 100, Deduct	-1.96	
For >100, Deduct	-3.91	
05 05 23 00-0059 EA 1-1/4" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt	34.45	1.67
For >10 To 50, Deduct	-0.70	
For >50 To 100, Deduct	-1.91	
For >100, Deduct	-3.82	
05 05 23 00-0060 EA 1-1/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt	39.29	1.79
For >10 To 50, Deduct	-0.74	
For >50 To 100, Deduct	-2.10	
For >100, Deduct	-4.19	
05 05 23 00-0061 EA 1-1/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt	46.47	1.91
For >10 To 50, Deduct	-0.80	
For >50 To 100, Deduct	-2.36	
For >100, Deduct	-4.71	
05 05 23 00-0062 EA 1-1/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt	54.97	2.04
For >10 To 50, Deduct	-0.85	
For >50 To 100, Deduct	-2.65	
For >100, Deduct	-5.29	

05 05 23 00-0063 Galvanized A325 High Strength Structural Bolts (05 05 23 00-0040)
Note: Includes A325 heavy hex nut and structural washer.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0064 EA 1/2" Diameter x 1-1/2" Long, Galvanized A325 High Strength Structural Bolt.....	12.79	1.19
<i>For >10 To 50, Deduct</i>	-0.50	
<i>For >50 To 100, Deduct</i>	-1.07	
<i>For >100, Deduct</i>	-2.14	
05 05 23 00-0065 EA 1/2" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt.....	13.01	1.19
<i>For >10 To 50, Deduct</i>	-0.50	
<i>For >50 To 100, Deduct</i>	-1.07	
<i>For >100, Deduct</i>	-2.15	
05 05 23 00-0066 EA 5/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	14.84	1.19
<i>For >10 To 50, Deduct</i>	-0.50	
<i>For >50 To 100, Deduct</i>	-1.12	
<i>For >100, Deduct</i>	-2.24	
05 05 23 00-0067 EA 5/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	17.71	1.36
<i>For >10 To 50, Deduct</i>	-0.57	
<i>For >50 To 100, Deduct</i>	-1.30	
<i>For >100, Deduct</i>	-2.59	
05 05 23 00-0068 EA 5/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	18.78	1.43
<i>For >10 To 50, Deduct</i>	-0.60	
<i>For >50 To 100, Deduct</i>	-1.36	
<i>For >100, Deduct</i>	-2.72	
05 05 23 00-0069 EA 3/4" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	15.53	1.19
<i>For >10 To 50, Deduct</i>	-0.50	
<i>For >50 To 100, Deduct</i>	-1.14	
<i>For >100, Deduct</i>	-2.27	
05 05 23 00-0070 EA 3/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	19.05	1.36
<i>For >10 To 50, Deduct</i>	-0.57	
<i>For >50 To 100, Deduct</i>	-1.33	
<i>For >100, Deduct</i>	-2.66	
05 05 23 00-0071 EA 3/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	22.26	1.43
<i>For >10 To 50, Deduct</i>	-0.60	
<i>For >50 To 100, Deduct</i>	-1.45	
<i>For >100, Deduct</i>	-2.90	
05 05 23 00-0072 EA 3/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	29.28	1.50
<i>For >10 To 50, Deduct</i>	-0.63	
<i>For >50 To 100, Deduct</i>	-1.67	
<i>For >100, Deduct</i>	-3.34	
05 05 23 00-0073 EA 7/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	21.21	1.30
<i>For >10 To 50, Deduct</i>	-0.54	
<i>For >50 To 100, Deduct</i>	-1.34	
<i>For >100, Deduct</i>	-2.68	
05 05 23 00-0074 EA 7/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	23.80	1.43
<i>For >10 To 50, Deduct</i>	-0.59	
<i>For >50 To 100, Deduct</i>	-1.49	
<i>For >100, Deduct</i>	-2.97	
05 05 23 00-0075 EA 7/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	27.59	1.50
<i>For >10 To 50, Deduct</i>	-0.63	
<i>For >50 To 100, Deduct</i>	-1.63	
<i>For >100, Deduct</i>	-3.26	
05 05 23 00-0076 EA 7/8" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	35.10	1.57
<i>For >10 To 50, Deduct</i>	-0.66	
<i>For >50 To 100, Deduct</i>	-1.86	
<i>For >100, Deduct</i>	-3.73	
05 05 23 00-0077 EA 1" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	22.39	1.35
<i>For >10 To 50, Deduct</i>	-0.56	
<i>For >50 To 100, Deduct</i>	-1.40	
<i>For >100, Deduct</i>	-2.81	
05 05 23 00-0078 EA 1" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	30.35	1.50
<i>For >10 To 50, Deduct</i>	-0.63	
<i>For >50 To 100, Deduct</i>	-1.70	
<i>For >100, Deduct</i>	-3.40	
05 05 23 00-0079 EA 1" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	33.34	1.57
<i>For >10 To 50, Deduct</i>	-0.66	
<i>For >50 To 100, Deduct</i>	-1.82	
<i>For >100, Deduct</i>	-3.64	
05 05 23 00-0080 EA 1" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	43.10	1.67
<i>For >10 To 50, Deduct</i>	-0.70	
<i>For >50 To 100, Deduct</i>	-2.13	
<i>For >100, Deduct</i>	-4.26	
05 05 23 00-0081 EA 1-1/4" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt.....	42.82	1.67
<i>For >10 To 50, Deduct</i>	-0.70	
<i>For >50 To 100, Deduct</i>	-2.12	
<i>For >100, Deduct</i>	-4.24	
05 05 23 00-0082 EA 1-1/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	45.68	1.79
<i>For >10 To 50, Deduct</i>	-0.74	
<i>For >50 To 100, Deduct</i>	-2.26	
<i>For >100, Deduct</i>	-4.51	
05 05 23 00-0083 EA 1-1/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	53.80	1.91
<i>For >10 To 50, Deduct</i>	-0.80	
<i>For >50 To 100, Deduct</i>	-2.54	
<i>For >100, Deduct</i>	-5.08	
05 05 23 00-0084 EA 1-1/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	62.62	2.04
<i>For >10 To 50, Deduct</i>	-0.85	
<i>For >50 To 100, Deduct</i>	-2.84	
<i>For >100, Deduct</i>	-5.68	

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

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
05 05 23 00-0085		A490 High Strength Structural Bolts <small>(05 05 23 00-0085)</small>			
		Note: Includes A490 heavy hex nut and two structural washers.			
05 05 23 00-0086		Plain Finish A490 High Strength Structural Bolts <small>(05 05 23 00-0085)</small>			
05 05 23 00-0087	EA	5/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt	14.00		1.19
		For >10 To 50, Deduct	-0.50		
		For >50 To 100, Deduct	-1.10		
		For >100, Deduct	-2.20		
05 05 23 00-0088	EA	5/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt	20.23		1.36
		For >10 To 50, Deduct	-0.57		
		For >50 To 100, Deduct	-1.36		
		For >100, Deduct	-2.72		
05 05 23 00-0089	EA	5/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt	21.70		1.43
		For >10 To 50, Deduct	-0.60		
		For >50 To 100, Deduct	-1.44		
		For >100, Deduct	-2.87		
05 05 23 00-0090	EA	3/4" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt	15.97		1.19
		For >10 To 50, Deduct	-0.50		
		For >50 To 100, Deduct	-1.15		
		For >100, Deduct	-2.29		
05 05 23 00-0091	EA	3/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt	19.47		1.36
		For >10 To 50, Deduct	-0.57		
		For >50 To 100, Deduct	-1.34		
		For >100, Deduct	-2.68		
05 05 23 00-0092	EA	3/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt	22.97		1.43
		For >10 To 50, Deduct	-0.60		
		For >50 To 100, Deduct	-1.47		
		For >100, Deduct	-2.93		
05 05 23 00-0093	EA	3/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt	30.15		1.50
		For >10 To 50, Deduct	-0.63		
		For >50 To 100, Deduct	-1.69		
		For >100, Deduct	-3.39		
05 05 23 00-0094	EA	7/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt	18.70		1.30
		For >10 To 50, Deduct	-0.54		
		For >50 To 100, Deduct	-1.28		
		For >100, Deduct	-2.56		
05 05 23 00-0095	EA	7/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt	21.98		1.43
		For >10 To 50, Deduct	-0.59		
		For >50 To 100, Deduct	-1.44		
		For >100, Deduct	-2.88		
05 05 23 00-0096	EA	7/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt	32.76		1.50
		For >10 To 50, Deduct	-0.63		
		For >50 To 100, Deduct	-1.76		
		For >100, Deduct	-3.52		
05 05 23 00-0097	EA	1" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt	22.33		1.35
		For >10 To 50, Deduct	-0.56		
		For >50 To 100, Deduct	-1.40		
		For >100, Deduct	-2.80		
05 05 23 00-0098	EA	1" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt	26.89		1.50
		For >10 To 50, Deduct	-0.63		
		For >50 To 100, Deduct	-1.61		
		For >100, Deduct	-3.22		
05 05 23 00-0099	EA	1" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt	31.20		1.57
		For >10 To 50, Deduct	-0.66		
		For >50 To 100, Deduct	-1.77		
		For >100, Deduct	-3.53		
05 05 23 00-0100	EA	1-1/4" Diameter x 3" Long, Plain Finish A490 High Strength Structural Bolt	39.51		1.67
		For >10 To 50, Deduct	-0.70		
		For >50 To 100, Deduct	-2.04		
		For >100, Deduct	-4.08		
05 05 23 00-0101	EA	1-1/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt	51.37		1.79
		For >10 To 50, Deduct	-0.74		
		For >50 To 100, Deduct	-2.40		
		For >100, Deduct	-4.80		
05 05 23 00-0102	EA	1-1/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt	54.00		1.91
		For >10 To 50, Deduct	-0.80		
		For >50 To 100, Deduct	-2.54		
		For >100, Deduct	-5.09		
05 05 23 00-0103	EA	1-1/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt	56.26		2.04
		For >10 To 50, Deduct	-0.85		
		For >50 To 100, Deduct	-2.68		
		For >100, Deduct	-5.36		
05 05 23 00-0104		Hex Head Bolts <small>(05 05 23 00-0008)</small>			
05 05 23 00-0105		Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0104)</small>			
05 05 23 00-0106		1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0105)</small>			
05 05 23 00-0107	EA	1/4" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	6.69		
		For >100 To 250, Deduct	-1.32		
		For >250 To 500, Deduct	-1.65		
		For >500, Deduct	-1.97		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0108 EA 1/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.72	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0109 EA 1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.80	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0110 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.84	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0111 EA 1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.08	
<i>For >100 To 250, Deduct</i>	-1.35	
<i>For >250 To 500, Deduct</i>	-1.69	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0112 EA 1/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.12	
<i>For >100 To 250, Deduct</i>	-1.35	
<i>For >250 To 500, Deduct</i>	-1.69	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0113 EA 1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.24	
<i>For >100 To 250, Deduct</i>	-1.35	
<i>For >250 To 500, Deduct</i>	-1.69	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0114 EA 1/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.44	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0115 EA 1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.48	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0116 EA 1/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.68	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0117 EA 1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.00	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0118 EA 1/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.14	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0119 EA 1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.34	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0120 EA 1/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.96	
<i>For >100 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0121 EA 1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.26	
<i>For >100 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0122 EA 1/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.34	
<i>For >100 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0123 5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0105)</small>		
05 05 23 00-0124 EA 5/16" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.76	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0125 EA 5/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.79	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0126 EA 5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.86	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0127 EA 5/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.91	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0128 EA 5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.17	
<i>For >100 To 250, Deduct</i>	-1.35	
<i>For >250 To 500, Deduct</i>	-1.69	
<i>For >500, Deduct</i>	-2.03	

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0129	EA	5/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	7.30	
		<i>For >100 To 250, Deduct</i>	-1.35	
		<i>For >250 To 500, Deduct</i>	-1.69	
		<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0130	EA	5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	7.35	
		<i>For >100 To 250, Deduct</i>	-1.35	
		<i>For >250 To 500, Deduct</i>	-1.69	
		<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0131	EA	5/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	7.66	
		<i>For >100 To 250, Deduct</i>	-1.39	
		<i>For >250 To 500, Deduct</i>	-1.74	
		<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0132	EA	5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	7.85	
		<i>For >100 To 250, Deduct</i>	-1.39	
		<i>For >250 To 500, Deduct</i>	-1.74	
		<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0133	EA	5/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	7.92	
		<i>For >100 To 250, Deduct</i>	-1.39	
		<i>For >250 To 500, Deduct</i>	-1.74	
		<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0134	EA	5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	8.16	
		<i>For >100 To 250, Deduct</i>	-1.43	
		<i>For >250 To 500, Deduct</i>	-1.79	
		<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0135	EA	5/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	8.23	
		<i>For >100 To 250, Deduct</i>	-1.43	
		<i>For >250 To 500, Deduct</i>	-1.79	
		<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0136	EA	5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	8.93	
		<i>For >100 To 250, Deduct</i>	-1.43	
		<i>For >250 To 500, Deduct</i>	-1.79	
		<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0137	EA	5/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.46	
		<i>For >100 To 250, Deduct</i>	-1.47	
		<i>For >250 To 500, Deduct</i>	-1.83	
		<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0138	EA	5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.77	
		<i>For >100 To 250, Deduct</i>	-1.47	
		<i>For >250 To 500, Deduct</i>	-1.83	
		<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0139	EA	5/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.05	
		<i>For >100 To 250, Deduct</i>	-1.47	
		<i>For >250 To 500, Deduct</i>	-1.83	
		<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0140		3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts		
		<small>23 00-0105</small>		
05 05 23 00-0141	EA	3/8" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	6.85	
		<i>For >100 To 250, Deduct</i>	-1.32	
		<i>For >250 To 500, Deduct</i>	-1.65	
		<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0142	EA	3/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	6.88	
		<i>For >100 To 250, Deduct</i>	-1.32	
		<i>For >250 To 500, Deduct</i>	-1.65	
		<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0143	EA	3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	6.97	
		<i>For >100 To 250, Deduct</i>	-1.32	
		<i>For >250 To 500, Deduct</i>	-1.65	
		<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0144	EA	3/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	7.06	
		<i>For >100 To 250, Deduct</i>	-1.32	
		<i>For >250 To 500, Deduct</i>	-1.65	
		<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0145	EA	3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	7.33	
		<i>For >100 To 250, Deduct</i>	-1.35	
		<i>For >250 To 500, Deduct</i>	-1.69	
		<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0146	EA	3/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	7.49	
		<i>For >100 To 250, Deduct</i>	-1.35	
		<i>For >250 To 500, Deduct</i>	-1.69	
		<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0147	EA	3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	7.65	
		<i>For >100 To 250, Deduct</i>	-1.35	
		<i>For >250 To 500, Deduct</i>	-1.69	
		<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0148	EA	3/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	8.00	
		<i>For >100 To 250, Deduct</i>	-1.39	
		<i>For >250 To 500, Deduct</i>	-1.74	
		<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0149	EA	3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	8.21	
		<i>For >100 To 250, Deduct</i>	-1.39	
		<i>For >250 To 500, Deduct</i>	-1.74	
		<i>For >500, Deduct</i>	-2.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0150 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.33	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0151 EA 3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.73	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0152 EA 3/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.85	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0153 EA 3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.93	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0154 EA 3/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.17	
<i>For >100 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0155 EA 3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.30	
<i>For >100 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0156 EA 3/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.49	
<i>For >100 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0157 7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0105)</small>		
05 05 23 00-0158 EA 7/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.18	
<i>For >100 To 250, Deduct</i>	-1.50	
<i>For >250 To 500, Deduct</i>	-1.88	
<i>For >500, Deduct</i>	-2.26	
05 05 23 00-0159 EA 7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.31	
<i>For >100 To 250, Deduct</i>	-1.50	
<i>For >250 To 500, Deduct</i>	-1.88	
<i>For >500, Deduct</i>	-2.26	
05 05 23 00-0160 EA 7/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.33	
<i>For >100 To 250, Deduct</i>	-1.50	
<i>For >250 To 500, Deduct</i>	-1.88	
<i>For >500, Deduct</i>	-2.26	
05 05 23 00-0161 EA 7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.69	
<i>For >100 To 250, Deduct</i>	-1.54	
<i>For >250 To 500, Deduct</i>	-1.93	
<i>For >500, Deduct</i>	-2.31	
05 05 23 00-0162 EA 7/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.89	
<i>For >100 To 250, Deduct</i>	-1.54	
<i>For >250 To 500, Deduct</i>	-1.93	
<i>For >500, Deduct</i>	-2.31	
05 05 23 00-0163 EA 7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.05	
<i>For >100 To 250, Deduct</i>	-1.54	
<i>For >250 To 500, Deduct</i>	-1.93	
<i>For >500, Deduct</i>	-2.31	
05 05 23 00-0164 EA 7/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.66	
<i>For >100 To 250, Deduct</i>	-1.58	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.37	
05 05 23 00-0165 EA 7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.78	
<i>For >100 To 250, Deduct</i>	-1.58	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.37	
05 05 23 00-0166 EA 7/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.02	
<i>For >100 To 250, Deduct</i>	-1.58	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.37	
05 05 23 00-0167 EA 7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.61	
<i>For >100 To 250, Deduct</i>	-1.62	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.43	
05 05 23 00-0168 EA 7/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.73	
<i>For >100 To 250, Deduct</i>	-1.62	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.43	
05 05 23 00-0169 EA 7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.02	
<i>For >100 To 250, Deduct</i>	-1.62	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.43	
05 05 23 00-0170 EA 7/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.33	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0171	EA		7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.60	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0172	EA		7/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.13	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0173			1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0173)</small>		
05 05 23 00-0174	EA		1/2" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	8.07	
			<i>For >100 To 250, Deduct</i>	-1.50	
			<i>For >250 To 500, Deduct</i>	-1.88	
			<i>For >500, Deduct</i>	-2.26	
05 05 23 00-0175	EA		1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	8.23	
			<i>For >100 To 250, Deduct</i>	-1.50	
			<i>For >250 To 500, Deduct</i>	-1.88	
			<i>For >500, Deduct</i>	-2.26	
05 05 23 00-0176	EA		1/2" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	8.39	
			<i>For >100 To 250, Deduct</i>	-1.50	
			<i>For >250 To 500, Deduct</i>	-1.88	
			<i>For >500, Deduct</i>	-2.26	
05 05 23 00-0177	EA		1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	8.74	
			<i>For >100 To 250, Deduct</i>	-1.54	
			<i>For >250 To 500, Deduct</i>	-1.93	
			<i>For >500, Deduct</i>	-2.31	
05 05 23 00-0178	EA		1/2" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	8.91	
			<i>For >100 To 250, Deduct</i>	-1.54	
			<i>For >250 To 500, Deduct</i>	-1.93	
			<i>For >500, Deduct</i>	-2.31	
05 05 23 00-0179	EA		1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.07	
			<i>For >100 To 250, Deduct</i>	-1.54	
			<i>For >250 To 500, Deduct</i>	-1.93	
			<i>For >500, Deduct</i>	-2.31	
05 05 23 00-0180	EA		1/2" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.48	
			<i>For >100 To 250, Deduct</i>	-1.58	
			<i>For >250 To 500, Deduct</i>	-1.97	
			<i>For >500, Deduct</i>	-2.37	
05 05 23 00-0181	EA		1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.66	
			<i>For >100 To 250, Deduct</i>	-1.58	
			<i>For >250 To 500, Deduct</i>	-1.97	
			<i>For >500, Deduct</i>	-2.37	
05 05 23 00-0182	EA		1/2" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.00	
			<i>For >100 To 250, Deduct</i>	-1.58	
			<i>For >250 To 500, Deduct</i>	-1.97	
			<i>For >500, Deduct</i>	-2.37	
05 05 23 00-0183	EA		1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.24	
			<i>For >100 To 250, Deduct</i>	-1.62	
			<i>For >250 To 500, Deduct</i>	-2.02	
			<i>For >500, Deduct</i>	-2.43	
05 05 23 00-0184	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.28	
			<i>For >100 To 250, Deduct</i>	-1.62	
			<i>For >250 To 500, Deduct</i>	-2.02	
			<i>For >500, Deduct</i>	-2.43	
05 05 23 00-0185	EA		1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.55	
			<i>For >100 To 250, Deduct</i>	-1.62	
			<i>For >250 To 500, Deduct</i>	-2.02	
			<i>For >500, Deduct</i>	-2.43	
05 05 23 00-0186	EA		1/2" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.99	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0187	EA		1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.16	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0188	EA		1/2" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.64	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0189	EA		1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.07	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0190	EA		1/2" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.24	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0191	EA		1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.92	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0192 EA 1/2" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	13.11	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0193 9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05)</small>		
<small>23 00-0105</small>		
05 05 23 00-0194 EA 9/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	8.24	
<i>For >100 To 250, Deduct</i>	-1.50	
<i>For >250 To 500, Deduct</i>	-1.88	
<i>For >500, Deduct</i>	-2.26	
05 05 23 00-0195 EA 9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	8.45	
<i>For >100 To 250, Deduct</i>	-1.50	
<i>For >250 To 500, Deduct</i>	-1.88	
<i>For >500, Deduct</i>	-2.26	
05 05 23 00-0196 EA 9/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	8.50	
<i>For >100 To 250, Deduct</i>	-1.50	
<i>For >250 To 500, Deduct</i>	-1.88	
<i>For >500, Deduct</i>	-2.26	
05 05 23 00-0197 EA 9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.39	
<i>For >100 To 250, Deduct</i>	-1.54	
<i>For >250 To 500, Deduct</i>	-1.93	
<i>For >500, Deduct</i>	-2.31	
05 05 23 00-0198 EA 9/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.67	
<i>For >100 To 250, Deduct</i>	-1.54	
<i>For >250 To 500, Deduct</i>	-1.93	
<i>For >500, Deduct</i>	-2.31	
05 05 23 00-0199 EA 9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.77	
<i>For >100 To 250, Deduct</i>	-1.54	
<i>For >250 To 500, Deduct</i>	-1.93	
<i>For >500, Deduct</i>	-2.31	
05 05 23 00-0200 EA 9/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.00	
<i>For >100 To 250, Deduct</i>	-1.58	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.37	
05 05 23 00-0201 EA 9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.06	
<i>For >100 To 250, Deduct</i>	-1.58	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.37	
05 05 23 00-0202 EA 9/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.30	
<i>For >100 To 250, Deduct</i>	-1.58	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.37	
05 05 23 00-0203 EA 9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.55	
<i>For >100 To 250, Deduct</i>	-1.62	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.43	
05 05 23 00-0204 EA 9/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.62	
<i>For >100 To 250, Deduct</i>	-1.62	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.43	
05 05 23 00-0205 EA 9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.83	
<i>For >100 To 250, Deduct</i>	-1.62	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.43	
05 05 23 00-0206 EA 9/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.24	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0207 EA 9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.49	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0208 EA 9/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.75	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0209 EA 9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.16	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0210 EA 9/16" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.46	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0211 EA 9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.66	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0212 EA 9/16" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.96	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.54	

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0213		5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05)</small>		
		<small>23 00-0105</small>		
05 05 23 00-0214	EA	5/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.65	
		<i>For >100 To 250, Deduct</i>	-1.69	
		<i>For >250 To 500, Deduct</i>	-2.12	
		<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0215	EA	5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.79	
		<i>For >100 To 250, Deduct</i>	-1.69	
		<i>For >250 To 500, Deduct</i>	-2.12	
		<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0216	EA	5/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	9.98	
		<i>For >100 To 250, Deduct</i>	-1.69	
		<i>For >250 To 500, Deduct</i>	-2.12	
		<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0217	EA	5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.41	
		<i>For >100 To 250, Deduct</i>	-1.73	
		<i>For >250 To 500, Deduct</i>	-2.16	
		<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0218	EA	5/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.69	
		<i>For >100 To 250, Deduct</i>	-1.73	
		<i>For >250 To 500, Deduct</i>	-2.16	
		<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0219	EA	5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.04	
		<i>For >100 To 250, Deduct</i>	-1.73	
		<i>For >250 To 500, Deduct</i>	-2.16	
		<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0220	EA	5/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	11.67	
		<i>For >100 To 250, Deduct</i>	-1.77	
		<i>For >250 To 500, Deduct</i>	-2.21	
		<i>For >500, Deduct</i>	-2.65	
05 05 23 00-0221	EA	5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.20	
		<i>For >100 To 250, Deduct</i>	-1.77	
		<i>For >250 To 500, Deduct</i>	-2.21	
		<i>For >500, Deduct</i>	-2.65	
05 05 23 00-0222	EA	5/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.61	
		<i>For >100 To 250, Deduct</i>	-1.77	
		<i>For >250 To 500, Deduct</i>	-2.21	
		<i>For >500, Deduct</i>	-2.65	
05 05 23 00-0223	EA	5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.98	
		<i>For >100 To 250, Deduct</i>	-1.80	
		<i>For >250 To 500, Deduct</i>	-2.26	
		<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0224	EA	5/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	13.03	
		<i>For >100 To 250, Deduct</i>	-1.80	
		<i>For >250 To 500, Deduct</i>	-2.26	
		<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0225	EA	5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	13.74	
		<i>For >100 To 250, Deduct</i>	-1.80	
		<i>For >250 To 500, Deduct</i>	-2.26	
		<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0226	EA	5/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	14.32	
		<i>For >100 To 250, Deduct</i>	-1.84	
		<i>For >250 To 500, Deduct</i>	-2.30	
		<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0227	EA	5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	14.88	
		<i>For >100 To 250, Deduct</i>	-1.84	
		<i>For >250 To 500, Deduct</i>	-2.30	
		<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0228	EA	5/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	15.53	
		<i>For >100 To 250, Deduct</i>	-1.84	
		<i>For >250 To 500, Deduct</i>	-2.30	
		<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0229	EA	5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	16.42	
		<i>For >100 To 250, Deduct</i>	-1.88	
		<i>For >250 To 500, Deduct</i>	-2.35	
		<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0230	EA	5/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	17.06	
		<i>For >100 To 250, Deduct</i>	-1.88	
		<i>For >250 To 500, Deduct</i>	-2.35	
		<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0231	EA	5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	17.72	
		<i>For >100 To 250, Deduct</i>	-1.88	
		<i>For >250 To 500, Deduct</i>	-2.35	
		<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0232	EA	5/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	18.22	
		<i>For >100 To 250, Deduct</i>	-1.88	
		<i>For >250 To 500, Deduct</i>	-2.35	
		<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0233		3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05)</small>		
		<small>23 00-0105</small>		
05 05 23 00-0234	EA	3/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	10.13	
		<i>For >100 To 250, Deduct</i>	-1.69	
		<i>For >250 To 500, Deduct</i>	-2.12	
		<i>For >500, Deduct</i>	-2.54	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0235	EA			3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....10.42 <i>For >100 To 250, Deduct</i> -1.69 <i>For >250 To 500, Deduct</i> -2.12 <i>For >500, Deduct</i> -2.54		
05 05 23 00-0236	EA			3/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....10.69 <i>For >100 To 250, Deduct</i> -1.69 <i>For >250 To 500, Deduct</i> -2.12 <i>For >500, Deduct</i> -2.54		
05 05 23 00-0237	EA			3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....11.20 <i>For >100 To 250, Deduct</i> -1.73 <i>For >250 To 500, Deduct</i> -2.16 <i>For >500, Deduct</i> -2.59		
05 05 23 00-0238	EA			3/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....11.61 <i>For >100 To 250, Deduct</i> -1.73 <i>For >250 To 500, Deduct</i> -2.16 <i>For >500, Deduct</i> -2.59		
05 05 23 00-0239	EA			3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....11.97 <i>For >100 To 250, Deduct</i> -1.73 <i>For >250 To 500, Deduct</i> -2.16 <i>For >500, Deduct</i> -2.59		
05 05 23 00-0240	EA			3/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....12.56 <i>For >100 To 250, Deduct</i> -1.77 <i>For >250 To 500, Deduct</i> -2.21 <i>For >500, Deduct</i> -2.65		
05 05 23 00-0241	EA			3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....13.07 <i>For >100 To 250, Deduct</i> -1.77 <i>For >250 To 500, Deduct</i> -2.21 <i>For >500, Deduct</i> -2.65		
05 05 23 00-0242	EA			3/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....13.47 <i>For >100 To 250, Deduct</i> -1.77 <i>For >250 To 500, Deduct</i> -2.21 <i>For >500, Deduct</i> -2.65		
05 05 23 00-0243	EA			3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....14.48 <i>For >100 To 250, Deduct</i> -1.80 <i>For >250 To 500, Deduct</i> -2.26 <i>For >500, Deduct</i> -2.71		
05 05 23 00-0244	EA			3/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....14.82 <i>For >100 To 250, Deduct</i> -1.80 <i>For >250 To 500, Deduct</i> -2.26 <i>For >500, Deduct</i> -2.71		
05 05 23 00-0245	EA			3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....15.44 <i>For >100 To 250, Deduct</i> -1.80 <i>For >250 To 500, Deduct</i> -2.26 <i>For >500, Deduct</i> -2.71		
05 05 23 00-0246	EA			3/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....15.66 <i>For >100 To 250, Deduct</i> -1.84 <i>For >250 To 500, Deduct</i> -2.30 <i>For >500, Deduct</i> -2.76		
05 05 23 00-0247	EA			3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....17.13 <i>For >100 To 250, Deduct</i> -1.84 <i>For >250 To 500, Deduct</i> -2.30 <i>For >500, Deduct</i> -2.76		
05 05 23 00-0248	EA			3/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....17.81 <i>For >100 To 250, Deduct</i> -1.84 <i>For >250 To 500, Deduct</i> -2.30 <i>For >500, Deduct</i> -2.76		
05 05 23 00-0249	EA			3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....18.89 <i>For >100 To 250, Deduct</i> -1.88 <i>For >250 To 500, Deduct</i> -2.35 <i>For >500, Deduct</i> -2.82		
05 05 23 00-0250	EA			3/4" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....19.57 <i>For >100 To 250, Deduct</i> -1.88 <i>For >250 To 500, Deduct</i> -2.35 <i>For >500, Deduct</i> -2.82		
05 05 23 00-0251	EA			3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....20.48 <i>For >100 To 250, Deduct</i> -1.88 <i>For >250 To 500, Deduct</i> -2.35 <i>For >500, Deduct</i> -2.82		
05 05 23 00-0252	EA			3/4" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....21.35 <i>For >100 To 250, Deduct</i> -1.88 <i>For >250 To 500, Deduct</i> -2.35 <i>For >500, Deduct</i> -2.82		
05 05 23 00-0253				7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05) <small>23 00-0105</small>		
05 05 23 00-0254	EA			7/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....12.59 <i>For >100 To 250, Deduct</i> -1.88 <i>For >250 To 500, Deduct</i> -2.35 <i>For >500, Deduct</i> -2.82		
05 05 23 00-0255	EA			7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....12.83 <i>For >100 To 250, Deduct</i> -1.88 <i>For >250 To 500, Deduct</i> -2.35 <i>For >500, Deduct</i> -2.82		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0256	EA		7/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	12.95	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0257	EA		7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	13.48	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0258	EA		7/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	14.15	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0259	EA		7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	14.92	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0260	EA		7/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	15.75	
			<i>For >100 To 250, Deduct</i>	-1.95	
			<i>For >250 To 500, Deduct</i>	-2.44	
			<i>For >500, Deduct</i>	-2.93	
05 05 23 00-0261	EA		7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	16.88	
			<i>For >100 To 250, Deduct</i>	-1.95	
			<i>For >250 To 500, Deduct</i>	-2.44	
			<i>For >500, Deduct</i>	-2.93	
05 05 23 00-0262	EA		7/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	17.51	
			<i>For >100 To 250, Deduct</i>	-1.95	
			<i>For >250 To 500, Deduct</i>	-2.44	
			<i>For >500, Deduct</i>	-2.93	
05 05 23 00-0263	EA		7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	18.19	
			<i>For >100 To 250, Deduct</i>	-1.99	
			<i>For >250 To 500, Deduct</i>	-2.49	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0264	EA		7/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	18.57	
			<i>For >100 To 250, Deduct</i>	-1.99	
			<i>For >250 To 500, Deduct</i>	-2.49	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0265	EA		7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	19.46	
			<i>For >100 To 250, Deduct</i>	-1.99	
			<i>For >250 To 500, Deduct</i>	-2.49	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0266	EA		7/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	20.54	
			<i>For >100 To 250, Deduct</i>	-2.03	
			<i>For >250 To 500, Deduct</i>	-2.54	
			<i>For >500, Deduct</i>	-3.05	
05 05 23 00-0267	EA		7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	21.45	
			<i>For >100 To 250, Deduct</i>	-2.03	
			<i>For >250 To 500, Deduct</i>	-2.54	
			<i>For >500, Deduct</i>	-3.05	
05 05 23 00-0268	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	22.34	
			<i>For >100 To 250, Deduct</i>	-2.03	
			<i>For >250 To 500, Deduct</i>	-2.54	
			<i>For >500, Deduct</i>	-3.05	
05 05 23 00-0269	EA		7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	23.36	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0270	EA		7/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	24.31	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0271	EA		7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	25.17	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0272	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	26.11	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0273			1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-</small>		
			<small>0105)</small>		
05 05 23 00-0274	EA		1" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	13.68	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0275	EA		1" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	15.32	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0276	EA		1" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	16.55	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0277 EA 1" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	17.84	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0278 EA 1" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	19.01	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0279 EA 1" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	20.40	
<i>For >100 To 250, Deduct</i>	-1.95	
<i>For >250 To 500, Deduct</i>	-2.44	
<i>For >500, Deduct</i>	-2.93	
05 05 23 00-0280 EA 1" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	21.53	
<i>For >100 To 250, Deduct</i>	-1.95	
<i>For >250 To 500, Deduct</i>	-2.44	
<i>For >500, Deduct</i>	-2.93	
05 05 23 00-0281 EA 1" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	22.71	
<i>For >100 To 250, Deduct</i>	-1.95	
<i>For >250 To 500, Deduct</i>	-2.44	
<i>For >500, Deduct</i>	-2.93	
05 05 23 00-0282 EA 1" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	23.48	
<i>For >100 To 250, Deduct</i>	-1.99	
<i>For >250 To 500, Deduct</i>	-2.49	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0283 EA 1" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	24.04	
<i>For >100 To 250, Deduct</i>	-1.99	
<i>For >250 To 500, Deduct</i>	-2.49	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0284 EA 1" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	25.03	
<i>For >100 To 250, Deduct</i>	-1.99	
<i>For >250 To 500, Deduct</i>	-2.49	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0285 EA 1" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	26.21	
<i>For >100 To 250, Deduct</i>	-2.03	
<i>For >250 To 500, Deduct</i>	-2.54	
<i>For >500, Deduct</i>	-3.05	
05 05 23 00-0286 EA 1" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	27.18	
<i>For >100 To 250, Deduct</i>	-2.03	
<i>For >250 To 500, Deduct</i>	-2.54	
<i>For >500, Deduct</i>	-3.05	
05 05 23 00-0287 EA 1" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	28.19	
<i>For >100 To 250, Deduct</i>	-2.03	
<i>For >250 To 500, Deduct</i>	-2.54	
<i>For >500, Deduct</i>	-3.05	
05 05 23 00-0288 EA 1" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	29.18	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0289 EA 1" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	30.33	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0290 EA 1" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	31.34	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0291 EA 1" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	32.37	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0292 Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0104)</small>		
05 05 23 00-0293 1/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0292)</small>		
05 05 23 00-0294 EA 1/4" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.75	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0295 EA 1/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.80	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0296 EA 1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.84	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0297 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.93	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0298 EA 1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.21	
<i>For >100 To 250, Deduct</i>	-1.35	
<i>For >250 To 500, Deduct</i>	-1.69	
<i>For >500, Deduct</i>	-2.03	

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0299	EA	1/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.36	
		<i>For >100 To 250, Deduct</i>	-1.35	
		<i>For >250 To 500, Deduct</i>	-1.69	
		<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0300	EA	1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.53	
		<i>For >100 To 250, Deduct</i>	-1.35	
		<i>For >250 To 500, Deduct</i>	-1.69	
		<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0301	EA	1/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.85	
		<i>For >100 To 250, Deduct</i>	-1.39	
		<i>For >250 To 500, Deduct</i>	-1.74	
		<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0302	EA	1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.06	
		<i>For >100 To 250, Deduct</i>	-1.39	
		<i>For >250 To 500, Deduct</i>	-1.74	
		<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0303	EA	1/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.20	
		<i>For >100 To 250, Deduct</i>	-1.39	
		<i>For >250 To 500, Deduct</i>	-1.74	
		<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0304	EA	1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.53	
		<i>For >100 To 250, Deduct</i>	-1.43	
		<i>For >250 To 500, Deduct</i>	-1.79	
		<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0305	EA	1/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.66	
		<i>For >100 To 250, Deduct</i>	-1.43	
		<i>For >250 To 500, Deduct</i>	-1.79	
		<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0306	EA	1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.79	
		<i>For >100 To 250, Deduct</i>	-1.43	
		<i>For >250 To 500, Deduct</i>	-1.79	
		<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0307	EA	1/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.16	
		<i>For >100 To 250, Deduct</i>	-1.47	
		<i>For >250 To 500, Deduct</i>	-1.83	
		<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0308	EA	1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.34	
		<i>For >100 To 250, Deduct</i>	-1.47	
		<i>For >250 To 500, Deduct</i>	-1.83	
		<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0309	EA	1/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.53	
		<i>For >100 To 250, Deduct</i>	-1.47	
		<i>For >250 To 500, Deduct</i>	-1.83	
		<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0310		5/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0292)</small>		
05 05 23 00-0311	EA	5/16" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.85	
		<i>For >100 To 250, Deduct</i>	-1.32	
		<i>For >250 To 500, Deduct</i>	-1.65	
		<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0312	EA	5/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.89	
		<i>For >100 To 250, Deduct</i>	-1.32	
		<i>For >250 To 500, Deduct</i>	-1.65	
		<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0313	EA	5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.95	
		<i>For >100 To 250, Deduct</i>	-1.32	
		<i>For >250 To 500, Deduct</i>	-1.65	
		<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0314	EA	5/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.07	
		<i>For >100 To 250, Deduct</i>	-1.32	
		<i>For >250 To 500, Deduct</i>	-1.65	
		<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0315	EA	5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.34	
		<i>For >100 To 250, Deduct</i>	-1.35	
		<i>For >250 To 500, Deduct</i>	-1.69	
		<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0316	EA	5/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.49	
		<i>For >100 To 250, Deduct</i>	-1.35	
		<i>For >250 To 500, Deduct</i>	-1.69	
		<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0317	EA	5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.75	
		<i>For >100 To 250, Deduct</i>	-1.35	
		<i>For >250 To 500, Deduct</i>	-1.69	
		<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0318	EA	5/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.07	
		<i>For >100 To 250, Deduct</i>	-1.39	
		<i>For >250 To 500, Deduct</i>	-1.74	
		<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0319	EA	5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.27	
		<i>For >100 To 250, Deduct</i>	-1.39	
		<i>For >250 To 500, Deduct</i>	-1.74	
		<i>For >500, Deduct</i>	-2.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0320 EA 5/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.47	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0321 EA 5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.02	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0322 EA 5/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.09	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0323 EA 5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.34	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0324 EA 5/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.86	
<i>For >100 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0325 EA 5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.21	
<i>For >100 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0326 EA 5/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.54	
<i>For >100 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.20	
 05 05 23 00-0327 3/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0292)</small>		
05 05 23 00-0328 EA 3/8" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.91	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0329 EA 3/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.94	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0330 EA 3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.05	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0331 EA 3/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.18	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0332 EA 3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.50	
<i>For >100 To 250, Deduct</i>	-1.35	
<i>For >250 To 500, Deduct</i>	-1.69	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0333 EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.65	
<i>For >100 To 250, Deduct</i>	-1.35	
<i>For >250 To 500, Deduct</i>	-1.69	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0334 EA 3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.87	
<i>For >100 To 250, Deduct</i>	-1.35	
<i>For >250 To 500, Deduct</i>	-1.69	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0335 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.31	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0336 EA 3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.84	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0337 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.08	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0338 EA 3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.58	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0339 EA 3/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.80	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0340 EA 3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.20	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0341 EA 3/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.69	
For >100 To 250, Deduct	-1.47	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-0342 EA 3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.22	
For >100 To 250, Deduct	-1.47	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-0343 EA 3/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.65	
For >100 To 250, Deduct	-1.47	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-0344 7/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0292)		
05 05 23 00-0345 EA 7/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.09	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.26	
05 05 23 00-0346 EA 7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.20	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.26	
05 05 23 00-0347 EA 7/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.47	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.26	
05 05 23 00-0348 EA 7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.86	
For >100 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-1.93	
For >500, Deduct	-2.31	
05 05 23 00-0349 EA 7/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.06	
For >100 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-1.93	
For >500, Deduct	-2.31	
05 05 23 00-0350 EA 7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.25	
For >100 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-1.93	
For >500, Deduct	-2.31	
05 05 23 00-0351 EA 7/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.68	
For >100 To 250, Deduct	-1.58	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.37	
05 05 23 00-0352 EA 7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.73	
For >100 To 250, Deduct	-1.58	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.37	
05 05 23 00-0353 EA 7/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.19	
For >100 To 250, Deduct	-1.58	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.37	
05 05 23 00-0354 EA 7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.54	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.43	
05 05 23 00-0355 EA 7/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.75	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.43	
05 05 23 00-0356 EA 7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.98	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.43	
05 05 23 00-0357 EA 7/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.47	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.48	
05 05 23 00-0358 EA 7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.77	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.48	
05 05 23 00-0359 EA 7/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.08	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.48	
05 05 23 00-0360 1/2" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0292)		
05 05 23 00-0361 EA 1/2" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.23	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0362 EA 1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	8.38 -1.50 -1.88 -2.26	
05 05 23 00-0363 EA 1/2" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	8.53 -1.50 -1.88 -2.26	
05 05 23 00-0364 EA 1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	8.97 -1.54 -1.93 -2.31	
05 05 23 00-0365 EA 1/2" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.21 -1.54 -1.93 -2.31	
05 05 23 00-0366 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.46 -1.54 -1.93 -2.31	
05 05 23 00-0367 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.88 -1.58 -1.97 -2.37	
05 05 23 00-0368 EA 1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.70 -1.58 -1.97 -2.37	
05 05 23 00-0369 EA 1/2" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.75 -1.58 -1.97 -2.37	
05 05 23 00-0370 EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.51 -1.62 -2.02 -2.43	
05 05 23 00-0371 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.83 -1.62 -2.02 -2.43	
05 05 23 00-0372 EA 1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	12.66 -1.62 -2.02 -2.43	
05 05 23 00-0373 EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	13.59 -1.65 -2.07 -2.48	
05 05 23 00-0374 EA 1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	14.05 -1.65 -2.07 -2.48	
05 05 23 00-0375 EA 1/2" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	14.23 -1.65 -2.07 -2.48	
05 05 23 00-0376 EA 1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	15.27 -1.69 -2.12 -2.54	
05 05 23 00-0377 EA 1/2" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	16.08 -1.69 -2.12 -2.54	
05 05 23 00-0378 EA 1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	17.23 -1.69 -2.12 -2.54	
05 05 23 00-0379 EA 1/2" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	17.67 -1.69 -2.12 -2.54	
05 05 23 00-0380 9/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0292)</small>		
05 05 23 00-0381 EA 9/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	8.68 -1.50 -1.88 -2.26	
05 05 23 00-0382 EA 9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	8.95 -1.50 -1.88 -2.26	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0383 EA 9/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.19	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.26	
05 05 23 00-0384 EA 9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.63	
For >100 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-1.93	
For >500, Deduct	-2.31	
05 05 23 00-0385 EA 9/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.96	
For >100 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-1.93	
For >500, Deduct	-2.31	
05 05 23 00-0386 EA 9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.34	
For >100 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-1.93	
For >500, Deduct	-2.31	
05 05 23 00-0387 EA 9/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.95	
For >100 To 250, Deduct	-1.58	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.37	
05 05 23 00-0388 EA 9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.39	
For >100 To 250, Deduct	-1.58	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.37	
05 05 23 00-0389 EA 9/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.77	
For >100 To 250, Deduct	-1.58	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.37	
05 05 23 00-0390 EA 9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.38	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.43	
05 05 23 00-0391 EA 9/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.78	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.43	
05 05 23 00-0392 EA 9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.11	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.43	
05 05 23 00-0393 EA 9/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.93	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.48	
05 05 23 00-0394 EA 9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.48	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.48	
05 05 23 00-0395 EA 9/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.40	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.48	
05 05 23 00-0396 EA 9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.45	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0397 EA 9/16" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.79	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0398 EA 9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.12	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0399 EA 9/16" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.94	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0400 5/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0292)		
05 05 23 00-0401 EA 5/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.90	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0402 EA 5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.99	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0403 EA 5/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.07	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0404 EA 5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.51 -1.73 -2.16 -2.59	
05 05 23 00-0405 EA 5/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.94 -1.73 -2.16 -2.59	
05 05 23 00-0406 EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.34 -1.73 -2.16 -2.59	
05 05 23 00-0407 EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.95 -1.77 -2.21 -2.65	
05 05 23 00-0408 EA 5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	12.72 -1.77 -2.21 -2.65	
05 05 23 00-0409 EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	13.13 -1.77 -2.21 -2.65	
05 05 23 00-0410 EA 5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	13.54 -1.80 -2.26 -2.71	
05 05 23 00-0411 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	14.20 -1.80 -2.26 -2.71	
05 05 23 00-0412 EA 5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	15.26 -1.80 -2.26 -2.71	
05 05 23 00-0413 EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	16.39 -1.84 -2.30 -2.76	
05 05 23 00-0414 EA 5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	17.26 -1.84 -2.30 -2.76	
05 05 23 00-0415 EA 5/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	17.39 -1.84 -2.30 -2.76	
05 05 23 00-0416 EA 5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	19.16 -1.88 -2.35 -2.82	
05 05 23 00-0417 EA 5/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	20.33 -1.88 -2.35 -2.82	
05 05 23 00-0418 EA 5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	22.05 -1.88 -2.35 -2.82	
05 05 23 00-0419 EA 5/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	22.65 -1.88 -2.35 -2.82	
05 05 23 00-0420 3/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0292)</small>		
05 05 23 00-0421 EA 3/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.88 -1.69 -2.12 -2.54	
05 05 23 00-0422 EA 3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.06 -1.69 -2.12 -2.54	
05 05 23 00-0423 EA 3/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.15 -1.69 -2.12 -2.54	
05 05 23 00-0424 EA 3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.70 -1.73 -2.16 -2.59	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0425	EA		3/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.14	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0426	EA		3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.81	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0427	EA		3/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.45	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.65	
05 05 23 00-0428	EA		3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.88	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.65	
05 05 23 00-0429	EA		3/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.79	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.65	
05 05 23 00-0430	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.39	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.26	
			<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0431	EA		3/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.13	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.26	
			<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0432	EA		3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.04	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.26	
			<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0433	EA		3/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.51	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0434	EA		3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.46	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0435	EA		3/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.99	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0436	EA		3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.59	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0437	EA		3/4" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	22.07	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0438	EA		3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	23.63	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0439	EA		3/4" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	24.02	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0440			7/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0292)	13.05	
	EA		7/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.05	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0442	EA		7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.27	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0443	EA		7/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.56	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0444	EA		7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.05	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0445	EA		7/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.93	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0446 EA 7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	15.52 -1.92 -2.40 -2.88	
05 05 23 00-0447 EA 7/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	16.14 -1.95 -2.44 -2.93	
05 05 23 00-0448 EA 7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	17.18 -1.95 -2.44 -2.93	
05 05 23 00-0449 EA 7/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	17.96 -1.95 -2.44 -2.93	
05 05 23 00-0450 EA 7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	18.53 -1.99 -2.49 -2.99	
05 05 23 00-0451 EA 7/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	19.18 -1.99 -2.49 -2.99	
05 05 23 00-0452 EA 7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	21.98 -1.99 -2.49 -2.99	
05 05 23 00-0453 EA 7/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	23.17 -2.03 -2.54 -3.05	
05 05 23 00-0454 EA 7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	24.39 -2.03 -2.54 -3.05	
05 05 23 00-0455 EA 7/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	24.47 -2.03 -2.54 -3.05	
05 05 23 00-0456 EA 7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	26.43 -2.07 -2.58 -3.10	
05 05 23 00-0457 EA 7/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	27.62 -2.07 -2.58 -3.10	
05 05 23 00-0458 EA 7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	28.65 -2.07 -2.58 -3.10	
05 05 23 00-0459 EA 7/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	29.68 -2.07 -2.58 -3.10	
05 05 23 00-0460 1" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0292)</small>		
05 05 23 00-0461 EA 1" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	15.01 -1.88 -2.35 -2.82	
05 05 23 00-0462 EA 1" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	15.08 -1.88 -2.35 -2.82	
05 05 23 00-0463 EA 1" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	15.93 -1.92 -2.40 -2.88	
05 05 23 00-0464 EA 1" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	16.78 -1.92 -2.40 -2.88	
05 05 23 00-0465 EA 1" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	17.41 -1.92 -2.40 -2.88	
05 05 23 00-0466 EA 1" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	18.39 -1.95 -2.44 -2.93	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0467 EA 1" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.39	
For >100 To 250, Deduct	-1.95	
For >250 To 500, Deduct	-2.44	
For >500, Deduct	-2.93	
05 05 23 00-0468 EA 1" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.84	
For >100 To 250, Deduct	-1.95	
For >250 To 500, Deduct	-2.44	
For >500, Deduct	-2.93	
05 05 23 00-0469 EA 1" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	22.07	
For >100 To 250, Deduct	-1.99	
For >250 To 500, Deduct	-2.49	
For >500, Deduct	-2.99	
05 05 23 00-0470 EA 1" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	22.38	
For >100 To 250, Deduct	-1.99	
For >250 To 500, Deduct	-2.49	
For >500, Deduct	-2.99	
05 05 23 00-0471 EA 1" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	24.40	
For >100 To 250, Deduct	-1.99	
For >250 To 500, Deduct	-2.49	
For >500, Deduct	-2.99	
05 05 23 00-0472 EA 1" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	25.90	
For >100 To 250, Deduct	-2.03	
For >250 To 500, Deduct	-2.54	
For >500, Deduct	-3.05	
05 05 23 00-0473 EA 1" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	28.06	
For >100 To 250, Deduct	-2.03	
For >250 To 500, Deduct	-2.54	
For >500, Deduct	-3.05	
05 05 23 00-0474 EA 1" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	28.67	
For >100 To 250, Deduct	-2.03	
For >250 To 500, Deduct	-2.54	
For >500, Deduct	-3.05	
05 05 23 00-0475 EA 1" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	35.77	
For >100 To 250, Deduct	-2.07	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.10	
05 05 23 00-0476 EA 1" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	36.31	
For >100 To 250, Deduct	-2.07	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.10	
05 05 23 00-0477 EA 1" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	37.79	
For >100 To 250, Deduct	-2.07	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.10	
05 05 23 00-0478 EA 1" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	38.80	
For >100 To 250, Deduct	-2.07	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.10	
05 05 23 00-0479 Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0104)		
05 05 23 00-0480 1/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)		
05 05 23 00-0481 EA 1/4" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	6.77	
For >100 To 250, Deduct	-1.32	
For >250 To 500, Deduct	-1.65	
For >500, Deduct	-1.97	
05 05 23 00-0482 EA 1/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	6.88	
For >100 To 250, Deduct	-1.32	
For >250 To 500, Deduct	-1.65	
For >500, Deduct	-1.97	
05 05 23 00-0483 EA 1/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	6.93	
For >100 To 250, Deduct	-1.32	
For >250 To 500, Deduct	-1.65	
For >500, Deduct	-1.97	
05 05 23 00-0484 EA 1/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	7.04	
For >100 To 250, Deduct	-1.32	
For >250 To 500, Deduct	-1.65	
For >500, Deduct	-1.97	
05 05 23 00-0485 EA 1/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	7.30	
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-1.69	
For >500, Deduct	-2.03	
05 05 23 00-0486 EA 1/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	7.42	
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-1.69	
For >500, Deduct	-2.03	
05 05 23 00-0487 EA 1/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	7.54	
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-1.69	
For >500, Deduct	-2.03	
05 05 23 00-0488 EA 1/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	7.73	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.74	
For >500, Deduct	-2.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0489 EA 1/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.07	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0490 EA 1/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.39	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0491 EA 1/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.73	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0492 EA 1/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.90	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0493 EA 1/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.11	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0494 EA 1/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.45	
<i>For >100 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0495 EA 1/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.86	
<i>For >100 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0496 EA 1/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.05	
<i>For >100 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0497 5/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0479)</small>		
05 05 23 00-0498 EA 5/16" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.86	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0499 EA 5/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.93	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0500 EA 5/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.13	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0501 EA 5/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.17	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0502 EA 5/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.47	
<i>For >100 To 250, Deduct</i>	-1.35	
<i>For >250 To 500, Deduct</i>	-1.69	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0503 EA 5/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.76	
<i>For >100 To 250, Deduct</i>	-1.35	
<i>For >250 To 500, Deduct</i>	-1.69	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0504 EA 5/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.85	
<i>For >100 To 250, Deduct</i>	-1.35	
<i>For >250 To 500, Deduct</i>	-1.69	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0505 EA 5/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.21	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0506 EA 5/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.40	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0507 EA 5/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.83	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0508 EA 5/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.26	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0509 EA 5/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.42	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0510	EA		5/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.67	
			<i>For >100 To 250, Deduct</i>	-1.43	
			<i>For >250 To 500, Deduct</i>	-1.79	
			<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0511	EA		5/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.03	
			<i>For >100 To 250, Deduct</i>	-1.47	
			<i>For >250 To 500, Deduct</i>	-1.83	
			<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0512	EA		5/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.22	
			<i>For >100 To 250, Deduct</i>	-1.47	
			<i>For >250 To 500, Deduct</i>	-1.83	
			<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0513	EA		5/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.58	
			<i>For >100 To 250, Deduct</i>	-1.47	
			<i>For >250 To 500, Deduct</i>	-1.83	
			<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0514			3/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)		
05 05 23 00-0515	EA		3/8" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.08	
			<i>For >100 To 250, Deduct</i>	-1.32	
			<i>For >250 To 500, Deduct</i>	-1.65	
			<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0516	EA		3/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.10	
			<i>For >100 To 250, Deduct</i>	-1.32	
			<i>For >250 To 500, Deduct</i>	-1.65	
			<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0517	EA		3/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.11	
			<i>For >100 To 250, Deduct</i>	-1.32	
			<i>For >250 To 500, Deduct</i>	-1.65	
			<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0518	EA		3/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.35	
			<i>For >100 To 250, Deduct</i>	-1.32	
			<i>For >250 To 500, Deduct</i>	-1.65	
			<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0519	EA		3/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.67	
			<i>For >100 To 250, Deduct</i>	-1.35	
			<i>For >250 To 500, Deduct</i>	-1.69	
			<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0520	EA		3/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.91	
			<i>For >100 To 250, Deduct</i>	-1.35	
			<i>For >250 To 500, Deduct</i>	-1.69	
			<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0521	EA		3/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.12	
			<i>For >100 To 250, Deduct</i>	-1.35	
			<i>For >250 To 500, Deduct</i>	-1.69	
			<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0522	EA		3/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.97	
			<i>For >100 To 250, Deduct</i>	-1.39	
			<i>For >250 To 500, Deduct</i>	-1.74	
			<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0523	EA		3/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.24	
			<i>For >100 To 250, Deduct</i>	-1.39	
			<i>For >250 To 500, Deduct</i>	-1.74	
			<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0524	EA		3/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.29	
			<i>For >100 To 250, Deduct</i>	-1.39	
			<i>For >250 To 500, Deduct</i>	-1.74	
			<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0525	EA		3/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.58	
			<i>For >100 To 250, Deduct</i>	-1.43	
			<i>For >250 To 500, Deduct</i>	-1.79	
			<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0526	EA		3/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.87	
			<i>For >100 To 250, Deduct</i>	-1.43	
			<i>For >250 To 500, Deduct</i>	-1.79	
			<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0527	EA		3/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.18	
			<i>For >100 To 250, Deduct</i>	-1.43	
			<i>For >250 To 500, Deduct</i>	-1.79	
			<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0528	EA		3/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.67	
			<i>For >100 To 250, Deduct</i>	-1.47	
			<i>For >250 To 500, Deduct</i>	-1.83	
			<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0529	EA		3/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.26	
			<i>For >100 To 250, Deduct</i>	-1.47	
			<i>For >250 To 500, Deduct</i>	-1.83	
			<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0530	EA		3/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.63	
			<i>For >100 To 250, Deduct</i>	-1.47	
			<i>For >250 To 500, Deduct</i>	-1.83	
			<i>For >500, Deduct</i>	-2.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0531 7/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0479)</small>		
05 05 23 00-0532 EA 7/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.24	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.26	
05 05 23 00-0533 EA 7/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.28	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.26	
05 05 23 00-0534 EA 7/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.65	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.26	
05 05 23 00-0535 EA 7/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.86	
For >100 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-1.93	
For >500, Deduct	-2.31	
05 05 23 00-0536 EA 7/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.27	
For >100 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-1.93	
For >500, Deduct	-2.31	
05 05 23 00-0537 EA 7/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.50	
For >100 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-1.93	
For >500, Deduct	-2.31	
05 05 23 00-0538 EA 7/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.73	
For >100 To 250, Deduct	-1.58	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.37	
05 05 23 00-0539 EA 7/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.65	
For >100 To 250, Deduct	-1.58	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.37	
05 05 23 00-0540 EA 7/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.37	
For >100 To 250, Deduct	-1.58	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.37	
05 05 23 00-0541 EA 7/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.05	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.43	
05 05 23 00-0542 EA 7/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.30	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.43	
05 05 23 00-0543 EA 7/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.67	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.43	
05 05 23 00-0544 EA 7/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.41	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.48	
05 05 23 00-0545 EA 7/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.63	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.48	
05 05 23 00-0546 EA 7/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.72	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.48	
05 05 23 00-0547 1/2" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0479)</small>		
05 05 23 00-0548 EA 1/2" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.48	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.26	
05 05 23 00-0549 EA 1/2" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.75	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.26	
05 05 23 00-0550 EA 1/2" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.92	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.26	
05 05 23 00-0551 EA 1/2" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.27	
For >100 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-1.93	
For >500, Deduct	-2.31	
05 05 23 00-0552 EA 1/2" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.57	
For >100 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-1.93	
For >500, Deduct	-2.31	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0553 EA 1/2" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.23	
For >100 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-1.93	
For >500, Deduct	-2.31	
05 05 23 00-0554 EA 1/2" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.89	
For >100 To 250, Deduct	-1.58	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.37	
05 05 23 00-0555 EA 1/2" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.27	
For >100 To 250, Deduct	-1.58	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.37	
05 05 23 00-0556 EA 1/2" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.55	
For >100 To 250, Deduct	-1.58	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.37	
05 05 23 00-0557 EA 1/2" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.23	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.43	
05 05 23 00-0558 EA 1/2" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.07	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.43	
05 05 23 00-0559 EA 1/2" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.85	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.43	
05 05 23 00-0560 EA 1/2" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.69	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.48	
05 05 23 00-0561 EA 1/2" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.04	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.48	
05 05 23 00-0562 EA 1/2" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.00	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.48	
05 05 23 00-0563 EA 1/2" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.79	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0564 EA 1/2" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.48	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0565 EA 1/2" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.84	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0566 EA 1/2" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.56	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0567 9/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)		
05 05 23 00-0568 EA 9/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.73	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.26	
05 05 23 00-0569 EA 9/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.89	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.26	
05 05 23 00-0570 EA 9/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.27	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.26	
05 05 23 00-0571 EA 9/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.99	
For >100 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-1.93	
For >500, Deduct	-2.31	
05 05 23 00-0572 EA 9/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.12	
For >100 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-1.93	
For >500, Deduct	-2.31	
05 05 23 00-0573 EA 9/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.67	
For >100 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-1.93	
For >500, Deduct	-2.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0574 EA 9/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.22	
<i>For >100 To 250, Deduct</i>	-1.58	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.37	
05 05 23 00-0575 EA 9/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.01	
<i>For >100 To 250, Deduct</i>	-1.58	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.37	
05 05 23 00-0576 EA 9/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.35	
<i>For >100 To 250, Deduct</i>	-1.58	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.37	
05 05 23 00-0577 EA 9/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.83	
<i>For >100 To 250, Deduct</i>	-1.62	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.43	
05 05 23 00-0578 EA 9/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.61	
<i>For >100 To 250, Deduct</i>	-1.62	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.43	
05 05 23 00-0579 EA 9/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.72	
<i>For >100 To 250, Deduct</i>	-1.62	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.43	
05 05 23 00-0580 EA 9/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.13	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0581 EA 9/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	25.35	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0582 EA 9/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	29.95	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0583 5/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0479)</small>		
05 05 23 00-0584 EA 5/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.25	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0585 EA 5/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.41	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0586 EA 5/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.82	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0587 EA 5/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.60	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0588 EA 5/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.09	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0589 EA 5/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.36	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0590 EA 5/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.73	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.65	
05 05 23 00-0591 EA 5/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.61	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.65	
05 05 23 00-0592 EA 5/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.00	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.65	
05 05 23 00-0593 EA 5/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.60	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.26	
<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0594 EA 5/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.02	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.26	
<i>For >500, Deduct</i>	-2.71	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0595	EA		5/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.88	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.26	
			<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0596	EA		5/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.11	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0597	EA		5/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.10	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0598	EA		5/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.51	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0599	EA		5/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.45	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0600	EA		5/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.38	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0601	EA		5/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.53	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0602	EA		5/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	25.33	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0603			3/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0479)</small>		
05 05 23 00-0604	EA		3/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.16	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0605	EA		3/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.34	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0606	EA		3/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.46	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0607	EA		3/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.89	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0608	EA		3/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.25	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0609	EA		3/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.30	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0610	EA		3/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.93	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.65	
05 05 23 00-0611	EA		3/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.03	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.65	
05 05 23 00-0612	EA		3/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.45	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.65	
05 05 23 00-0613	EA		3/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.16	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.26	
			<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0614	EA		3/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.91	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.26	
			<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0615	EA		3/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.31	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.26	
			<i>For >500, Deduct</i>	-2.71	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0616 EA 3/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.19	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0617 EA 3/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.94	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0618 EA 3/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.32	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0619 EA 3/4" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.35	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0620 EA 3/4" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	24.71	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0621 EA 3/4" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	25.68	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0622 EA 3/4" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	26.04	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0623 7/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)		
05 05 23 00-0624 EA 7/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.63	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0625 EA 7/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.09	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0626 EA 7/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.97	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0627 EA 7/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.36	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0628 EA 7/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.52	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0629 EA 7/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.99	
<i>For >100 To 250, Deduct</i>	-1.95	
<i>For >250 To 500, Deduct</i>	-2.44	
<i>For >500, Deduct</i>	-2.93	
05 05 23 00-0630 EA 7/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.33	
<i>For >100 To 250, Deduct</i>	-1.95	
<i>For >250 To 500, Deduct</i>	-2.44	
<i>For >500, Deduct</i>	-2.93	
05 05 23 00-0631 EA 7/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.19	
<i>For >100 To 250, Deduct</i>	-1.95	
<i>For >250 To 500, Deduct</i>	-2.44	
<i>For >500, Deduct</i>	-2.93	
05 05 23 00-0632 EA 7/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	24.36	
<i>For >100 To 250, Deduct</i>	-1.99	
<i>For >250 To 500, Deduct</i>	-2.49	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0633 EA 7/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	25.62	
<i>For >100 To 250, Deduct</i>	-1.99	
<i>For >250 To 500, Deduct</i>	-2.49	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0634 EA 7/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	28.85	
<i>For >100 To 250, Deduct</i>	-1.99	
<i>For >250 To 500, Deduct</i>	-2.49	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0635 EA 7/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	30.12	
<i>For >100 To 250, Deduct</i>	-2.03	
<i>For >250 To 500, Deduct</i>	-2.54	
<i>For >500, Deduct</i>	-3.05	
05 05 23 00-0636 EA 7/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	33.45	
<i>For >100 To 250, Deduct</i>	-2.03	
<i>For >250 To 500, Deduct</i>	-2.54	
<i>For >500, Deduct</i>	-3.05	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0637	EA		7/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	34.80	
			<i>For >100 To 250, Deduct</i>	-2.03	
			<i>For >250 To 500, Deduct</i>	-2.54	
			<i>For >500, Deduct</i>	-3.05	
05 05 23 00-0638	EA		7/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	36.06	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0639	EA		7/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	36.44	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0640	EA		7/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	36.78	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0641	EA		7/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	37.58	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0642			1" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)		
05 05 23 00-0643	EA		1" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.95	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0644	EA		1" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.10	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0645	EA		1" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.81	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0646	EA		1" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.68	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0647	EA		1" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.30	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0648	EA		1" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.91	
			<i>For >100 To 250, Deduct</i>	-1.95	
			<i>For >250 To 500, Deduct</i>	-2.44	
			<i>For >500, Deduct</i>	-2.93	
05 05 23 00-0649	EA		1" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.31	
			<i>For >100 To 250, Deduct</i>	-1.95	
			<i>For >250 To 500, Deduct</i>	-2.44	
			<i>For >500, Deduct</i>	-2.93	
05 05 23 00-0650	EA		1" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	24.17	
			<i>For >100 To 250, Deduct</i>	-1.95	
			<i>For >250 To 500, Deduct</i>	-2.44	
			<i>For >500, Deduct</i>	-2.93	
05 05 23 00-0651	EA		1" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	25.24	
			<i>For >100 To 250, Deduct</i>	-1.99	
			<i>For >250 To 500, Deduct</i>	-2.49	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0652	EA		1" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	26.03	
			<i>For >100 To 250, Deduct</i>	-1.99	
			<i>For >250 To 500, Deduct</i>	-2.49	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0653	EA		1" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	29.93	
			<i>For >100 To 250, Deduct</i>	-1.99	
			<i>For >250 To 500, Deduct</i>	-2.49	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0654	EA		1" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	30.72	
			<i>For >100 To 250, Deduct</i>	-2.03	
			<i>For >250 To 500, Deduct</i>	-2.54	
			<i>For >500, Deduct</i>	-3.05	
05 05 23 00-0655	EA		1" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	35.13	
			<i>For >100 To 250, Deduct</i>	-2.03	
			<i>For >250 To 500, Deduct</i>	-2.54	
			<i>For >500, Deduct</i>	-3.05	
05 05 23 00-0656	EA		1" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	35.89	
			<i>For >100 To 250, Deduct</i>	-2.03	
			<i>For >250 To 500, Deduct</i>	-2.54	
			<i>For >500, Deduct</i>	-3.05	
05 05 23 00-0657	EA		1" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	38.42	
			<i>For >100 To 250, Deduct</i>	-2.07	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0658 EA 1" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	39.70	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0659 EA 1" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	43.05	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0660 EA 1" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	45.11	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0661 Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0104)</small>		
05 05 23 00-0662 1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small>		
05 05 23 00-0663 EA 1/4" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	6.91	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0664 EA 1/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	6.93	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0665 EA 1/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	6.95	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0666 EA 1/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	7.19	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0667 EA 1/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	7.50	
<i>For >100 To 250, Deduct</i>	-1.35	
<i>For >250 To 500, Deduct</i>	-1.69	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0668 EA 1/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	7.64	
<i>For >100 To 250, Deduct</i>	-1.35	
<i>For >250 To 500, Deduct</i>	-1.69	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0669 EA 1/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	7.69	
<i>For >100 To 250, Deduct</i>	-1.35	
<i>For >250 To 500, Deduct</i>	-1.69	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0670 EA 1/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	7.90	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0671 EA 1/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	8.07	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0672 EA 1/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	8.11	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0673 EA 1/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	8.41	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0674 EA 1/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	8.55	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0675 EA 1/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	8.61	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0676 EA 1/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	8.93	
<i>For >100 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0677 EA 1/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.33	
<i>For >100 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0678 EA 1/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.83	
<i>For >100 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.20	

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0679		5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0661)		
05 05 23 00-0680	EA	5/16" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	6.81	
		For >100 To 250, Deduct	-1.32	
		For >250 To 500, Deduct	-1.65	
		For >500, Deduct	-1.97	
05 05 23 00-0681	EA	5/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	7.26	
		For >100 To 250, Deduct	-1.32	
		For >250 To 500, Deduct	-1.65	
		For >500, Deduct	-1.97	
05 05 23 00-0682	EA	5/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	7.31	
		For >100 To 250, Deduct	-1.32	
		For >250 To 500, Deduct	-1.65	
		For >500, Deduct	-1.97	
05 05 23 00-0683	EA	5/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	7.33	
		For >100 To 250, Deduct	-1.32	
		For >250 To 500, Deduct	-1.65	
		For >500, Deduct	-1.97	
05 05 23 00-0684	EA	5/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	7.72	
		For >100 To 250, Deduct	-1.35	
		For >250 To 500, Deduct	-1.69	
		For >500, Deduct	-2.03	
05 05 23 00-0685	EA	5/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	8.16	
		For >100 To 250, Deduct	-1.35	
		For >250 To 500, Deduct	-1.69	
		For >500, Deduct	-2.03	
05 05 23 00-0686	EA	5/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	8.24	
		For >100 To 250, Deduct	-1.35	
		For >250 To 500, Deduct	-1.69	
		For >500, Deduct	-2.03	
05 05 23 00-0687	EA	5/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	8.55	
		For >100 To 250, Deduct	-1.39	
		For >250 To 500, Deduct	-1.74	
		For >500, Deduct	-2.09	
05 05 23 00-0688	EA	5/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	8.59	
		For >100 To 250, Deduct	-1.39	
		For >250 To 500, Deduct	-1.74	
		For >500, Deduct	-2.09	
05 05 23 00-0689	EA	5/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	8.93	
		For >100 To 250, Deduct	-1.39	
		For >250 To 500, Deduct	-1.74	
		For >500, Deduct	-2.09	
05 05 23 00-0690	EA	5/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.21	
		For >100 To 250, Deduct	-1.43	
		For >250 To 500, Deduct	-1.79	
		For >500, Deduct	-2.14	
05 05 23 00-0691	EA	5/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.34	
		For >100 To 250, Deduct	-1.43	
		For >250 To 500, Deduct	-1.79	
		For >500, Deduct	-2.14	
05 05 23 00-0692	EA	5/16" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.67	
		For >100 To 250, Deduct	-1.43	
		For >250 To 500, Deduct	-1.79	
		For >500, Deduct	-2.14	
05 05 23 00-0693	EA	5/16" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.53	
		For >100 To 250, Deduct	-1.47	
		For >250 To 500, Deduct	-1.83	
		For >500, Deduct	-2.20	
05 05 23 00-0694	EA	5/16" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.06	
		For >100 To 250, Deduct	-1.47	
		For >250 To 500, Deduct	-1.83	
		For >500, Deduct	-2.20	
05 05 23 00-0695	EA	5/16" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.55	
		For >100 To 250, Deduct	-1.47	
		For >250 To 500, Deduct	-1.83	
		For >500, Deduct	-2.20	
05 05 23 00-0696		3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0661)		
05 05 23 00-0697	EA	3/8" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	6.95	
		For >100 To 250, Deduct	-1.32	
		For >250 To 500, Deduct	-1.65	
		For >500, Deduct	-1.97	
05 05 23 00-0698	EA	3/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	7.06	
		For >100 To 250, Deduct	-1.32	
		For >250 To 500, Deduct	-1.65	
		For >500, Deduct	-1.97	
05 05 23 00-0699	EA	3/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	7.16	
		For >100 To 250, Deduct	-1.32	
		For >250 To 500, Deduct	-1.65	
		For >500, Deduct	-1.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0700 EA 3/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....7.45 <i>For >100 To 250, Deduct</i> -1.32 <i>For >250 To 500, Deduct</i> -1.65 <i>For >500, Deduct</i> -1.97		
05 05 23 00-0701 EA 3/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....7.76 <i>For >100 To 250, Deduct</i> -1.35 <i>For >250 To 500, Deduct</i> -1.69 <i>For >500, Deduct</i> -2.03		
05 05 23 00-0702 EA 3/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....7.99 <i>For >100 To 250, Deduct</i> -1.35 <i>For >250 To 500, Deduct</i> -1.69 <i>For >500, Deduct</i> -2.03		
05 05 23 00-0703 EA 3/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....8.16 <i>For >100 To 250, Deduct</i> -1.35 <i>For >250 To 500, Deduct</i> -1.69 <i>For >500, Deduct</i> -2.03		
05 05 23 00-0704 EA 3/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....8.57 <i>For >100 To 250, Deduct</i> -1.39 <i>For >250 To 500, Deduct</i> -1.74 <i>For >500, Deduct</i> -2.09		
05 05 23 00-0705 EA 3/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....8.69 <i>For >100 To 250, Deduct</i> -1.39 <i>For >250 To 500, Deduct</i> -1.74 <i>For >500, Deduct</i> -2.09		
05 05 23 00-0706 EA 3/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....8.97 <i>For >100 To 250, Deduct</i> -1.39 <i>For >250 To 500, Deduct</i> -1.74 <i>For >500, Deduct</i> -2.09		
05 05 23 00-0707 EA 3/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....9.27 <i>For >100 To 250, Deduct</i> -1.43 <i>For >250 To 500, Deduct</i> -1.79 <i>For >500, Deduct</i> -2.14		
05 05 23 00-0708 EA 3/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....9.66 <i>For >100 To 250, Deduct</i> -1.43 <i>For >250 To 500, Deduct</i> -1.79 <i>For >500, Deduct</i> -2.14		
05 05 23 00-0709 EA 3/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....9.72 <i>For >100 To 250, Deduct</i> -1.43 <i>For >250 To 500, Deduct</i> -1.79 <i>For >500, Deduct</i> -2.14		
05 05 23 00-0710 EA 3/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....9.94 <i>For >100 To 250, Deduct</i> -1.47 <i>For >250 To 500, Deduct</i> -1.83 <i>For >500, Deduct</i> -2.20		
05 05 23 00-0711 EA 3/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....9.98 <i>For >100 To 250, Deduct</i> -1.47 <i>For >250 To 500, Deduct</i> -1.83 <i>For >500, Deduct</i> -2.20		
05 05 23 00-0712 EA 3/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....10.43 <i>For >100 To 250, Deduct</i> -1.47 <i>For >250 To 500, Deduct</i> -1.83 <i>For >500, Deduct</i> -2.20		
05 05 23 00-0713 7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small>		
05 05 23 00-0714 EA 7/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....8.58 <i>For >100 To 250, Deduct</i> -1.50 <i>For >250 To 500, Deduct</i> -1.88 <i>For >500, Deduct</i> -2.26		
05 05 23 00-0715 EA 7/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....9.08 <i>For >100 To 250, Deduct</i> -1.50 <i>For >250 To 500, Deduct</i> -1.88 <i>For >500, Deduct</i> -2.26		
05 05 23 00-0716 EA 7/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....9.47 <i>For >100 To 250, Deduct</i> -1.50 <i>For >250 To 500, Deduct</i> -1.88 <i>For >500, Deduct</i> -2.26		
05 05 23 00-0717 EA 7/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....10.30 <i>For >100 To 250, Deduct</i> -1.54 <i>For >250 To 500, Deduct</i> -1.93 <i>For >500, Deduct</i> -2.31		
05 05 23 00-0718 EA 7/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....10.32 <i>For >100 To 250, Deduct</i> -1.54 <i>For >250 To 500, Deduct</i> -1.93 <i>For >500, Deduct</i> -2.31		
05 05 23 00-0719 EA 7/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....10.36 <i>For >100 To 250, Deduct</i> -1.54 <i>For >250 To 500, Deduct</i> -1.93 <i>For >500, Deduct</i> -2.31		
05 05 23 00-0720 EA 7/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....10.87 <i>For >100 To 250, Deduct</i> -1.58 <i>For >250 To 500, Deduct</i> -1.97 <i>For >500, Deduct</i> -2.37		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0721	EA		7/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.23	
			<i>For >100 To 250, Deduct</i>	-1.58	
			<i>For >250 To 500, Deduct</i>	-1.97	
			<i>For >500, Deduct</i>	-2.37	
05 05 23 00-0722	EA		7/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.55	
			<i>For >100 To 250, Deduct</i>	-1.58	
			<i>For >250 To 500, Deduct</i>	-1.97	
			<i>For >500, Deduct</i>	-2.37	
05 05 23 00-0723	EA		7/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.11	
			<i>For >100 To 250, Deduct</i>	-1.62	
			<i>For >250 To 500, Deduct</i>	-2.02	
			<i>For >500, Deduct</i>	-2.43	
05 05 23 00-0724	EA		7/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.49	
			<i>For >100 To 250, Deduct</i>	-1.62	
			<i>For >250 To 500, Deduct</i>	-2.02	
			<i>For >500, Deduct</i>	-2.43	
05 05 23 00-0725			1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small>		
05 05 23 00-0726	EA		1/2" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	8.36	
			<i>For >100 To 250, Deduct</i>	-1.50	
			<i>For >250 To 500, Deduct</i>	-1.88	
			<i>For >500, Deduct</i>	-2.26	
05 05 23 00-0727	EA		1/2" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	8.52	
			<i>For >100 To 250, Deduct</i>	-1.50	
			<i>For >250 To 500, Deduct</i>	-1.88	
			<i>For >500, Deduct</i>	-2.26	
05 05 23 00-0728	EA		1/2" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	8.85	
			<i>For >100 To 250, Deduct</i>	-1.50	
			<i>For >250 To 500, Deduct</i>	-1.88	
			<i>For >500, Deduct</i>	-2.26	
05 05 23 00-0729	EA		1/2" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.41	
			<i>For >100 To 250, Deduct</i>	-1.54	
			<i>For >250 To 500, Deduct</i>	-1.93	
			<i>For >500, Deduct</i>	-2.31	
05 05 23 00-0730	EA		1/2" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.66	
			<i>For >100 To 250, Deduct</i>	-1.54	
			<i>For >250 To 500, Deduct</i>	-1.93	
			<i>For >500, Deduct</i>	-2.31	
05 05 23 00-0731	EA		1/2" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.12	
			<i>For >100 To 250, Deduct</i>	-1.54	
			<i>For >250 To 500, Deduct</i>	-1.93	
			<i>For >500, Deduct</i>	-2.31	
05 05 23 00-0732	EA		1/2" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.39	
			<i>For >100 To 250, Deduct</i>	-1.58	
			<i>For >250 To 500, Deduct</i>	-1.97	
			<i>For >500, Deduct</i>	-2.37	
05 05 23 00-0733	EA		1/2" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.57	
			<i>For >100 To 250, Deduct</i>	-1.58	
			<i>For >250 To 500, Deduct</i>	-1.97	
			<i>For >500, Deduct</i>	-2.37	
05 05 23 00-0734	EA		1/2" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.94	
			<i>For >100 To 250, Deduct</i>	-1.58	
			<i>For >250 To 500, Deduct</i>	-1.97	
			<i>For >500, Deduct</i>	-2.37	
05 05 23 00-0735	EA		1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.31	
			<i>For >100 To 250, Deduct</i>	-1.62	
			<i>For >250 To 500, Deduct</i>	-2.02	
			<i>For >500, Deduct</i>	-2.43	
05 05 23 00-0736	EA		1/2" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.73	
			<i>For >100 To 250, Deduct</i>	-1.62	
			<i>For >250 To 500, Deduct</i>	-2.02	
			<i>For >500, Deduct</i>	-2.43	
05 05 23 00-0737	EA		1/2" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.77	
			<i>For >100 To 250, Deduct</i>	-1.62	
			<i>For >250 To 500, Deduct</i>	-2.02	
			<i>For >500, Deduct</i>	-2.43	
05 05 23 00-0738	EA		1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.03	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0739	EA		1/2" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.13	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0740	EA		1/2" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.45	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0741	EA		1/2" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	14.14	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0742 EA 1/2" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	14.39	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0743 EA 1/2" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	14.44	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0744 EA 1/2" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	14.59	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0745 5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small>		
05 05 23 00-0746 EA 5/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.89	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0747 EA 5/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.14	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0748 EA 5/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.31	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0749 EA 5/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.77	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0750 EA 5/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.14	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0751 EA 5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.97	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0752 EA 5/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.29	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.65	
05 05 23 00-0753 EA 5/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.44	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.65	
05 05 23 00-0754 EA 5/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.69	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.65	
05 05 23 00-0755 EA 5/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	13.22	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.26	
<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0756 EA 5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	13.51	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.26	
<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0757 EA 5/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	14.36	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.26	
<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0758 EA 5/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	14.60	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0759 EA 5/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	16.09	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0760 EA 5/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	16.53	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0761 EA 5/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	17.34	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0762 EA 5/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	18.05	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0763	EA		5/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	19.66	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0764	EA		5/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	19.78	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0765			3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small>		
05 05 23 00-0766	EA		3/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.10	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0767	EA		3/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.15	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0768	EA		3/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.46	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0769	EA		3/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.33	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0770	EA		3/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	13.49	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0771	EA		3/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	14.24	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0772	EA		3/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	14.83	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.65	
05 05 23 00-0773	EA		3/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	14.89	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.65	
05 05 23 00-0774	EA		3/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	15.05	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.65	
05 05 23 00-0775	EA		3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	15.35	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.26	
			<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0776	EA		3/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	16.33	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.26	
			<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0777	EA		3/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	16.75	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.26	
			<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0778	EA		3/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	17.73	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0779	EA		3/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	17.86	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0780	EA		3/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	18.26	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0781	EA		3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	19.05	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0782	EA		3/4" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	19.48	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0783	EA		3/4" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	19.72	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0784 EA 3/4" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	19.84	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
 05 05 23 00-0785 7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small>		
05 05 23 00-0786 EA 7/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	14.44	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0787 EA 7/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	14.92	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0788 EA 7/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	15.39	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0789 EA 7/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	17.88	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0790 EA 7/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	18.25	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0791 EA 7/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	18.91	
<i>For >100 To 250, Deduct</i>	-1.95	
<i>For >250 To 500, Deduct</i>	-2.44	
<i>For >500, Deduct</i>	-2.93	
05 05 23 00-0792 EA 7/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	19.43	
<i>For >100 To 250, Deduct</i>	-1.95	
<i>For >250 To 500, Deduct</i>	-2.44	
<i>For >500, Deduct</i>	-2.93	
05 05 23 00-0793 EA 7/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	20.10	
<i>For >100 To 250, Deduct</i>	-1.95	
<i>For >250 To 500, Deduct</i>	-2.44	
<i>For >500, Deduct</i>	-2.93	
05 05 23 00-0794 EA 7/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	20.75	
<i>For >100 To 250, Deduct</i>	-1.99	
<i>For >250 To 500, Deduct</i>	-2.49	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0795 EA 7/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	21.27	
<i>For >100 To 250, Deduct</i>	-1.99	
<i>For >250 To 500, Deduct</i>	-2.49	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0796 EA 7/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	25.39	
<i>For >100 To 250, Deduct</i>	-1.99	
<i>For >250 To 500, Deduct</i>	-2.49	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0797 EA 7/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	26.15	
<i>For >100 To 250, Deduct</i>	-2.03	
<i>For >250 To 500, Deduct</i>	-2.54	
<i>For >500, Deduct</i>	-3.05	
05 05 23 00-0798 EA 7/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	27.11	
<i>For >100 To 250, Deduct</i>	-2.03	
<i>For >250 To 500, Deduct</i>	-2.54	
<i>For >500, Deduct</i>	-3.05	
05 05 23 00-0799 EA 7/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	27.34	
<i>For >100 To 250, Deduct</i>	-2.03	
<i>For >250 To 500, Deduct</i>	-2.54	
<i>For >500, Deduct</i>	-3.05	
05 05 23 00-0800 EA 7/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	27.78	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0801 EA 7/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	28.32	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0802 EA 7/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	28.98	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0803 EA 7/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	29.61	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	

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

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0805 EA 1" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	17.78	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.82	
05 05 23 00-0806 EA 1" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	18.13	
For >100 To 250, Deduct	-1.92	
For >250 To 500, Deduct	-2.40	
For >500, Deduct	-2.88	
05 05 23 00-0807 EA 1" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	19.02	
For >100 To 250, Deduct	-1.92	
For >250 To 500, Deduct	-2.40	
For >500, Deduct	-2.88	
05 05 23 00-0808 EA 1" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	19.73	
For >100 To 250, Deduct	-1.92	
For >250 To 500, Deduct	-2.40	
For >500, Deduct	-2.88	
05 05 23 00-0809 EA 1" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	21.52	
For >100 To 250, Deduct	-1.95	
For >250 To 500, Deduct	-2.44	
For >500, Deduct	-2.93	
05 05 23 00-0810 EA 1" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	21.88	
For >100 To 250, Deduct	-1.95	
For >250 To 500, Deduct	-2.44	
For >500, Deduct	-2.93	
05 05 23 00-0811 EA 1" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	22.92	
For >100 To 250, Deduct	-1.95	
For >250 To 500, Deduct	-2.44	
For >500, Deduct	-2.93	
05 05 23 00-0812 EA 1" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	23.22	
For >100 To 250, Deduct	-1.99	
For >250 To 500, Deduct	-2.49	
For >500, Deduct	-2.99	
05 05 23 00-0813 EA 1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	23.60	
For >100 To 250, Deduct	-1.99	
For >250 To 500, Deduct	-2.49	
For >500, Deduct	-2.99	
05 05 23 00-0814 EA 1" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	27.13	
For >100 To 250, Deduct	-1.99	
For >250 To 500, Deduct	-2.49	
For >500, Deduct	-2.99	
05 05 23 00-0815 EA 1" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	27.99	
For >100 To 250, Deduct	-2.03	
For >250 To 500, Deduct	-2.54	
For >500, Deduct	-3.05	
05 05 23 00-0816 EA 1" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	29.47	
For >100 To 250, Deduct	-2.03	
For >250 To 500, Deduct	-2.54	
For >500, Deduct	-3.05	
05 05 23 00-0817 EA 1" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	30.93	
For >100 To 250, Deduct	-2.03	
For >250 To 500, Deduct	-2.54	
For >500, Deduct	-3.05	
05 05 23 00-0818 EA 1" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	31.55	
For >100 To 250, Deduct	-2.07	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.10	
05 05 23 00-0819 EA 1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	32.74	
For >100 To 250, Deduct	-2.07	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.10	
05 05 23 00-0820 EA 1" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	33.65	
For >100 To 250, Deduct	-2.07	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.10	
05 05 23 00-0821 EA 1" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	34.98	
For >100 To 250, Deduct	-2.07	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.10	
05 05 23 00-0822 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0104)		
05 05 23 00-0823 1/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0822)		
05 05 23 00-0824 EA 1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	6.84	
For >100 To 250, Deduct	-1.32	
For >250 To 500, Deduct	-1.65	
For >500, Deduct	-1.97	
05 05 23 00-0825 EA 1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	6.94	
For >100 To 250, Deduct	-1.32	
For >250 To 500, Deduct	-1.65	
For >500, Deduct	-1.97	
05 05 23 00-0826 EA 1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.06	
For >100 To 250, Deduct	-1.32	
For >250 To 500, Deduct	-1.65	
For >500, Deduct	-1.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0827 EA 1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.20	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0828 EA 1/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.52	
<i>For >100 To 250, Deduct</i>	-1.35	
<i>For >250 To 500, Deduct</i>	-1.69	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0829 EA 1/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.72	
<i>For >100 To 250, Deduct</i>	-1.35	
<i>For >250 To 500, Deduct</i>	-1.69	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0830 EA 1/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.96	
<i>For >100 To 250, Deduct</i>	-1.35	
<i>For >250 To 500, Deduct</i>	-1.69	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0831 EA 1/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.33	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0832 EA 1/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.62	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0833 EA 1/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.89	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0834 EA 1/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.29	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0835 EA 1/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.73	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0836 EA 1/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.04	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0837 EA 1/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.83	
<i>For >100 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0838 EA 1/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.08	
<i>For >100 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0839 EA 1/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.67	
<i>For >100 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0840 5/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0822)		
05 05 23 00-0841 EA 5/16" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	7.02	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0842 EA 5/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	7.11	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0843 EA 5/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.30	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0844 EA 5/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	7.46	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0845 EA 5/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.92	
<i>For >100 To 250, Deduct</i>	-1.35	
<i>For >250 To 500, Deduct</i>	-1.69	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0846 EA 5/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	8.02	
<i>For >100 To 250, Deduct</i>	-1.35	
<i>For >250 To 500, Deduct</i>	-1.69	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0847 EA 5/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.52	
<i>For >100 To 250, Deduct</i>	-1.35	
<i>For >250 To 500, Deduct</i>	-1.69	
<i>For >500, Deduct</i>	-2.03	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0848	EA	5/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	9.05	
		<i>For >100 To 250, Deduct</i>	-1.39	
		<i>For >250 To 500, Deduct</i>	-1.74	
		<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0849	EA	5/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.61	
		<i>For >100 To 250, Deduct</i>	-1.39	
		<i>For >250 To 500, Deduct</i>	-1.74	
		<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0850	EA	5/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	9.89	
		<i>For >100 To 250, Deduct</i>	-1.39	
		<i>For >250 To 500, Deduct</i>	-1.74	
		<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0851	EA	5/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.91	
		<i>For >100 To 250, Deduct</i>	-1.43	
		<i>For >250 To 500, Deduct</i>	-1.79	
		<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0852	EA	5/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	12.30	
		<i>For >100 To 250, Deduct</i>	-1.43	
		<i>For >250 To 500, Deduct</i>	-1.79	
		<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0853	EA	5/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.46	
		<i>For >100 To 250, Deduct</i>	-1.43	
		<i>For >250 To 500, Deduct</i>	-1.79	
		<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0854	EA	5/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	20.77	
		<i>For >100 To 250, Deduct</i>	-1.47	
		<i>For >250 To 500, Deduct</i>	-1.83	
		<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0855		3/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>		
05 05 23 00-0856	EA	3/8" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	7.26	
		<i>For >100 To 250, Deduct</i>	-1.32	
		<i>For >250 To 500, Deduct</i>	-1.65	
		<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0857	EA	3/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	7.37	
		<i>For >100 To 250, Deduct</i>	-1.32	
		<i>For >250 To 500, Deduct</i>	-1.65	
		<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0858	EA	3/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.67	
		<i>For >100 To 250, Deduct</i>	-1.32	
		<i>For >250 To 500, Deduct</i>	-1.65	
		<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0859	EA	3/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	8.05	
		<i>For >100 To 250, Deduct</i>	-1.32	
		<i>For >250 To 500, Deduct</i>	-1.65	
		<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0860	EA	3/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.43	
		<i>For >100 To 250, Deduct</i>	-1.35	
		<i>For >250 To 500, Deduct</i>	-1.69	
		<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0861	EA	3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	8.74	
		<i>For >100 To 250, Deduct</i>	-1.35	
		<i>For >250 To 500, Deduct</i>	-1.69	
		<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0862	EA	3/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.14	
		<i>For >100 To 250, Deduct</i>	-1.35	
		<i>For >250 To 500, Deduct</i>	-1.69	
		<i>For >500, Deduct</i>	-2.03	
05 05 23 00-0863	EA	3/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	9.69	
		<i>For >100 To 250, Deduct</i>	-1.39	
		<i>For >250 To 500, Deduct</i>	-1.74	
		<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0864	EA	3/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.16	
		<i>For >100 To 250, Deduct</i>	-1.39	
		<i>For >250 To 500, Deduct</i>	-1.74	
		<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0865	EA	3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	11.20	
		<i>For >100 To 250, Deduct</i>	-1.39	
		<i>For >250 To 500, Deduct</i>	-1.74	
		<i>For >500, Deduct</i>	-2.09	
05 05 23 00-0866	EA	3/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.51	
		<i>For >100 To 250, Deduct</i>	-1.43	
		<i>For >250 To 500, Deduct</i>	-1.79	
		<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0867	EA	3/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	12.37	
		<i>For >100 To 250, Deduct</i>	-1.43	
		<i>For >250 To 500, Deduct</i>	-1.79	
		<i>For >500, Deduct</i>	-2.14	
05 05 23 00-0868	EA	3/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.20	
		<i>For >100 To 250, Deduct</i>	-1.43	
		<i>For >250 To 500, Deduct</i>	-1.79	
		<i>For >500, Deduct</i>	-2.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0869 EA 3/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.82	
<i>For >100 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0870 EA 3/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.08	
<i>For >100 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0871 EA 3/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.91	
<i>For >100 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.20	
05 05 23 00-0872 7/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>		
05 05 23 00-0873 EA 7/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	9.17	
<i>For >100 To 250, Deduct</i>	-1.50	
<i>For >250 To 500, Deduct</i>	-1.88	
<i>For >500, Deduct</i>	-2.26	
05 05 23 00-0874 EA 7/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.29	
<i>For >100 To 250, Deduct</i>	-1.50	
<i>For >250 To 500, Deduct</i>	-1.88	
<i>For >500, Deduct</i>	-2.26	
05 05 23 00-0875 EA 7/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	9.78	
<i>For >100 To 250, Deduct</i>	-1.50	
<i>For >250 To 500, Deduct</i>	-1.88	
<i>For >500, Deduct</i>	-2.26	
05 05 23 00-0876 EA 7/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.25	
<i>For >100 To 250, Deduct</i>	-1.54	
<i>For >250 To 500, Deduct</i>	-1.93	
<i>For >500, Deduct</i>	-2.31	
05 05 23 00-0877 EA 7/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	10.83	
<i>For >100 To 250, Deduct</i>	-1.54	
<i>For >250 To 500, Deduct</i>	-1.93	
<i>For >500, Deduct</i>	-2.31	
05 05 23 00-0878 EA 7/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.80	
<i>For >100 To 250, Deduct</i>	-1.54	
<i>For >250 To 500, Deduct</i>	-1.93	
<i>For >500, Deduct</i>	-2.31	
05 05 23 00-0879 EA 7/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	12.44	
<i>For >100 To 250, Deduct</i>	-1.58	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.37	
05 05 23 00-0880 EA 7/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.58	
<i>For >100 To 250, Deduct</i>	-1.58	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.37	
05 05 23 00-0881 EA 7/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	14.07	
<i>For >100 To 250, Deduct</i>	-1.58	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.37	
05 05 23 00-0882 EA 7/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.83	
<i>For >100 To 250, Deduct</i>	-1.62	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.43	
05 05 23 00-0883 EA 7/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	17.56	
<i>For >100 To 250, Deduct</i>	-1.62	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.43	
05 05 23 00-0884 EA 7/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.80	
<i>For >100 To 250, Deduct</i>	-1.62	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.43	
05 05 23 00-0885 EA 7/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	18.18	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.07	
<i>For >500, Deduct</i>	-2.48	
05 05 23 00-0886 1/2" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>		
05 05 23 00-0887 EA 1/2" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.16	
<i>For >100 To 250, Deduct</i>	-1.50	
<i>For >250 To 500, Deduct</i>	-1.88	
<i>For >500, Deduct</i>	-2.26	
05 05 23 00-0888 EA 1/2" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.29	
<i>For >100 To 250, Deduct</i>	-1.50	
<i>For >250 To 500, Deduct</i>	-1.88	
<i>For >500, Deduct</i>	-2.26	
05 05 23 00-0889 EA 1/2" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.06	
<i>For >100 To 250, Deduct</i>	-1.50	
<i>For >250 To 500, Deduct</i>	-1.88	
<i>For >500, Deduct</i>	-2.26	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0890 EA 1/2" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.54	
For >100 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-1.93	
For >500, Deduct	-2.31	
05 05 23 00-0891 EA 1/2" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	11.24	
For >100 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-1.93	
For >500, Deduct	-2.31	
05 05 23 00-0892 EA 1/2" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.61	
For >100 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-1.93	
For >500, Deduct	-2.31	
05 05 23 00-0893 EA 1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	12.26	
For >100 To 250, Deduct	-1.58	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.37	
05 05 23 00-0894 EA 1/2" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.59	
For >100 To 250, Deduct	-1.58	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.37	
05 05 23 00-0895 EA 1/2" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	14.41	
For >100 To 250, Deduct	-1.58	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.37	
05 05 23 00-0896 EA 1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.11	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.43	
05 05 23 00-0897 EA 1/2" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	15.92	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.43	
05 05 23 00-0898 EA 1/2" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.85	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.43	
05 05 23 00-0899 EA 1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	18.41	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.48	
05 05 23 00-0900 EA 1/2" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.96	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.48	
05 05 23 00-0901 EA 1/2" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	19.83	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.48	
05 05 23 00-0902 EA 1/2" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.30	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0903 EA 1/2" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	24.64	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0904 EA 1/2" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.05	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0905 EA 1/2" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	29.45	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0906 9/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>		
05 05 23 00-0907 EA 9/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	13.15	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.26	
05 05 23 00-0908 EA 9/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.73	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.26	
05 05 23 00-0909 EA 9/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	17.50	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.26	
05 05 23 00-0910 EA 9/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.24	
For >100 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-1.93	
For >500, Deduct	-2.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0911 EA 9/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	19.22	
<i>For >100 To 250, Deduct</i>	-1.54	
<i>For >250 To 500, Deduct</i>	-1.93	
<i>For >500, Deduct</i>	-2.31	
05 05 23 00-0912 EA 9/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.94	
<i>For >100 To 250, Deduct</i>	-1.54	
<i>For >250 To 500, Deduct</i>	-1.93	
<i>For >500, Deduct</i>	-2.31	
05 05 23 00-0913 EA 9/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	23.66	
<i>For >100 To 250, Deduct</i>	-1.58	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.37	
05 05 23 00-0914 EA 9/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.04	
<i>For >100 To 250, Deduct</i>	-1.58	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.37	
05 05 23 00-0915 EA 9/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	27.68	
<i>For >100 To 250, Deduct</i>	-1.58	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.37	
05 05 23 00-0916 EA 9/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	29.58	
<i>For >100 To 250, Deduct</i>	-1.62	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.43	
05 05 23 00-0917 EA 9/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	31.52	
<i>For >100 To 250, Deduct</i>	-1.62	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.43	
05 05 23 00-0918 5/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>		
05 05 23 00-0919 EA 5/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.44	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0920 EA 5/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.80	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0921 EA 5/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.31	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0922 EA 5/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.74	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0923 EA 5/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.46	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0924 EA 5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.49	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0925 EA 5/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.97	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.65	
05 05 23 00-0926 EA 5/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.98	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.65	
05 05 23 00-0927 EA 5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.13	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.65	
05 05 23 00-0928 EA 5/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.98	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.26	
<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0929 EA 5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.02	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.26	
<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0930 EA 5/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.82	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.26	
<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0931 EA 5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	26.07	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0932	EA		5/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.79	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0933	EA		5/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	28.57	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0934	EA		5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	31.94	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0935	EA		5/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	32.95	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0936	EA		5/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	37.47	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0937	EA		5/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	39.33	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0938			3/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>		
05 05 23 00-0939	EA		3/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	13.09	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0940	EA		3/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.80	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0941	EA		3/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	14.73	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0942	EA		3/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.92	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0943	EA		3/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	16.95	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0944	EA		3/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.68	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0945	EA		3/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	19.90	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.65	
05 05 23 00-0946	EA		3/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.50	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.65	
05 05 23 00-0947	EA		3/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	22.79	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.65	
05 05 23 00-0948	EA		3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.31	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.26	
			<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0949	EA		3/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	25.81	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.26	
			<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0950	EA		3/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	28.63	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.26	
			<i>For >500, Deduct</i>	-2.71	
05 05 23 00-0951	EA		3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	36.28	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0952	EA		3/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	38.67	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0953 EA 3/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	43.77	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0954 EA 3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	44.19	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0955 EA 3/4" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	45.00	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0956 EA 3/4" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	47.17	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0957 EA 3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	48.85	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0958 7/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0922)</small>		
05 05 23 00-0959 EA 7/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.46	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0960 EA 7/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.22	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0961 EA 7/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.76	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0962 EA 7/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.55	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0963 EA 7/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.14	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0964 EA 7/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.79	
<i>For >100 To 250, Deduct</i>	-1.95	
<i>For >250 To 500, Deduct</i>	-2.44	
<i>For >500, Deduct</i>	-2.93	
05 05 23 00-0965 EA 7/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	26.35	
<i>For >100 To 250, Deduct</i>	-1.95	
<i>For >250 To 500, Deduct</i>	-2.44	
<i>For >500, Deduct</i>	-2.93	
05 05 23 00-0966 EA 7/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	30.25	
<i>For >100 To 250, Deduct</i>	-1.95	
<i>For >250 To 500, Deduct</i>	-2.44	
<i>For >500, Deduct</i>	-2.93	
05 05 23 00-0967 EA 7/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	31.02	
<i>For >100 To 250, Deduct</i>	-1.99	
<i>For >250 To 500, Deduct</i>	-2.49	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0968 EA 7/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	32.52	
<i>For >100 To 250, Deduct</i>	-1.99	
<i>For >250 To 500, Deduct</i>	-2.49	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0969 EA 7/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	40.77	
<i>For >100 To 250, Deduct</i>	-1.99	
<i>For >250 To 500, Deduct</i>	-2.49	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0970 EA 7/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	44.12	
<i>For >100 To 250, Deduct</i>	-2.03	
<i>For >250 To 500, Deduct</i>	-2.54	
<i>For >500, Deduct</i>	-3.05	
05 05 23 00-0971 EA 7/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	47.82	
<i>For >100 To 250, Deduct</i>	-2.03	
<i>For >250 To 500, Deduct</i>	-2.54	
<i>For >500, Deduct</i>	-3.05	
05 05 23 00-0972 EA 7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	50.81	
<i>For >100 To 250, Deduct</i>	-2.03	
<i>For >250 To 500, Deduct</i>	-2.54	
<i>For >500, Deduct</i>	-3.05	
05 05 23 00-0973 EA 7/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	60.04	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0974 EA 7/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	67.29	
For >100 To 250, Deduct	-2.07	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.10	
05 05 23 00-0975 EA 7/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	70.65	
For >100 To 250, Deduct	-2.07	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.10	
05 05 23 00-0976 EA 7/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	73.99	
For >100 To 250, Deduct	-2.07	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.10	
05 05 23 00-0977 1" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0822)		
05 05 23 00-0978 EA 1" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.73	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.82	
05 05 23 00-0979 EA 1" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	24.02	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.82	
05 05 23 00-0980 EA 1" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	26.13	
For >100 To 250, Deduct	-1.92	
For >250 To 500, Deduct	-2.40	
For >500, Deduct	-2.88	
05 05 23 00-0981 EA 1" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	27.75	
For >100 To 250, Deduct	-1.92	
For >250 To 500, Deduct	-2.40	
For >500, Deduct	-2.88	
05 05 23 00-0982 EA 1" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	30.42	
For >100 To 250, Deduct	-1.92	
For >250 To 500, Deduct	-2.40	
For >500, Deduct	-2.88	
05 05 23 00-0983 EA 1" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	33.59	
For >100 To 250, Deduct	-1.95	
For >250 To 500, Deduct	-2.44	
For >500, Deduct	-2.93	
05 05 23 00-0984 EA 1" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	35.45	
For >100 To 250, Deduct	-1.95	
For >250 To 500, Deduct	-2.44	
For >500, Deduct	-2.93	
05 05 23 00-0985 EA 1" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	38.20	
For >100 To 250, Deduct	-1.95	
For >250 To 500, Deduct	-2.44	
For >500, Deduct	-2.93	
05 05 23 00-0986 EA 1" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	40.96	
For >100 To 250, Deduct	-1.99	
For >250 To 500, Deduct	-2.49	
For >500, Deduct	-2.99	
05 05 23 00-0987 EA 1" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	41.12	
For >100 To 250, Deduct	-1.99	
For >250 To 500, Deduct	-2.49	
For >500, Deduct	-2.99	
05 05 23 00-0988 EA 1" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	48.48	
For >100 To 250, Deduct	-1.99	
For >250 To 500, Deduct	-2.49	
For >500, Deduct	-2.99	
05 05 23 00-0989 EA 1" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	57.99	
For >100 To 250, Deduct	-2.03	
For >250 To 500, Deduct	-2.54	
For >500, Deduct	-3.05	
05 05 23 00-0990 EA 1" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	59.37	
For >100 To 250, Deduct	-2.03	
For >250 To 500, Deduct	-2.54	
For >500, Deduct	-3.05	
05 05 23 00-0991 EA 1" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	60.76	
For >100 To 250, Deduct	-2.03	
For >250 To 500, Deduct	-2.54	
For >500, Deduct	-3.05	
05 05 23 00-0992 EA 1" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	63.71	
For >100 To 250, Deduct	-2.07	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.10	
05 05 23 00-0993 EA 1" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	67.97	
For >100 To 250, Deduct	-2.07	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.10	
05 05 23 00-0994 EA 1" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	87.29	
For >100 To 250, Deduct	-2.07	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0995 EA 1" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	109.79	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0996 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0104)		
05 05 23 00-0997 1/4" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)		
05 05 23 00-0998 EA 1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt.....	7.03	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-0999 EA 1" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt.....	7.23	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-1000 EA 1-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	7.38	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-1001 EA 2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt.....	7.48	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-1002 EA 2-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	7.96	
<i>For >100 To 250, Deduct</i>	-1.35	
<i>For >250 To 500, Deduct</i>	-1.69	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-1003 EA 3" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt.....	8.23	
<i>For >100 To 250, Deduct</i>	-1.35	
<i>For >250 To 500, Deduct</i>	-1.69	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-1004 EA 3-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	8.49	
<i>For >100 To 250, Deduct</i>	-1.35	
<i>For >250 To 500, Deduct</i>	-1.69	
<i>For >500, Deduct</i>	-2.03	
05 05 23 00-1005 EA 4" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt.....	8.89	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-1006 EA 4-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	9.11	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-1007 EA 5" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt.....	9.21	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-1008 EA 5-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	10.07	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-1009 EA 6" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt.....	10.25	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-1010 EA 6-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	17.01	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-1011 EA 7" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt.....	25.40	
<i>For >100 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.20	
05 05 23 00-1012 EA 7-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	43.45	
<i>For >100 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.20	
05 05 23 00-1013 EA 8" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt.....	47.57	
<i>For >100 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.20	
05 05 23 00-1014 5/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)		
05 05 23 00-1015 EA 5/16" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	7.31	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	
05 05 23 00-1016 EA 5/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	7.54	
<i>For >100 To 250, Deduct</i>	-1.32	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-1.97	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1017 EA 5/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	7.92	
For >100 To 250, Deduct	-1.32	
For >250 To 500, Deduct	-1.65	
For >500, Deduct	-1.97	
05 05 23 00-1018 EA 5/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	8.22	
For >100 To 250, Deduct	-1.32	
For >250 To 500, Deduct	-1.65	
For >500, Deduct	-1.97	
05 05 23 00-1019 EA 5/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	8.53	
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-1.69	
For >500, Deduct	-2.03	
05 05 23 00-1020 EA 5/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	9.13	
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-1.69	
For >500, Deduct	-2.03	
05 05 23 00-1021 EA 5/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	9.54	
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-1.69	
For >500, Deduct	-2.03	
05 05 23 00-1022 EA 5/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	9.91	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.74	
For >500, Deduct	-2.09	
05 05 23 00-1023 EA 5/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	10.80	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.74	
For >500, Deduct	-2.09	
05 05 23 00-1024 EA 5/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	10.98	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.74	
For >500, Deduct	-2.09	
05 05 23 00-1025 EA 5/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	11.79	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.14	
05 05 23 00-1026 EA 5/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	12.48	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.14	
05 05 23 00-1027 EA 5/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	18.23	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.14	
05 05 23 00-1028 EA 5/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	26.60	
For >100 To 250, Deduct	-1.47	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-1029 3/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)	7.92	
EA 3/8" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	7.92	
For >100 To 250, Deduct	-1.32	
For >250 To 500, Deduct	-1.65	
For >500, Deduct	-1.97	
05 05 23 00-1031 EA 3/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	8.01	
For >100 To 250, Deduct	-1.32	
For >250 To 500, Deduct	-1.65	
For >500, Deduct	-1.97	
05 05 23 00-1032 EA 3/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	8.37	
For >100 To 250, Deduct	-1.32	
For >250 To 500, Deduct	-1.65	
For >500, Deduct	-1.97	
05 05 23 00-1033 EA 3/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	9.23	
For >100 To 250, Deduct	-1.32	
For >250 To 500, Deduct	-1.65	
For >500, Deduct	-1.97	
05 05 23 00-1034 EA 3/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	9.72	
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-1.69	
For >500, Deduct	-2.03	
05 05 23 00-1035 EA 3/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	9.88	
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-1.69	
For >500, Deduct	-2.03	
05 05 23 00-1036 EA 3/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	10.62	
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-1.69	
For >500, Deduct	-2.03	
05 05 23 00-1037 EA 3/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	10.93	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.74	
For >500, Deduct	-2.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1038 EA 3/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	11.40	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-1039 EA 3/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	11.72	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 500, Deduct</i>	-1.74	
<i>For >500, Deduct</i>	-2.09	
05 05 23 00-1040 EA 3/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	12.94	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-1041 EA 3/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	14.20	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-1042 EA 3/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	14.25	
<i>For >100 To 250, Deduct</i>	-1.43	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.14	
05 05 23 00-1043 EA 3/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	17.65	
<i>For >100 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.20	
05 05 23 00-1044 EA 3/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	22.86	
<i>For >100 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.20	
05 05 23 00-1045 EA 3/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	28.49	
<i>For >100 To 250, Deduct</i>	-1.47	
<i>For >250 To 500, Deduct</i>	-1.83	
<i>For >500, Deduct</i>	-2.20	
05 05 23 00-1046 7/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)		
05 05 23 00-1047 EA 7/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	10.29	
<i>For >100 To 250, Deduct</i>	-1.50	
<i>For >250 To 500, Deduct</i>	-1.88	
<i>For >500, Deduct</i>	-2.26	
05 05 23 00-1048 EA 7/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.83	
<i>For >100 To 250, Deduct</i>	-1.50	
<i>For >250 To 500, Deduct</i>	-1.88	
<i>For >500, Deduct</i>	-2.26	
05 05 23 00-1049 EA 7/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	11.85	
<i>For >100 To 250, Deduct</i>	-1.50	
<i>For >250 To 500, Deduct</i>	-1.88	
<i>For >500, Deduct</i>	-2.26	
05 05 23 00-1050 EA 7/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	12.90	
<i>For >100 To 250, Deduct</i>	-1.54	
<i>For >250 To 500, Deduct</i>	-1.93	
<i>For >500, Deduct</i>	-2.31	
05 05 23 00-1051 EA 7/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	13.87	
<i>For >100 To 250, Deduct</i>	-1.54	
<i>For >250 To 500, Deduct</i>	-1.93	
<i>For >500, Deduct</i>	-2.31	
05 05 23 00-1052 EA 7/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	15.46	
<i>For >100 To 250, Deduct</i>	-1.54	
<i>For >250 To 500, Deduct</i>	-1.93	
<i>For >500, Deduct</i>	-2.31	
05 05 23 00-1053 EA 7/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	17.18	
<i>For >100 To 250, Deduct</i>	-1.58	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.37	
05 05 23 00-1054 EA 7/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	17.46	
<i>For >100 To 250, Deduct</i>	-1.58	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.37	
05 05 23 00-1055 EA 7/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	18.04	
<i>For >100 To 250, Deduct</i>	-1.58	
<i>For >250 To 500, Deduct</i>	-1.97	
<i>For >500, Deduct</i>	-2.37	
05 05 23 00-1056 EA 7/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	18.63	
<i>For >100 To 250, Deduct</i>	-1.62	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.43	
05 05 23 00-1057 EA 7/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	19.04	
<i>For >100 To 250, Deduct</i>	-1.62	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.43	
05 05 23 00-1058 EA 7/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	19.46	
<i>For >100 To 250, Deduct</i>	-1.62	
<i>For >250 To 500, Deduct</i>	-2.02	
<i>For >500, Deduct</i>	-2.43	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1059 EA 7/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	19.97	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.48	
05 05 23 00-1060 1/2" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)		
05 05 23 00-1061 EA 1/2" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	10.27	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.26	
05 05 23 00-1062 EA 1/2" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	10.85	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.26	
05 05 23 00-1063 EA 1/2" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	11.67	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.26	
05 05 23 00-1064 EA 1/2" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	12.82	
For >100 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-1.93	
For >500, Deduct	-2.31	
05 05 23 00-1065 EA 1/2" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	13.72	
For >100 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-1.93	
For >500, Deduct	-2.31	
05 05 23 00-1066 EA 1/2" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	13.94	
For >100 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-1.93	
For >500, Deduct	-2.31	
05 05 23 00-1067 EA 1/2" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	14.50	
For >100 To 250, Deduct	-1.58	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.37	
05 05 23 00-1068 EA 1/2" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	16.24	
For >100 To 250, Deduct	-1.58	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.37	
05 05 23 00-1069 EA 1/2" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	19.76	
For >100 To 250, Deduct	-1.58	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.37	
05 05 23 00-1070 EA 1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	20.22	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.43	
05 05 23 00-1071 EA 1/2" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	20.78	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.43	
05 05 23 00-1072 EA 1/2" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	25.13	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.43	
05 05 23 00-1073 EA 1/2" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	28.22	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.48	
05 05 23 00-1074 EA 1/2" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	30.11	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.48	
05 05 23 00-1075 EA 1/2" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	33.23	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.07	
For >500, Deduct	-2.48	
05 05 23 00-1076 EA 1/2" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	41.67	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-1077 EA 1/2" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	46.99	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-1078 EA 1/2" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	47.87	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-1079 EA 1/2" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	49.23	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1080 9/16" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0996)</small>		
05 05 23 00-1081 EA 9/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	24.85	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.26	
05 05 23 00-1082 EA 9/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	26.77	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.26	
05 05 23 00-1083 EA 9/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	33.17	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.88	
For >500, Deduct	-2.26	
05 05 23 00-1084 EA 9/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	36.94	
For >100 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-1.93	
For >500, Deduct	-2.31	
05 05 23 00-1085 EA 9/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	40.73	
For >100 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-1.93	
For >500, Deduct	-2.31	
05 05 23 00-1086 EA 9/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	44.51	
For >100 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-1.93	
For >500, Deduct	-2.31	
05 05 23 00-1087 EA 9/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	47.06	
For >100 To 250, Deduct	-1.58	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.37	
05 05 23 00-1088 EA 9/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	50.18	
For >100 To 250, Deduct	-1.58	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.37	
05 05 23 00-1089 EA 9/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	52.95	
For >100 To 250, Deduct	-1.58	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.37	
05 05 23 00-1090 EA 9/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	53.99	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.43	
05 05 23 00-1091 EA 9/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	56.43	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.02	
For >500, Deduct	-2.43	
05 05 23 00-1092 5/8" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0996)</small>		
05 05 23 00-1093 EA 5/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	14.17	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-1094 EA 5/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	14.34	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-1095 EA 5/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	14.39	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-1096 EA 5/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	15.67	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-1097 EA 5/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	16.79	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-1098 EA 5/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	20.36	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-1099 EA 5/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	21.30	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-1100 EA 5/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	24.42	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-1101 EA 5/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	25.50	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1102 EA 5/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	27.74	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-1103 EA 5/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	28.63	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-1104 EA 5/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	34.09	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-1105 EA 5/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	36.24	
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-2.30	
For >500, Deduct	-2.76	
05 05 23 00-1106 EA 5/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	36.93	
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-2.30	
For >500, Deduct	-2.76	
05 05 23 00-1107 EA 5/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	39.48	
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-2.30	
For >500, Deduct	-2.76	
05 05 23 00-1108 EA 5/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	41.98	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.82	
05 05 23 00-1109 EA 5/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	44.14	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.82	
05 05 23 00-1110 EA 5/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	54.45	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.82	
05 05 23 00-1111 EA 5/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	65.48	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.82	
05 05 23 00-1112 3/4" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)		
05 05 23 00-1113 EA 3/4" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	18.51	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-1114 EA 3/4" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	18.90	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-1115 EA 3/4" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	20.38	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-1116 EA 3/4" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	21.87	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-1117 EA 3/4" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	24.64	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-1118 EA 3/4" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	26.25	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-1119 EA 3/4" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	29.86	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-1120 EA 3/4" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	31.28	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-1121 EA 3/4" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	32.06	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-2.21	
For >500, Deduct	-2.65	
05 05 23 00-1122 EA 3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	33.29	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1123	EA			3/4" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	35.06	
				<i>For >100 To 250, Deduct</i>	-1.80	
				<i>For >250 To 500, Deduct</i>	-2.26	
				<i>For >500, Deduct</i>	-2.71	
05 05 23 00-1124	EA			3/4" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	40.52	
				<i>For >100 To 250, Deduct</i>	-1.80	
				<i>For >250 To 500, Deduct</i>	-2.26	
				<i>For >500, Deduct</i>	-2.71	
05 05 23 00-1125	EA			3/4" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	48.61	
				<i>For >100 To 250, Deduct</i>	-1.84	
				<i>For >250 To 500, Deduct</i>	-2.30	
				<i>For >500, Deduct</i>	-2.76	
05 05 23 00-1126	EA			3/4" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	54.76	
				<i>For >100 To 250, Deduct</i>	-1.84	
				<i>For >250 To 500, Deduct</i>	-2.30	
				<i>For >500, Deduct</i>	-2.76	
05 05 23 00-1127	EA			3/4" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	55.69	
				<i>For >100 To 250, Deduct</i>	-1.84	
				<i>For >250 To 500, Deduct</i>	-2.30	
				<i>For >500, Deduct</i>	-2.76	
05 05 23 00-1128	EA			3/4" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	59.58	
				<i>For >100 To 250, Deduct</i>	-1.88	
				<i>For >250 To 500, Deduct</i>	-2.35	
				<i>For >500, Deduct</i>	-2.82	
05 05 23 00-1129	EA			3/4" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	68.92	
				<i>For >100 To 250, Deduct</i>	-1.88	
				<i>For >250 To 500, Deduct</i>	-2.35	
				<i>For >500, Deduct</i>	-2.82	
05 05 23 00-1130	EA			3/4" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	69.71	
				<i>For >100 To 250, Deduct</i>	-1.88	
				<i>For >250 To 500, Deduct</i>	-2.35	
				<i>For >500, Deduct</i>	-2.82	
05 05 23 00-1131	EA			3/4" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	71.68	
				<i>For >100 To 250, Deduct</i>	-1.88	
				<i>For >250 To 500, Deduct</i>	-2.35	
				<i>For >500, Deduct</i>	-2.82	
05 05 23 00-1132				7/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)		
05 05 23 00-1133	EA			7/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	20.86	
				<i>For >100 To 250, Deduct</i>	-1.88	
				<i>For >250 To 500, Deduct</i>	-2.35	
				<i>For >500, Deduct</i>	-2.82	
05 05 23 00-1134	EA			7/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	23.42	
				<i>For >100 To 250, Deduct</i>	-1.88	
				<i>For >250 To 500, Deduct</i>	-2.35	
				<i>For >500, Deduct</i>	-2.82	
05 05 23 00-1135	EA			7/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	25.02	
				<i>For >100 To 250, Deduct</i>	-1.92	
				<i>For >250 To 500, Deduct</i>	-2.40	
				<i>For >500, Deduct</i>	-2.88	
05 05 23 00-1136	EA			7/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	28.61	
				<i>For >100 To 250, Deduct</i>	-1.92	
				<i>For >250 To 500, Deduct</i>	-2.40	
				<i>For >500, Deduct</i>	-2.88	
05 05 23 00-1137	EA			7/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	30.22	
				<i>For >100 To 250, Deduct</i>	-1.92	
				<i>For >250 To 500, Deduct</i>	-2.40	
				<i>For >500, Deduct</i>	-2.88	
05 05 23 00-1138	EA			7/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	31.82	
				<i>For >100 To 250, Deduct</i>	-1.95	
				<i>For >250 To 500, Deduct</i>	-2.44	
				<i>For >500, Deduct</i>	-2.93	
05 05 23 00-1139	EA			7/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	33.99	
				<i>For >100 To 250, Deduct</i>	-1.95	
				<i>For >250 To 500, Deduct</i>	-2.44	
				<i>For >500, Deduct</i>	-2.93	
05 05 23 00-1140	EA			7/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	38.89	
				<i>For >100 To 250, Deduct</i>	-1.95	
				<i>For >250 To 500, Deduct</i>	-2.44	
				<i>For >500, Deduct</i>	-2.93	
05 05 23 00-1141	EA			7/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	39.20	
				<i>For >100 To 250, Deduct</i>	-1.99	
				<i>For >250 To 500, Deduct</i>	-2.49	
				<i>For >500, Deduct</i>	-2.99	
05 05 23 00-1142	EA			7/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	40.83	
				<i>For >100 To 250, Deduct</i>	-1.99	
				<i>For >250 To 500, Deduct</i>	-2.49	
				<i>For >500, Deduct</i>	-2.99	
05 05 23 00-1143	EA			7/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	54.53	
				<i>For >100 To 250, Deduct</i>	-1.99	
				<i>For >250 To 500, Deduct</i>	-2.49	
				<i>For >500, Deduct</i>	-2.99	

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1144	EA	7/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	60.76	
		<i>For >100 To 250, Deduct</i>	-2.03	
		<i>For >250 To 500, Deduct</i>	-2.54	
		<i>For >500, Deduct</i>	-3.05	
05 05 23 00-1145	EA	7/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	67.26	
		<i>For >100 To 250, Deduct</i>	-2.03	
		<i>For >250 To 500, Deduct</i>	-2.54	
		<i>For >500, Deduct</i>	-3.05	
05 05 23 00-1146	EA	7/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	70.47	
		<i>For >100 To 250, Deduct</i>	-2.03	
		<i>For >250 To 500, Deduct</i>	-2.54	
		<i>For >500, Deduct</i>	-3.05	
05 05 23 00-1147	EA	7/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	74.81	
		<i>For >100 To 250, Deduct</i>	-2.07	
		<i>For >250 To 500, Deduct</i>	-2.58	
		<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1148	EA	7/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	77.59	
		<i>For >100 To 250, Deduct</i>	-2.07	
		<i>For >250 To 500, Deduct</i>	-2.58	
		<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1149	EA	7/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	80.35	
		<i>For >100 To 250, Deduct</i>	-2.07	
		<i>For >250 To 500, Deduct</i>	-2.58	
		<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1150	EA	7/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	83.46	
		<i>For >100 To 250, Deduct</i>	-2.07	
		<i>For >250 To 500, Deduct</i>	-2.58	
		<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1151		1" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)		
05 05 23 00-1152	EA	1" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	26.50	
		<i>For >100 To 250, Deduct</i>	-1.88	
		<i>For >250 To 500, Deduct</i>	-2.35	
		<i>For >500, Deduct</i>	-2.82	
05 05 23 00-1153	EA	1" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	30.65	
		<i>For >100 To 250, Deduct</i>	-1.92	
		<i>For >250 To 500, Deduct</i>	-2.40	
		<i>For >500, Deduct</i>	-2.88	
05 05 23 00-1154	EA	1" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	33.30	
		<i>For >100 To 250, Deduct</i>	-1.92	
		<i>For >250 To 500, Deduct</i>	-2.40	
		<i>For >500, Deduct</i>	-2.88	
05 05 23 00-1155	EA	1" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	37.53	
		<i>For >100 To 250, Deduct</i>	-1.92	
		<i>For >250 To 500, Deduct</i>	-2.40	
		<i>For >500, Deduct</i>	-2.88	
05 05 23 00-1156	EA	1" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	39.22	
		<i>For >100 To 250, Deduct</i>	-1.95	
		<i>For >250 To 500, Deduct</i>	-2.44	
		<i>For >500, Deduct</i>	-2.93	
05 05 23 00-1157	EA	1" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	42.09	
		<i>For >100 To 250, Deduct</i>	-1.95	
		<i>For >250 To 500, Deduct</i>	-2.44	
		<i>For >500, Deduct</i>	-2.93	
05 05 23 00-1158	EA	1" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	44.99	
		<i>For >100 To 250, Deduct</i>	-1.95	
		<i>For >250 To 500, Deduct</i>	-2.44	
		<i>For >500, Deduct</i>	-2.93	
05 05 23 00-1159	EA	1" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	48.09	
		<i>For >100 To 250, Deduct</i>	-1.99	
		<i>For >250 To 500, Deduct</i>	-2.49	
		<i>For >500, Deduct</i>	-2.99	
05 05 23 00-1160	EA	1" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	55.58	
		<i>For >100 To 250, Deduct</i>	-1.99	
		<i>For >250 To 500, Deduct</i>	-2.49	
		<i>For >500, Deduct</i>	-2.99	
05 05 23 00-1161	EA	1" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	62.96	
		<i>For >100 To 250, Deduct</i>	-1.99	
		<i>For >250 To 500, Deduct</i>	-2.49	
		<i>For >500, Deduct</i>	-2.99	
05 05 23 00-1162	EA	1" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	73.24	
		<i>For >100 To 250, Deduct</i>	-2.03	
		<i>For >250 To 500, Deduct</i>	-2.54	
		<i>For >500, Deduct</i>	-3.05	
05 05 23 00-1163	EA	1" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	81.73	
		<i>For >100 To 250, Deduct</i>	-2.03	
		<i>For >250 To 500, Deduct</i>	-2.54	
		<i>For >500, Deduct</i>	-3.05	
05 05 23 00-1164	EA	1" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	82.95	
		<i>For >100 To 250, Deduct</i>	-2.03	
		<i>For >250 To 500, Deduct</i>	-2.54	
		<i>For >500, Deduct</i>	-3.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1165 EA 1" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	85.90	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1166 EA 1" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	87.06	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1167 EA 1" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	101.15	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1168 EA 1" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	114.75	
<i>For >100 To 250, Deduct</i>	-2.07	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1169 Screws <small>(05 05 23)</small>		
05 05 23 00-1170 Teks® 5 Self Drilling Screws <small>(05 05 23 00-1169)</small>		
Note: Screws include Climaseal® finish, self-drill point and tapping threads.		
05 05 23 00-1171 EA 12-24 x 1-1/4", Hex Washer Head, Teks® 5 Self Drilling Screw	3.49	
<i>For >10 To 50, Deduct</i>	-0.16	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100, Deduct</i>	-0.64	
05 05 23 00-1172 EA 12-24 x 1-1/2", Hex Washer Head, Teks® 5 Self Drilling Screw	3.62	
<i>For >10 To 50, Deduct</i>	-0.16	
<i>For >50 To 100, Deduct</i>	-0.33	
<i>For >100, Deduct</i>	-0.65	
05 05 23 00-1173 EA 12-24 x 2", Hex Washer Head, Teks® 5 Self Drilling Screw	4.02	
<i>For >10 To 50, Deduct</i>	-0.17	
<i>For >50 To 100, Deduct</i>	-0.35	
<i>For >100, Deduct</i>	-0.70	
05 05 23 00-1174 EA 1/4"-28 x 3", Hex Washer Head, Teks® 5 Self Drilling Screw	5.46	
<i>For >10 To 50, Deduct</i>	-0.21	
<i>For >50 To 100, Deduct</i>	-0.45	
<i>For >100, Deduct</i>	-0.90	
05 05 23 00-1175 EA 1/4"-28 x 4", Hex Washer Head, Teks® 5 Self Drilling Screw	5.81	
<i>For >10 To 50, Deduct</i>	-0.22	
<i>For >50 To 100, Deduct</i>	-0.47	
<i>For >100, Deduct</i>	-0.95	
05 05 23 00-1176 EA 1/4"-28 x 6", Hex Washer Head, Teks® 5 Self Drilling Screw	7.06	
<i>For >10 To 50, Deduct</i>	-0.23	
<i>For >50 To 100, Deduct</i>	-0.52	
<i>For >100, Deduct</i>	-1.04	
05 05 23 00-1177 EA 1/4"-28 x 8", Hex Washer Head, Teks® 5 Self Drilling Screw	7.84	
<i>For >10 To 50, Deduct</i>	-0.24	
<i>For >50 To 100, Deduct</i>	-0.56	
<i>For >100, Deduct</i>	-1.11	
05 05 23 00-1178 Security Screws <small>(05 05 23 00-1169)</small>		
05 05 23 00-1179 304/18-8 Stainless Steel, Security Screws <small>(05 05 23 00-1178)</small>		
Note: Includes "security" style drive in machine or sheet metal screw threads.		
05 05 23 00-1180 EA #4 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screws	2.78	
<i>For >10 To 50, Deduct</i>	-0.13	
<i>For >50 To 100, Deduct</i>	-0.27	
<i>For >100, Deduct</i>	-0.53	
05 05 23 00-1181 EA #6 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw	3.18	
<i>For >10 To 50, Deduct</i>	-0.13	
<i>For >50 To 100, Deduct</i>	-0.28	
<i>For >100, Deduct</i>	-0.55	
05 05 23 00-1182 EA #6 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw	3.52	
<i>For >10 To 50, Deduct</i>	-0.13	
<i>For >50 To 100, Deduct</i>	-0.29	
<i>For >100, Deduct</i>	-0.57	
05 05 23 00-1183 EA #6 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw	3.64	
<i>For >10 To 50, Deduct</i>	-0.13	
<i>For >50 To 100, Deduct</i>	-0.29	
<i>For >100, Deduct</i>	-0.58	
05 05 23 00-1184 EA #6 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw	3.86	
<i>For >10 To 50, Deduct</i>	-0.13	
<i>For >50 To 100, Deduct</i>	-0.29	
<i>For >100, Deduct</i>	-0.59	
05 05 23 00-1185 EA #8 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw	3.27	
<i>For >10 To 50, Deduct</i>	-0.13	
<i>For >50 To 100, Deduct</i>	-0.28	
<i>For >100, Deduct</i>	-0.56	
05 05 23 00-1186 EA #8 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw	3.43	
<i>For >10 To 50, Deduct</i>	-0.13	
<i>For >50 To 100, Deduct</i>	-0.28	
<i>For >100, Deduct</i>	-0.57	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1187 EA #8 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw	3.77	
For >10 To 50, Deduct	-0.13	
For >50 To 100, Deduct	-0.29	
For >100, Deduct	-0.58	
05 05 23 00-1188 EA #8 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw	3.87	
For >10 To 50, Deduct	-0.13	
For >50 To 100, Deduct	-0.29	
For >100, Deduct	-0.59	
05 05 23 00-1189 EA #10 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw	3.37	
For >10 To 50, Deduct	-0.13	
For >50 To 100, Deduct	-0.28	
For >100, Deduct	-0.56	
05 05 23 00-1190 EA #10 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw	3.41	
For >10 To 50, Deduct	-0.13	
For >50 To 100, Deduct	-0.28	
For >100, Deduct	-0.57	
05 05 23 00-1191 EA #10 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw	3.56	
For >10 To 50, Deduct	-0.13	
For >50 To 100, Deduct	-0.29	
For >100, Deduct	-0.57	
05 05 23 00-1192 EA #10 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw	4.02	
For >10 To 50, Deduct	-0.13	
For >50 To 100, Deduct	-0.30	
For >100, Deduct	-0.60	
05 05 23 00-1193 EA 1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw	3.64	
For >10 To 50, Deduct	-0.13	
For >50 To 100, Deduct	-0.29	
For >100, Deduct	-0.58	
05 05 23 00-1194 EA 1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw	3.74	
For >10 To 50, Deduct	-0.13	
For >50 To 100, Deduct	-0.29	
For >100, Deduct	-0.58	
05 05 23 00-1195 EA 1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw	4.18	
For >10 To 50, Deduct	-0.13	
For >50 To 100, Deduct	-0.30	
For >100, Deduct	-0.60	
05 05 23 00-1196 EA 1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw	4.88	
For >10 To 50, Deduct	-0.13	
For >50 To 100, Deduct	-0.32	
For >100, Deduct	-0.64	
05 05 23 00-1197 Threaded Rod <small>(05 05 23)</small>		
Note: Fully threaded. See CSI section 05 05 19 00-0169 for anchoring adhesive, 05 05 23 00-1290 for nuts and washers.		
05 05 23 00-1198 Plain Finish Steel, Low Carbon Threaded Rod <small>(05 05 23 00-1197)</small>		
05 05 23 00-1199 LF 1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	2.09	0.47
For Left Hand Threaded Rod, Add	0.11	
05 05 23 00-1200 LF 5/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	2.77	0.52
For Left Hand Threaded Rod, Add	0.17	
05 05 23 00-1201 LF 3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.21	0.60
For Left Hand Threaded Rod, Add	0.20	
05 05 23 00-1202 LF 7/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.38	0.62
For Left Hand Threaded Rod, Add	0.32	
05 05 23 00-1203 LF 1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.49	0.64
For Left Hand Threaded Rod, Add	0.32	
05 05 23 00-1204 LF 9/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	5.58	0.65
For Left Hand Threaded Rod, Add	0.43	
05 05 23 00-1205 LF 5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	6.30	0.66
For Left Hand Threaded Rod, Add	0.50	
05 05 23 00-1206 LF 3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	10.41	0.68
For Left Hand Threaded Rod, Add	0.91	
05 05 23 00-1207 LF 7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	11.36	0.70
For Left Hand Threaded Rod, Add	1.00	
05 05 23 00-1208 LF 1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	15.56	0.79
For Left Hand Threaded Rod, Add	1.40	
05 05 23 00-1209 LF 1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	19.41	0.88
For Left Hand Threaded Rod, Add	1.76	
05 05 23 00-1210 LF 1-1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	25.78	0.95
For Left Hand Threaded Rod, Add	2.38	
05 05 23 00-1211 LF 1-3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	32.10	1.04
For Left Hand Threaded Rod, Add	3.00	
05 05 23 00-1212 LF 1-1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	38.43	1.08
For Left Hand Threaded Rod, Add	3.63	
05 05 23 00-1213 LF 1-3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	47.17	1.13
For Left Hand Threaded Rod, Add	4.49	
05 05 23 00-1214 LF 2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	60.31	1.19
For Left Hand Threaded Rod, Add	5.79	
05 05 23 00-1215 Zinc Plated Steel, Low Carbon Threaded Rod <small>(05 05 23 00-1197)</small>		
05 05 23 00-1216 LF 1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	2.10	0.47
For Left Hand Threaded Rod, Add	0.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1217 LF 5/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	3.15 0.21	0.52
05 05 23 00-1218 LF 3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	3.50 0.23	0.60
05 05 23 00-1219 LF 7/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	5.09 0.39	0.62
05 05 23 00-1220 LF 1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	5.49 0.42	0.64
05 05 23 00-1221 LF 9/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	7.21 0.59	0.65
05 05 23 00-1222 LF 5/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	7.66 0.64	0.66
05 05 23 00-1223 LF 3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	11.58 1.02	0.68
05 05 23 00-1224 LF 7/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	15.04 1.36	0.70
05 05 23 00-1225 LF 1" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	20.20 1.86	0.79
05 05 23 00-1226 LF 1-1/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	26.12 2.44	0.88
05 05 23 00-1227 LF 1-1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	31.17 2.92	0.95
05 05 23 00-1228 LF 1-3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	35.45 3.34	1.04
05 05 23 00-1229 LF 1-1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	44.68 4.25	1.08
05 05 23 00-1230 LF 1-3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	55.41 5.31	1.13
05 05 23 00-1231 LF 2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	80.93 7.86	1.19
05 05 23 00-1232 Hot Dipped Galvanized Steel, Low Carbon Threaded Rod <small>(05 05 23 00-1197)</small>		
05 05 23 00-1233 LF 3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	5.84 0.47	0.60
05 05 23 00-1234 LF 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	8.21 0.69	0.64
05 05 23 00-1235 LF 5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	11.11 0.98	0.66
05 05 23 00-1236 LF 3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	15.30 1.40	0.68
05 05 23 00-1237 LF 7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	21.23 1.98	0.70
05 05 23 00-1238 LF 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	27.41 2.58	0.79
05 05 23 00-1239 LF 1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	36.10 3.43	0.88
05 05 23 00-1240 LF 1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	47.51 4.55	0.95
05 05 23 00-1241 LF 1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	53.10 5.10	1.04
05 05 23 00-1242 LF 1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	63.24 6.11	1.08
05 05 23 00-1243 LF 1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	76.87 7.46	1.13
05 05 23 00-1244 LF 2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	134.33 13.20	1.19
05 05 23 00-1245 304/18-8 Stainless Steel Threaded Rod <small>(05 05 23 00-1197)</small>		
05 05 23 00-1246 LF 1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	3.04 0.21	0.47
05 05 23 00-1247 LF 5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	4.63 0.36	0.52
05 05 23 00-1248 LF 3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	5.97 0.48	0.60
05 05 23 00-1249 LF 7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	8.34 0.71	0.62
05 05 23 00-1250 LF 1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	10.03 0.88	0.64
05 05 23 00-1251 LF 9/16" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	14.47 1.32	0.65
05 05 23 00-1252 LF 5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	15.10 1.38	0.66
05 05 23 00-1253 LF 3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	21.21 1.99	0.68
05 05 23 00-1254 LF 7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	29.22 2.78	0.70
05 05 23 00-1255 LF 1" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	37.50 3.59	0.79
05 05 23 00-1256 LF 1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	79.55 7.76	0.95
05 05 23 00-1257 LF 1-1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	121.20 11.90	1.08

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1258	LF	1-3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	124.67 12.24	1.13
05 05 23 00-1259	LF	2" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	172.59 17.02	1.19
05 05 23 00-1260		316 Stainless Steel Threaded Rod (05 05 23 00-1197)		
05 05 23 00-1261	LF	1/4" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	4.45 0.35	0.47
05 05 23 00-1262	LF	5/16" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	7.24 0.62	0.52
05 05 23 00-1263	LF	3/8" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	9.63 0.84	0.60
05 05 23 00-1264	LF	7/16" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	15.10 1.39	0.62
05 05 23 00-1265	LF	1/2" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	16.02 1.48	0.64
05 05 23 00-1266	LF	9/16" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	21.05 1.98	0.65
05 05 23 00-1267	LF	5/8" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	22.66 2.14	0.66
05 05 23 00-1268	LF	3/4" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	33.10 3.18	0.68
05 05 23 00-1269	LF	7/8" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	45.36 4.40	0.70
05 05 23 00-1270	LF	1" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	57.42 5.58	0.79
05 05 23 00-1271	LF	1-1/4" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	121.39 11.94	0.95
05 05 23 00-1272	LF	1-1/2" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	159.14 15.70	1.08
05 05 23 00-1273		Plain Finish Steel, B-7 Alloy Threaded Rod (05 05 23 00-1197)		
05 05 23 00-1274	LF	1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	3.69 1.37	0.47
05 05 23 00-1275	LF	5/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	5.75 2.35	0.52
05 05 23 00-1276	LF	3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	6.00 2.41	0.60
05 05 23 00-1277	LF	7/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	6.56 2.67	0.62
05 05 23 00-1278	LF	1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	7.24 2.99	0.64
05 05 23 00-1279	LF	9/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	9.08 3.90	0.65
05 05 23 00-1280	LF	5/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	9.37 4.03	0.66
05 05 23 00-1281	LF	3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	12.49 5.57	0.68
05 05 23 00-1282	LF	7/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	15.00 6.80	0.70
05 05 23 00-1283	LF	1" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	19.48 8.95	0.79
05 05 23 00-1284	LF	1-1/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	25.40 11.82	0.88
05 05 23 00-1285	LF	1-1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	28.27 13.14	0.95
05 05 23 00-1286	LF	1-3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	32.65 15.29	1.04
05 05 23 00-1287	LF	1-1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	39.74 18.79	1.08
05 05 23 00-1288	LF	1-3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	41.09 19.41	1.13
05 05 23 00-1289	LF	2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	55.23 26.43	1.19
05 05 23 00-1290		Nuts And Washers (05 05 23)		
05 05 23 00-1291		Hex Nuts (05 05 23 00-1290)		
05 05 23 00-1292		Zinc Plated Steel, Low Carbon/Grade 2 Hex Nuts (05 05 23 00-1291)		
05 05 23 00-1293	EA	1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.59	0.26
05 05 23 00-1294	EA	5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.65	0.26
05 05 23 00-1295	EA	3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.70	0.26
05 05 23 00-1296	EA	7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.83	0.26
05 05 23 00-1297	EA	1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.91	0.26
05 05 23 00-1298	EA	9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.21	0.26
05 05 23 00-1299	EA	5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.26	0.26
05 05 23 00-1300	EA	3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.50	0.52
05 05 23 00-1301	EA	7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	2.24	0.52
05 05 23 00-1302	EA	1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	2.86	0.52



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1303 EA 1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	4.73	0.52
05 05 23 00-1304 EA 1-1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	5.79	0.52
05 05 23 00-1305 EA 1-3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	8.59	0.52
05 05 23 00-1306 EA 1-1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	9.96	0.79
05 05 23 00-1307 EA 1-3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	14.67	0.79
05 05 23 00-1308 EA 2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	21.27	0.79
05 05 23 00-1309 Zinc Plated Steel, Grade 5 Hex Nuts <small>(05 05 23 00-1291)</small>		
05 05 23 00-1310 EA 1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.61	0.26
05 05 23 00-1311 EA 5/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.66	0.26
05 05 23 00-1312 EA 3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.73	0.26
05 05 23 00-1313 EA 7/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.87	0.26
05 05 23 00-1314 EA 1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.02	0.26
05 05 23 00-1315 EA 9/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.25	0.26
05 05 23 00-1316 EA 5/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.28	0.26
05 05 23 00-1317 EA 3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.71	0.52
05 05 23 00-1318 EA 7/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	2.45	0.52
05 05 23 00-1319 EA 1" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	3.48	0.52
05 05 23 00-1320 EA 1-1/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	5.35	0.52
05 05 23 00-1321 EA 1-1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	7.61	0.52
05 05 23 00-1322 EA 1-3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	11.23	0.52
05 05 23 00-1323 EA 1-1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	12.41	0.79
05 05 23 00-1324 EA 1-3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	22.49	0.79
05 05 23 00-1325 EA 2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	32.31	0.79
05 05 23 00-1326 Zinc Plated Steel, Grade 8 Hex Nuts <small>(05 05 23 00-1291)</small>		
05 05 23 00-1327 EA 1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.62	0.26
05 05 23 00-1328 EA 5/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.72	0.26
05 05 23 00-1329 EA 3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.79	0.26
05 05 23 00-1330 EA 7/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.00	0.26
05 05 23 00-1331 EA 1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.21	0.26
05 05 23 00-1332 EA 9/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.46	0.26
05 05 23 00-1333 EA 5/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.67	0.26
05 05 23 00-1334 EA 3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	2.09	0.52
05 05 23 00-1335 EA 7/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	3.18	0.52
05 05 23 00-1336 EA 1" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	4.25	0.52
05 05 23 00-1337 EA 1-1/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	6.71	0.52
05 05 23 00-1338 EA 1-1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	8.39	0.52
05 05 23 00-1339 EA 1-3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	13.90	0.52
05 05 23 00-1340 EA 1-1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	14.75	0.79
05 05 23 00-1341 EA 1-3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	22.56	0.79
05 05 23 00-1342 EA 2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	31.95	0.79
05 05 23 00-1343 Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nuts <small>(05 05 23 00-1291)</small>		
05 05 23 00-1344 EA 1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.62	0.26
05 05 23 00-1345 EA 5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.70	0.26
05 05 23 00-1346 EA 3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.76	0.26
05 05 23 00-1347 EA 7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.98	0.26
05 05 23 00-1348 EA 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.13	0.26
05 05 23 00-1349 EA 9/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.26	0.26
05 05 23 00-1350 EA 5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.40	0.26
05 05 23 00-1351 EA 3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.90	0.52
05 05 23 00-1352 EA 7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	2.80	0.52
05 05 23 00-1353 EA 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	3.88	0.52
05 05 23 00-1354 EA 1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	6.49	0.52
05 05 23 00-1355 EA 1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	8.34	0.52
05 05 23 00-1356 EA 1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	12.44	0.52
05 05 23 00-1357 EA 1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	14.53	0.79
05 05 23 00-1358 EA 1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	25.42	0.79
05 05 23 00-1359 EA 2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	44.09	0.79
05 05 23 00-1360 304 Stainless Steel Hex Nuts <small>(05 05 23 00-1291)</small>		
05 05 23 00-1361 EA 1/4" Diameter, 304 Stainless Steel Hex Nut	0.69	0.26
05 05 23 00-1362 EA 5/16" Diameter, 304 Stainless Steel Hex Nut	0.81	0.26
05 05 23 00-1363 EA 3/8" Diameter, 304 Stainless Steel Hex Nut	0.92	0.26
05 05 23 00-1364 EA 7/16" Diameter, 304 Stainless Steel Hex Nut	1.38	0.26
05 05 23 00-1365 EA 1/2" Diameter, 304 Stainless Steel Hex Nut	1.50	0.26
05 05 23 00-1366 EA 9/16" Diameter, 304 Stainless Steel Hex Nut	2.28	0.26
05 05 23 00-1367 EA 5/8" Diameter, 304 Stainless Steel Hex Nut	2.55	0.26
05 05 23 00-1368 EA 3/4" Diameter, 304 Stainless Steel Hex Nut	2.94	0.52
05 05 23 00-1369 EA 7/8" Diameter, 304 Stainless Steel Hex Nut	4.84	0.52
05 05 23 00-1370 EA 1" Diameter, 304 Stainless Steel Hex Nut	7.43	0.52
05 05 23 00-1371 EA 1-1/4" Diameter, 304 Stainless Steel Hex Nut	17.90	0.52
05 05 23 00-1372 EA 1-1/2" Diameter, 304 Stainless Steel Hex Nut	34.43	0.79
05 05 23 00-1373 EA 1-3/4" Diameter, 304 Stainless Steel Hex Nut	60.57	0.79
05 05 23 00-1374 EA 2" Diameter, 304 Stainless Steel Hex Nut	86.36	0.79

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1375			316 Stainless Steel Hex Nuts (05 05 23 00-1291)		
05 05 23 00-1376	EA		1/4" Diameter, 316 Stainless Steel Hex Nut.....	0.81	0.26
05 05 23 00-1377	EA		5/16" Diameter, 316 Stainless Steel Hex Nut.....	0.92	0.26
05 05 23 00-1378	EA		3/8" Diameter, 316 Stainless Steel Hex Nut.....	1.10	0.26
05 05 23 00-1379	EA		7/16" Diameter, 316 Stainless Steel Hex Nut.....	1.83	0.26
05 05 23 00-1380	EA		1/2" Diameter, 316 Stainless Steel Hex Nut.....	1.96	0.26
05 05 23 00-1381	EA		9/16" Diameter, 316 Stainless Steel Hex Nut.....	2.67	0.26
05 05 23 00-1382	EA		5/8" Diameter, 316 Stainless Steel Hex Nut.....	3.02	0.26
05 05 23 00-1383	EA		3/4" Diameter, 316 Stainless Steel Hex Nut.....	4.23	0.52
05 05 23 00-1384	EA		7/8" Diameter, 316 Stainless Steel Hex Nut.....	5.90	0.52
05 05 23 00-1385	EA		1" Diameter, 316 Stainless Steel Hex Nut.....	9.11	0.52
05 05 23 00-1386	EA		1-1/4" Diameter, 316 Stainless Steel Hex Nut.....	27.78	0.52
05 05 23 00-1387	EA		1-1/2" Diameter, 316 Stainless Steel Hex Nut.....	44.97	0.79
05 05 23 00-1388	EA		1-3/4" Diameter, 316 Stainless Steel Hex Nut.....	75.92	0.79
05 05 23 00-1389	EA		2" Diameter, 316 Stainless Steel Hex Nut.....	141.20	0.79
05 05 23 00-1390			Flat Washers (05 05 23 00-1290)		
05 05 23 00-1391			Zinc Plated Steel, Low Carbon Flat Washers (05 05 23 00-1390)		
05 05 23 00-1392	EA		1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.05	
05 05 23 00-1393	EA		5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.08	
05 05 23 00-1394	EA		3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.14	
05 05 23 00-1395	EA		7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.21	
05 05 23 00-1396	EA		1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.30	
05 05 23 00-1397	EA		9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.34	
05 05 23 00-1398	EA		5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.58	
05 05 23 00-1399	EA		3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.83	
05 05 23 00-1400	EA		7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.99	
05 05 23 00-1401	EA		1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.21	
05 05 23 00-1402	EA		1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.37	
05 05 23 00-1403	EA		1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.64	
05 05 23 00-1404	EA		1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	2.57	
05 05 23 00-1405	EA		1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	2.64	
05 05 23 00-1406	EA		1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	3.90	
05 05 23 00-1407	EA		2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	4.85	
05 05 23 00-1408			Zinc Plated Steel, Hardened Flat Washers (05 05 23 00-1390)		
05 05 23 00-1409	EA		1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.18	
05 05 23 00-1410	EA		5/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.24	
05 05 23 00-1411	EA		3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.28	
05 05 23 00-1412	EA		7/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.38	
05 05 23 00-1413	EA		1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.52	
05 05 23 00-1414	EA		9/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.83	
05 05 23 00-1415	EA		5/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	1.19	
05 05 23 00-1416	EA		3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	1.68	
05 05 23 00-1417	EA		7/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	2.80	
05 05 23 00-1418	EA		1" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	3.10	
05 05 23 00-1419	EA		1-1/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	4.52	
05 05 23 00-1420	EA		1-1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	4.93	
05 05 23 00-1421	EA		1-3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	6.50	
05 05 23 00-1422	EA		1-1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	7.43	
05 05 23 00-1423	EA		1-3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	9.99	
05 05 23 00-1424	EA		2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	11.99	
05 05 23 00-1425			Hot Dipped Galvanized Steel Flat Washers (05 05 23 00-1390)		
05 05 23 00-1426	EA		1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.12	
05 05 23 00-1427	EA		5/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.17	
05 05 23 00-1428	EA		3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.19	
05 05 23 00-1429	EA		7/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.35	
05 05 23 00-1430	EA		1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.45	
05 05 23 00-1431	EA		9/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.73	
05 05 23 00-1432	EA		5/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.82	
05 05 23 00-1433	EA		3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	1.24	
05 05 23 00-1434	EA		7/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	1.75	
05 05 23 00-1435	EA		1" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	1.92	
05 05 23 00-1436	EA		1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	2.93	
05 05 23 00-1437	EA		1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	3.26	
05 05 23 00-1438	EA		1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	4.66	
05 05 23 00-1439	EA		1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	5.05	
05 05 23 00-1440	EA		1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	7.33	
05 05 23 00-1441			304/18-8 Stainless Steel Flat Washers (05 05 23 00-1390)		
05 05 23 00-1442	EA		1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.13	
05 05 23 00-1443	EA		5/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.17	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1444	EA			3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.25	
05 05 23 00-1445	EA			7/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.46	
05 05 23 00-1446	EA			1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.83	
05 05 23 00-1447	EA			9/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	1.04	
05 05 23 00-1448	EA			5/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	1.53	
05 05 23 00-1449	EA			3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	1.55	
05 05 23 00-1450	EA			7/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	3.27	
05 05 23 00-1451	EA			1" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	4.15	
05 05 23 00-1452	EA			1-1/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	4.83	
05 05 23 00-1453	EA			1-1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	5.20	
05 05 23 00-1454	EA			1-3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	5.49	
05 05 23 00-1455	EA			1-1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	6.70	
05 05 23 00-1456	EA			1-3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	8.32	
05 05 23 00-1457	EA			2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	16.35	
05 05 23 00-1458				316 Stainless Steel Flat Washers (05 05 23 00-1390)		
05 05 23 00-1459	EA			1/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.25	
05 05 23 00-1460	EA			5/16" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.28	
05 05 23 00-1461	EA			3/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.49	
05 05 23 00-1462	EA			7/16" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.58	
05 05 23 00-1463	EA			1/2" Inside Diameter, 316 Stainless Steel Flat Washer.....	1.08	
05 05 23 00-1464	EA			9/16" Inside Diameter, 316 Stainless Steel Flat Washer.....	1.94	
05 05 23 00-1465	EA			5/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	2.29	
05 05 23 00-1466	EA			3/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	2.88	
05 05 23 00-1467	EA			7/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	4.46	
05 05 23 00-1468	EA			1" Inside Diameter, 316 Stainless Steel Flat Washer.....	4.99	
05 05 23 00-1469	EA			1-1/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	5.69	
05 05 23 00-1470	EA			1-1/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	7.00	
05 05 23 00-1471	EA			1-3/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	7.40	
05 05 23 00-1472	EA			1-1/2" Inside Diameter, 316 Stainless Steel Flat Washer.....	7.57	
05 05 23 00-1473	EA			1-3/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	11.09	
05 05 23 00-1474				Lock Washers (05 05 23 00-1290)		
05 05 23 00-1475				Zinc Plated Steel, Low Carbon Lock Washers (05 05 23 00-1474)		
05 05 23 00-1476	EA			1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.02	
05 05 23 00-1477	EA			5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.04	
05 05 23 00-1478	EA			3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.05	
05 05 23 00-1479	EA			7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.08	
05 05 23 00-1480	EA			1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.12	
05 05 23 00-1481	EA			9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.19	
05 05 23 00-1482	EA			5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.22	
05 05 23 00-1483	EA			3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.33	
05 05 23 00-1484	EA			7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.55	
05 05 23 00-1485	EA			1" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.99	
05 05 23 00-1486	EA			1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	1.45	
05 05 23 00-1487	EA			1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	2.23	
05 05 23 00-1488	EA			1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	3.52	
05 05 23 00-1489	EA			1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	4.14	
05 05 23 00-1490	EA			1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	7.39	
05 05 23 00-1491	EA			2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	8.33	
05 05 23 00-1492				Hot Dipped Galvanized Steel Lock Washers (05 05 23 00-1474)		
05 05 23 00-1493	EA			1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.09	
05 05 23 00-1494	EA			5/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.11	
05 05 23 00-1495	EA			3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.14	
05 05 23 00-1496	EA			7/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.16	
05 05 23 00-1497	EA			1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.25	
05 05 23 00-1498	EA			9/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.32	
05 05 23 00-1499	EA			5/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.38	
05 05 23 00-1500	EA			3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.64	
05 05 23 00-1501	EA			7/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.92	
05 05 23 00-1502	EA			1" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	1.45	
05 05 23 00-1503	EA			1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	2.62	
05 05 23 00-1504	EA			1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	3.13	
05 05 23 00-1505	EA			1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	4.52	
05 05 23 00-1506	EA			1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	5.17	
05 05 23 00-1507	EA			1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	7.00	
05 05 23 00-1508	EA			2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	9.53	
05 05 23 00-1509				304/18-8 Stainless Steel Lock Washers (05 05 23 00-1474)		
05 05 23 00-1510	EA			1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.11	
05 05 23 00-1511	EA			5/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.15	
05 05 23 00-1512	EA			3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.21	
05 05 23 00-1513	EA			7/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.40	
05 05 23 00-1514	EA			1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.44	
05 05 23 00-1515	EA			9/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	1.07	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1516 EA 5/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	1.26	
05 05 23 00-1517 EA 3/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	1.47	
05 05 23 00-1518 EA 7/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	2.66	
05 05 23 00-1519 EA 1" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	3.76	
05 05 23 00-1520 EA 1-1/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	6.56	
05 05 23 00-1521 EA 1-1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	8.72	
05 05 23 00-1522 EA 1-3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	11.09	
05 05 23 00-1523 EA 1-1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	13.31	
05 05 23 00-1524 316 Stainless Steel Lock Washers (05 05 23 00-1474)		
05 05 23 00-1525 EA 1/4" Inside Diameter, 316 Stainless Steel Lock Washer	0.13	
05 05 23 00-1526 EA 5/16" Inside Diameter, 316 Stainless Steel Lock Washer	0.29	
05 05 23 00-1527 EA 3/8" Inside Diameter, 316 Stainless Steel Lock Washer	0.34	
05 05 23 00-1528 EA 7/16" Inside Diameter, 316 Stainless Steel Lock Washer	0.58	
05 05 23 00-1529 EA 1/2" Inside Diameter, 316 Stainless Steel Lock Washer	0.64	
05 05 23 00-1530 EA 9/16" Inside Diameter, 316 Stainless Steel Lock Washer	1.14	
05 05 23 00-1531 EA 5/8" Inside Diameter, 316 Stainless Steel Lock Washer	1.25	
05 05 23 00-1532 EA 3/4" Inside Diameter, 316 Stainless Steel Lock Washer	2.16	
05 05 23 00-1533 EA 7/8" Inside Diameter, 316 Stainless Steel Lock Washer	3.58	
05 05 23 00-1534 EA 1" Inside Diameter, 316 Stainless Steel Lock Washer	4.87	
05 05 23 00-1535 EA 1-1/8" Inside Diameter, 316 Stainless Steel Lock Washer	6.79	
05 05 23 00-1536 EA 1-1/4" Inside Diameter, 316 Stainless Steel Lock Washer	10.46	
05 05 23 00-1537 EA 1-3/8" Inside Diameter, 316 Stainless Steel Lock Washer	18.72	
05 05 23 00-1538 EA 1-1/2" Inside Diameter, 316 Stainless Steel Lock Washer	20.79	
05 05 23 00-1539 Load Indicating Washers (05 05 23 00-1290)		
05 05 23 00-1540 A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1539)		
05 05 23 00-1541 Plain Finish, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1540)		
05 05 23 00-1542 EA 1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	2.41	
05 05 23 00-1543 EA 5/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	2.73	
05 05 23 00-1544 EA 3/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	2.94	
05 05 23 00-1545 EA 7/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	3.34	
05 05 23 00-1546 EA 1", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	4.04	
05 05 23 00-1547 EA 1-1/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	6.72	
05 05 23 00-1548 EA 1-1/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	8.67	
05 05 23 00-1549 EA 1-3/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	11.07	
05 05 23 00-1550 EA 1-1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	12.18	
05 05 23 00-1551 Galvanized, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1540)		
05 05 23 00-1552 EA 1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	3.05	
05 05 23 00-1553 EA 5/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	3.40	
05 05 23 00-1554 EA 3/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	3.30	
05 05 23 00-1555 EA 7/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	4.04	
05 05 23 00-1556 EA 1", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	4.78	
05 05 23 00-1557 EA 1-1/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	7.21	
05 05 23 00-1558 EA 1-1/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	9.07	
05 05 23 00-1559 EA 1-3/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	12.91	
05 05 23 00-1560 EA 1-1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	14.20	
05 05 23 00-1561 Beveled Washers (05 05 23 00-1290)		
05 05 23 00-1562 Plain Finish, Square Beveled Structural Washers (ASTM F436) (05 05 23 00-1561)		
05 05 23 00-1563 EA 1/2", Plain Finish, Square Beveled Structural Washer (ASTM F436)	3.98	
05 05 23 00-1564 EA 5/8", Plain Finish, Square Beveled Structural Washer (ASTM F436)	4.06	
05 05 23 00-1565 EA 3/4", Plain Finish, Square Beveled Structural Washer (ASTM F436)	4.16	
05 05 23 00-1566 EA 7/8", Plain Finish, Square Beveled Structural Washer (ASTM F436)	5.05	
05 05 23 00-1567 EA 1", Plain Finish, Square Beveled Structural Washer (ASTM F436)	5.32	
05 05 23 00-1568 Galvanized, Square Beveled Structural Washers (ASTM F436) (05 05 23 00-1561)		
05 05 23 00-1569 EA 1/2", Galvanized, Square Beveled Structural Washer (ASTM F436)	5.73	
05 05 23 00-1570 EA 5/8", Galvanized, Square Beveled Structural Washer (ASTM F436)	5.98	
05 05 23 00-1571 EA 3/4", Galvanized, Square Beveled Structural Washer (ASTM F436)	5.98	
05 05 23 00-1572 EA 7/8", Galvanized, Square Beveled Structural Washer (ASTM F436)	6.33	
05 05 23 00-1573 EA 1", Galvanized, Square Beveled Structural Washer (ASTM F436)	6.73	
05 05 23 00-1574 Welded Stud Anchors (05 05 23)		
05 05 23 00-1575 EA 1-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors	3.49	
05 05 23 00-1576 EA 2-1/16" Long x 1/4" Diameter, Welded Stud Concrete Anchors	3.56	
05 05 23 00-1577 EA 3-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors	3.59	
05 05 23 00-1578 EA 4-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors	3.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1579 EA 1-3/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors	3.47	
05 05 23 00-1580 EA 1-5/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors	3.64	
05 05 23 00-1581 EA 2-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors	3.81	
05 05 23 00-1582 EA 2-5/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors	3.90	
05 05 23 00-1583 EA 3-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors	3.99	
05 05 23 00-1584 EA 4-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors	4.35	
05 05 23 00-1585 EA 5-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors	4.64	
05 05 23 00-1586 EA 6-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors	4.88	
05 05 23 00-1587 EA 1-1/2" Long x 1/2" Diameter, Welded Stud Concrete Anchors	4.22	
05 05 23 00-1588 EA 1-5/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors	4.24	
05 05 23 00-1589 EA 2-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors	4.51	
05 05 23 00-1590 EA 2-5/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors	4.77	
05 05 23 00-1591 EA 3-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors	5.08	
05 05 23 00-1592 EA 4-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors	5.56	
05 05 23 00-1593 EA 5-5/16" Long x 1/2" Diameter, Welded Stud Concrete Anchors	5.88	
05 05 23 00-1594 EA 6-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors	6.73	
05 05 23 00-1595 EA 8-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors	8.35	
05 05 23 00-1596 EA 2-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors	5.93	
05 05 23 00-1597 EA 3-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors	6.34	
05 05 23 00-1598 EA 3-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors	6.67	
05 05 23 00-1599 EA 4-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors	7.01	
05 05 23 00-1600 EA 4-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors	7.28	
05 05 23 00-1601 EA 5-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors	7.53	
05 05 23 00-1602 EA 6-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors	7.86	
05 05 23 00-1603 EA 6-9/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors	9.25	
05 05 23 00-1604 EA 8-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors	11.16	
05 05 23 00-1605 Welded Shear Stud Connector (05 05 23)		
05 05 23 00-1606 3/4" Diameter Welded Shear Stud Connector (05 05 23 00-1605)		
05 05 23 00-1607 EA 3/4" Diameter x 3-3/16" Long, Welded Shear Stud Connector.....	7.55	
05 05 23 00-1608 EA 3/4" Diameter x 3-3/8" Long, Welded Shear Stud Connector.....	7.84	
05 05 23 00-1609 EA 3/4" Diameter x 3-7/8" Long, Welded Shear Stud Connector.....	7.92	
05 05 23 00-1610 EA 3/4" Diameter x 4-3/16" Long, Welded Shear Stud Connector.....	7.96	
05 05 23 00-1611 EA 3/4" Diameter x 4-3/8" Long, Welded Shear Stud Connector.....	8.29	
05 05 23 00-1612 EA 3/4" Diameter x 4-11/16" Long, Welded Shear Stud Connector.....	8.90	
05 05 23 00-1613 EA 3/4" Diameter x 4-7/8" Long, Welded Shear Stud Connector.....	14.76	
05 05 23 00-1614 EA 3/4" Diameter x 5-3/16" Long, Welded Shear Stud Connector.....	9.60	
05 05 23 00-1615 EA 3/4" Diameter x 5-3/8" Long, Welded Shear Stud Connector.....	10.67	
05 05 23 00-1616 EA 3/4" Diameter x 6-3/16" Long, Welded Shear Stud Connector.....	14.12	
05 05 23 00-1617 EA 3/4" Diameter x 7-3/16" Long, Welded Shear Stud Connector.....	14.45	
05 05 23 00-1618 EA 3/4" Diameter x 8-3/16" Long, Welded Shear Stud Connector.....	15.62	
05 05 23 00-1619 EA 3/4" Diameter x 10-3/16" Long, Welded Shear Stud Connector.....	20.53	
05 05 23 00-1620 7/8" Diameter Welded Shear Stud Connector (05 05 23 00-1605)		
05 05 23 00-1621 EA 7/8" Diameter x 3-3/16" Long, Welded Shear Stud Connector.....	9.01	
05 05 23 00-1622 EA 7/8" Diameter x 3-11/16" Long, Welded Shear Stud Connector.....	9.48	
05 05 23 00-1623 EA 7/8" Diameter x 4-3/16" Long, Welded Shear Stud Connector.....	9.95	
05 05 23 00-1624 EA 7/8" Diameter x 5-3/16" Long, Welded Shear Stud Connector.....	11.29	
05 05 23 00-1625 EA 7/8" Diameter x 6-3/16" Long, Welded Shear Stud Connector.....	14.84	
05 05 23 00-1626 EA 7/8" Diameter x 7-3/16" Long, Welded Shear Stud Connector.....	16.26	
05 05 23 00-1627 EA 7/8" Diameter x 8-3/16" Long, Welded Shear Stud Connector.....	17.67	
05 05 23 00-1628 EA 7/8" Diameter x 10-3/16" Long, Welded Shear Stud Connector.....	21.60	
05 05 23 00-1629 1" Diameter Welded Shear Stud Connector (05 05 23 00-1605)		
05 05 23 00-1630 EA 1" Diameter x 3-1/4" Long, Welded Shear Stud Connector.....	12.07	
05 05 23 00-1631 EA 1" Diameter x 4-1/4" Long, Welded Shear Stud Connector.....	13.51	
05 05 23 00-1632 EA 1" Diameter x 5-1/4" Long, Welded Shear Stud Connector.....	15.64	
05 05 23 00-1633 EA 1" Diameter x 6-1/4" Long, Welded Shear Stud Connector.....	20.16	
05 05 23 00-1634 EA 1" Diameter x 7-1/4" Long, Welded Shear Stud Connector.....	22.38	
05 05 23 00-1635 EA 1" Diameter x 8-1/4" Long, Welded Shear Stud Connector.....	24.61	
05 10 Structural Metal Framing (05)		
05 12 Structural Steel Framing (05 10)		
05 12 23 Structural Steel for Buildings (05 12)		
See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0117 for field fabrication of additional structural metal connections.		
05 12 23 00-0001 Rolled Steel Members (05 12 23)		
Note: Prices by Ton (or LB) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding. See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0117 for field fabrication of additional structural metal connections.		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0002			Beams, Girders And Columns (05 12 23 00-0001) Note: For one and two story I beams and W shapes and HP shapes.		
05 12 23 00-0003	TON		Up To 30 LB/LF Beams, Girders And Columns.....	7,672.03	1,133.53
			For ASTM A242 Type 2 High Strength Steel, Add	426.16	
			For Hot Dip Galvanizing, Add	1,491.55	
05 12 23 00-0004	TON		>30-65 LB/LF Beams, Girders And Columns.....	5,153.58	732.75
			For ASTM A242 Type 2 High Strength Steel, Add	349.75	
			For Hot Dip Galvanizing, Add	1,224.13	
05 12 23 00-0005	TON		>65-100 LB/LF Beams, Girders And Columns.....	4,320.98	412.21
			For ASTM A242 Type 2 High Strength Steel, Add	310.50	
			For Hot Dip Galvanizing, Add	1,086.76	
05 12 23 00-0006	TON		>100-300 LB/LF Beams, Girders And Columns.....	2,887.83	219.41
			For ASTM A242 Type 2 High Strength Steel, Add	212.27	
			For Hot Dip Galvanizing, Add	742.93	
05 12 23 00-0007			Trusses, Built-Up (05 12 23 00-0001)		
05 12 23 00-0008	TON		Built-Up Trusses, Rolled Structural Steel Members.....	5,466.62	770.90
			For ASTM A242 Type 2 High Strength Steel, Add	371.58	
			For Hot Dip Galvanizing, Add	1,300.53	
05 12 23 00-0009			Shapes (05 12 23 00-0001)		
05 12 23 00-0010			Rolled Shape Steel Angles (05 12 23 00-0009)		
05 12 23 00-0011	TON		Up To 10 LB/LF Rolled Shape Steel Angles.....	11,204.98	2,107.25
			For ASTM A242 Type 2 High Strength Steel, Add	615.43	
			For Hot Dip Galvanizing, Add	2,154.01	
05 12 23 00-0012	TON		>10 To 20 LB/LF Rolled Shape Steel Angles.....	9,704.11	1,236.65
			For ASTM A242 Type 2 High Strength Steel, Add	588.72	
			For Hot Dip Galvanizing, Add	2,060.53	
05 12 23 00-0013	TON		>20 To 58 LB/LF Rolled Shape Steel Angles.....	7,255.20	732.75
			For ASTM A242 Type 2 High Strength Steel, Add	517.89	
			For Hot Dip Galvanizing, Add	1,812.62	
05 12 23 00-0014			Rolled C, MC Steel Channels (05 12 23 00-0009)		
05 12 23 00-0015	TON		Up To 10 LB/LF Rolled C, MC Steel Channels.....	12,408.61	2,885.51
			For ASTM A242 Type 2 High Strength Steel, Add	606.14	
			For Hot Dip Galvanizing, Add	2,121.50	
05 12 23 00-0016	TON		>10 To 20 Rolled C, MC Steel Channels.....	9,602.50	2,198.48
			For ASTM A242 Type 2 High Strength Steel, Add	580.60	
			For Hot Dip Galvanizing, Add	2,032.08	
05 12 23 00-0017	TON		>20 To 58 LB/LF Rolled C, MC Steel Channels.....	7,139.08	732.75
			For ASTM A242 Type 2 High Strength Steel, Add	508.60	
			For Hot Dip Galvanizing, Add	1,780.11	
05 12 23 00-0018			Double L Shape Steel Angles (05 12 23 00-0009)		
05 12 23 00-0019	TON		Up To 20 LB/LF Double L Shape Steel Angles.....	10,329.33	1,671.95
			For ASTM A242 Type 2 High Strength Steel, Add	592.21	
			For Hot Dip Galvanizing, Add	2,072.73	
05 12 23 00-0020	TON		>20 To 50 LB/LF Double L Shape Steel Angles.....	7,748.71	732.75
			For ASTM A242 Type 2 High Strength Steel, Add	557.37	
			For Hot Dip Galvanizing, Add	1,950.80	
05 12 23 00-0021	TON		>50 To 80 LB/LF Double L Shape Steel Angles.....	5,810.20	412.21
			For ASTM A242 Type 2 High Strength Steel, Add	429.64	
			For Hot Dip Galvanizing, Add	1,503.74	
05 12 23 00-0022	TON		>80 To 115 LB/LF Double L Shape Steel Angles.....	3,717.71	219.74
			For ASTM A242 Type 2 High Strength Steel, Add	278.69	
			For Hot Dip Galvanizing, Add	975.40	
05 12 23 00-0023			Structural WT, MT, ST Tee Shapes (05 12 23 00-0001)		
05 12 23 00-0024	TON		Up To 30 LB/LF Structural WT, MT, ST Tee Shapes.....	9,312.21	1,236.65
			For ASTM A242 Type 2 High Strength Steel, Add	557.37	
			For Hot Dip Galvanizing, Add	1,950.80	
05 12 23 00-0025	TON		>30 To 65 LB/LF Structural WT, MT, ST Tee Shapes.....	6,108.65	732.75
			For ASTM A242 Type 2 High Strength Steel, Add	426.16	
			For Hot Dip Galvanizing, Add	1,491.55	
05 12 23 00-0026	TON		>65 To 100 LB/LF Structural WT, MT, ST Tee Shapes.....	4,794.16	412.21
			For ASTM A242 Type 2 High Strength Steel, Add	348.36	
			For Hot Dip Galvanizing, Add	1,219.25	
05 12 23 00-0027	TON		>100 To 365 LB/LF Structural WT, MT, ST Tee Shapes.....	3,514.87	219.41
			For ASTM A242 Type 2 High Strength Steel, Add	262.43	
			For Hot Dip Galvanizing, Add	918.50	
05 12 23 00-0028			Combination Section Shapes (05 12 23 00-0001)		
05 12 23 00-0029			Combination Section, W Shapes And Angles (05 12 23 00-0028)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 12 23 00-0030		TON	Up To 30 LB/LF Combination Section - W Shapes And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	8,862.24 521.37 1,824.81	1,236.65
	05 12 23 00-0031		TON	>30-65 LB/LF Combination Section - W Shapes And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	6,152.21 429.64 1,503.75	732.75
	05 12 23 00-0032		TON	>65-100 LB/LF Combination Section - W Shapes And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	4,431.28 319.33 1,117.65	412.21
	05 12 23 00-0033		TON	>100-300 LB/LF Combination Section - W Shapes And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	3,804.81 285.65 999.79	219.41
	05 12 23 00-0034		TON	>300-500 LB/LF Combination Section - W Shapes And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	3,266.99 251.98 881.93	110.15
	05 12 23 00-0035			Combination Section, S Shapes And Angles <small>(05 12 23 00-0028)</small>		
	05 12 23 00-0036		TON	>30-65 LB/LF Combination Section - S Shapes And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	5,919.96 411.06 1,438.72	732.75
	05 12 23 00-0037		TON	>65-100 LB/LF Combination Section - S Shapes And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	4,445.80 320.49 1,121.71	412.21
	05 12 23 00-0038			Combination Section, Channels And Angles <small>(05 12 23 00-0028)</small>		
	05 12 23 00-0039		TON	Up To 30 LB/LF Combination Section - Channels And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	9,312.21 557.37 1,950.80	1,236.65
	05 12 23 00-0040		TON	>30-65 LB/LF Combination Section - Channels And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	6,442.50 452.86 1,585.03	732.75
	05 12 23 00-0041		TON	>65-100 LB/LF Combination Section - Channels And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	4,547.40 328.62 1,150.16	412.21
	05 12 23 00-0042			Standard Weight Pipe <small>(05 12 23 00-0001)</small>		
	05 12 23 00-0043		TON	1/2" To 5" Diameter Standard Weight Pipe <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	5,232.17 362.29 1,268.02	659.55
	05 12 23 00-0044		TON	>5" To 12" Diameter Standard Weight Pipe <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	5,611.24 378.55 1,324.92	824.44
	05 12 23 00-0045			Structural Steel Shapes <small>(05 12 23)</small>		
				Note: Prices by Ton (or LB) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding. See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0117 for field fabrication of additional structural metal connections.		
	05 12 23 00-0046			Steel Rods <small>(05 12 23 00-0045)</small>		
	05 12 23 00-0047		TON	1/2" To 5" Diameter Extra Strong Steel, Solid <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	5,600.80 404.09 1,414.33	515.33
	05 12 23 00-0048		TON	>5" To 12" Diameter Extra Strong Steel, Solid <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	6,442.50 452.86 1,585.03	732.75
	05 12 23 00-0049			Column Base Plates <small>(05 12 23 00-0045)</small>		
	05 12 23 00-0050		LB	Column Base Plates, Up To 150 LB / Each, A36 Miscellaneous Steel Items <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	2.89 0.17 0.61	0.67
	05 12 23 00-0051		LB	Column Base Plates, >150 LB / Each, A36 Miscellaneous Steel Items <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	2.71 0.17 0.58	0.57
	05 12 23 00-0052		TON	Column Base Plates, Up To 150 LB Each, A36 Miscellaneous Steel Items <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	5,124.46 359.20 1,257.20	594.80
	05 12 23 00-0053		TON	Column Base Plates, >150 LB Each, A36 Miscellaneous Steel Items <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	3,628.24 259.80 909.32	356.88
	05 12 23 00-0054			Double Extra Strong Pipes <small>(05 12 23 00-0045)</small>		
	05 12 23 00-0055		TON	2" To 5" Diameter Double Extra Strong Pipe <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	6,781.95 462.15 1,617.54	942.16

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0056	TON		>5" To 8" Diameter Double Extra Strong Pipe <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	6,318.09 462.15 1,617.54	507.30
05 12 23 00-0057			Structural Pipes (05 12 23 00-0045)		
05 12 23 00-0058	TON		3" To 5" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	4,733.93 325.13 1,137.97	435.30
05 12 23 00-0059	TON		>5" To 12" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	5,171.72 325.13 1,137.97	502.03
05 12 23 00-0060			Structural Tubing (05 12 23 00-0045)		
05 12 23 00-0061			Rectangle Structural Tubing (05 12 23 00-0060)		
05 12 23 00-0062	TON		3" x 2" Weight Range 5-7 LB/LF Structural Tubing - Rectangle <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	7,726.45 580.60 2,032.08	439.69
05 12 23 00-0063	TON		4" x 3", 2" Weight Range 6-13 LB/LF Structural Tubing - Rectangle <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	7,798.60 580.60 2,032.08	507.30
05 12 23 00-0064	TON		5" x 4", 2" Weight Range 8-20 LB/LF Structural Tubing - Rectangle <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	6,827.67 499.31 1,747.59	549.62
05 12 23 00-0065	TON		6" x 4", 3", 2" Weight Range 9-29 LB/LF Structural Tubing - Rectangle <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	6,509.48 464.48 1,625.67	659.55
05 12 23 00-0066	TON		7" x 5", 4", 3" Weight Range 12-35 LB/LF Structural Tubing - Rectangle <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	6,152.20 429.64 1,503.74	732.75
05 12 23 00-0067	TON		8" x 6", 4", 3", 2" Weight Range 11-42 LB/LF Structural Tubing - Rectangle <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	6,452.18 429.64 1,503.74	1,014.05
05 12 23 00-0068	TON		10" x 6", 4", 2" Weight Range 15-50 LB/LF Structural Tubing - Rectangle <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	6,916.54 438.93 1,536.26	1,340.52
05 12 23 00-0069	TON		12" x 6", 4", 2" Weight Range 17-76 LB/LF Structural Tubing - Rectangle <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	7,106.67 443.58 1,552.51	1,464.30
05 12 23 00-0070	TON		14" x 10", 6", 4" Weight Range 29-76 LB/LF Structural Tubing - Rectangle <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	7,303.48 443.58 1,552.51	1,648.86
05 12 23 00-0071	TON		16" x 12", 8", 4" Weight Range 40-90 LB/LF Structural Tubing - Rectangle <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	9,181.56 438.93 1,536.26	3,464.04
05 12 23 00-0072	TON		18" x 6" Weight Range 48-76 LB/LF Structural Tubing - Rectangle <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	7,686.54 427.32 1,495.61	2,198.48
05 12 23 00-0073	TON		20" x 12", 8", 4" Weight Range 48-105 LB/LF Structural Tubing - Rectangle <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	11,026.84 450.54 1,576.90	5,057.94
05 12 23 00-0074			Square Structural Tubing (05 12 23 00-0060)		
05 12 23 00-0075	TON		2" x 2" Weight Range 4-6 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	7,697.13 580.60 2,032.08	412.21
05 12 23 00-0076	TON		2.5" x 2.5" Weight Range 5-8 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	7,726.45 580.60 2,032.08	439.69
05 12 23 00-0077	TON		3" x 3" Weight Range 6-11 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	6,972.82 510.92 1,788.23	549.62
05 12 23 00-0078	TON		3.5" x 3.5" Weight Range 8-13 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	6,944.92 499.31 1,747.59	659.55
05 12 23 00-0079	TON		4" x 4" Weight Range 10-22 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	5,640.27 380.87 1,333.05	824.44
05 12 23 00-0080	TON		5" x 5" Weight Range 12-30 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	5,765.90 380.87 1,333.05	942.16
05 12 23 00-0081	TON		6" x 6" Weight Range 15-35 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	6,167.91 380.87 1,333.05	1,319.09
05 12 23 00-0082	TON		7" x 7" Weight Range 17-42 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	6,606.76 387.84 1,357.43	1,648.86
05 12 23 00-0083	TON		8" x 8" Weight Range 20-60 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	7,976.84 450.54 1,576.90	2,198.48



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

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0084	TON		10" x 10" Weight Range 33-77 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	9,149.36 450.54 1,576.90	3,297.73
05 12 23 00-0085	TON		12" x 12" Weight Range 40-80 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	8,976.58 387.84 1,357.43	3,870.54
05 12 23 00-0086	TON		14" x 14" Weight Range 57-90 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	10,910.72 441.25 1,544.38	5,057.94
05 12 23 00-0087	TON		16" x 16" Weight Range 65-105 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	12,666.94 450.54 1,576.90	6,595.45
05 12 23 00-0088			Structural Shapes (05 12 23 00-0045)		
05 12 23 00-0089	TON		Structural Shapes, Steel Angle A36 Structural Steel, Purlins And Girts (Up To 20 LB/LF) <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >20 To 50 LB/LF, Deduct</i> <i>For >50 To 75 LB/LF, Deduct</i> <i>For >75 To 100 LB/LF, Deduct</i>	7,094.55 265.44 929.04 -898.28 -1,441.84 -1,985.39	2,379.23
05 12 23 00-0090	TON		Structural Shapes, Steel Plate A36 Structural Steel Note: Up to 21.5 LB per SF <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >21.5 To 50 LB/LF, Deduct</i>	5,910.41 371.59 1,300.56 -654.32	951.69
05 12 23 00-0091	LB		Structural Shapes, Primed Pipe Supports (Up To 20 LB/LF)	3.43	0.21
05 12 23 00-0092	LB		Structural Shapes, Galvanized Pipe Supports	4.15	0.21
05 12 23 00-0093			Built-Up Trusses (05 12 23 00-0045)		
05 12 23 00-0094	TON		Up To 50 LF Span Average Weight 100 LB/LF Trusses, Built-up	6,259.32	329.77
05 12 23 00-0095	TON		>50-100 LF Span Average Weight 120 LB/LF Trusses, Built-up	6,161.04	183.13
05 12 23 00-0096	TON		>100-200 LF Span Average Weight 150 LB/LF Trusses, Built-up	5,473.97	96.95
05 12 23 00-0097	TON		>200 LF Span Average Weight 180 LB/LF Trusses, Built-up	5,323.07	91.68
05 12 23 00-0098			Masonry Plates, Filler Plates, Sole Plates And Anchor Straps (05 12 23 00-0045) Note: Includes shop fabrication, welds, drilling and shop primer.		
05 12 23 00-0099	SF		1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	21.99	6.85
05 12 23 00-0100	SF		3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	32.99	10.25
05 12 23 00-0101	SF		1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	43.99	13.67
05 12 23 00-0102	SF		5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	54.98	17.07
05 12 23 00-0103	SF		3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	65.98	20.39
05 12 23 00-0104	SF		7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	76.97	23.91
05 12 23 00-0105	SF		1" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	87.98	27.32
05 12 23 00-0106	SF		1-1/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	98.97	30.74
05 12 23 00-0107	SF		1-1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	109.97	34.15
05 12 23 00-0108	SF		1-3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	120.96	37.57
05 12 23 00-0109	SF		1-1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	131.96	40.99
05 12 23 00-0110	SF		1-5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	142.96	44.41
05 12 23 00-0111	SF		1-3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	153.97	47.81
05 12 23 00-0112	SF		1-7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	164.96	51.23
05 12 23 00-0113	SF		2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	175.96	54.64
05 12 23 00-0114			Accessories For Steel (05 12 23)		
05 12 23 00-0115			Field Painting For Touch-Up Of Shop Prime Coat (05 12 23 00-0114)		
05 12 23 00-0116	SF		Touch Up Paint - Type 1 Red Oxide Field Painting Prime Coat	0.99	
05 12 23 00-0117			Connection And Stiffener Plates (05 12 23 00-0114) Note: For field fabrication of additional structural metal connections.		
05 12 23 00-0118	TON		1/8" Plate Weight 6.16 LB/SF Connection And Stiffener Plates	13,409.26	
05 12 23 00-0119	TON		3/16" Plate Weight 8.71 LB/SF Connection And Stiffener Plates	11,440.73	
05 12 23 00-0120	TON		1/4" Plate Weight 11.26 LB/SF Connection And Stiffener Plates	8,847.35	
05 12 23 00-0121	TON		5/16" Plate Weight 13.81 LB/SF Connection And Stiffener Plates	8,847.35	
05 12 23 00-0122	TON		3/8" Plate Weight 16.37 LB/SF Connection And Stiffener Plates	8,847.35	
05 12 23 00-0123	TON		1/2" Plate Weight 21.47 LB/SF Connection And Stiffener Plates	8,847.35	
05 12 23 00-0124	TON		9/16" Plate Weight 24.02 LB/SF Connection And Stiffener Plates	8,847.35	
05 12 23 00-0125	TON		5/8" Plate Weight 26.58 LB/SF Connection And Stiffener Plates	8,847.35	
05 12 23 00-0126	TON		3/4" Plate Weight 31.68 LB/SF Connection And Stiffener Plates	8,294.39	
05 12 23 00-0127	TON		7/8" Plate Weight 36.78 LB/SF Connection And Stiffener Plates	8,294.39	
05 12 23 00-0128	TON		1" Plate Weight 41.89 LB/SF Connection And Stiffener Plates	8,294.39	
05 12 23 00-0129			Field Applied Cold Galvanizing (05 12 23 00-0114)		
05 12 23 00-0130	SF		Brush Applied Cold Galvanizing	1.85	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0131 Metal Grinding <small>(05 12 23 00-0114)</small> Note: For use to prepare existing metal for welding by removing of rust or scale and smoothing surface after torch cutting.		
05 12 23 00-0132 SI Metal Grinding Up To 1/32" Thickness To Be Removed Note: Includes rust or scale removal on metal and smoothing surface.	0.96	
05 12 23 00-0133 Structural Steel For Buildings And Structures <small>(05 12 23)</small> Note: Prices by Ton (or LB) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding.		
05 12 23 00-0134 First Tier A992/A36 Structural Steel Columns, W Shapes <small>(05 12 23 00-0133)</small> Note: With base plate. Includes material delivery and erection.		
05 12 23 00-0135 LF W14 x 730 A992/A36 Structural Column..... For Hot Dip Galvanizing, Add For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	1,267.79 332.29 114.10 253.56	65.99
05 12 23 00-0136 LF W14 x 665 A992/A36 Structural Column..... For Hot Dip Galvanizing, Add For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	1,156.40 302.71 104.08 231.28	61.51
05 12 23 00-0137 LF W14 x 605 A992/A36 Structural Column..... For Hot Dip Galvanizing, Add For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	1,053.46 275.39 94.81 210.69	57.25
05 12 23 00-0138 LF W14 x 550 A992/A36 Structural Column..... For Hot Dip Galvanizing, Add For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	958.97 250.36 86.31 191.79	53.26
05 12 23 00-0139 LF W14 x 500 A992/A36 Structural Column..... For Hot Dip Galvanizing, Add For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	881.16 227.60 79.30 176.23	57.16
05 12 23 00-0140 LF W14 x 426 A992/A36 Structural Column..... For Hot Dip Galvanizing, Add For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	751.96 193.91 67.68 150.39	49.91
05 12 23 00-0141 LF W14 x 342 A992/A36 Structural Column..... For Hot Dip Galvanizing, Add For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	608.42 156.07 54.76 121.68	43.20
05 12 23 00-0142 LF W14 x 311 A992/A36 Structural Column..... For Hot Dip Galvanizing, Add For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	548.17 140.17 49.34 109.63	40.34
05 12 23 00-0143 LF W14 x 283 A992/A36 Structural Column..... For Hot Dip Galvanizing, Add For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	497.73 126.88 44.80 99.55	38.04
05 12 23 00-0144 LF W14 x 257 A992/A36 Structural Column..... For Hot Dip Galvanizing, Add For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	437.84 110.84 39.41 87.57	36.06
05 12 23 00-0145 LF W14 x 233 A992/A36 Structural Column..... For Hot Dip Galvanizing, Add For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	402.97 101.91 36.27 80.59	33.52
05 12 23 00-0146 LF W14 x 211 A992/A36 Structural Column..... For Hot Dip Galvanizing, Add For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	358.61 90.27 32.27 71.72	31.22
05 12 23 00-0147 LF W14 x 193 A992/A36 Structural Column..... For Hot Dip Galvanizing, Add For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	324.54 81.27 29.21 64.91	29.68
05 12 23 00-0148 LF W14 x 176 A992/A36 Structural Column..... For Hot Dip Galvanizing, Add For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	292.70 72.84 26.34 58.54	28.36
05 12 23 00-0149 LF W14 x 159 A992/A36 Structural Column..... For Hot Dip Galvanizing, Add For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	264.87 65.42 23.84 52.97	27.37
05 12 23 00-0150 LF W14 x 145 A992/A36 Structural Column..... For Hot Dip Galvanizing, Add For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	255.98 63.20 23.04 51.20	26.49
05 12 23 00-0151 LF W14 x 132 A992/A36 Structural Column..... For Hot Dip Galvanizing, Add For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	219.24 53.37 19.73 43.85	25.28



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0152	LF		W14 x 120 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	205.68 49.79 18.51 41.14	24.63
05 12 23 00-0153	LF		W14 x 109 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	184.36 44.18 16.59 36.87	23.64
05 12 23 00-0154	LF		W14 x 99 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	168.40 39.96 15.16 33.68	22.98
05 12 23 00-0155	LF		W14 x 90 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	156.59 36.83 14.09 31.32	22.43
05 12 23 00-0156	LF		W14 x 82 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	144.39 33.63 13.00 28.88	21.77
05 12 23 00-0157	LF		W14 x 74 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	130.57 29.98 11.75 26.11	21.22
05 12 23 00-0158	LF		W14 x 68 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	122.10 27.72 10.99 24.42	20.88
05 12 23 00-0159	LF		W14 x 61 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	111.50 24.93 10.04 22.30	20.33
05 12 23 00-0160	LF		W14 x 53 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	101.72 22.37 9.15 20.34	19.78
05 12 23 00-0161	LF		W14 x 48 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	95.42 20.71 8.59 19.08	19.45
05 12 23 00-0162	LF		W14 x 43 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	86.30 18.30 7.77 17.26	19.12
05 12 23 00-0163	LF		W12 x 336 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	578.04 151.71 52.02 115.61	29.39
05 12 23 00-0164	LF		W12 x 305 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	526.99 137.72 47.43 105.40	28.80
05 12 23 00-0165	LF		W12 x 279 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	484.30 125.98 43.59 96.86	28.46
05 12 23 00-0166	LF		W12 x 252 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	439.62 113.79 39.57 87.92	27.75
05 12 23 00-0167	LF		W12 x 230 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	403.39 103.85 36.31 80.68	27.34
05 12 23 00-0168	LF		W12 x 210 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	370.44 94.82 33.34 74.09	26.96
05 12 23 00-0169	LF		W12 x 190 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	341.59 85.79 30.74 68.32	30.34
05 12 23 00-0170	LF		W12 x 170 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	308.91 77.03 27.80 61.78	29.46
05 12 23 00-0171	LF		W12 x 152 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	278.57 69.22 25.07 55.71	27.37
05 12 23 00-0172	LF		W12 x 136 A992/A36 Structural Column..... <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	264.91 65.64 23.84 52.98	26.60

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0173	LF		W12 x 120 A992/A36 Structural Column.....	201.10	24.41
			<i>For Hot Dip Galvanizing, Add</i>	48.55	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	18.10	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	40.22	
05 12 23 00-0174	LF		W12 x 106 A992/A36 Structural Column.....	185.45	23.64
			<i>For Hot Dip Galvanizing, Add</i>	44.48	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	16.69	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	37.09	
05 12 23 00-0175	LF		W12 x 96 A992/A36 Structural Column.....	166.12	22.87
			<i>For Hot Dip Galvanizing, Add</i>	39.36	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.95	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	33.22	
05 12 23 00-0176	LF		W12 x 87 A992/A36 Structural Column.....	153.38	22.10
			<i>For Hot Dip Galvanizing, Add</i>	36.00	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.80	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	30.68	
05 12 23 00-0177	LF		W12 x 79 A992/A36 Structural Column.....	134.83	21.44
			<i>For Hot Dip Galvanizing, Add</i>	31.07	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.13	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	26.97	
05 12 23 00-0178	LF		W12 x 72 A992/A36 Structural Column.....	123.56	20.88
			<i>For Hot Dip Galvanizing, Add</i>	28.09	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.12	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	24.71	
05 12 23 00-0179	LF		W12 x 65 A992/A36 Structural Column.....	113.11	20.44
			<i>For Hot Dip Galvanizing, Add</i>	25.35	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	10.18	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	22.62	
05 12 23 00-0180	LF		W12 x 58 A992/A36 Structural Column.....	109.49	20.22
			<i>For Hot Dip Galvanizing, Add</i>	24.40	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.85	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	21.90	
05 12 23 00-0181	LF		W12 x 53 A992/A36 Structural Column.....	101.72	19.78
			<i>For Hot Dip Galvanizing, Add</i>	22.37	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.15	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	20.34	
05 12 23 00-0182	LF		W12 x 50 A992/A36 Structural Column.....	98.63	19.67
			<i>For Hot Dip Galvanizing, Add</i>	21.54	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.88	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	19.73	
05 12 23 00-0183	LF		W12 x 45 A992/A36 Structural Column.....	89.77	19.23
			<i>For Hot Dip Galvanizing, Add</i>	19.21	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.08	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	17.95	
05 12 23 00-0184	LF		W12 x 40 A992/A36 Structural Column.....	80.64	18.79
			<i>For Hot Dip Galvanizing, Add</i>	16.80	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.26	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	16.13	
05 12 23 00-0185	LF		W10 x 112 A992/A36 Structural Column.....	193.90	24.08
			<i>For Hot Dip Galvanizing, Add</i>	46.70	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	17.45	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	38.78	
05 12 23 00-0186	LF		W10 x 110 A992/A36 Structural Column.....	175.54	23.09
			<i>For Hot Dip Galvanizing, Add</i>	41.88	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	15.80	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	35.11	
05 12 23 00-0187	LF		W10 x 88 A992/A36 Structural Column.....	157.97	22.32
			<i>For Hot Dip Galvanizing, Add</i>	37.25	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.22	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	31.59	
05 12 23 00-0188	LF		W10 x 77 A992/A36 Structural Column.....	140.67	21.44
			<i>For Hot Dip Galvanizing, Add</i>	32.69	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.66	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	28.13	
05 12 23 00-0189	LF		W10 x 68 A992/A36 Structural Column.....	126.85	20.88
			<i>For Hot Dip Galvanizing, Add</i>	29.04	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.42	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	25.37	
05 12 23 00-0190	LF		W10 x 60 A992/A36 Structural Column.....	111.50	20.33
			<i>For Hot Dip Galvanizing, Add</i>	24.93	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	10.04	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	22.30	
05 12 23 00-0191	LF		W10 x 54 A992/A36 Structural Column.....	110.74	20.00
			<i>For Hot Dip Galvanizing, Add</i>	24.78	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.97	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	22.15	
05 12 23 00-0192	LF		W10 x 49 A992/A36 Structural Column.....	97.43	19.67
			<i>For Hot Dip Galvanizing, Add</i>	21.24	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.77	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	19.49	
05 12 23 00-0193	LF		W10 x 45 A992/A36 Structural Column.....	94.09	19.34
			<i>For Hot Dip Galvanizing, Add</i>	20.37	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.47	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	18.82	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0194	LF		W10 x 39 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	82.12 17.17 7.39 16.42	19.01
05 12 23 00-0195	LF		W10 x 33 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	71.78 14.46 6.46 14.36	18.46
05 12 23 00-0196	LF		W8 x 67 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	122.23 27.76 11.00 24.45	20.88
05 12 23 00-0197	LF		W8 x 58 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	109.90 24.52 9.89 21.98	20.22
05 12 23 00-0198	LF		W8 x 48 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	98.52 21.54 8.87 19.70	19.67
05 12 23 00-0199	LF		W8 x 40 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	84.79 17.89 7.63 16.96	19.12
05 12 23 00-0200	LF		W8 x 35 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	76.75 15.78 6.91 15.35	18.68
05 12 23 00-0201	LF		W8 x 31 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	70.29 14.05 6.33 14.06	18.46
05 12 23 00-0202	LF		W8 x 28 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	66.27 12.99 5.96 13.25	18.24
05 12 23 00-0203	LF		W8 x 24 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	61.44 11.71 5.53 12.29	18.02
05 12 23 00-0204	LF		W8 x 21 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	58.23 10.88 5.24 11.65	17.91
05 12 23 00-0205	LF		W8 x 18 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	52.18 9.27 4.70 10.44	17.59
05 12 23 00-0206	LF		W6 x 25 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	64.42 12.54 5.80 12.88	18.02
05 12 23 00-0207	LF		W6 x 20 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	54.73 9.94 4.93 10.95	17.70
05 12 23 00-0208	LF		W6 x 15 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	47.12 7.98 4.24 9.42	17.15
05 12 23 00-0209	LF		W6 x 12 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	44.27 7.19 3.98 8.85	17.15
05 12 23 00-0210	LF		W6 x 9 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	40.63 6.21 3.66 8.13	17.04
05 12 23 00-0211	LF		W5 x 19 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	53.91 9.72 4.85 10.78	17.70
05 12 23 00-0212	LF		W5 x 16 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	49.76 8.62 4.48 9.95	17.59
05 12 23 00-0213	LF		W4 x 13 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	46.69 7.83 4.20 9.34	17.37

05 12 23 00-0214 A992/A36 Structural Steel Beams And Girders, W Shapes (05 12 23 00-0133)
Note: Includes material delivery and erection.

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0215 LF W36 x 300 A992/A36 Structural Beam Or Girder.....	425.63	72.27
For Hot Dip Galvanizing, Add	96.72	
For High Strength Low Alloy A572-50 Steel, Add	38.31	
For High Strength Low Alloy A588 Steel, Add	85.13	
For Each Additional Top Copes >2, Add	3.49	
For Structural Tees, WT, MT Or ST, Deduct	-137.41	
For Skewed Or Sloped Connections, Add	51.08	
05 12 23 00-0216 LF W36 x 280 A992/A36 Structural Beam Or Girder.....	413.25	82.44
For Hot Dip Galvanizing, Add	90.27	
For High Strength Low Alloy A572-50 Steel, Add	37.19	
For High Strength Low Alloy A588 Steel, Add	82.65	
For Each Additional Top Copes >2, Add	3.25	
For Structural Tees, WT, MT Or ST, Deduct	-131.45	
For Skewed Or Sloped Connections, Add	49.59	
05 12 23 00-0217 LF W36 x 260 A992/A36 Structural Beam Or Girder.....	391.93	81.46
For Hot Dip Galvanizing, Add	84.66	
For High Strength Low Alloy A572-50 Steel, Add	35.27	
For High Strength Low Alloy A588 Steel, Add	78.39	
For Each Additional Top Copes >2, Add	3.05	
For Structural Tees, WT, MT Or ST, Deduct	-124.15	
For Skewed Or Sloped Connections, Add	47.03	
05 12 23 00-0218 LF W36 x 240 A992/A36 Structural Beam Or Girder.....	364.03	69.66
For Hot Dip Galvanizing, Add	80.40	
For High Strength Low Alloy A572-50 Steel, Add	32.76	
For High Strength Low Alloy A588 Steel, Add	72.81	
For Each Additional Top Copes >2, Add	2.90	
For Structural Tees, WT, MT Or ST, Deduct	-116.27	
For Skewed Or Sloped Connections, Add	43.68	
05 12 23 00-0219 LF W36 x 230 A992/A36 Structural Beam Or Girder.....	353.01	70.65
For Hot Dip Galvanizing, Add	77.05	
For High Strength Low Alloy A572-50 Steel, Add	31.77	
For High Strength Low Alloy A588 Steel, Add	70.60	
For Each Additional Top Copes >2, Add	2.78	
For Structural Tees, WT, MT Or ST, Deduct	-112.25	
For Skewed Or Sloped Connections, Add	42.36	
05 12 23 00-0220 LF W36 x 210 A992/A36 Structural Beam Or Girder.....	337.60	78.82
For Hot Dip Galvanizing, Add	70.35	
For High Strength Low Alloy A572-50 Steel, Add	30.38	
For High Strength Low Alloy A588 Steel, Add	67.52	
For Each Additional Top Copes >2, Add	2.54	
For Structural Tees, WT, MT Or ST, Deduct	-105.55	
For Skewed Or Sloped Connections, Add	40.51	
05 12 23 00-0221 LF W36 x 194 A992/A36 Structural Beam Or Girder.....	316.92	67.56
For Hot Dip Galvanizing, Add	67.95	
For High Strength Low Alloy A572-50 Steel, Add	28.52	
For High Strength Low Alloy A588 Steel, Add	63.38	
For Each Additional Top Copes >2, Add	2.45	
For Structural Tees, WT, MT Or ST, Deduct	-100.11	
For Skewed Or Sloped Connections, Add	38.03	
05 12 23 00-0222 LF W36 x 182 A992/A36 Structural Beam Or Girder.....	301.24	67.07
For Hot Dip Galvanizing, Add	63.74	
For High Strength Low Alloy A572-50 Steel, Add	27.11	
For High Strength Low Alloy A588 Steel, Add	60.25	
For Each Additional Top Copes >2, Add	2.30	
For Structural Tees, WT, MT Or ST, Deduct	-94.70	
For Skewed Or Sloped Connections, Add	36.15	
05 12 23 00-0223 LF W36 x 170 A992/A36 Structural Beam Or Girder.....	285.27	66.29
For Hot Dip Galvanizing, Add	59.54	
For High Strength Low Alloy A572-50 Steel, Add	25.67	
For High Strength Low Alloy A588 Steel, Add	57.05	
For Each Additional Top Copes >2, Add	2.15	
For Structural Tees, WT, MT Or ST, Deduct	-89.24	
For Skewed Or Sloped Connections, Add	34.23	
05 12 23 00-0224 LF W36 x 160 A992/A36 Structural Beam Or Girder.....	283.29	76.28
For Hot Dip Galvanizing, Add	56.04	
For High Strength Low Alloy A572-50 Steel, Add	25.50	
For High Strength Low Alloy A588 Steel, Add	56.66	
For Each Additional Top Copes >2, Add	2.02	
For Structural Tees, WT, MT Or ST, Deduct	-86.95	
For Skewed Or Sloped Connections, Add	33.99	
05 12 23 00-0225 LF W36 x 150 A992/A36 Structural Beam Or Girder.....	272.16	75.73
For Hot Dip Galvanizing, Add	53.10	
For High Strength Low Alloy A572-50 Steel, Add	24.49	
For High Strength Low Alloy A588 Steel, Add	54.43	
For Each Additional Top Copes >2, Add	1.91	
For Structural Tees, WT, MT Or ST, Deduct	-83.14	
For Skewed Or Sloped Connections, Add	32.66	
05 12 23 00-0226 LF W36 x 135 A992/A36 Structural Beam Or Girder.....	256.59	75.07
For Hot Dip Galvanizing, Add	49.00	
For High Strength Low Alloy A572-50 Steel, Add	23.09	
For High Strength Low Alloy A588 Steel, Add	51.32	
For Each Additional Top Copes >2, Add	1.77	
For Structural Tees, WT, MT Or ST, Deduct	-77.80	
For Skewed Or Sloped Connections, Add	30.79	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0227 LF W33 x 241 A992/A36 Structural Beam Or Girder.....	368.88	71.85
For Hot Dip Galvanizing, Add	81.10	
For High Strength Low Alloy A572-50 Steel, Add	33.20	
For High Strength Low Alloy A588 Steel, Add	73.78	
For Each Additional Top Copes >2, Add	2.92	
For Structural Tees, WT, MT Or ST, Deduct	-117.61	
For Skewed Or Sloped Connections, Add	44.27	
05 12 23 00-0228 LF W33 x 221 A992/A36 Structural Beam Or Girder.....	342.75	70.08
For Hot Dip Galvanizing, Add	74.37	
For High Strength Low Alloy A572-50 Steel, Add	30.85	
For High Strength Low Alloy A588 Steel, Add	68.55	
For Each Additional Top Copes >2, Add	2.68	
For Structural Tees, WT, MT Or ST, Deduct	-108.75	
For Skewed Or Sloped Connections, Add	41.13	
05 12 23 00-0229 LF W33 x 201 A992/A36 Structural Beam Or Girder.....	327.28	78.27
For Hot Dip Galvanizing, Add	67.64	
For High Strength Low Alloy A572-50 Steel, Add	29.46	
For High Strength Low Alloy A588 Steel, Add	65.46	
For Each Additional Top Copes >2, Add	2.44	
For Structural Tees, WT, MT Or ST, Deduct	-102.02	
For Skewed Or Sloped Connections, Add	39.27	
05 12 23 00-0230 LF W33 x 170 A992/A36 Structural Beam Or Girder.....	295.24	76.83
For Hot Dip Galvanizing, Add	59.20	
For High Strength Low Alloy A572-50 Steel, Add	26.57	
For High Strength Low Alloy A588 Steel, Add	59.05	
For Each Additional Top Copes >2, Add	2.13	
For Structural Tees, WT, MT Or ST, Deduct	-91.05	
For Skewed Or Sloped Connections, Add	35.43	
05 12 23 00-0231 LF W33 x 152 A992/A36 Structural Beam Or Girder.....	267.71	66.09
For Hot Dip Galvanizing, Add	54.73	
For High Strength Low Alloy A572-50 Steel, Add	24.09	
For High Strength Low Alloy A588 Steel, Add	53.54	
For Each Additional Top Copes >2, Add	1.97	
For Structural Tees, WT, MT Or ST, Deduct	-83.12	
For Skewed Or Sloped Connections, Add	32.13	
05 12 23 00-0232 LF W33 x 141 A992/A36 Structural Beam Or Girder.....	263.30	75.29
For Hot Dip Galvanizing, Add	50.77	
For High Strength Low Alloy A572-50 Steel, Add	23.70	
For High Strength Low Alloy A588 Steel, Add	52.66	
For Each Additional Top Copes >2, Add	1.83	
For Structural Tees, WT, MT Or ST, Deduct	-80.10	
For Skewed Or Sloped Connections, Add	31.60	
05 12 23 00-0233 LF W33 x 130 A992/A36 Structural Beam Or Girder.....	250.70	74.75
For Hot Dip Galvanizing, Add	47.45	
For High Strength Low Alloy A572-50 Steel, Add	22.56	
For High Strength Low Alloy A588 Steel, Add	50.14	
For Each Additional Top Copes >2, Add	1.71	
For Structural Tees, WT, MT Or ST, Deduct	-75.79	
For Skewed Or Sloped Connections, Add	30.08	
05 12 23 00-0234 LF W33 x 118 A992/A36 Structural Beam Or Girder.....	236.05	74.09
For Hot Dip Galvanizing, Add	43.57	
For High Strength Low Alloy A572-50 Steel, Add	21.24	
For High Strength Low Alloy A588 Steel, Add	47.21	
For Each Additional Top Copes >2, Add	1.57	
For Structural Tees, WT, MT Or ST, Deduct	-70.76	
For Skewed Or Sloped Connections, Add	28.33	
05 12 23 00-0235 LF W30 x 211 A992/A36 Structural Beam Or Girder.....	329.18	69.95
For Hot Dip Galvanizing, Add	70.64	
For High Strength Low Alloy A572-50 Steel, Add	29.63	
For High Strength Low Alloy A588 Steel, Add	65.84	
For Each Additional Top Copes >2, Add	2.55	
For Structural Tees, WT, MT Or ST, Deduct	-104.02	
For Skewed Or Sloped Connections, Add	39.50	
05 12 23 00-0236 LF W30 x 191 A992/A36 Structural Beam Or Girder.....	313.43	77.72
For Hot Dip Galvanizing, Add	63.95	
For High Strength Low Alloy A572-50 Steel, Add	28.21	
For High Strength Low Alloy A588 Steel, Add	62.69	
For Each Additional Top Copes >2, Add	2.30	
For Structural Tees, WT, MT Or ST, Deduct	-97.25	
For Skewed Or Sloped Connections, Add	37.61	
05 12 23 00-0237 LF W30 x 173 A992/A36 Structural Beam Or Girder.....	286.32	66.76
For Hot Dip Galvanizing, Add	59.70	
For High Strength Low Alloy A572-50 Steel, Add	25.77	
For High Strength Low Alloy A588 Steel, Add	57.26	
For Each Additional Top Copes >2, Add	2.15	
For Structural Tees, WT, MT Or ST, Deduct	-89.53	
For Skewed Or Sloped Connections, Add	34.36	
05 12 23 00-0238 LF W30 x 154 A992/A36 Structural Beam Or Girder.....	272.39	75.84
For Hot Dip Galvanizing, Add	53.14	
For High Strength Low Alloy A572-50 Steel, Add	24.52	
For High Strength Low Alloy A588 Steel, Add	54.48	
For Each Additional Top Copes >2, Add	1.91	
For Structural Tees, WT, MT Or ST, Deduct	-83.20	
For Skewed Or Sloped Connections, Add	32.69	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0239 LF W30 x 132 A992/A36 Structural Beam Or Girder.....	242.28	64.41
For Hot Dip Galvanizing, Add	48.17	
For High Strength Low Alloy A572-50 Steel, Add	21.81	
For High Strength Low Alloy A588 Steel, Add	48.46	
For Each Additional Top Copes >2, Add	1.74	
For Structural Tees, WT, MT Or ST, Deduct	-74.49	
For Skewed Or Sloped Connections, Add	29.07	
05 12 23 00-0240 LF W30 x 124 A992/A36 Structural Beam Or Girder.....	231.72	64.37
For Hot Dip Galvanizing, Add	45.25	
For High Strength Low Alloy A572-50 Steel, Add	20.85	
For High Strength Low Alloy A588 Steel, Add	46.34	
For Each Additional Top Copes >2, Add	1.63	
For Structural Tees, WT, MT Or ST, Deduct	-70.80	
For Skewed Or Sloped Connections, Add	27.81	
05 12 23 00-0241 LF W30 x 116 A992/A36 Structural Beam Or Girder.....	231.47	73.98
For Hot Dip Galvanizing, Add	42.33	
For High Strength Low Alloy A572-50 Steel, Add	20.83	
For High Strength Low Alloy A588 Steel, Add	46.29	
For Each Additional Top Copes >2, Add	1.53	
For Structural Tees, WT, MT Or ST, Deduct	-69.18	
For Skewed Or Sloped Connections, Add	27.78	
05 12 23 00-0242 LF W30 x 108 A992/A36 Structural Beam Or Girder.....	213.78	66.62
For Hot Dip Galvanizing, Add	39.62	
For High Strength Low Alloy A572-50 Steel, Add	19.24	
For High Strength Low Alloy A588 Steel, Add	42.76	
For Each Additional Top Copes >2, Add	1.43	
For Structural Tees, WT, MT Or ST, Deduct	-64.17	
For Skewed Or Sloped Connections, Add	25.65	
05 12 23 00-0243 LF W30 x 99 A992/A36 Structural Beam Or Girder.....	204.79	66.29
For Hot Dip Galvanizing, Add	37.25	
For High Strength Low Alloy A572-50 Steel, Add	18.43	
For High Strength Low Alloy A588 Steel, Add	40.96	
For Each Additional Top Copes >2, Add	1.34	
For Structural Tees, WT, MT Or ST, Deduct	-61.09	
For Skewed Or Sloped Connections, Add	24.57	
05 12 23 00-0244 LF W27 x 178 A992/A36 Structural Beam Or Girder.....	319.02	78.16
For Hot Dip Galvanizing, Add	65.39	
For High Strength Low Alloy A572-50 Steel, Add	28.71	
For High Strength Low Alloy A588 Steel, Add	63.80	
For Each Additional Top Copes >2, Add	2.36	
For Structural Tees, WT, MT Or ST, Deduct	-99.15	
For Skewed Or Sloped Connections, Add	38.28	
05 12 23 00-0245 LF W27 x 161 A992/A36 Structural Beam Or Girder.....	293.37	75.22
For Hot Dip Galvanizing, Add	59.15	
For High Strength Low Alloy A572-50 Steel, Add	26.40	
For High Strength Low Alloy A588 Steel, Add	58.67	
For Each Additional Top Copes >2, Add	2.13	
For Structural Tees, WT, MT Or ST, Deduct	-90.65	
For Skewed Or Sloped Connections, Add	35.20	
05 12 23 00-0246 LF W27 x 146 A992/A36 Structural Beam Or Girder.....	270.68	72.55
For Hot Dip Galvanizing, Add	53.64	
For High Strength Low Alloy A572-50 Steel, Add	24.36	
For High Strength Low Alloy A588 Steel, Add	54.14	
For Each Additional Top Copes >2, Add	1.93	
For Structural Tees, WT, MT Or ST, Deduct	-83.13	
For Skewed Or Sloped Connections, Add	32.48	
05 12 23 00-0247 LF W27 x 114 A992/A36 Structural Beam Or Girder.....	215.20	60.27
For Hot Dip Galvanizing, Add	41.88	
For High Strength Low Alloy A572-50 Steel, Add	19.37	
For High Strength Low Alloy A588 Steel, Add	43.04	
For Each Additional Top Copes >2, Add	1.51	
For Structural Tees, WT, MT Or ST, Deduct	-65.68	
For Skewed Or Sloped Connections, Add	25.82	
05 12 23 00-0248 LF W27 x 102 A992/A36 Structural Beam Or Girder.....	205.72	66.29
For Hot Dip Galvanizing, Add	37.47	
For High Strength Low Alloy A572-50 Steel, Add	18.51	
For High Strength Low Alloy A588 Steel, Add	41.14	
For Each Additional Top Copes >2, Add	1.35	
For Structural Tees, WT, MT Or ST, Deduct	-61.40	
For Skewed Or Sloped Connections, Add	24.69	
05 12 23 00-0249 LF W27 x 94 A992/A36 Structural Beam Or Girder.....	197.27	65.85
For Hot Dip Galvanizing, Add	35.25	
For High Strength Low Alloy A572-50 Steel, Add	17.75	
For High Strength Low Alloy A588 Steel, Add	39.45	
For Each Additional Top Copes >2, Add	1.27	
For Structural Tees, WT, MT Or ST, Deduct	-58.51	
For Skewed Or Sloped Connections, Add	23.67	
05 12 23 00-0250 LF W27 x 84 A992/A36 Structural Beam Or Girder.....	186.95	65.41
For Hot Dip Galvanizing, Add	32.54	
For High Strength Low Alloy A572-50 Steel, Add	16.83	
For High Strength Low Alloy A588 Steel, Add	37.39	
For Each Additional Top Copes >2, Add	1.17	
For Structural Tees, WT, MT Or ST, Deduct	-54.98	
For Skewed Or Sloped Connections, Add	22.43	



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

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0251	LF		W24 x 162 A992/A36 Structural Beam Or Girder.....	282.51	72.11
			<i>For Hot Dip Galvanizing, Add</i>	57.05	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	25.43	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	56.50	
			<i>For Each Additional Top Copes >2, Add</i>	2.06	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-87.34	
			<i>For Skewed Or Sloped Connections, Add</i>	33.90	
05 12 23 00-0252	LF		W24 x 146 A992/A36 Structural Beam Or Girder.....	259.02	69.13
			<i>For Hot Dip Galvanizing, Add</i>	51.42	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	23.31	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	51.80	
			<i>For Each Additional Top Copes >2, Add</i>	1.85	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-79.60	
			<i>For Skewed Or Sloped Connections, Add</i>	31.08	
05 12 23 00-0253	LF		W24 x 131 A992/A36 Structural Beam Or Girder.....	236.63	65.99
			<i>For Hot Dip Galvanizing, Add</i>	46.13	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	21.30	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	47.33	
			<i>For Each Additional Top Copes >2, Add</i>	1.66	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-72.26	
			<i>For Skewed Or Sloped Connections, Add</i>	28.40	
05 12 23 00-0254	LF		W24 x 117 A992/A36 Structural Beam Or Girder.....	215.35	62.70
			<i>For Hot Dip Galvanizing, Add</i>	41.20	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	19.38	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	43.07	
			<i>For Each Additional Top Copes >2, Add</i>	1.48	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-65.34	
			<i>For Skewed Or Sloped Connections, Add</i>	25.84	
05 12 23 00-0255	LF		W24 x 104 A992/A36 Structural Beam Or Girder.....	195.22	59.29
			<i>For Hot Dip Galvanizing, Add</i>	36.62	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	17.57	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	39.04	
			<i>For Each Additional Top Copes >2, Add</i>	1.32	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-58.84	
			<i>For Skewed Or Sloped Connections, Add</i>	23.43	
05 12 23 00-0256	LF		W24 x 94 A992/A36 Structural Beam Or Girder.....	189.53	65.85
			<i>For Hot Dip Galvanizing, Add</i>	33.10	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	17.06	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	37.91	
			<i>For Each Additional Top Copes >2, Add</i>	1.19	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-55.80	
			<i>For Skewed Or Sloped Connections, Add</i>	22.74	
05 12 23 00-0257	LF		W24 x 84 A992/A36 Structural Beam Or Girder.....	172.53	58.37
			<i>For Hot Dip Galvanizing, Add</i>	30.58	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	15.53	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	34.51	
			<i>For Each Additional Top Copes >2, Add</i>	1.10	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-51.04	
			<i>For Skewed Or Sloped Connections, Add</i>	20.70	
05 12 23 00-0258	LF		W24 x 76 A992/A36 Structural Beam Or Girder.....	164.62	57.93
			<i>For Hot Dip Galvanizing, Add</i>	28.51	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.82	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	32.92	
			<i>For Each Additional Top Copes >2, Add</i>	1.03	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-48.34	
			<i>For Skewed Or Sloped Connections, Add</i>	19.75	
05 12 23 00-0259	LF		W24 x 68 A992/A36 Structural Beam Or Girder.....	154.68	57.60
			<i>For Hot Dip Galvanizing, Add</i>	25.87	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.92	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	30.94	
			<i>For Each Additional Top Copes >2, Add</i>	0.93	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-44.92	
			<i>For Skewed Or Sloped Connections, Add</i>	18.56	
05 12 23 00-0260	LF		W24 x 62 A992/A36 Structural Beam Or Girder.....	149.47	57.27
			<i>For Hot Dip Galvanizing, Add</i>	24.52	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.45	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	29.89	
			<i>For Each Additional Top Copes >2, Add</i>	0.88	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-43.15	
			<i>For Skewed Or Sloped Connections, Add</i>	17.94	
05 12 23 00-0261	LF		W24 x 55 A992/A36 Structural Beam Or Girder.....	142.34	57.05
			<i>For Hot Dip Galvanizing, Add</i>	22.63	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.81	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	28.47	
			<i>For Each Additional Top Copes >2, Add</i>	0.82	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-40.70	
			<i>For Skewed Or Sloped Connections, Add</i>	17.08	
05 12 23 00-0262	LF		W21 x 147 A992/A36 Structural Beam Or Girder.....	246.45	59.30
			<i>For Hot Dip Galvanizing, Add</i>	50.84	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	22.18	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	49.29	
			<i>For Each Additional Top Copes >2, Add</i>	1.83	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-76.77	
			<i>For Skewed Or Sloped Connections, Add</i>	29.57	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0263 LF W21 x 132 A992/A36 Structural Beam Or Girder.....	224.93	56.66
For Hot Dip Galvanizing, Add	45.65	
For High Strength Low Alloy A572-50 Steel, Add	20.24	
For High Strength Low Alloy A588 Steel, Add	44.99	
For Each Additional Top Copes >2, Add	1.65	
For Structural Tees, WT, MT Or ST, Deduct	-69.66	
For Skewed Or Sloped Connections, Add	26.99	
05 12 23 00-0264 LF W21 x 122 A992/A36 Structural Beam Or Girder.....	211.45	55.70
For Hot Dip Galvanizing, Add	42.19	
For High Strength Low Alloy A572-50 Steel, Add	19.03	
For High Strength Low Alloy A588 Steel, Add	42.29	
For Each Additional Top Copes >2, Add	1.52	
For Structural Tees, WT, MT Or ST, Deduct	-65.10	
For Skewed Or Sloped Connections, Add	25.37	
05 12 23 00-0265 LF W21 x 111 A992/A36 Structural Beam Or Girder.....	195.84	53.92
For Hot Dip Galvanizing, Add	38.39	
For High Strength Low Alloy A572-50 Steel, Add	17.63	
For High Strength Low Alloy A588 Steel, Add	39.17	
For Each Additional Top Copes >2, Add	1.38	
For Structural Tees, WT, MT Or ST, Deduct	-59.92	
For Skewed Or Sloped Connections, Add	23.50	
05 12 23 00-0266 LF W21 x 101 A992/A36 Structural Beam Or Girder.....	181.53	52.19
For Hot Dip Galvanizing, Add	34.93	
For High Strength Low Alloy A572-50 Steel, Add	16.34	
For High Strength Low Alloy A588 Steel, Add	36.31	
For Each Additional Top Copes >2, Add	1.26	
For Structural Tees, WT, MT Or ST, Deduct	-55.19	
For Skewed Or Sloped Connections, Add	21.78	
05 12 23 00-0267 LF W21 x 93 A992/A36 Structural Beam Or Girder.....	178.88	59.03
For Hot Dip Galvanizing, Add	32.16	
For High Strength Low Alloy A572-50 Steel, Add	16.10	
For High Strength Low Alloy A588 Steel, Add	35.78	
For Each Additional Top Copes >2, Add	1.16	
For Structural Tees, WT, MT Or ST, Deduct	-53.16	
For Skewed Or Sloped Connections, Add	21.47	
05 12 23 00-0268 LF W21 x 83 A992/A36 Structural Beam Or Girder.....	169.54	58.37
For Hot Dip Galvanizing, Add	29.75	
For High Strength Low Alloy A572-50 Steel, Add	15.26	
For High Strength Low Alloy A588 Steel, Add	33.91	
For Each Additional Top Copes >2, Add	1.07	
For Structural Tees, WT, MT Or ST, Deduct	-49.99	
For Skewed Or Sloped Connections, Add	20.34	
05 12 23 00-0269 LF W21 x 73 A992/A36 Structural Beam Or Girder.....	158.13	57.93
For Hot Dip Galvanizing, Add	26.74	
For High Strength Low Alloy A572-50 Steel, Add	14.23	
For High Strength Low Alloy A588 Steel, Add	31.63	
For Each Additional Top Copes >2, Add	0.96	
For Structural Tees, WT, MT Or ST, Deduct	-46.08	
For Skewed Or Sloped Connections, Add	18.98	
05 12 23 00-0270 LF W21 x 68 A992/A36 Structural Beam Or Girder.....	152.37	57.60
For Hot Dip Galvanizing, Add	25.23	
For High Strength Low Alloy A572-50 Steel, Add	13.71	
For High Strength Low Alloy A588 Steel, Add	30.47	
For Each Additional Top Copes >2, Add	0.91	
For Structural Tees, WT, MT Or ST, Deduct	-44.11	
For Skewed Or Sloped Connections, Add	18.28	
05 12 23 00-0271 LF W21 x 62 A992/A36 Structural Beam Or Girder.....	147.16	57.27
For Hot Dip Galvanizing, Add	23.88	
For High Strength Low Alloy A572-50 Steel, Add	13.24	
For High Strength Low Alloy A588 Steel, Add	29.43	
For Each Additional Top Copes >2, Add	0.86	
For Structural Tees, WT, MT Or ST, Deduct	-42.34	
For Skewed Or Sloped Connections, Add	17.66	
05 12 23 00-0272 LF W21 x 57 A992/A36 Structural Beam Or Girder.....	142.46	57.16
For Hot Dip Galvanizing, Add	22.63	
For High Strength Low Alloy A572-50 Steel, Add	12.82	
For High Strength Low Alloy A588 Steel, Add	28.49	
For Each Additional Top Copes >2, Add	0.82	
For Structural Tees, WT, MT Or ST, Deduct	-40.73	
For Skewed Or Sloped Connections, Add	17.10	
05 12 23 00-0273 LF W21 x 50 A992/A36 Structural Beam Or Girder.....	126.14	49.58
For Hot Dip Galvanizing, Add	20.30	
For High Strength Low Alloy A572-50 Steel, Add	11.35	
For High Strength Low Alloy A588 Steel, Add	25.23	
For Each Additional Top Copes >2, Add	0.73	
For Structural Tees, WT, MT Or ST, Deduct	-36.20	
For Skewed Or Sloped Connections, Add	15.14	
05 12 23 00-0274 LF W21 x 44 A992/A36 Structural Beam Or Girder.....	120.65	49.36
For Hot Dip Galvanizing, Add	18.87	
For High Strength Low Alloy A572-50 Steel, Add	10.86	
For High Strength Low Alloy A588 Steel, Add	24.13	
For Each Additional Top Copes >2, Add	0.68	
For Structural Tees, WT, MT Or ST, Deduct	-34.33	
For Skewed Or Sloped Connections, Add	14.48	



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

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0275	LF		W18 x 119 A992/A36 Structural Beam Or Girder.....	205.89	55.51
			<i>For Hot Dip Galvanizing, Add</i>	40.70	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	18.53	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	41.18	
			<i>For Each Additional Top Copes >2, Add</i>	1.47	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-63.18	
			<i>For Skewed Or Sloped Connections, Add</i>	24.71	
05 12 23 00-0276	LF		W18 x 106 A992/A36 Structural Beam Or Girder.....	186.77	52.60
			<i>For Hot Dip Galvanizing, Add</i>	36.26	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	16.81	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	37.35	
			<i>For Each Additional Top Copes >2, Add</i>	1.31	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-56.95	
			<i>For Skewed Or Sloped Connections, Add</i>	22.41	
05 12 23 00-0277	LF		W18 x 97 A992/A36 Structural Beam Or Girder.....	182.66	59.03
			<i>For Hot Dip Galvanizing, Add</i>	33.18	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	16.44	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	36.53	
			<i>For Each Additional Top Copes >2, Add</i>	1.20	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-54.47	
			<i>For Skewed Or Sloped Connections, Add</i>	21.92	
05 12 23 00-0278	LF		W18 x 86 A992/A36 Structural Beam Or Girder.....	171.95	58.48
			<i>For Hot Dip Galvanizing, Add</i>	30.39	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	15.48	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	34.39	
			<i>For Each Additional Top Copes >2, Add</i>	1.10	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-50.82	
			<i>For Skewed Or Sloped Connections, Add</i>	20.63	
05 12 23 00-0279	LF		W18 x 76 A992/A36 Structural Beam Or Girder.....	162.31	57.93
			<i>For Hot Dip Galvanizing, Add</i>	27.87	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.61	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	32.46	
			<i>For Each Additional Top Copes >2, Add</i>	1.00	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-47.53	
			<i>For Skewed Or Sloped Connections, Add</i>	19.48	
05 12 23 00-0280	LF		W18 x 71 A992/A36 Structural Beam Or Girder.....	155.30	57.82
			<i>For Hot Dip Galvanizing, Add</i>	25.99	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.98	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	31.06	
			<i>For Each Additional Top Copes >2, Add</i>	0.94	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-45.11	
			<i>For Skewed Or Sloped Connections, Add</i>	18.64	
05 12 23 00-0281	LF		W18 x 65 A992/A36 Structural Beam Or Girder.....	148.46	57.60
			<i>For Hot Dip Galvanizing, Add</i>	24.18	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.36	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	29.69	
			<i>For Each Additional Top Copes >2, Add</i>	0.87	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-42.76	
			<i>For Skewed Or Sloped Connections, Add</i>	17.82	
05 12 23 00-0282	LF		W18 x 60 A992/A36 Structural Beam Or Girder.....	142.29	57.16
			<i>For Hot Dip Galvanizing, Add</i>	22.56	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.81	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	28.46	
			<i>For Each Additional Top Copes >2, Add</i>	0.81	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-40.65	
			<i>For Skewed Or Sloped Connections, Add</i>	17.07	
05 12 23 00-0283	LF		W18 x 55 A992/A36 Structural Beam Or Girder.....	136.10	57.05
			<i>For Hot Dip Galvanizing, Add</i>	20.90	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.25	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	27.22	
			<i>For Each Additional Top Copes >2, Add</i>	0.75	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-38.52	
			<i>For Skewed Or Sloped Connections, Add</i>	16.33	
05 12 23 00-0284	LF		W18 x 50 A992/A36 Structural Beam Or Girder.....	122.34	49.58
			<i>For Hot Dip Galvanizing, Add</i>	19.24	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.01	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	24.47	
			<i>For Each Additional Top Copes >2, Add</i>	0.69	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-34.87	
			<i>For Skewed Or Sloped Connections, Add</i>	14.68	
05 12 23 00-0285	LF		W18 x 46 A992/A36 Structural Beam Or Girder.....	117.51	49.47
			<i>For Hot Dip Galvanizing, Add</i>	17.97	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	10.58	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	23.50	
			<i>For Each Additional Top Copes >2, Add</i>	0.65	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-33.21	
			<i>For Skewed Or Sloped Connections, Add</i>	14.10	
05 12 23 00-0286	LF		W18 x 40 A992/A36 Structural Beam Or Girder.....	102.61	42.21
			<i>For Hot Dip Galvanizing, Add</i>	15.97	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.23	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	20.52	
			<i>For Each Additional Top Copes >2, Add</i>	0.58	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-29.15	
			<i>For Skewed Or Sloped Connections, Add</i>	12.31	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0287 LF W18 x 35 A992/A36 Structural Beam Or Girder.....	96.56	42.10
For Hot Dip Galvanizing, Add	14.35	
For High Strength Low Alloy A572-50 Steel, Add	8.69	
For High Strength Low Alloy A588 Steel, Add	19.31	
For Each Additional Top Copes >2, Add	0.52	
For Structural Tees, WT, MT Or ST, Deduct	-27.07	
For Skewed Or Sloped Connections, Add	11.59	
05 12 23 00-0288 LF W16 x 100 A992/A36 Structural Beam Or Girder.....	169.41	38.37
For Hot Dip Galvanizing, Add	35.66	
For High Strength Low Alloy A572-50 Steel, Add	15.25	
For High Strength Low Alloy A588 Steel, Add	33.88	
For Each Additional Top Copes >2, Add	1.29	
For Structural Tees, WT, MT Or ST, Deduct	-53.16	
For Skewed Or Sloped Connections, Add	20.33	
05 12 23 00-0289 LF W16 x 89 A992/A36 Structural Beam Or Girder.....	155.72	37.71
For Hot Dip Galvanizing, Add	32.05	
For High Strength Low Alloy A572-50 Steel, Add	14.01	
For High Strength Low Alloy A588 Steel, Add	31.14	
For Each Additional Top Copes >2, Add	1.15	
For Structural Tees, WT, MT Or ST, Deduct	-48.47	
For Skewed Or Sloped Connections, Add	18.69	
05 12 23 00-0290 LF W16 x 77 A992/A36 Structural Beam Or Girder.....	141.06	37.27
For Hot Dip Galvanizing, Add	28.13	
For High Strength Low Alloy A572-50 Steel, Add	12.70	
For High Strength Low Alloy A588 Steel, Add	28.21	
For Each Additional Top Copes >2, Add	1.01	
For Structural Tees, WT, MT Or ST, Deduct	-43.42	
For Skewed Or Sloped Connections, Add	16.93	
05 12 23 00-0291 LF W16 x 67 A992/A36 Structural Beam Or Girder.....	128.58	36.72
For Hot Dip Galvanizing, Add	24.82	
For High Strength Low Alloy A572-50 Steel, Add	11.57	
For High Strength Low Alloy A588 Steel, Add	25.72	
For Each Additional Top Copes >2, Add	0.89	
For Structural Tees, WT, MT Or ST, Deduct	-39.13	
For Skewed Or Sloped Connections, Add	15.43	
05 12 23 00-0292 LF W16 x 57 A992/A36 Structural Beam Or Girder.....	116.22	36.17
For Hot Dip Galvanizing, Add	21.54	
For High Strength Low Alloy A572-50 Steel, Add	10.46	
For High Strength Low Alloy A588 Steel, Add	23.24	
For Each Additional Top Copes >2, Add	0.78	
For Structural Tees, WT, MT Or ST, Deduct	-34.89	
For Skewed Or Sloped Connections, Add	13.95	
05 12 23 00-0293 LF W16 x 50 A992/A36 Structural Beam Or Girder.....	107.61	35.84
For Hot Dip Galvanizing, Add	19.24	
For High Strength Low Alloy A572-50 Steel, Add	9.68	
For High Strength Low Alloy A588 Steel, Add	21.52	
For Each Additional Top Copes >2, Add	0.69	
For Structural Tees, WT, MT Or ST, Deduct	-31.92	
For Skewed Or Sloped Connections, Add	12.91	
05 12 23 00-0294 LF W16 x 45 A992/A36 Structural Beam Or Girder.....	101.55	35.62
For Hot Dip Galvanizing, Add	17.62	
For High Strength Low Alloy A572-50 Steel, Add	9.14	
For High Strength Low Alloy A588 Steel, Add	20.31	
For Each Additional Top Copes >2, Add	0.64	
For Structural Tees, WT, MT Or ST, Deduct	-29.84	
For Skewed Or Sloped Connections, Add	12.19	
05 12 23 00-0295 LF W16 x 40 A992/A36 Structural Beam Or Girder.....	95.25	35.29
For Hot Dip Galvanizing, Add	15.97	
For High Strength Low Alloy A572-50 Steel, Add	8.57	
For High Strength Low Alloy A588 Steel, Add	19.05	
For Each Additional Top Copes >2, Add	0.58	
For Structural Tees, WT, MT Or ST, Deduct	-27.68	
For Skewed Or Sloped Connections, Add	11.43	
05 12 23 00-0296 LF W16 x 36 A992/A36 Structural Beam Or Girder.....	90.31	35.06
For Hot Dip Galvanizing, Add	14.69	
For High Strength Low Alloy A572-50 Steel, Add	8.13	
For High Strength Low Alloy A588 Steel, Add	18.06	
For Each Additional Top Copes >2, Add	0.53	
For Structural Tees, WT, MT Or ST, Deduct	-26.00	
For Skewed Or Sloped Connections, Add	10.84	
05 12 23 00-0297 LF W16 x 31 A992/A36 Structural Beam Or Girder.....	76.75	27.92
For Hot Dip Galvanizing, Add	13.03	
For High Strength Low Alloy A572-50 Steel, Add	6.91	
For High Strength Low Alloy A588 Steel, Add	15.35	
For Each Additional Top Copes >2, Add	0.47	
For Structural Tees, WT, MT Or ST, Deduct	-22.39	
For Skewed Or Sloped Connections, Add	9.21	
05 12 23 00-0298 LF W16 x 26 A992/A36 Structural Beam Or Girder.....	68.83	27.59
For Hot Dip Galvanizing, Add	10.93	
For High Strength Low Alloy A572-50 Steel, Add	6.19	
For High Strength Low Alloy A588 Steel, Add	13.77	
For Each Additional Top Copes >2, Add	0.39	
For Structural Tees, WT, MT Or ST, Deduct	-19.67	
For Skewed Or Sloped Connections, Add	8.26	



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

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0299	LF		W14 x 99 A992/A36 Structural Beam Or Girder.....	160.82	31.44
			<i>For Hot Dip Galvanizing, Add</i>	35.33	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.47	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	32.16	
			<i>For Each Additional Top Copes >2, Add</i>	1.27	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-51.26	
			<i>For Skewed Or Sloped Connections, Add</i>	19.30	
05 12 23 00-0300	LF		W14 x 90 A992/A36 Structural Beam Or Girder.....	149.68	30.89
			<i>For Hot Dip Galvanizing, Add</i>	32.39	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.47	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	29.94	
			<i>For Each Additional Top Copes >2, Add</i>	1.17	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-47.44	
			<i>For Skewed Or Sloped Connections, Add</i>	17.96	
05 12 23 00-0301	LF		W14 x 82 A992/A36 Structural Beam Or Girder.....	139.74	30.56
			<i>For Hot Dip Galvanizing, Add</i>	29.75	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.58	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	27.95	
			<i>For Each Additional Top Copes >2, Add</i>	1.07	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-44.03	
			<i>For Skewed Or Sloped Connections, Add</i>	16.77	
05 12 23 00-0302	LF		W14 x 74 A992/A36 Structural Beam Or Girder.....	129.82	30.12
			<i>For Hot Dip Galvanizing, Add</i>	27.11	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.68	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	25.96	
			<i>For Each Additional Top Copes >2, Add</i>	0.98	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-40.62	
			<i>For Skewed Or Sloped Connections, Add</i>	15.58	
05 12 23 00-0303	LF		W14 x 68 A992/A36 Structural Beam Or Girder.....	122.43	29.79
			<i>For Hot Dip Galvanizing, Add</i>	25.16	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.02	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	24.49	
			<i>For Each Additional Top Copes >2, Add</i>	0.91	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-38.09	
			<i>For Skewed Or Sloped Connections, Add</i>	14.69	
05 12 23 00-0304	LF		W14 x 61 A992/A36 Structural Beam Or Girder.....	113.82	29.46
			<i>For Hot Dip Galvanizing, Add</i>	22.86	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	10.24	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	22.76	
			<i>For Each Additional Top Copes >2, Add</i>	0.82	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-35.12	
			<i>For Skewed Or Sloped Connections, Add</i>	13.66	
05 12 23 00-0305	LF		W14 x 53 A992/A36 Structural Beam Or Girder.....	104.01	29.02
			<i>For Hot Dip Galvanizing, Add</i>	20.26	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.36	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	20.80	
			<i>For Each Additional Top Copes >2, Add</i>	0.73	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-31.75	
			<i>For Skewed Or Sloped Connections, Add</i>	12.48	
05 12 23 00-0306	LF		W14 x 48 A992/A36 Structural Beam Or Girder.....	97.71	28.69
			<i>For Hot Dip Galvanizing, Add</i>	18.60	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.79	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	19.54	
			<i>For Each Additional Top Copes >2, Add</i>	0.67	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-29.60	
			<i>For Skewed Or Sloped Connections, Add</i>	11.73	
05 12 23 00-0307	LF		W14 x 43 A992/A36 Structural Beam Or Girder.....	91.52	28.58
			<i>For Hot Dip Galvanizing, Add</i>	16.95	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.24	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	18.30	
			<i>For Each Additional Top Copes >2, Add</i>	0.61	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-27.46	
			<i>For Skewed Or Sloped Connections, Add</i>	10.98	
05 12 23 00-0308	LF		W14 x 38 A992/A36 Structural Beam Or Girder.....	85.36	28.36
			<i>For Hot Dip Galvanizing, Add</i>	15.33	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.68	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	17.07	
			<i>For Each Additional Top Copes >2, Add</i>	0.55	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-25.36	
			<i>For Skewed Or Sloped Connections, Add</i>	10.24	
05 12 23 00-0309	LF		W14 x 34 A992/A36 Structural Beam Or Girder.....	80.39	28.03
			<i>For Hot Dip Galvanizing, Add</i>	14.01	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.24	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	16.08	
			<i>For Each Additional Top Copes >2, Add</i>	0.50	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-23.65	
			<i>For Skewed Or Sloped Connections, Add</i>	9.65	
05 12 23 00-0310	LF		W14 x 30 A992/A36 Structural Beam Or Girder.....	75.42	27.92
			<i>For Hot Dip Galvanizing, Add</i>	12.69	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	6.79	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	15.08	
			<i>For Each Additional Top Copes >2, Add</i>	0.46	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-21.95	
			<i>For Skewed Or Sloped Connections, Add</i>	9.05	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0311 LF W14 x 26 A992/A36 Structural Beam Or Girder.....	70.45	27.59
For Hot Dip Galvanizing, Add	11.37	
For High Strength Low Alloy A572-50 Steel, Add	6.34	
For High Strength Low Alloy A588 Steel, Add	14.09	
For Each Additional Top Copes >2, Add	0.41	
For Structural Tees, WT, MT Or ST, Deduct	-20.24	
For Skewed Or Sloped Connections, Add	8.45	
05 12 23 00-0312 LF W14 x 22 A992/A36 Structural Beam Or Girder.....	65.61	27.48
For Hot Dip Galvanizing, Add	10.09	
For High Strength Low Alloy A572-50 Steel, Add	5.90	
For High Strength Low Alloy A588 Steel, Add	13.12	
For Each Additional Top Copes >2, Add	0.36	
For Structural Tees, WT, MT Or ST, Deduct	-18.58	
For Skewed Or Sloped Connections, Add	7.87	
05 12 23 00-0313 LF W12 x 87 A992/A36 Structural Beam Or Girder.....	146.05	30.78
For Hot Dip Galvanizing, Add	31.41	
For High Strength Low Alloy A572-50 Steel, Add	13.14	
For High Strength Low Alloy A588 Steel, Add	29.21	
For Each Additional Top Copes >2, Add	1.13	
For Structural Tees, WT, MT Or ST, Deduct	-46.19	
For Skewed Or Sloped Connections, Add	17.53	
05 12 23 00-0314 LF W12 x 79 A992/A36 Structural Beam Or Girder.....	136.11	30.34
For Hot Dip Galvanizing, Add	28.77	
For High Strength Low Alloy A572-50 Steel, Add	12.25	
For High Strength Low Alloy A588 Steel, Add	27.22	
For Each Additional Top Copes >2, Add	1.04	
For Structural Tees, WT, MT Or ST, Deduct	-42.78	
For Skewed Or Sloped Connections, Add	16.33	
05 12 23 00-0315 LF W12 x 72 A992/A36 Structural Beam Or Girder.....	127.40	30.01
For Hot Dip Galvanizing, Add	26.48	
For High Strength Low Alloy A572-50 Steel, Add	11.47	
For High Strength Low Alloy A588 Steel, Add	25.48	
For Each Additional Top Copes >2, Add	0.95	
For Structural Tees, WT, MT Or ST, Deduct	-39.79	
For Skewed Or Sloped Connections, Add	15.29	
05 12 23 00-0316 LF W12 x 65 A992/A36 Structural Beam Or Girder.....	118.79	29.68
For Hot Dip Galvanizing, Add	24.18	
For High Strength Low Alloy A572-50 Steel, Add	10.69	
For High Strength Low Alloy A588 Steel, Add	23.76	
For Each Additional Top Copes >2, Add	0.87	
For Structural Tees, WT, MT Or ST, Deduct	-36.83	
For Skewed Or Sloped Connections, Add	14.25	
05 12 23 00-0317 LF W12 x 58 A992/A36 Structural Beam Or Girder.....	110.07	29.24
For Hot Dip Galvanizing, Add	21.88	
For High Strength Low Alloy A572-50 Steel, Add	9.91	
For High Strength Low Alloy A588 Steel, Add	22.01	
For Each Additional Top Copes >2, Add	0.79	
For Structural Tees, WT, MT Or ST, Deduct	-33.84	
For Skewed Or Sloped Connections, Add	13.21	
05 12 23 00-0318 LF W12 x 53 A992/A36 Structural Beam Or Girder.....	104.01	29.02
For Hot Dip Galvanizing, Add	20.26	
For High Strength Low Alloy A572-50 Steel, Add	9.36	
For High Strength Low Alloy A588 Steel, Add	20.80	
For Each Additional Top Copes >2, Add	0.73	
For Structural Tees, WT, MT Or ST, Deduct	-31.75	
For Skewed Or Sloped Connections, Add	12.48	
05 12 23 00-0319 LF W12 x 50 A992/A36 Structural Beam Or Girder.....	100.13	28.91
For Hot Dip Galvanizing, Add	19.24	
For High Strength Low Alloy A572-50 Steel, Add	9.01	
For High Strength Low Alloy A588 Steel, Add	20.03	
For Each Additional Top Copes >2, Add	0.69	
For Structural Tees, WT, MT Or ST, Deduct	-30.43	
For Skewed Or Sloped Connections, Add	12.02	
05 12 23 00-0320 LF W12 x 45 A992/A36 Structural Beam Or Girder.....	94.07	28.69
For Hot Dip Galvanizing, Add	17.62	
For High Strength Low Alloy A572-50 Steel, Add	8.47	
For High Strength Low Alloy A588 Steel, Add	18.81	
For Each Additional Top Copes >2, Add	0.64	
For Structural Tees, WT, MT Or ST, Deduct	-28.34	
For Skewed Or Sloped Connections, Add	11.29	
05 12 23 00-0321 LF W12 x 40 A992/A36 Structural Beam Or Girder.....	80.30	21.33
For Hot Dip Galvanizing, Add	15.97	
For High Strength Low Alloy A572-50 Steel, Add	7.23	
For High Strength Low Alloy A588 Steel, Add	16.06	
For Each Additional Top Copes >2, Add	0.58	
For Structural Tees, WT, MT Or ST, Deduct	-24.69	
For Skewed Or Sloped Connections, Add	9.64	
05 12 23 00-0322 LF W12 x 35 A992/A36 Structural Beam Or Girder.....	74.25	21.22
For Hot Dip Galvanizing, Add	14.35	
For High Strength Low Alloy A572-50 Steel, Add	6.68	
For High Strength Low Alloy A588 Steel, Add	14.85	
For Each Additional Top Copes >2, Add	0.52	
For Structural Tees, WT, MT Or ST, Deduct	-22.61	
For Skewed Or Sloped Connections, Add	8.91	



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

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0323	LF		W12 x 30 A992/A36 Structural Beam Or Girder.....	67.95	20.88
			<i>For Hot Dip Galvanizing, Add</i>	12.69	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	6.12	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	13.59	
			<i>For Each Additional Top Copes >2, Add</i>	0.46	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-20.45	
			<i>For Skewed Or Sloped Connections, Add</i>	8.15	
05 12 23 00-0324	LF		W12 x 26 A992/A36 Structural Beam Or Girder.....	62.98	20.66
			<i>For Hot Dip Galvanizing, Add</i>	11.37	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	5.67	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	12.60	
			<i>For Each Additional Top Copes >2, Add</i>	0.41	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-18.74	
			<i>For Skewed Or Sloped Connections, Add</i>	7.56	
05 12 23 00-0325	LF		W12 x 22 A992/A36 Structural Beam Or Girder.....	58.14	20.44
			<i>For Hot Dip Galvanizing, Add</i>	10.09	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	5.23	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	11.63	
			<i>For Each Additional Top Copes >2, Add</i>	0.36	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-17.08	
			<i>For Skewed Or Sloped Connections, Add</i>	6.98	
05 12 23 00-0326	LF		W12 x 19 A992/A36 Structural Beam Or Girder.....	54.37	20.33
			<i>For Hot Dip Galvanizing, Add</i>	9.08	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	4.89	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	10.87	
			<i>For Each Additional Top Copes >2, Add</i>	0.33	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-15.78	
			<i>For Skewed Or Sloped Connections, Add</i>	6.52	
05 12 23 00-0327	LF		W12 x 16 A992/A36 Structural Beam Or Girder.....	50.62	20.00
			<i>For Hot Dip Galvanizing, Add</i>	8.10	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	4.56	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	10.12	
			<i>For Each Additional Top Copes >2, Add</i>	0.29	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-14.50	
			<i>For Skewed Or Sloped Connections, Add</i>	6.07	
05 12 23 00-0328	LF		W12 x 14 A992/A36 Structural Beam Or Girder.....	48.20	20.00
			<i>For Hot Dip Galvanizing, Add</i>	7.46	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	4.34	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	9.64	
			<i>For Each Additional Top Copes >2, Add</i>	0.27	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-13.67	
			<i>For Skewed Or Sloped Connections, Add</i>	5.78	
05 12 23 00-0329	LF		W10 x 68 A992/A36 Structural Beam Or Girder.....	115.34	22.98
			<i>For Hot Dip Galvanizing, Add</i>	25.23	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	10.38	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	23.07	
			<i>For Each Additional Top Copes >2, Add</i>	0.91	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-36.71	
			<i>For Skewed Or Sloped Connections, Add</i>	13.84	
05 12 23 00-0330	LF		W10 x 60 A992/A36 Structural Beam Or Girder.....	105.53	22.54
			<i>For Hot Dip Galvanizing, Add</i>	22.63	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.50	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	21.11	
			<i>For Each Additional Top Copes >2, Add</i>	0.82	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-33.34	
			<i>For Skewed Or Sloped Connections, Add</i>	12.66	
05 12 23 00-0331	LF		W10 x 54 A992/A36 Structural Beam Or Girder.....	98.01	22.10
			<i>For Hot Dip Galvanizing, Add</i>	20.64	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.82	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	19.60	
			<i>For Each Additional Top Copes >2, Add</i>	0.74	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-30.76	
			<i>For Skewed Or Sloped Connections, Add</i>	11.76	
05 12 23 00-0332	LF		W10 x 49 A992/A36 Structural Beam Or Girder.....	91.85	21.88
			<i>For Hot Dip Galvanizing, Add</i>	19.02	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.27	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	18.37	
			<i>For Each Additional Top Copes >2, Add</i>	0.69	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-28.65	
			<i>For Skewed Or Sloped Connections, Add</i>	11.02	
05 12 23 00-0333	LF		W10 x 45 A992/A36 Structural Beam Or Girder.....	86.88	21.77
			<i>For Hot Dip Galvanizing, Add</i>	17.70	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.82	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	17.38	
			<i>For Each Additional Top Copes >2, Add</i>	0.64	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-26.94	
			<i>For Skewed Or Sloped Connections, Add</i>	10.43	
05 12 23 00-0334	LF		W10 x 39 A992/A36 Structural Beam Or Girder.....	79.49	21.33
			<i>For Hot Dip Galvanizing, Add</i>	15.74	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.15	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	15.90	
			<i>For Each Additional Top Copes >2, Add</i>	0.57	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-24.41	
			<i>For Skewed Or Sloped Connections, Add</i>	9.54	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0335 LF W10 x 33 A992/A36 Structural Beam Or Girder.....	72.10	20.99
For Hot Dip Galvanizing, Add	13.78	
For High Strength Low Alloy A572-50 Steel, Add	6.49	
For High Strength Low Alloy A588 Steel, Add	14.42	
For Each Additional Top Copes >2, Add	0.50	
For Structural Tees, WT, MT Or ST, Deduct	-21.87	
For Skewed Or Sloped Connections, Add	8.65	
05 12 23 00-0336 LF W10 x 30 A992/A36 Structural Beam Or Girder.....	68.33	20.88
For Hot Dip Galvanizing, Add	12.77	
For High Strength Low Alloy A572-50 Steel, Add	6.15	
For High Strength Low Alloy A588 Steel, Add	13.67	
For Each Additional Top Copes >2, Add	0.46	
For Structural Tees, WT, MT Or ST, Deduct	-20.57	
For Skewed Or Sloped Connections, Add	8.20	
05 12 23 00-0337 LF W10 x 26 A992/A36 Structural Beam Or Girder.....	63.49	20.77
For Hot Dip Galvanizing, Add	11.49	
For High Strength Low Alloy A572-50 Steel, Add	5.71	
For High Strength Low Alloy A588 Steel, Add	12.70	
For Each Additional Top Copes >2, Add	0.41	
For Structural Tees, WT, MT Or ST, Deduct	-18.91	
For Skewed Or Sloped Connections, Add	7.62	
05 12 23 00-0338 LF W10 x 22 A992/A36 Structural Beam Or Girder.....	58.41	20.44
For Hot Dip Galvanizing, Add	10.17	
For High Strength Low Alloy A572-50 Steel, Add	5.26	
For High Strength Low Alloy A588 Steel, Add	11.68	
For Each Additional Top Copes >2, Add	0.37	
For Structural Tees, WT, MT Or ST, Deduct	-17.18	
For Skewed Or Sloped Connections, Add	7.01	
05 12 23 00-0339 LF W10 x 19 A992/A36 Structural Beam Or Girder.....	54.77	20.33
For Hot Dip Galvanizing, Add	9.19	
For High Strength Low Alloy A572-50 Steel, Add	4.93	
For High Strength Low Alloy A588 Steel, Add	10.95	
For Each Additional Top Copes >2, Add	0.33	
For Structural Tees, WT, MT Or ST, Deduct	-15.92	
For Skewed Or Sloped Connections, Add	6.57	
05 12 23 00-0340 LF W10 x 17 A992/A36 Structural Beam Or Girder.....	52.22	20.22
For Hot Dip Galvanizing, Add	8.51	
For High Strength Low Alloy A572-50 Steel, Add	4.70	
For High Strength Low Alloy A588 Steel, Add	10.44	
For Each Additional Top Copes >2, Add	0.31	
For Structural Tees, WT, MT Or ST, Deduct	-15.04	
For Skewed Or Sloped Connections, Add	6.27	
05 12 23 00-0341 LF W10 x 15 A992/A36 Structural Beam Or Girder.....	49.80	20.00
For Hot Dip Galvanizing, Add	7.87	
For High Strength Low Alloy A572-50 Steel, Add	4.48	
For High Strength Low Alloy A588 Steel, Add	9.96	
For Each Additional Top Copes >2, Add	0.28	
For Structural Tees, WT, MT Or ST, Deduct	-14.21	
For Skewed Or Sloped Connections, Add	5.98	
05 12 23 00-0342 LF W10 x 12 A992/A36 Structural Beam Or Girder.....	46.17	20.00
For Hot Dip Galvanizing, Add	6.89	
For High Strength Low Alloy A572-50 Steel, Add	4.16	
For High Strength Low Alloy A588 Steel, Add	9.23	
For Each Additional Top Copes >2, Add	0.25	
For Structural Tees, WT, MT Or ST, Deduct	-12.96	
For Skewed Or Sloped Connections, Add	5.54	
05 12 23 00-0343 LF W8 x 35 A992/A36 Structural Beam Or Girder.....	74.52	21.22
For Hot Dip Galvanizing, Add	14.42	
For High Strength Low Alloy A572-50 Steel, Add	6.71	
For High Strength Low Alloy A588 Steel, Add	14.90	
For Each Additional Top Copes >2, Add	0.52	
For Structural Tees, WT, MT Or ST, Deduct	-22.70	
For Skewed Or Sloped Connections, Add	8.94	
05 12 23 00-0344 LF W8 x 31 A992/A36 Structural Beam Or Girder.....	69.55	20.88
For Hot Dip Galvanizing, Add	13.11	
For High Strength Low Alloy A572-50 Steel, Add	6.26	
For High Strength Low Alloy A588 Steel, Add	13.91	
For Each Additional Top Copes >2, Add	0.47	
For Structural Tees, WT, MT Or ST, Deduct	-20.99	
For Skewed Or Sloped Connections, Add	8.35	
05 12 23 00-0345 LF W8 x 28 A992/A36 Structural Beam Or Girder.....	64.69	19.67
For Hot Dip Galvanizing, Add	12.13	
For High Strength Low Alloy A572-50 Steel, Add	5.82	
For High Strength Low Alloy A588 Steel, Add	12.94	
For Each Additional Top Copes >2, Add	0.44	
For Structural Tees, WT, MT Or ST, Deduct	-19.49	
For Skewed Or Sloped Connections, Add	7.76	
05 12 23 00-0346 LF W8 x 24 A992/A36 Structural Beam Or Girder.....	59.04	18.46
For Hot Dip Galvanizing, Add	10.93	
For High Strength Low Alloy A572-50 Steel, Add	5.31	
For High Strength Low Alloy A588 Steel, Add	11.81	
For Each Additional Top Copes >2, Add	0.39	
For Structural Tees, WT, MT Or ST, Deduct	-17.71	
For Skewed Or Sloped Connections, Add	7.08	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0347	LF		W8 x 21 A992/A36 Structural Beam Or Girder.....	54.95	17.15
			<i>For Hot Dip Galvanizing, Add</i>	10.16	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	4.95	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	10.99	
			<i>For Each Additional Top Copes >2, Add</i>	0.37	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-16.48	
			<i>For Skewed Or Sloped Connections, Add</i>	6.59	
05 12 23 00-0348	LF		W8 x 18 A992/A36 Structural Beam Or Girder.....	48.20	15.94
			<i>For Hot Dip Galvanizing, Add</i>	8.65	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	4.34	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	9.64	
			<i>For Each Additional Top Copes >2, Add</i>	0.31	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-14.31	
			<i>For Skewed Or Sloped Connections, Add</i>	5.78	
05 12 23 00-0349	LF		W8 x 10 A992/A36 Structural Beam Or Girder.....	28.73	11.43
			<i>For Hot Dip Galvanizing, Add</i>	4.62	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	2.59	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	5.75	
			<i>For Each Additional Top Copes >2, Add</i>	0.17	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-8.24	
			<i>For Skewed Or Sloped Connections, Add</i>	3.45	
05 12 23 00-0350	LF		W6 x 9 A992/A36 Structural Beam Or Girder.....	26.32	9.35
			<i>For Hot Dip Galvanizing, Add</i>	4.56	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	2.37	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	5.26	
			<i>For Each Additional Top Copes >2, Add</i>	0.16	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-7.73	
			<i>For Skewed Or Sloped Connections, Add</i>	3.16	
05 12 23 00-0351			A992/A36 Structural Steel, M Shapes (05 12 23 00-0133)		
			Note: Includes material delivery and erection.		
05 12 23 00-0352	LF		M14 x 18 A992/A36 Structural Steel.....	53.38	14.62
			<i>For Hot Dip Galvanizing, Add</i>	10.49	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	4.80	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	10.68	
05 12 23 00-0353	LF		M12 x 11.8 A992/A36 Structural Steel.....	38.56	12.93
			<i>For Hot Dip Galvanizing, Add</i>	6.87	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	3.47	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	7.71	
05 12 23 00-0354	LF		M10 x 9 A992/A36 Structural Steel.....	29.95	10.39
			<i>For Hot Dip Galvanizing, Add</i>	5.24	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	2.70	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	5.99	
05 12 23 00-0355	LF		M8 x 6.5 A992/A36 Structural Steel.....	21.64	7.50
			<i>For Hot Dip Galvanizing, Add</i>	3.79	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	1.95	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	4.33	
05 12 23 00-0356	LF		M6 x 20 A992/A36 Structural Steel.....	60.66	17.70
			<i>For Hot Dip Galvanizing, Add</i>	11.65	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	5.46	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	12.13	
05 12 23 00-0357	LF		M6 x 4.4 A992/A36 Structural Steel.....	14.64	5.07
			<i>For Hot Dip Galvanizing, Add</i>	2.56	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	1.32	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	2.93	
05 12 23 00-0358	LF		M5 x 18.9 A992/A36 Structural Steel.....	58.50	17.70
			<i>For Hot Dip Galvanizing, Add</i>	10.99	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	5.27	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	11.70	
05 12 23 00-0359	LF		M4 x 13 A992/A36 Structural Steel.....	48.32	17.37
			<i>For Hot Dip Galvanizing, Add</i>	8.29	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	4.35	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	9.66	
05 12 23 00-0360			A992/A36 Structural Steel, S Shapes (05 12 23 00-0133)		
			Note: Includes material delivery and erection.		
05 12 23 00-0361	LF		S24 x 121 A992/A36 Structural Steel.....	319.57	74.08
			<i>For Hot Dip Galvanizing, Add</i>	66.76	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	28.76	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	63.91	
05 12 23 00-0362	LF		S24 x 106 A992/A36 Structural Steel.....	283.60	68.32
			<i>For Hot Dip Galvanizing, Add</i>	58.49	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	25.52	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	56.72	
05 12 23 00-0363	LF		S24 x 100 A992/A36 Structural Steel.....	271.16	67.83
			<i>For Hot Dip Galvanizing, Add</i>	55.18	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	24.40	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	54.23	
05 12 23 00-0364	LF		S24 x 90 A992/A36 Structural Steel.....	247.47	64.26
			<i>For Hot Dip Galvanizing, Add</i>	49.66	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	22.27	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	49.49	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0365	LF		S24 x 80 A992/A36 Structural Steel.....	223.17	60.14
			<i>For Hot Dip Galvanizing, Add</i>	44.14	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	20.09	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	44.63	
05 12 23 00-0366	LF		S20 x 96 A992/A36 Structural Steel.....	260.32	65.12
			<i>For Hot Dip Galvanizing, Add</i>	52.97	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	23.43	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	52.06	
05 12 23 00-0367	LF		S20 x 86 A992/A36 Structural Steel.....	236.47	61.41
			<i>For Hot Dip Galvanizing, Add</i>	47.45	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	21.28	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	47.29	
05 12 23 00-0368	LF		S20 x 75 A992/A36 Structural Steel.....	209.23	56.38
			<i>For Hot Dip Galvanizing, Add</i>	41.38	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	18.83	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	41.85	
05 12 23 00-0369	LF		S20 x 66 A992/A36 Structural Steel.....	186.90	52.22
			<i>For Hot Dip Galvanizing, Add</i>	36.42	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	16.82	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	37.38	
05 12 23 00-0370	LF		S18 x 70 A992/A36 Structural Steel.....	198.23	55.39
			<i>For Hot Dip Galvanizing, Add</i>	38.62	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	17.84	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	39.65	
05 12 23 00-0371	LF		S18 x 54.7 A992/A36 Structural Steel.....	157.33	45.55
			<i>For Hot Dip Galvanizing, Add</i>	30.18	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.16	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	31.47	
05 12 23 00-0372	LF		S15 x 50 A992/A36 Structural Steel.....	146.15	43.83
			<i>For Hot Dip Galvanizing, Add</i>	27.59	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.15	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	29.23	
05 12 23 00-0373	LF		S15 x 42.9 A992/A36 Structural Steel.....	127.51	39.59
			<i>For Hot Dip Galvanizing, Add</i>	23.67	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.48	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	25.50	
05 12 23 00-0374	LF		S12 x 50 A992/A36 Structural Steel.....	143.82	41.64
			<i>For Hot Dip Galvanizing, Add</i>	27.59	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.94	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	28.76	
05 12 23 00-0375	LF		S12 x 40.8 A992/A36 Structural Steel.....	119.25	35.77
			<i>For Hot Dip Galvanizing, Add</i>	22.51	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	10.73	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	23.85	
05 12 23 00-0376	LF		S12 x 35 A992/A36 Structural Steel.....	104.02	32.30
			<i>For Hot Dip Galvanizing, Add</i>	19.31	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.36	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	20.80	
05 12 23 00-0377	LF		S12 x 31.8 A992/A36 Structural Steel.....	96.17	30.89
			<i>For Hot Dip Galvanizing, Add</i>	17.55	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.66	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	19.23	
05 12 23 00-0378	LF		S10 x 35 A992/A36 Structural Steel.....	105.84	34.01
			<i>For Hot Dip Galvanizing, Add</i>	19.31	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.53	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	21.17	
05 12 23 00-0379	LF		S10 x 25.4 A992/A36 Structural Steel.....	78.19	25.97
			<i>For Hot Dip Galvanizing, Add</i>	14.01	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.04	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	15.64	
05 12 23 00-0380	LF		S8 x 23 A992/A36 Structural Steel.....	70.81	23.52
			<i>For Hot Dip Galvanizing, Add</i>	12.69	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	6.37	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	14.16	
05 12 23 00-0381	LF		S8 x 18.4 A992/A36 Structural Steel.....	57.71	19.81
			<i>For Hot Dip Galvanizing, Add</i>	10.15	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	5.19	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	11.54	
05 12 23 00-0382	LF		S7 x 20 A992/A36 Structural Steel.....	62.72	21.53
			<i>For Hot Dip Galvanizing, Add</i>	11.04	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	5.64	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	12.54	
05 12 23 00-0383	LF		S7 x 15.3 A992/A36 Structural Steel.....	48.91	17.34
			<i>For Hot Dip Galvanizing, Add</i>	8.44	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	4.40	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	9.78	
05 12 23 00-0384	LF		S6 x 17.25 A992/A36 Structural Steel.....	54.09	18.56
			<i>For Hot Dip Galvanizing, Add</i>	9.52	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	4.87	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	10.82	
05 12 23 00-0385	LF		S6 x 12.5 A992/A36 Structural Steel.....	46.48	17.15
			<i>For Hot Dip Galvanizing, Add</i>	7.81	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	4.18	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	9.30	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0386 LF S5 x 14.75 A992/A36 Structural Steel.....	49.41	17.48
For Hot Dip Galvanizing, Add	8.56	
For High Strength Low Alloy A572-50 Steel, Add	4.45	
For High Strength Low Alloy A588 Grade B Steel, Add	9.88	
05 12 23 00-0387 LF S5 x 10 A992/A36 Structural Steel.....	42.18	17.04
For Hot Dip Galvanizing, Add	6.64	
For High Strength Low Alloy A572-50 Steel, Add	3.80	
For High Strength Low Alloy A588 Grade B Steel, Add	8.44	
05 12 23 00-0388 LF S4 x 9.5 A992/A36 Structural Steel.....	41.06	17.04
For Hot Dip Galvanizing, Add	6.33	
For High Strength Low Alloy A572-50 Steel, Add	3.70	
For High Strength Low Alloy A588 Grade B Steel, Add	8.21	
05 12 23 00-0389 LF S4 x 7.7 A992/A36 Structural Steel.....	38.49	17.04
For Hot Dip Galvanizing, Add	5.65	
For High Strength Low Alloy A572-50 Steel, Add	3.46	
For High Strength Low Alloy A588 Grade B Steel, Add	7.70	
05 12 23 00-0390 LF S3 x 7.5 A992/A36 Structural Steel.....	38.24	17.04
For Hot Dip Galvanizing, Add	5.58	
For High Strength Low Alloy A572-50 Steel, Add	3.44	
For High Strength Low Alloy A588 Grade B Steel, Add	7.65	
05 12 23 00-0391 LF S3 x 5.7 A992/A36 Structural Steel.....	35.17	16.93
For Hot Dip Galvanizing, Add	4.76	
For High Strength Low Alloy A572-50 Steel, Add	3.17	
For High Strength Low Alloy A588 Grade B Steel, Add	7.03	
05 12 23 00-0392 A992/A36 Structural Steel, HP Shapes <small>(05 12 23 00-0133)</small>		
Note: Includes material delivery and erection.		
05 12 23 00-0393 LF HP14 x 117 A992/A36 Structural Steel.....	194.27	21.95
For Hot Dip Galvanizing, Add	47.42	
For High Strength Low Alloy A572-50 Steel, Add	17.48	
For High Strength Low Alloy A588 Grade B Steel, Add	38.85	
05 12 23 00-0394 LF HP14 x 102 A992/A36 Structural Steel.....	170.12	20.42
For Hot Dip Galvanizing, Add	41.17	
For High Strength Low Alloy A572-50 Steel, Add	15.31	
For High Strength Low Alloy A588 Grade B Steel, Add	34.02	
05 12 23 00-0395 LF HP14 x 89 A992/A36 Structural Steel.....	151.67	19.16
For Hot Dip Galvanizing, Add	36.42	
For High Strength Low Alloy A572-50 Steel, Add	13.65	
For High Strength Low Alloy A588 Grade B Steel, Add	30.33	
05 12 23 00-0396 LF HP14 x 73 A992/A36 Structural Steel.....	125.81	18.05
For Hot Dip Galvanizing, Add	29.57	
For High Strength Low Alloy A572-50 Steel, Add	11.32	
For High Strength Low Alloy A588 Grade B Steel, Add	25.16	
05 12 23 00-0397 LF HP13 x 100 A992/A36 Structural Steel.....	166.80	20.02
For Hot Dip Galvanizing, Add	40.36	
For High Strength Low Alloy A572-50 Steel, Add	15.01	
For High Strength Low Alloy A588 Grade B Steel, Add	33.36	
05 12 23 00-0398 LF HP13 x 87 A992/A36 Structural Steel.....	148.27	18.73
For Hot Dip Galvanizing, Add	35.60	
For High Strength Low Alloy A572-50 Steel, Add	13.34	
For High Strength Low Alloy A588 Grade B Steel, Add	29.65	
05 12 23 00-0399 LF HP13 x 73 A992/A36 Structural Steel.....	125.81	18.05
For Hot Dip Galvanizing, Add	29.57	
For High Strength Low Alloy A572-50 Steel, Add	11.32	
For High Strength Low Alloy A588 Grade B Steel, Add	25.16	
05 12 23 00-0400 LF HP13 x 60 A992/A36 Structural Steel.....	106.82	17.31
For Hot Dip Galvanizing, Add	24.52	
For High Strength Low Alloy A572-50 Steel, Add	9.61	
For High Strength Low Alloy A588 Grade B Steel, Add	21.36	
05 12 23 00-0401 LF HP12 x 84 A992/A36 Structural Steel.....	140.10	19.75
For Hot Dip Galvanizing, Add	33.04	
For High Strength Low Alloy A572-50 Steel, Add	12.61	
For High Strength Low Alloy A588 Grade B Steel, Add	28.02	
05 12 23 00-0402 LF HP12 x 74 A992/A36 Structural Steel.....	123.91	18.63
For Hot Dip Galvanizing, Add	28.88	
For High Strength Low Alloy A572-50 Steel, Add	11.15	
For High Strength Low Alloy A588 Grade B Steel, Add	24.78	
05 12 23 00-0403 LF HP12 x 63 A992/A36 Structural Steel.....	106.79	17.13
For Hot Dip Galvanizing, Add	24.57	
For High Strength Low Alloy A572-50 Steel, Add	9.61	
For High Strength Low Alloy A588 Grade B Steel, Add	21.36	
05 12 23 00-0404 LF HP12 x 53 A992/A36 Structural Steel.....	97.97	16.29
For Hot Dip Galvanizing, Add	22.37	
For High Strength Low Alloy A572-50 Steel, Add	8.82	
For High Strength Low Alloy A588 Grade B Steel, Add	19.59	
05 12 23 00-0405 LF HP10 x 57 A992/A36 Structural Steel.....	103.17	16.71
For Hot Dip Galvanizing, Add	23.68	
For High Strength Low Alloy A572-50 Steel, Add	9.29	
For High Strength Low Alloy A588 Grade B Steel, Add	20.63	
05 12 23 00-0406 LF HP10 x 42 A992/A36 Structural Steel.....	85.23	15.66
For Hot Dip Galvanizing, Add	19.02	
For High Strength Low Alloy A572-50 Steel, Add	7.67	
For High Strength Low Alloy A588 Grade B Steel, Add	17.05	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0407	LF		HP8 x 36 A992/A36 Structural Steel	74.23	14.77
			<i>For Hot Dip Galvanizing, Add</i>	16.23	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	6.68	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	14.85	
05 12 23 00-0408			Lightweight Framing Steel Shapes (05 12 23)		
			Note: Includes cutting to length. When used with structural steel shapes by TON, connecting bolts or welds are considered included with structural steel tasks by TON.		
05 12 23 00-0409			Angle Iron - L (05 12 23 00-0408)		
05 12 23 00-0410			1/8" Thick (05 12 23 00-0409)		
05 12 23 00-0411	LF		1/2" x 1/2" x 1/8" Thick, Plain Steel Angle Iron	2.54	1.50
			<i>For >100 To 250, Deduct</i>	-0.15	
			<i>For >250 To 500, Deduct</i>	-0.21	
			<i>For >500 To 1,000, Deduct</i>	-0.33	
			<i>For >1,000, Deduct</i>	-0.44	
			<i>For 316 Stainless Steel, Add</i>	1.73	
			<i>For Aluminum, Add</i>	0.10	
			<i>For Galvanized Steel, Add</i>	0.33	
			<i>For 304 Stainless Steel, Add</i>	1.54	
			<i>For High Strength Steel (HSS), Add</i>	0.51	
05 12 23 00-0412	LF		3/4" x 1/2" x 1/8" Thick, Plain Steel Angle Iron	2.96	1.69
			<i>For >100 To 250, Deduct</i>	-0.17	
			<i>For >250 To 500, Deduct</i>	-0.24	
			<i>For >500 To 1,000, Deduct</i>	-0.38	
			<i>For >1,000, Deduct</i>	-0.51	
			<i>For 316 Stainless Steel, Add</i>	2.21	
			<i>For Aluminum, Add</i>	0.12	
			<i>For Galvanized Steel, Add</i>	0.43	
			<i>For 304 Stainless Steel, Add</i>	1.97	
			<i>For High Strength Steel (HSS), Add</i>	0.59	
05 12 23 00-0413	LF		3/4" x 3/4" x 1/8" Thick, Plain Steel Angle Iron	3.35	1.88
			<i>For >100 To 250, Deduct</i>	-0.19	
			<i>For >250 To 500, Deduct</i>	-0.27	
			<i>For >500 To 1,000, Deduct</i>	-0.42	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For 316 Stainless Steel, Add</i>	2.72	
			<i>For Aluminum, Add</i>	0.15	
			<i>For Galvanized Steel, Add</i>	0.53	
			<i>For 304 Stainless Steel, Add</i>	2.42	
			<i>For High Strength Steel (HSS), Add</i>	0.67	
05 12 23 00-0414	LF		1" x 3/4" x 1/8" Thick, Plain Steel Angle Iron	3.75	2.09
			<i>For >100 To 250, Deduct</i>	-0.21	
			<i>For >250 To 500, Deduct</i>	-0.30	
			<i>For >500 To 1,000, Deduct</i>	-0.46	
			<i>For >1,000, Deduct</i>	-0.63	
			<i>For 316 Stainless Steel, Add</i>	3.14	
			<i>For Aluminum, Add</i>	0.18	
			<i>For Galvanized Steel, Add</i>	0.61	
			<i>For 304 Stainless Steel, Add</i>	2.79	
			<i>For High Strength Steel (HSS), Add</i>	0.75	
05 12 23 00-0415	LF		1" x 1" x 1/8" Thick, Plain Steel Angle Iron	4.14	2.25
			<i>For >100 To 250, Deduct</i>	-0.23	
			<i>For >250 To 500, Deduct</i>	-0.33	
			<i>For >500 To 1,000, Deduct</i>	-0.51	
			<i>For >1,000, Deduct</i>	-0.69	
			<i>For 316 Stainless Steel, Add</i>	3.65	
			<i>For Aluminum, Add</i>	0.21	
			<i>For Galvanized Steel, Add</i>	0.71	
			<i>For 304 Stainless Steel, Add</i>	3.25	
			<i>For High Strength Steel (HSS), Add</i>	0.83	
05 12 23 00-0416	LF		1-1/4" x 1-1/4" x 1/8" Thick, Plain Steel Angle Iron	4.98	2.65
			<i>For >100 To 250, Deduct</i>	-0.26	
			<i>For >250 To 500, Deduct</i>	-0.39	
			<i>For >500 To 1,000, Deduct</i>	-0.60	
			<i>For >1,000, Deduct</i>	-0.81	
			<i>For 316 Stainless Steel, Add</i>	4.64	
			<i>For Aluminum, Add</i>	0.26	
			<i>For Galvanized Steel, Add</i>	0.90	
			<i>For 304 Stainless Steel, Add</i>	4.13	
			<i>For High Strength Steel (HSS), Add</i>	1.00	
05 12 23 00-0417	LF		1-1/2" x 1" x 1/8" Thick, Plain Steel Angle Iron	4.98	2.65
			<i>For >100 To 250, Deduct</i>	-0.26	
			<i>For >250 To 500, Deduct</i>	-0.39	
			<i>For >500 To 1,000, Deduct</i>	-0.60	
			<i>For >1,000, Deduct</i>	-0.81	
			<i>For 316 Stainless Steel, Add</i>	4.64	
			<i>For Aluminum, Add</i>	0.26	
			<i>For Galvanized Steel, Add</i>	0.90	
			<i>For 304 Stainless Steel, Add</i>	4.13	
			<i>For High Strength Steel (HSS), Add</i>	1.00	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0418	LF		1-1/2" x 1-1/2" x 1/8" Thick, Plain Steel Angle Iron	5.97	3.17
			<i>For >100 To 250, Deduct</i>	-0.32	
			<i>For >250 To 500, Deduct</i>	-0.47	
			<i>For >500 To 1,000, Deduct</i>	-0.72	
			<i>For >1,000, Deduct</i>	-0.98	
			<i>For 316 Stainless Steel, Add</i>	5.57	
			<i>For Aluminum, Add</i>	0.31	
			<i>For Galvanized Steel, Add</i>	1.08	
			<i>For 304 Stainless Steel, Add</i>	4.96	
			<i>For High Strength Steel (HSS), Add</i>	1.19	
05 12 23 00-0419	LF		2" x 2" x 1/8" Thick, Plain Steel Angle Iron	8.11	4.31
			<i>For >100 To 250, Deduct</i>	-0.43	
			<i>For >250 To 500, Deduct</i>	-0.63	
			<i>For >500 To 1,000, Deduct</i>	-0.98	
			<i>For >1,000, Deduct</i>	-1.33	
			<i>For 316 Stainless Steel, Add</i>	7.58	
			<i>For Aluminum, Add</i>	0.43	
			<i>For Galvanized Steel, Add</i>	1.47	
			<i>For 304 Stainless Steel, Add</i>	6.75	
			<i>For High Strength Steel (HSS), Add</i>	1.62	
05 12 23 00-0420			3/16" Thick <small>(05 12 23 00-0409)</small>		
05 12 23 00-0421	LF		1-1/4" x 1-1/4" x 3/16" Thick, Plain Steel Angle Iron	5.85	2.79
			<i>For >100 To 250, Deduct</i>	-0.28	
			<i>For >250 To 500, Deduct</i>	-0.43	
			<i>For >500 To 1,000, Deduct</i>	-0.67	
			<i>For >1,000, Deduct</i>	-0.91	
			<i>For 316 Stainless Steel, Add</i>	6.78	
			<i>For Aluminum, Add</i>	0.38	
			<i>For Galvanized Steel, Add</i>	1.31	
			<i>For 304 Stainless Steel, Add</i>	6.04	
			<i>For High Strength Steel (HSS), Add</i>	1.17	
05 12 23 00-0422	LF		1-1/2" x 1" x 3/16" Thick, Plain Steel Angle Iron	5.85	2.79
			<i>For >100 To 250, Deduct</i>	-0.28	
			<i>For >250 To 500, Deduct</i>	-0.43	
			<i>For >500 To 1,000, Deduct</i>	-0.67	
			<i>For >1,000, Deduct</i>	-0.91	
			<i>For 316 Stainless Steel, Add</i>	6.78	
			<i>For Aluminum, Add</i>	0.38	
			<i>For Galvanized Steel, Add</i>	1.31	
			<i>For 304 Stainless Steel, Add</i>	6.04	
			<i>For High Strength Steel (HSS), Add</i>	1.17	
05 12 23 00-0423	LF		1-1/2" x 1-1/2" x 3/16" Thick, Plain Steel Angle Iron	6.57	3.00
			<i>For >100 To 250, Deduct</i>	-0.30	
			<i>For >250 To 500, Deduct</i>	-0.46	
			<i>For >500 To 1,000, Deduct</i>	-0.73	
			<i>For >1,000, Deduct</i>	-0.99	
			<i>For 316 Stainless Steel, Add</i>	8.26	
			<i>For Aluminum, Add</i>	0.46	
			<i>For Galvanized Steel, Add</i>	1.60	
			<i>For 304 Stainless Steel, Add</i>	7.35	
			<i>For High Strength Steel (HSS), Add</i>	1.31	
05 12 23 00-0424	LF		2" x 2" x 3/16" Thick, Plain Steel Angle Iron	7.79	3.22
			<i>For >100 To 250, Deduct</i>	-0.32	
			<i>For >250 To 500, Deduct</i>	-0.52	
			<i>For >500 To 1,000, Deduct</i>	-0.82	
			<i>For >1,000, Deduct</i>	-1.12	
			<i>For 316 Stainless Steel, Add</i>	11.20	
			<i>For Aluminum, Add</i>	0.63	
			<i>For Galvanized Steel, Add</i>	2.17	
			<i>For 304 Stainless Steel, Add</i>	9.98	
			<i>For High Strength Steel (HSS), Add</i>	1.56	
05 12 23 00-0425	LF		2-1/2" x 2" x 3/16" Thick, Plain Steel Angle Iron	8.54	3.44
			<i>For >100 To 250, Deduct</i>	-0.34	
			<i>For >250 To 500, Deduct</i>	-0.56	
			<i>For >500 To 1,000, Deduct</i>	-0.89	
			<i>For >1,000, Deduct</i>	-1.21	
			<i>For 316 Stainless Steel, Add</i>	12.64	
			<i>For Aluminum, Add</i>	0.71	
			<i>For Galvanized Steel, Add</i>	2.45	
			<i>For 304 Stainless Steel, Add</i>	11.26	
			<i>For High Strength Steel (HSS), Add</i>	1.71	
05 12 23 00-0426	LF		2-1/2" x 2-1/2" x 3/16" Thick, Plain Steel Angle Iron	9.33	3.69
			<i>For >100 To 250, Deduct</i>	-0.37	
			<i>For >250 To 500, Deduct</i>	-0.60	
			<i>For >500 To 1,000, Deduct</i>	-0.96	
			<i>For >1,000, Deduct</i>	-1.31	
			<i>For 316 Stainless Steel, Add</i>	14.14	
			<i>For Aluminum, Add</i>	0.80	
			<i>For Galvanized Steel, Add</i>	2.74	
			<i>For 304 Stainless Steel, Add</i>	12.60	
			<i>For High Strength Steel (HSS), Add</i>	1.87	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0427	LF		3" x 2" x 3/16" Thick, Plain Steel Angle Iron.....	9.31	3.69
			<i>For >100 To 250, Deduct</i>	-0.37	
			<i>For >250 To 500, Deduct</i>	-0.60	
			<i>For >500 To 1,000, Deduct</i>	-0.96	
			<i>For >1,000, Deduct</i>	-1.31	
			<i>For 316 Stainless Steel, Add</i>	14.08	
			<i>For Aluminum, Add</i>	0.79	
			<i>For Galvanized Steel, Add</i>	2.73	
			<i>For 304 Stainless Steel, Add</i>	12.54	
			<i>For High Strength Steel (HSS), Add</i>	1.86	
05 12 23 00-0428	LF		3" x 2-1/2" x 3/16" Thick, Plain Steel Angle Iron.....	10.29	4.07
			<i>For >100 To 250, Deduct</i>	-0.41	
			<i>For >250 To 500, Deduct</i>	-0.66	
			<i>For >500 To 1,000, Deduct</i>	-1.06	
			<i>For >1,000, Deduct</i>	-1.45	
			<i>For 316 Stainless Steel, Add</i>	15.55	
			<i>For Aluminum, Add</i>	0.87	
			<i>For Galvanized Steel, Add</i>	3.01	
			<i>For 304 Stainless Steel, Add</i>	13.85	
			<i>For High Strength Steel (HSS), Add</i>	2.06	
05 12 23 00-0429	LF		3" x 3" x 3/16" Thick, Plain Steel Angle Iron.....	11.26	4.46
			<i>For >100 To 250, Deduct</i>	-0.45	
			<i>For >250 To 500, Deduct</i>	-0.73	
			<i>For >500 To 1,000, Deduct</i>	-1.16	
			<i>For >1,000, Deduct</i>	-1.59	
			<i>For 316 Stainless Steel, Add</i>	17.02	
			<i>For Aluminum, Add</i>	0.96	
			<i>For Galvanized Steel, Add</i>	3.30	
			<i>For 304 Stainless Steel, Add</i>	15.16	
			<i>For High Strength Steel (HSS), Add</i>	2.25	
05 12 23 00-0430			1/4" Thick (05 12 23 00-0409)		
05 12 23 00-0431	LF		1-1/2" x 1" x 1/4" Thick, Plain Steel Angle Iron.....	6.66	2.95
			<i>For >100 To 250, Deduct</i>	-0.30	
			<i>For >250 To 500, Deduct</i>	-0.46	
			<i>For >500 To 1,000, Deduct</i>	-0.73	
			<i>For >1,000, Deduct</i>	-0.99	
			<i>For 316 Stainless Steel, Add</i>	8.70	
			<i>For Aluminum, Add</i>	0.49	
			<i>For Galvanized Steel, Add</i>	1.69	
			<i>For 304 Stainless Steel, Add</i>	7.75	
			<i>For High Strength Steel (HSS), Add</i>	1.33	
05 12 23 00-0432	LF		1-1/2" x 1-1/2" x 1/4" Thick, Plain Steel Angle Iron.....	7.54	3.17
			<i>For >100 To 250, Deduct</i>	-0.32	
			<i>For >250 To 500, Deduct</i>	-0.51	
			<i>For >500 To 1,000, Deduct</i>	-0.80	
			<i>For >1,000, Deduct</i>	-1.09	
			<i>For 316 Stainless Steel, Add</i>	10.62	
			<i>For Aluminum, Add</i>	0.60	
			<i>For Galvanized Steel, Add</i>	2.06	
			<i>For 304 Stainless Steel, Add</i>	9.46	
			<i>For High Strength Steel (HSS), Add</i>	1.51	
05 12 23 00-0433	LF		2" x 2" x 1/4" Thick, Plain Steel Angle Iron.....	9.07	3.37
			<i>For >100 To 250, Deduct</i>	-0.34	
			<i>For >250 To 500, Deduct</i>	-0.56	
			<i>For >500 To 1,000, Deduct</i>	-0.90	
			<i>For >1,000, Deduct</i>	-1.24	
			<i>For 316 Stainless Steel, Add</i>	14.62	
			<i>For Aluminum, Add</i>	0.82	
			<i>For Galvanized Steel, Add</i>	2.83	
			<i>For 304 Stainless Steel, Add</i>	13.02	
			<i>For High Strength Steel (HSS), Add</i>	1.81	
05 12 23 00-0434	LF		2-1/2" x 2" x 1/4" Thick, Plain Steel Angle Iron.....	10.17	3.74
			<i>For >100 To 250, Deduct</i>	-0.37	
			<i>For >250 To 500, Deduct</i>	-0.63	
			<i>For >500 To 1,000, Deduct</i>	-1.01	
			<i>For >1,000, Deduct</i>	-1.39	
			<i>For 316 Stainless Steel, Add</i>	16.61	
			<i>For Aluminum, Add</i>	0.93	
			<i>For Galvanized Steel, Add</i>	3.22	
			<i>For 304 Stainless Steel, Add</i>	14.79	
			<i>For High Strength Steel (HSS), Add</i>	2.03	
05 12 23 00-0435	LF		2-1/2" x 2-1/2" x 1/4" Thick, Plain Steel Angle Iron.....	11.34	4.09
			<i>For >100 To 250, Deduct</i>	-0.41	
			<i>For >250 To 500, Deduct</i>	-0.69	
			<i>For >500 To 1,000, Deduct</i>	-1.11	
			<i>For >1,000, Deduct</i>	-1.53	
			<i>For 316 Stainless Steel, Add</i>	18.78	
			<i>For Aluminum, Add</i>	1.06	
			<i>For Galvanized Steel, Add</i>	3.64	
			<i>For 304 Stainless Steel, Add</i>	16.73	
			<i>For High Strength Steel (HSS), Add</i>	2.27	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0436	LF		3" x 2" x 1/4" Thick, Plain Steel Angle Iron.....	11.34	4.09
			<i>For >100 To 250, Deduct</i>	-0.41	
			<i>For >250 To 500, Deduct</i>	-0.69	
			<i>For >500 To 1,000, Deduct</i>	-1.11	
			<i>For >1,000, Deduct</i>	-1.53	
			<i>For 316 Stainless Steel, Add</i>	18.78	
			<i>For Aluminum, Add</i>	1.06	
			<i>For Galvanized Steel, Add</i>	3.64	
			<i>For 304 Stainless Steel, Add</i>	16.73	
			<i>For High Strength Steel (HSS), Add</i>	2.27	
05 12 23 00-0437	LF		3" x 2-1/2" x 1/4" Thick, Plain Steel Angle Iron.....	12.52	4.55
			<i>For >100 To 250, Deduct</i>	-0.45	
			<i>For >250 To 500, Deduct</i>	-0.77	
			<i>For >500 To 1,000, Deduct</i>	-1.23	
			<i>For >1,000, Deduct</i>	-1.70	
			<i>For 316 Stainless Steel, Add</i>	20.67	
			<i>For Aluminum, Add</i>	1.16	
			<i>For Galvanized Steel, Add</i>	4.01	
			<i>For 304 Stainless Steel, Add</i>	18.41	
			<i>For High Strength Steel (HSS), Add</i>	2.50	
05 12 23 00-0438	LF		3" x 3" x 1/4" Thick, Plain Steel Angle Iron.....	13.68	4.99
			<i>For >100 To 250, Deduct</i>	-0.50	
			<i>For >250 To 500, Deduct</i>	-0.84	
			<i>For >500 To 1,000, Deduct</i>	-1.35	
			<i>For >1,000, Deduct</i>	-1.86	
			<i>For 316 Stainless Steel, Add</i>	22.43	
			<i>For Aluminum, Add</i>	1.26	
			<i>For Galvanized Steel, Add</i>	4.35	
			<i>For 304 Stainless Steel, Add</i>	19.98	
			<i>For High Strength Steel (HSS), Add</i>	2.74	
05 12 23 00-0439	LF		3-1/2" x 3" x 1/4" Thick, Plain Steel Angle Iron.....	14.89	5.38
			<i>For >100 To 250, Deduct</i>	-0.54	
			<i>For >250 To 500, Deduct</i>	-0.91	
			<i>For >500 To 1,000, Deduct</i>	-1.46	
			<i>For >1,000, Deduct</i>	-2.01	
			<i>For 316 Stainless Steel, Add</i>	24.74	
			<i>For Aluminum, Add</i>	1.39	
			<i>For Galvanized Steel, Add</i>	4.79	
			<i>For 304 Stainless Steel, Add</i>	22.03	
			<i>For High Strength Steel (HSS), Add</i>	2.98	
05 12 23 00-0440	LF		3-1/2" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron	15.80	0.56
			<i>For >100 To 250, Deduct</i>	-0.56	
			<i>For >250 To 500, Deduct</i>	-0.96	
			<i>For >500 To 1,000, Deduct</i>	-1.54	
			<i>For >1,000, Deduct</i>	-2.12	
			<i>For 316 Stainless Steel, Add</i>	26.62	
			<i>For Aluminum, Add</i>	1.50	
			<i>For Galvanized Steel, Add</i>	5.16	
			<i>For 304 Stainless Steel, Add</i>	23.71	
			<i>For High Strength Steel (HSS), Add</i>	3.16	
05 12 23 00-0441	LF		4" x 3" x 1/4" Thick, Plain Steel Angle Iron.....	15.80	5.61
			<i>For >100 To 250, Deduct</i>	-0.56	
			<i>For >250 To 500, Deduct</i>	-0.96	
			<i>For >500 To 1,000, Deduct</i>	-1.54	
			<i>For >1,000, Deduct</i>	-2.12	
			<i>For 316 Stainless Steel, Add</i>	26.62	
			<i>For Aluminum, Add</i>	1.50	
			<i>For Galvanized Steel, Add</i>	5.16	
			<i>For 304 Stainless Steel, Add</i>	23.71	
			<i>For High Strength Steel (HSS), Add</i>	3.16	
05 12 23 00-0442	LF		4" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron.....	16.67	5.85
			<i>For >100 To 250, Deduct</i>	-0.59	
			<i>For >250 To 500, Deduct</i>	-1.00	
			<i>For >500 To 1,000, Deduct</i>	-1.61	
			<i>For >1,000, Deduct</i>	-2.23	
			<i>For 316 Stainless Steel, Add</i>	28.38	
			<i>For Aluminum, Add</i>	1.60	
			<i>For Galvanized Steel, Add</i>	5.50	
			<i>For 304 Stainless Steel, Add</i>	25.28	
			<i>For High Strength Steel (HSS), Add</i>	3.33	
05 12 23 00-0443	LF		4" x 4" x 1/4" Thick, Plain Steel Angle Iron.....	17.60	6.09
			<i>For >100 To 250, Deduct</i>	-0.61	
			<i>For >250 To 500, Deduct</i>	-1.05	
			<i>For >500 To 1,000, Deduct</i>	-1.69	
			<i>For >1,000, Deduct</i>	-2.34	
			<i>For 316 Stainless Steel, Add</i>	30.30	
			<i>For Aluminum, Add</i>	1.70	
			<i>For Galvanized Steel, Add</i>	5.87	
			<i>For 304 Stainless Steel, Add</i>	26.99	
			<i>For High Strength Steel (HSS), Add</i>	3.52	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0444	LF		5" x 3" x 1/4" Thick, Plain Steel Angle Iron.....	17.60	6.09
			<i>For >100 To 250, Deduct</i>	-0.61	
			<i>For >250 To 500, Deduct</i>	-1.05	
			<i>For >500 To 1,000, Deduct</i>	-1.69	
			<i>For >1,000, Deduct</i>	-2.34	
			<i>For 316 Stainless Steel, Add</i>	30.30	
			<i>For Aluminum, Add</i>	1.70	
			<i>For Galvanized Steel, Add</i>	5.87	
			<i>For 304 Stainless Steel, Add</i>	26.99	
			<i>For High Strength Steel (HSS), Add</i>	3.52	
05 12 23 00-0445	LF		5" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron.....	18.58	6.42
			<i>For >100 To 250, Deduct</i>	-0.64	
			<i>For >250 To 500, Deduct</i>	-1.11	
			<i>For >500 To 1,000, Deduct</i>	-1.79	
			<i>For >1,000, Deduct</i>	-2.46	
			<i>For 316 Stainless Steel, Add</i>	32.06	
			<i>For Aluminum, Add</i>	1.80	
			<i>For Galvanized Steel, Add</i>	6.21	
			<i>For 304 Stainless Steel, Add</i>	28.56	
			<i>For High Strength Steel (HSS), Add</i>	3.72	
05 12 23 00-0446			5/16" Thick <small>(05 12 23 00-0409)</small>		
05 12 23 00-0447	LF		2-1/2" x 2" x 5/16" Thick, Plain Steel Angle Iron.....	12.25	4.34
			<i>For >100 To 250, Deduct</i>	-0.43	
			<i>For >250 To 500, Deduct</i>	-0.74	
			<i>For >500 To 1,000, Deduct</i>	-1.19	
			<i>For >1,000, Deduct</i>	-1.64	
			<i>For 316 Stainless Steel, Add</i>	20.67	
			<i>For Aluminum, Add</i>	1.16	
			<i>For Galvanized Steel, Add</i>	4.01	
			<i>For 304 Stainless Steel, Add</i>	18.41	
			<i>For High Strength Steel (HSS), Add</i>	2.45	
05 12 23 00-0448	LF		2-1/2" x 2-1/2" x 5/16" Thick, Plain Steel Angle Iron.....	13.31	4.60
			<i>For >100 To 250, Deduct</i>	-0.46	
			<i>For >250 To 500, Deduct</i>	-0.79	
			<i>For >500 To 1,000, Deduct</i>	-1.28	
			<i>For >1,000, Deduct</i>	-1.77	
			<i>For 316 Stainless Steel, Add</i>	22.94	
			<i>For Aluminum, Add</i>	1.29	
			<i>For Galvanized Steel, Add</i>	4.45	
			<i>For 304 Stainless Steel, Add</i>	20.43	
			<i>For High Strength Steel (HSS), Add</i>	2.66	
05 12 23 00-0449	LF		3" x 2" x 5/16" Thick, Plain Steel Angle Iron.....	13.31	4.60
			<i>For >100 To 250, Deduct</i>	-0.46	
			<i>For >250 To 500, Deduct</i>	-0.79	
			<i>For >500 To 1,000, Deduct</i>	-1.28	
			<i>For >1,000, Deduct</i>	-1.77	
			<i>For 316 Stainless Steel, Add</i>	22.94	
			<i>For Aluminum, Add</i>	1.29	
			<i>For Galvanized Steel, Add</i>	4.45	
			<i>For 304 Stainless Steel, Add</i>	20.43	
			<i>For High Strength Steel (HSS), Add</i>	2.66	
05 12 23 00-0450	LF		3" x 2-1/2" x 5/16" Thick, Plain Steel Angle Iron.....	14.76	5.05
			<i>For >100 To 250, Deduct</i>	-0.50	
			<i>For >250 To 500, Deduct</i>	-0.87	
			<i>For >500 To 1,000, Deduct</i>	-1.41	
			<i>For >1,000, Deduct</i>	-1.95	
			<i>For 316 Stainless Steel, Add</i>	25.70	
			<i>For Aluminum, Add</i>	1.45	
			<i>For Galvanized Steel, Add</i>	4.98	
			<i>For 304 Stainless Steel, Add</i>	22.89	
			<i>For High Strength Steel (HSS), Add</i>	2.95	
05 12 23 00-0451	LF		3" x 3" x 5/16" Thick, Plain Steel Angle Iron.....	16.06	5.49
			<i>For >100 To 250, Deduct</i>	-0.55	
			<i>For >250 To 500, Deduct</i>	-0.95	
			<i>For >500 To 1,000, Deduct</i>	-1.53	
			<i>For >1,000, Deduct</i>	-2.12	
			<i>For 316 Stainless Steel, Add</i>	28.00	
			<i>For Aluminum, Add</i>	1.58	
			<i>For Galvanized Steel, Add</i>	5.43	
			<i>For 304 Stainless Steel, Add</i>	24.94	
			<i>For High Strength Steel (HSS), Add</i>	3.21	
05 12 23 00-0452	LF		3-1/2" x 3" x 5/16" Thick, Plain Steel Angle Iron.....	17.15	5.77
			<i>For >100 To 250, Deduct</i>	-0.58	
			<i>For >250 To 500, Deduct</i>	-1.00	
			<i>For >500 To 1,000, Deduct</i>	-1.63	
			<i>For >1,000, Deduct</i>	-2.25	
			<i>For 316 Stainless Steel, Add</i>	30.30	
			<i>For Aluminum, Add</i>	1.70	
			<i>For Galvanized Steel, Add</i>	5.87	
			<i>For 304 Stainless Steel, Add</i>	26.99	
			<i>For High Strength Steel (HSS), Add</i>	3.43	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0453	LF		3-1/2" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	18.37	6.05
			<i>For >100 To 250, Deduct</i>	-0.61	
			<i>For >250 To 500, Deduct</i>	-1.06	
			<i>For >500 To 1,000, Deduct</i>	-1.73	
			<i>For >1,000, Deduct</i>	-2.39	
			<i>For 316 Stainless Steel, Add</i>	32.96	
			<i>For Aluminum, Add</i>	1.85	
			<i>For Galvanized Steel, Add</i>	6.39	
			<i>For 304 Stainless Steel, Add</i>	29.36	
			<i>For High Strength Steel (HSS), Add</i>	3.67	
05 12 23 00-0454	LF		4" x 3" x 5/16" Thick, Plain Steel Angle Iron.....	18.37	6.05
			<i>For >100 To 250, Deduct</i>	-0.61	
			<i>For >250 To 500, Deduct</i>	-1.06	
			<i>For >500 To 1,000, Deduct</i>	-1.73	
			<i>For >1,000, Deduct</i>	-2.39	
			<i>For 316 Stainless Steel, Add</i>	32.96	
			<i>For Aluminum, Add</i>	1.85	
			<i>For Galvanized Steel, Add</i>	6.39	
			<i>For 304 Stainless Steel, Add</i>	29.36	
			<i>For High Strength Steel (HSS), Add</i>	3.67	
05 12 23 00-0455	LF		4" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron.....	19.55	6.39
			<i>For >100 To 250, Deduct</i>	-0.64	
			<i>For >250 To 500, Deduct</i>	-1.13	
			<i>For >500 To 1,000, Deduct</i>	-1.83	
			<i>For >1,000, Deduct</i>	-2.53	
			<i>For 316 Stainless Steel, Add</i>	35.26	
			<i>For Aluminum, Add</i>	1.98	
			<i>For Galvanized Steel, Add</i>	6.83	
			<i>For 304 Stainless Steel, Add</i>	31.41	
			<i>For High Strength Steel (HSS), Add</i>	3.91	
05 12 23 00-0456	LF		4" x 4" x 5/16" Thick, Plain Steel Angle Iron.....	20.67	6.68
			<i>For >100 To 250, Deduct</i>	-0.67	
			<i>For >250 To 500, Deduct</i>	-1.19	
			<i>For >500 To 1,000, Deduct</i>	-1.92	
			<i>For >1,000, Deduct</i>	-2.66	
			<i>For 316 Stainless Steel, Add</i>	37.63	
			<i>For Aluminum, Add</i>	2.12	
			<i>For Galvanized Steel, Add</i>	7.29	
			<i>For 304 Stainless Steel, Add</i>	33.52	
			<i>For High Strength Steel (HSS), Add</i>	4.13	
05 12 23 00-0457	LF		5" x 3" x 5/16" Thick, Plain Steel Angle Iron.....	20.67	6.68
			<i>For >100 To 250, Deduct</i>	-0.67	
			<i>For >250 To 500, Deduct</i>	-1.19	
			<i>For >500 To 1,000, Deduct</i>	-1.92	
			<i>For >1,000, Deduct</i>	-2.66	
			<i>For 316 Stainless Steel, Add</i>	37.63	
			<i>For Aluminum, Add</i>	2.12	
			<i>For Galvanized Steel, Add</i>	7.29	
			<i>For 304 Stainless Steel, Add</i>	33.52	
			<i>For High Strength Steel (HSS), Add</i>	4.13	
05 12 23 00-0458	LF		5" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron.....	21.73	6.96
			<i>For >100 To 250, Deduct</i>	-0.70	
			<i>For >250 To 500, Deduct</i>	-1.24	
			<i>For >500 To 1,000, Deduct</i>	-2.01	
			<i>For >1,000, Deduct</i>	-2.79	
			<i>For 316 Stainless Steel, Add</i>	39.84	
			<i>For Aluminum, Add</i>	2.24	
			<i>For Galvanized Steel, Add</i>	7.72	
			<i>For 304 Stainless Steel, Add</i>	35.48	
			<i>For High Strength Steel (HSS), Add</i>	4.35	
05 12 23 00-0459	LF		5" x 5" x 5/16" Thick, Plain Steel Angle Iron.....	24.45	7.25
			<i>For >100 To 250, Deduct</i>	-0.73	
			<i>For >250 To 500, Deduct</i>	-1.34	
			<i>For >500 To 1,000, Deduct</i>	-2.19	
			<i>For >1,000, Deduct</i>	-3.04	
			<i>For 316 Stainless Steel, Add</i>	47.30	
			<i>For Aluminum, Add</i>	2.66	
			<i>For Galvanized Steel, Add</i>	9.16	
			<i>For 304 Stainless Steel, Add</i>	42.12	
			<i>For High Strength Steel (HSS), Add</i>	4.89	
05 12 23 00-0460	LF		6" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron.....	24.10	7.55
			<i>For >100 To 250, Deduct</i>	-0.76	
			<i>For >250 To 500, Deduct</i>	-1.36	
			<i>For >500 To 1,000, Deduct</i>	-2.21	
			<i>For >1,000, Deduct</i>	-3.07	
			<i>For 316 Stainless Steel, Add</i>	44.86	
			<i>For Aluminum, Add</i>	2.52	
			<i>For Galvanized Steel, Add</i>	8.69	
			<i>For 304 Stainless Steel, Add</i>	39.96	
			<i>For High Strength Steel (HSS), Add</i>	4.82	

05 12 23 00-0461 3/8" Thick (05 12 23 00-0409)

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0462	LF		3" x 2" x 3/8" Thick, Plain Steel Angle Iron.....	14.86	4.82
			<i>For >100 To 250, Deduct</i>	-0.48	
			<i>For >250 To 500, Deduct</i>	-0.85	
			<i>For >500 To 1,000, Deduct</i>	-1.39	
			<i>For >1,000, Deduct</i>	-1.92	
			<i>For 316 Stainless Steel, Add</i>	27.01	
			<i>For Aluminum, Add</i>	1.52	
			<i>For Galvanized Steel, Add</i>	5.23	
			<i>For 304 Stainless Steel, Add</i>	24.05	
			<i>For High Strength Steel (HSS), Add</i>	2.97	
05 12 23 00-0463	LF		3" x 2-1/2" x 3/8" Thick, Plain Steel Angle Iron.....	16.43	5.22
			<i>For >100 To 250, Deduct</i>	-0.52	
			<i>For >250 To 500, Deduct</i>	-0.93	
			<i>For >500 To 1,000, Deduct</i>	-1.52	
			<i>For >1,000, Deduct</i>	-2.10	
			<i>For 316 Stainless Steel, Add</i>	30.30	
			<i>For Aluminum, Add</i>	1.70	
			<i>For Galvanized Steel, Add</i>	5.87	
			<i>For 304 Stainless Steel, Add</i>	26.99	
			<i>For High Strength Steel (HSS), Add</i>	3.29	
05 12 23 00-0464	LF		3" x 3" x 3/8" Thick, Plain Steel Angle Iron.....	17.79	5.62
			<i>For >100 To 250, Deduct</i>	-0.56	
			<i>For >250 To 500, Deduct</i>	-1.01	
			<i>For >500 To 1,000, Deduct</i>	-1.64	
			<i>For >1,000, Deduct</i>	-2.27	
			<i>For 316 Stainless Steel, Add</i>	32.96	
			<i>For Aluminum, Add</i>	1.85	
			<i>For Galvanized Steel, Add</i>	6.39	
			<i>For 304 Stainless Steel, Add</i>	29.36	
			<i>For High Strength Steel (HSS), Add</i>	3.56	
05 12 23 00-0465	LF		3-1/2" x 3" x 3/8" Thick, Plain Steel Angle Iron.....	19.03	5.78
			<i>For >100 To 250, Deduct</i>	-0.58	
			<i>For >250 To 500, Deduct</i>	-1.05	
			<i>For >500 To 1,000, Deduct</i>	-1.72	
			<i>For >1,000, Deduct</i>	-2.39	
			<i>For 316 Stainless Steel, Add</i>	36.26	
			<i>For Aluminum, Add</i>	2.04	
			<i>For Galvanized Steel, Add</i>	7.02	
			<i>For 304 Stainless Steel, Add</i>	32.29	
			<i>For High Strength Steel (HSS), Add</i>	3.81	
05 12 23 00-0466	LF		3-1/2" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron.....	20.28	6.09
			<i>For >100 To 250, Deduct</i>	-0.61	
			<i>For >250 To 500, Deduct</i>	-1.12	
			<i>For >500 To 1,000, Deduct</i>	-1.83	
			<i>For >1,000, Deduct</i>	-2.54	
			<i>For 316 Stainless Steel, Add</i>	38.91	
			<i>For Aluminum, Add</i>	2.19	
			<i>For Galvanized Steel, Add</i>	7.54	
			<i>For 304 Stainless Steel, Add</i>	34.66	
			<i>For High Strength Steel (HSS), Add</i>	4.06	
05 12 23 00-0467	LF		4" x 3" x 3/8" Thick, Plain Steel Angle Iron.....	20.28	6.09
			<i>For >100 To 250, Deduct</i>	-0.61	
			<i>For >250 To 500, Deduct</i>	-1.12	
			<i>For >500 To 1,000, Deduct</i>	-1.83	
			<i>For >1,000, Deduct</i>	-2.54	
			<i>For 316 Stainless Steel, Add</i>	38.91	
			<i>For Aluminum, Add</i>	2.19	
			<i>For Galvanized Steel, Add</i>	7.54	
			<i>For 304 Stainless Steel, Add</i>	34.66	
			<i>For High Strength Steel (HSS), Add</i>	4.06	
05 12 23 00-0468	LF		4" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron.....	21.87	6.64
			<i>For >100 To 250, Deduct</i>	-0.66	
			<i>For >250 To 500, Deduct</i>	-1.21	
			<i>For >500 To 1,000, Deduct</i>	-1.98	
			<i>For >1,000, Deduct</i>	-2.75	
			<i>For 316 Stainless Steel, Add</i>	41.66	
			<i>For Aluminum, Add</i>	2.34	
			<i>For Galvanized Steel, Add</i>	8.07	
			<i>For 304 Stainless Steel, Add</i>	37.11	
			<i>For High Strength Steel (HSS), Add</i>	4.37	
05 12 23 00-0469	LF		4" x 4" x 3/8" Thick, Plain Steel Angle Iron.....	23.13	6.83
			<i>For >100 To 250, Deduct</i>	-0.68	
			<i>For >250 To 500, Deduct</i>	-1.26	
			<i>For >500 To 1,000, Deduct</i>	-2.07	
			<i>For >1,000, Deduct</i>	-2.87	
			<i>For 316 Stainless Steel, Add</i>	44.86	
			<i>For Aluminum, Add</i>	2.52	
			<i>For Galvanized Steel, Add</i>	8.69	
			<i>For 304 Stainless Steel, Add</i>	39.96	
			<i>For High Strength Steel (HSS), Add</i>	4.63	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0470	LF		5" x 3" x 3/8" Thick, Plain Steel Angle Iron.....	23.49	7.10
			<i>For >100 To 250, Deduct</i>	-0.71	
			<i>For >250 To 500, Deduct</i>	-1.30	
			<i>For >500 To 1,000, Deduct</i>	-2.12	
			<i>For >1,000, Deduct</i>	-2.95	
			<i>For 316 Stainless Steel, Add</i>	44.86	
			<i>For Aluminum, Add</i>	2.52	
			<i>For Galvanized Steel, Add</i>	8.69	
			<i>For 304 Stainless Steel, Add</i>	39.96	
			<i>For High Strength Steel (HSS), Add</i>	4.70	
05 12 23 00-0471	LF		5" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron.....	25.09	7.65
			<i>For >100 To 250, Deduct</i>	-0.77	
			<i>For >250 To 500, Deduct</i>	-1.39	
			<i>For >500 To 1,000, Deduct</i>	-2.28	
			<i>For >1,000, Deduct</i>	-3.16	
			<i>For 316 Stainless Steel, Add</i>	47.62	
			<i>For Aluminum, Add</i>	2.68	
			<i>For Galvanized Steel, Add</i>	9.23	
			<i>For 304 Stainless Steel, Add</i>	42.41	
			<i>For High Strength Steel (HSS), Add</i>	5.02	
05 12 23 00-0472	LF		5" x 5" x 3/8" Thick, Plain Steel Angle Iron.....	29.54	8.92
			<i>For >100 To 250, Deduct</i>	-0.89	
			<i>For >250 To 500, Deduct</i>	-1.63	
			<i>For >500 To 1,000, Deduct</i>	-2.67	
			<i>For >1,000, Deduct</i>	-3.70	
			<i>For 316 Stainless Steel, Add</i>	56.48	
			<i>For Aluminum, Add</i>	3.18	
			<i>For Galvanized Steel, Add</i>	10.94	
			<i>For 304 Stainless Steel, Add</i>	50.30	
			<i>For High Strength Steel (HSS), Add</i>	5.91	
05 12 23 00-0473	LF		6" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron.....	27.79	8.29
			<i>For >100 To 250, Deduct</i>	-0.83	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500 To 1,000, Deduct</i>	-2.49	
			<i>For >1,000, Deduct</i>	-3.47	
			<i>For 316 Stainless Steel, Add</i>	53.57	
			<i>For Aluminum, Add</i>	3.01	
			<i>For Galvanized Steel, Add</i>	10.38	
			<i>For 304 Stainless Steel, Add</i>	47.71	
			<i>For High Strength Steel (HSS), Add</i>	5.56	
05 12 23 00-0474	LF		6" x 4" x 3/8" Thick, Plain Steel Angle Iron.....	29.54	8.92
			<i>For >100 To 250, Deduct</i>	-0.89	
			<i>For >250 To 500, Deduct</i>	-1.63	
			<i>For >500 To 1,000, Deduct</i>	-2.67	
			<i>For >1,000, Deduct</i>	-3.70	
			<i>For 316 Stainless Steel, Add</i>	56.48	
			<i>For Aluminum, Add</i>	3.18	
			<i>For Galvanized Steel, Add</i>	10.94	
			<i>For 304 Stainless Steel, Add</i>	50.30	
			<i>For High Strength Steel (HSS), Add</i>	5.91	
05 12 23 00-0475	LF		6" x 6" x 3/8" Thick, Plain Steel Angle Iron.....	35.65	10.71
			<i>For >100 To 250, Deduct</i>	-1.07	
			<i>For >250 To 500, Deduct</i>	-1.96	
			<i>For >500 To 1,000, Deduct</i>	-3.21	
			<i>For >1,000, Deduct</i>	-4.46	
			<i>For 316 Stainless Steel, Add</i>	68.42	
			<i>For Aluminum, Add</i>	3.85	
			<i>For Galvanized Steel, Add</i>	13.26	
			<i>For 304 Stainless Steel, Add</i>	60.93	
			<i>For High Strength Steel (HSS), Add</i>	7.13	
05 12 23 00-0476	LF		7" x 4" x 3/8" Thick, Plain Steel Angle Iron.....	32.60	9.81
			<i>For >100 To 250, Deduct</i>	-0.98	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500 To 1,000, Deduct</i>	-2.94	
			<i>For >1,000, Deduct</i>	-4.08	
			<i>For 316 Stainless Steel, Add</i>	62.43	
			<i>For Aluminum, Add</i>	3.51	
			<i>For Galvanized Steel, Add</i>	12.10	
			<i>For 304 Stainless Steel, Add</i>	55.60	
			<i>For High Strength Steel (HSS), Add</i>	6.52	
05 12 23 00-0477			1/2" Thick <small>(05 12 23 00-0409)</small>		
05 12 23 00-0478	LF		3" x 3" x 1/2" Thick, Plain Steel Angle Iron.....	21.14	5.74
			<i>For >100 To 250, Deduct</i>	-0.57	
			<i>For >250 To 500, Deduct</i>	-1.10	
			<i>For >500 To 1,000, Deduct</i>	-1.82	
			<i>For >1,000, Deduct</i>	-2.54	
			<i>For 316 Stainless Steel, Add</i>	43.17	
			<i>For Aluminum, Add</i>	2.43	
			<i>For Galvanized Steel, Add</i>	8.36	
			<i>For 304 Stainless Steel, Add</i>	38.45	
			<i>For High Strength Steel (HSS), Add</i>	4.23	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0479	LF		4" x 3" x 1/2" Thick, Plain Steel Angle Iron.....	24.97	6.79
			<i>For >100 To 250, Deduct</i>	-0.68	
			<i>For >250 To 500, Deduct</i>	-1.30	
			<i>For >500 To 1,000, Deduct</i>	-2.15	
			<i>For >1,000, Deduct</i>	-3.00	
			<i>For 316 Stainless Steel, Add</i>	50.94	
			<i>For Aluminum, Add</i>	2.87	
			<i>For Galvanized Steel, Add</i>	9.87	
			<i>For 304 Stainless Steel, Add</i>	45.37	
			<i>For High Strength Steel (HSS), Add</i>	4.99	
05 12 23 00-0480	LF		4" x 3-1/2" x 1/2" Thick, Plain Steel Angle Iron.....	26.76	7.27
			<i>For >100 To 250, Deduct</i>	-0.73	
			<i>For >250 To 500, Deduct</i>	-1.40	
			<i>For >500 To 1,000, Deduct</i>	-2.31	
			<i>For >1,000, Deduct</i>	-3.22	
			<i>For 316 Stainless Steel, Add</i>	54.62	
			<i>For Aluminum, Add</i>	3.07	
			<i>For Galvanized Steel, Add</i>	10.58	
			<i>For 304 Stainless Steel, Add</i>	48.65	
			<i>For High Strength Steel (HSS), Add</i>	5.35	
05 12 23 00-0481	LF		4" x 4" x 1/2" Thick, Plain Steel Angle Iron.....	28.79	7.83
			<i>For >100 To 250, Deduct</i>	-0.78	
			<i>For >250 To 500, Deduct</i>	-1.50	
			<i>For >500 To 1,000, Deduct</i>	-2.48	
			<i>For >1,000, Deduct</i>	-3.46	
			<i>For 316 Stainless Steel, Add</i>	58.75	
			<i>For Aluminum, Add</i>	3.30	
			<i>For Galvanized Steel, Add</i>	11.38	
			<i>For 304 Stainless Steel, Add</i>	52.33	
			<i>For High Strength Steel (HSS), Add</i>	5.76	
05 12 23 00-0482	LF		5" x 3" x 1/2" Thick, Plain Steel Angle Iron.....	28.79	7.83
			<i>For >100 To 250, Deduct</i>	-0.78	
			<i>For >250 To 500, Deduct</i>	-1.50	
			<i>For >500 To 1,000, Deduct</i>	-2.48	
			<i>For >1,000, Deduct</i>	-3.46	
			<i>For 316 Stainless Steel, Add</i>	58.75	
			<i>For Aluminum, Add</i>	3.30	
			<i>For Galvanized Steel, Add</i>	11.38	
			<i>For 304 Stainless Steel, Add</i>	52.33	
			<i>For High Strength Steel (HSS), Add</i>	5.76	
05 12 23 00-0483	LF		5" x 3-1/2" x 1/2" Thick, Plain Steel Angle Iron.....	30.58	8.31
			<i>For >100 To 250, Deduct</i>	-0.83	
			<i>For >250 To 500, Deduct</i>	-1.59	
			<i>For >500 To 1,000, Deduct</i>	-2.64	
			<i>For >1,000, Deduct</i>	-3.68	
			<i>For 316 Stainless Steel, Add</i>	62.43	
			<i>For Aluminum, Add</i>	3.51	
			<i>For Galvanized Steel, Add</i>	12.10	
			<i>For 304 Stainless Steel, Add</i>	55.60	
			<i>For High Strength Steel (HSS), Add</i>	6.12	
05 12 23 00-0484	LF		5" x 5" x 1/2" Thick, Plain Steel Angle Iron.....	36.44	9.89
			<i>For >100 To 250, Deduct</i>	-0.99	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500 To 1,000, Deduct</i>	-3.14	
			<i>For >1,000, Deduct</i>	-4.38	
			<i>For 316 Stainless Steel, Add</i>	74.37	
			<i>For Aluminum, Add</i>	4.18	
			<i>For Galvanized Steel, Add</i>	14.41	
			<i>For 304 Stainless Steel, Add</i>	66.23	
			<i>For High Strength Steel (HSS), Add</i>	7.29	
05 12 23 00-0485	LF		6" x 4" x 1/2" Thick, Plain Steel Angle Iron.....	36.44	9.89
			<i>For >100 To 250, Deduct</i>	-0.99	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500 To 1,000, Deduct</i>	-3.14	
			<i>For >1,000, Deduct</i>	-4.38	
			<i>For 316 Stainless Steel, Add</i>	74.37	
			<i>For Aluminum, Add</i>	4.18	
			<i>For Galvanized Steel, Add</i>	14.41	
			<i>For 304 Stainless Steel, Add</i>	66.23	
			<i>For High Strength Steel (HSS), Add</i>	7.29	
05 12 23 00-0486	LF		6" x 6" x 1/2" Thick, Plain Steel Angle Iron.....	44.07	11.97
			<i>For >100 To 250, Deduct</i>	-1.20	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500 To 1,000, Deduct</i>	-3.80	
			<i>For >1,000, Deduct</i>	-5.30	
			<i>For 316 Stainless Steel, Add</i>	89.95	
			<i>For Aluminum, Add</i>	5.06	
			<i>For Galvanized Steel, Add</i>	17.43	
			<i>For 304 Stainless Steel, Add</i>	80.11	
			<i>For High Strength Steel (HSS), Add</i>	8.81	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0487 LF 7" x 4" x 1/2" Thick, Plain Steel Angle Iron.....	40.25	10.93
For >100 To 250, Deduct	-1.09	
For >250 To 500, Deduct	-2.10	
For >500 To 1,000, Deduct	-3.47	
For >1,000, Deduct	-4.84	
For 316 Stainless Steel, Add	82.14	
For Aluminum, Add	4.62	
For Galvanized Steel, Add	15.92	
For 304 Stainless Steel, Add	73.16	
For High Strength Steel (HSS), Add	8.05	
05 12 23 00-0488 LF 8" x 4" x 1/2" Thick, Plain Steel Angle Iron.....	44.07	11.97
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-2.30	
For >500 To 1,000, Deduct	-3.80	
For >1,000, Deduct	-5.30	
For 316 Stainless Steel, Add	89.95	
For Aluminum, Add	5.06	
For Galvanized Steel, Add	17.43	
For 304 Stainless Steel, Add	80.11	
For High Strength Steel (HSS), Add	8.81	
05 12 23 00-0489 LF 8" x 6" x 1/2" Thick, Plain Steel Angle Iron.....	51.74	14.06
For >100 To 250, Deduct	-1.41	
For >250 To 500, Deduct	-2.70	
For >500 To 1,000, Deduct	-4.46	
For >1,000, Deduct	-6.22	
For 316 Stainless Steel, Add	105.60	
For Aluminum, Add	5.94	
For Galvanized Steel, Add	20.46	
For 304 Stainless Steel, Add	94.05	
For High Strength Steel (HSS), Add	10.35	
05 12 23 00-0490 LF 8" x 8" x 1/2" Thick, Plain Steel Angle Iron.....	59.38	16.13
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-3.10	
For >500 To 1,000, Deduct	-5.12	
For >1,000, Deduct	-7.14	
For 316 Stainless Steel, Add	121.18	
For Aluminum, Add	6.82	
For Galvanized Steel, Add	23.48	
For 304 Stainless Steel, Add	107.93	
For High Strength Steel (HSS), Add	11.88	
05 12 23 00-0491 5/8" Thick <small>(05 12 23 00-0499)</small>		
05 12 23 00-0492 LF 4" x 4" x 5/8" Thick, Plain Steel Angle Iron.....	34.47	8.97
For >100 To 250, Deduct	-0.90	
For >250 To 500, Deduct	-1.76	
For >500 To 1,000, Deduct	-2.92	
For >1,000, Deduct	-4.08	
For 316 Stainless Steel, Add	72.06	
For Aluminum, Add	4.05	
For Galvanized Steel, Add	13.96	
For High Strength Steel (HSS), Add	6.89	
05 12 23 00-0493 LF 5" x 3-1/2" x 5/8" Thick, Plain Steel Angle Iron.....	36.90	9.59
For >100 To 250, Deduct	-0.96	
For >250 To 500, Deduct	-1.88	
For >500 To 1,000, Deduct	-3.12	
For >1,000, Deduct	-4.37	
For 316 Stainless Steel, Add	77.15	
For Aluminum, Add	4.34	
For Galvanized Steel, Add	14.95	
For High Strength Steel (HSS), Add	7.38	
05 12 23 00-0494 LF 5" x 5" x 5/8" Thick, Plain Steel Angle Iron.....	43.92	11.42
For >100 To 250, Deduct	-1.14	
For >250 To 500, Deduct	-2.24	
For >500 To 1,000, Deduct	-3.72	
For >1,000, Deduct	-5.20	
For 316 Stainless Steel, Add	91.81	
For Aluminum, Add	5.16	
For Galvanized Steel, Add	17.79	
For High Strength Steel (HSS), Add	8.78	
05 12 23 00-0495 LF 6" x 4" x 5/8" Thick, Plain Steel Angle Iron.....	43.92	11.42
For >100 To 250, Deduct	-1.14	
For >250 To 500, Deduct	-2.24	
For >500 To 1,000, Deduct	-3.72	
For >1,000, Deduct	-5.20	
For 316 Stainless Steel, Add	91.81	
For Aluminum, Add	5.16	
For Galvanized Steel, Add	17.79	
For High Strength Steel (HSS), Add	8.78	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0496	LF		6" x 6" x 5/8" Thick, Plain Steel Angle Iron.....	53.15	13.82
			<i>For >100 To 250, Deduct</i>	-1.38	
			<i>For >250 To 500, Deduct</i>	-2.71	
			<i>For >500 To 1,000, Deduct</i>	-4.50	
			<i>For >1,000, Deduct</i>	-6.29	
			<i>For 316 Stainless Steel, Add</i>	111.10	
			<i>For Aluminum, Add</i>	6.25	
			<i>For Galvanized Steel, Add</i>	21.53	
			<i>For High Strength Steel (HSS), Add</i>	10.63	
05 12 23 00-0497	LF		7" x 4" x 5/8" Thick, Plain Steel Angle Iron.....	48.52	12.62
			<i>For >100 To 250, Deduct</i>	-1.26	
			<i>For >250 To 500, Deduct</i>	-2.47	
			<i>For >500 To 1,000, Deduct</i>	-4.11	
			<i>For >1,000, Deduct</i>	-5.74	
			<i>For 316 Stainless Steel, Add</i>	101.44	
			<i>For Aluminum, Add</i>	5.71	
			<i>For Galvanized Steel, Add</i>	19.65	
			<i>For High Strength Steel (HSS), Add</i>	9.70	
05 12 23 00-0498	LF		8" x 6" x 5/8" Thick, Plain Steel Angle Iron.....	62.58	16.28
			<i>For >100 To 250, Deduct</i>	-1.63	
			<i>For >250 To 500, Deduct</i>	-3.19	
			<i>For >500 To 1,000, Deduct</i>	-5.30	
			<i>For >1,000, Deduct</i>	-7.41	
			<i>For 316 Stainless Steel, Add</i>	130.82	
			<i>For Aluminum, Add</i>	7.36	
			<i>For Galvanized Steel, Add</i>	25.35	
			<i>For High Strength Steel (HSS), Add</i>	12.52	
05 12 23 00-0499	LF		8" x 8" x 5/8" Thick, Plain Steel Angle Iron.....	71.82	18.67
			<i>For >100 To 250, Deduct</i>	-1.87	
			<i>For >250 To 500, Deduct</i>	-3.66	
			<i>For >500 To 1,000, Deduct</i>	-6.08	
			<i>For >1,000, Deduct</i>	-8.50	
			<i>For 316 Stainless Steel, Add</i>	150.14	
			<i>For Aluminum, Add</i>	8.45	
			<i>For Galvanized Steel, Add</i>	29.09	
			<i>For High Strength Steel (HSS), Add</i>	14.36	
05 12 23 00-0500			3/4" Thick (05 12 23 00-0499)		
05 12 23 00-0501	LF		4" x 4" x 3/4" Thick, Plain Steel Angle Iron.....	39.76	9.90
			<i>For >100 To 250, Deduct</i>	-0.99	
			<i>For >250 To 500, Deduct</i>	-1.98	
			<i>For >500 To 1,000, Deduct</i>	-3.31	
			<i>For >1,000, Deduct</i>	-4.63	
			<i>For 316 Stainless Steel, Add</i>	84.96	
			<i>For Aluminum, Add</i>	4.78	
			<i>For Galvanized Steel, Add</i>	16.46	
			<i>For High Strength Steel (HSS), Add</i>	7.95	
05 12 23 00-0502	LF		5" x 3-1/2" x 3/4" Thick, Plain Steel Angle Iron.....	42.53	10.60
			<i>For >100 To 250, Deduct</i>	-1.06	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500 To 1,000, Deduct</i>	-3.54	
			<i>For >1,000, Deduct</i>	-4.96	
			<i>For 316 Stainless Steel, Add</i>	90.88	
			<i>For Aluminum, Add</i>	5.11	
			<i>For Galvanized Steel, Add</i>	17.61	
			<i>For High Strength Steel (HSS), Add</i>	8.51	
05 12 23 00-0503	LF		5" x 5" x 3/4" Thick, Plain Steel Angle Iron.....	50.70	12.64
			<i>For >100 To 250, Deduct</i>	-1.26	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500 To 1,000, Deduct</i>	-4.22	
			<i>For >1,000, Deduct</i>	-5.91	
			<i>For 316 Stainless Steel, Add</i>	108.35	
			<i>For Aluminum, Add</i>	6.09	
			<i>For Galvanized Steel, Add</i>	20.99	
			<i>For High Strength Steel (HSS), Add</i>	10.14	
05 12 23 00-0504	LF		6" x 4" x 3/4" Thick, Plain Steel Angle Iron.....	50.70	12.64
			<i>For >100 To 250, Deduct</i>	-1.26	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500 To 1,000, Deduct</i>	-4.22	
			<i>For >1,000, Deduct</i>	-5.91	
			<i>For 316 Stainless Steel, Add</i>	108.35	
			<i>For Aluminum, Add</i>	6.09	
			<i>For Galvanized Steel, Add</i>	20.99	
			<i>For High Strength Steel (HSS), Add</i>	10.14	
05 12 23 00-0505	LF		6" x 6" x 3/4" Thick, Plain Steel Angle Iron.....	61.66	15.36
			<i>For >100 To 250, Deduct</i>	-1.54	
			<i>For >250 To 500, Deduct</i>	-3.08	
			<i>For >500 To 1,000, Deduct</i>	-5.13	
			<i>For >1,000, Deduct</i>	-7.19	
			<i>For 316 Stainless Steel, Add</i>	131.74	
			<i>For Aluminum, Add</i>	7.41	
			<i>For Galvanized Steel, Add</i>	25.53	
			<i>For High Strength Steel (HSS), Add</i>	12.33	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0506 LF 7" x 4" x 3/4" Thick, Plain Steel Angle Iron.....	56.28	14.03
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-2.81	
For >500 To 1,000, Deduct	-4.68	
For >1,000, Deduct	-6.56	
For 316 Stainless Steel, Add	120.26	
For Aluminum, Add	6.76	
For Galvanized Steel, Add	23.30	
For High Strength Steel (HSS), Add	11.26	
05 12 23 00-0507 LF 8" x 4" x 3/4" Thick, Plain Steel Angle Iron.....	61.66	15.36
For >100 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-3.08	
For >500 To 1,000, Deduct	-5.13	
For >1,000, Deduct	-7.19	
For 316 Stainless Steel, Add	131.74	
For Aluminum, Add	7.41	
For Galvanized Steel, Add	25.53	
For High Strength Steel (HSS), Add	12.33	
05 12 23 00-0508 LF 8" x 6" x 3/4" Thick, Plain Steel Angle Iron.....	72.62	18.09
For >100 To 250, Deduct	-1.81	
For >250 To 500, Deduct	-3.62	
For >500 To 1,000, Deduct	-6.04	
For >1,000, Deduct	-8.46	
For 316 Stainless Steel, Add	155.20	
For Aluminum, Add	8.73	
For Galvanized Steel, Add	30.07	
For High Strength Steel (HSS), Add	14.52	
05 12 23 00-0509 LF 8" x 8" x 3/4" Thick, Plain Steel Angle Iron.....	83.58	20.83
For >100 To 250, Deduct	-2.08	
For >250 To 500, Deduct	-4.17	
For >500 To 1,000, Deduct	-6.96	
For >1,000, Deduct	-9.74	
For 316 Stainless Steel, Add	178.59	
For Aluminum, Add	10.05	
For Galvanized Steel, Add	34.60	
For High Strength Steel (HSS), Add	16.72	
05 12 23 00-0510 7/8" Thick <small>(05 12 23 00-0409)</small>		
05 12 23 00-0511 LF 5" x 5" x 7/8" Thick, Plain Steel Angle Iron.....	57.13	13.59
For >100 To 250, Deduct	-1.36	
For >250 To 500, Deduct	-2.79	
For >500 To 1,000, Deduct	-4.67	
For >1,000, Deduct	-6.55	
For 316 Stainless Steel, Add	124.83	
For Aluminum, Add	7.02	
For Galvanized Steel, Add	24.19	
For High Strength Steel (HSS), Add	11.43	
05 12 23 00-0512 LF 6" x 4" x 7/8" Thick, Plain Steel Angle Iron.....	57.13	13.59
For >100 To 250, Deduct	-1.36	
For >250 To 500, Deduct	-2.79	
For >500 To 1,000, Deduct	-4.67	
For >1,000, Deduct	-6.55	
For 316 Stainless Steel, Add	124.83	
For Aluminum, Add	7.02	
For Galvanized Steel, Add	24.19	
For High Strength Steel (HSS), Add	11.43	
05 12 23 00-0513 LF 6" x 6" x 7/8" Thick, Plain Steel Angle Iron.....	69.54	16.54
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-3.39	
For >500 To 1,000, Deduct	-5.68	
For >1,000, Deduct	-7.97	
For 316 Stainless Steel, Add	151.97	
For Aluminum, Add	8.55	
For Galvanized Steel, Add	29.44	
For High Strength Steel (HSS), Add	13.91	
05 12 23 00-0514 LF 8" x 6" x 7/8" Thick, Plain Steel Angle Iron.....	82.15	19.53
For >100 To 250, Deduct	-1.95	
For >250 To 500, Deduct	-4.01	
For >500 To 1,000, Deduct	-6.71	
For >1,000, Deduct	-9.42	
For 316 Stainless Steel, Add	179.52	
For Aluminum, Add	10.10	
For Galvanized Steel, Add	34.78	
For High Strength Steel (HSS), Add	16.43	
05 12 23 00-0515 LF 8" x 8" x 7/8" Thick, Plain Steel Angle Iron.....	94.52	22.49
For >100 To 250, Deduct	-2.25	
For >250 To 500, Deduct	-4.61	
For >500 To 1,000, Deduct	-7.72	
For >1,000, Deduct	-10.84	
For 316 Stainless Steel, Add	206.56	
For Aluminum, Add	11.62	
For Galvanized Steel, Add	40.02	
For High Strength Steel (HSS), Add	18.90	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing


 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0516			Bar Channel <small>(05 12 23 00-0408)</small>		
05 12 23 00-0517	LF		1" x 1/2" x 1/8" Thick Bar Channel .....4.56		
			For 316 Stainless Steel, Add	4.99	
			For Aluminum, Add	0.28	
			For Galvanized Steel, Add	0.97	
			For 304 Stainless Steel, Add	4.45	
			For High Strength Steel (HSS), Add	0.91	
05 12 23 00-0518	LF		1-1/4" x 1/2" x 1/8" Thick Bar Channel .....5.14		
			For 316 Stainless Steel, Add	5.98	
			For Aluminum, Add	0.34	
			For Galvanized Steel, Add	1.16	
			For 304 Stainless Steel, Add	5.33	
			For High Strength Steel (HSS), Add	1.03	
05 12 23 00-0519	LF		1-1/2" x 1/2" x 1/8" Thick Bar Channel .....5.60		
			For 316 Stainless Steel, Add	6.62	
			For Aluminum, Add	0.37	
			For Galvanized Steel, Add	1.28	
			For 304 Stainless Steel, Add	5.90	
			For High Strength Steel (HSS), Add	1.12	
05 12 23 00-0520	LF		1-1/2" x 3/4" x 1/8" Thick Bar Channel .....6.39		
			For 316 Stainless Steel, Add	6.91	
			For Aluminum, Add	0.39	
			For Galvanized Steel, Add	1.34	
			For 304 Stainless Steel, Add	6.16	
			For High Strength Steel (HSS), Add	1.28	
05 12 23 00-0521	LF		2" x 1/2" x 1/8" Thick Bar Channel .....6.87		
			For 316 Stainless Steel, Add	8.45	
			For Aluminum, Add	0.48	
			For Galvanized Steel, Add	1.64	
			For 304 Stainless Steel, Add	7.52	
05 12 23 00-0522	LF		2" x 1" x 1/8" Thick Bar Channel .....8.98		
			For 316 Stainless Steel, Add	9.44	
			For Aluminum, Add	0.53	
			For Galvanized Steel, Add	1.83	
			For 304 Stainless Steel, Add	8.41	
05 12 23 00-0523			Channels - C <small>(05 12 23 00-0408)</small>		
05 12 23 00-0524	LF		C2 x 1.78 - 2" Wide Channel .....7.47		3.72
			For >100 To 250, Deduct	-0.37	
			For >250 To 500, Deduct	-0.56	
			For >500 To 1,000, Deduct	-0.87	
			For >1,000, Deduct	-1.18	
			For 316 Stainless Steel, Add	8.03	
			For Aluminum, Add	0.45	
			For Galvanized Steel, Add	1.56	
			For 304 Stainless Steel, Add	7.15	
05 12 23 00-0525	LF		C3 x 4.1 - 3" Wide Channel .....13.02		5.35
			For >100 To 250, Deduct	-0.54	
			For >250 To 500, Deduct	-0.86	
			For >500 To 1,000, Deduct	-1.37	
			For >1,000, Deduct	-1.87	
			For 316 Stainless Steel, Add	18.82	
			For Aluminum, Add	1.06	
			For Galvanized Steel, Add	3.65	
			For 304 Stainless Steel, Add	16.76	
05 12 23 00-0526	LF		C3 x 5 - 3" Wide Channel .....15.87		6.53
			For >100 To 250, Deduct	-0.65	
			For >250 To 500, Deduct	-1.05	
			For >500 To 1,000, Deduct	-1.66	
			For >1,000, Deduct	-2.28	
			For 316 Stainless Steel, Add	22.94	
			For Aluminum, Add	1.29	
			For Galvanized Steel, Add	4.45	
			For 304 Stainless Steel, Add	20.43	
05 12 23 00-0527	LF		C3 x 6 - 3" Wide Channel .....19.06		7.84
			For >100 To 250, Deduct	-0.78	
			For >250 To 500, Deduct	-1.26	
			For >500 To 1,000, Deduct	-2.00	
			For >1,000, Deduct	-2.74	
			For 316 Stainless Steel, Add	27.55	
			For Aluminum, Add	1.55	
			For Galvanized Steel, Add	5.34	
			For 304 Stainless Steel, Add	24.54	
05 12 23 00-0528	LF		C4 x 5.4 - 4" Wide Channel .....16.31		6.42
			For >100 To 250, Deduct	-0.64	
			For >250 To 500, Deduct	-1.05	
			For >500 To 1,000, Deduct	-1.67	
			For >1,000, Deduct	-2.29	
			For 316 Stainless Steel, Add	24.80	
			For Aluminum, Add	1.40	
			For Galvanized Steel, Add	4.81	
			For 304 Stainless Steel, Add	22.09	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0529	LF		C4 x 7.25 - 4" Wide Channel.....	21.90	8.62
			<i>For >100 To 250, Deduct</i>	-0.86	
			<i>For >250 To 500, Deduct</i>	-1.41	
			<i>For >500 To 1,000, Deduct</i>	-2.25	
			<i>For >1,000, Deduct</i>	-3.08	
			<i>For 316 Stainless Steel, Add</i>	33.28	
			<i>For Aluminum, Add</i>	1.87	
			<i>For Galvanized Steel, Add</i>	6.45	
			<i>For 304 Stainless Steel, Add</i>	29.64	
05 12 23 00-0530	LF		C5 x 6.7 - 5" Wide Channel.....	19.60	7.49
			<i>For >100 To 250, Deduct</i>	-0.75	
			<i>For >250 To 500, Deduct</i>	-1.24	
			<i>For >500 To 1,000, Deduct</i>	-1.98	
			<i>For >1,000, Deduct</i>	-2.72	
			<i>For 316 Stainless Steel, Add</i>	30.75	
			<i>For Aluminum, Add</i>	1.73	
			<i>For Galvanized Steel, Add</i>	5.96	
			<i>For 304 Stainless Steel, Add</i>	27.39	
05 12 23 00-0531	LF		C5 x 9 - 5" Wide Channel.....	26.33	10.06
			<i>For >100 To 250, Deduct</i>	-1.01	
			<i>For >250 To 500, Deduct</i>	-1.66	
			<i>For >500 To 1,000, Deduct</i>	-2.66	
			<i>For >1,000, Deduct</i>	-3.65	
			<i>For 316 Stainless Steel, Add</i>	41.31	
			<i>For Aluminum, Add</i>	2.32	
			<i>For Galvanized Steel, Add</i>	8.00	
			<i>For 304 Stainless Steel, Add</i>	36.79	
05 12 23 00-0532	LF		C6 x 8.2 - 6" Wide Channel.....	23.75	9.00
			<i>For >100 To 250, Deduct</i>	-0.90	
			<i>For >250 To 500, Deduct</i>	-1.49	
			<i>For >500 To 1,000, Deduct</i>	-2.39	
			<i>For >1,000, Deduct</i>	-3.28	
			<i>For 316 Stainless Steel, Add</i>	37.63	
			<i>For Aluminum, Add</i>	2.12	
			<i>For Galvanized Steel, Add</i>	7.29	
			<i>For 304 Stainless Steel, Add</i>	33.52	
05 12 23 00-0533	LF		C6 x 10.5 - 6" Wide Channel.....	30.41	11.52
			<i>For >100 To 250, Deduct</i>	-1.15	
			<i>For >250 To 500, Deduct</i>	-1.91	
			<i>For >500 To 1,000, Deduct</i>	-3.06	
			<i>For >1,000, Deduct</i>	-4.20	
			<i>For 316 Stainless Steel, Add</i>	48.19	
			<i>For Aluminum, Add</i>	2.71	
			<i>For Galvanized Steel, Add</i>	9.34	
			<i>For 304 Stainless Steel, Add</i>	42.92	
05 12 23 00-0534	LF		C6 x 13 - 6" Wide Channel.....	37.66	14.26
			<i>For >100 To 250, Deduct</i>	-1.43	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500 To 1,000, Deduct</i>	-3.78	
			<i>For >1,000, Deduct</i>	-5.20	
			<i>For 316 Stainless Steel, Add</i>	59.68	
			<i>For Aluminum, Add</i>	3.36	
			<i>For Galvanized Steel, Add</i>	11.56	
			<i>For 304 Stainless Steel, Add</i>	53.15	
05 12 23 00-0535	LF		C7 x 9.8 - 7" Wide Channel.....	28.34	10.71
			<i>For >100 To 250, Deduct</i>	-1.07	
			<i>For >250 To 500, Deduct</i>	-1.78	
			<i>For >500 To 1,000, Deduct</i>	-2.85	
			<i>For >1,000, Deduct</i>	-3.91	
			<i>For 316 Stainless Steel, Add</i>	44.99	
			<i>For Aluminum, Add</i>	2.53	
			<i>For Galvanized Steel, Add</i>	8.72	
			<i>For 304 Stainless Steel, Add</i>	40.07	
05 12 23 00-0536	LF		C7 x 12.25 - 7" Wide Channel.....	35.41	13.38
			<i>For >100 To 250, Deduct</i>	-1.34	
			<i>For >250 To 500, Deduct</i>	-2.22	
			<i>For >500 To 1,000, Deduct</i>	-3.55	
			<i>For >1,000, Deduct</i>	-4.89	
			<i>For 316 Stainless Steel, Add</i>	56.22	
			<i>For Aluminum, Add</i>	3.16	
			<i>For Galvanized Steel, Add</i>	10.89	
			<i>For 304 Stainless Steel, Add</i>	50.07	
05 12 23 00-0537	LF		C7 x 14.75 - 7" Wide Channel.....	42.65	16.12
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-2.68	
			<i>For >500 To 1,000, Deduct</i>	-4.28	
			<i>For >1,000, Deduct</i>	-5.89	
			<i>For 316 Stainless Steel, Add</i>	67.71	
			<i>For Aluminum, Add</i>	3.81	
			<i>For Galvanized Steel, Add</i>	13.12	
			<i>For 304 Stainless Steel, Add</i>	60.31	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0538	LF		C8 x 11.5 - 8" Wide Channel.....	32.20	11.78
			<i>For >100 To 250, Deduct</i>	-1.18	
			<i>For >250 To 500, Deduct</i>	-1.98	
			<i>For >500 To 1,000, Deduct</i>	-3.18	
			<i>For >1,000, Deduct</i>	-4.38	
			<i>For 316 Stainless Steel, Add</i>	52.80	
			<i>For Aluminum, Add</i>	2.97	
			<i>For Galvanized Steel, Add</i>	10.23	
			<i>For 304 Stainless Steel, Add</i>	47.03	
05 12 23 00-0539	LF		C8 x 13.75 - 8" Wide Channel.....	38.50	14.09
			<i>For >100 To 250, Deduct</i>	-1.41	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500 To 1,000, Deduct</i>	-3.80	
			<i>For >1,000, Deduct</i>	-5.24	
			<i>For 316 Stainless Steel, Add</i>	63.10	
			<i>For Aluminum, Add</i>	3.55	
			<i>For Galvanized Steel, Add</i>	12.23	
			<i>For 304 Stainless Steel, Add</i>	56.20	
05 12 23 00-0540	LF		C8 x 18.75 - 8" Wide Channel.....	52.49	19.20
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-3.23	
			<i>For >500 To 1,000, Deduct</i>	-5.18	
			<i>For >1,000, Deduct</i>	-7.14	
			<i>For 316 Stainless Steel, Add</i>	86.05	
			<i>For Aluminum, Add</i>	4.84	
			<i>For Galvanized Steel, Add</i>	16.67	
			<i>For 304 Stainless Steel, Add</i>	76.64	
05 12 23 00-0541	LF		C9 x 13.4 - 9" Wide Channel.....	37.52	13.73
			<i>For >100 To 250, Deduct</i>	-1.37	
			<i>For >250 To 500, Deduct</i>	-2.31	
			<i>For >500 To 1,000, Deduct</i>	-3.71	
			<i>For >1,000, Deduct</i>	-5.10	
			<i>For 316 Stainless Steel, Add</i>	61.50	
			<i>For Aluminum, Add</i>	3.46	
			<i>For Galvanized Steel, Add</i>	11.92	
			<i>For 304 Stainless Steel, Add</i>	54.78	
05 12 23 00-0542	LF		C9 x 15 - 9" Wide Channel.....	42.00	15.36
			<i>For >100 To 250, Deduct</i>	-1.54	
			<i>For >250 To 500, Deduct</i>	-2.59	
			<i>For >500 To 1,000, Deduct</i>	-4.15	
			<i>For >1,000, Deduct</i>	-5.71	
			<i>For 316 Stainless Steel, Add</i>	68.86	
			<i>For Aluminum, Add</i>	3.87	
			<i>For Galvanized Steel, Add</i>	13.34	
			<i>For 304 Stainless Steel, Add</i>	61.33	
05 12 23 00-0543	LF		C9 x 20 - 9" Wide Channel.....	56.00	20.48
			<i>For >100 To 250, Deduct</i>	-2.05	
			<i>For >250 To 500, Deduct</i>	-3.45	
			<i>For >500 To 1,000, Deduct</i>	-5.53	
			<i>For >1,000, Deduct</i>	-7.61	
			<i>For 316 Stainless Steel, Add</i>	91.81	
			<i>For Aluminum, Add</i>	5.16	
			<i>For Galvanized Steel, Add</i>	17.79	
			<i>For 304 Stainless Steel, Add</i>	81.77	
05 12 23 00-0544	LF		C10 x 15.3 - 10" Wide Channel.....	42.84	15.66
			<i>For >100 To 250, Deduct</i>	-1.57	
			<i>For >250 To 500, Deduct</i>	-2.64	
			<i>For >500 To 1,000, Deduct</i>	-4.23	
			<i>For >1,000, Deduct</i>	-5.62	
			<i>For 316 Stainless Steel, Add</i>	70.24	
			<i>For Aluminum, Add</i>	3.95	
			<i>For Galvanized Steel, Add</i>	13.61	
			<i>For 304 Stainless Steel, Add</i>	62.56	
05 12 23 00-0545	LF		C10 x 20 - 10" Wide Channel.....	56.00	20.48
			<i>For >100 To 250, Deduct</i>	-2.05	
			<i>For >250 To 500, Deduct</i>	-3.45	
			<i>For >500 To 1,000, Deduct</i>	-5.53	
			<i>For >1,000, Deduct</i>	-7.61	
			<i>For 316 Stainless Steel, Add</i>	91.81	
			<i>For Aluminum, Add</i>	5.16	
			<i>For Galvanized Steel, Add</i>	17.79	
			<i>For 304 Stainless Steel, Add</i>	81.77	
05 12 23 00-0546	LF		C10 x 25 - 10" Wide Channel.....	70.00	25.60
			<i>For >100 To 250, Deduct</i>	-2.56	
			<i>For >250 To 500, Deduct</i>	-4.31	
			<i>For >500 To 1,000, Deduct</i>	-6.91	
			<i>For >1,000, Deduct</i>	-9.52	
			<i>For 316 Stainless Steel, Add</i>	114.75	
			<i>For Aluminum, Add</i>	6.45	
			<i>For Galvanized Steel, Add</i>	22.23	
			<i>For 304 Stainless Steel, Add</i>	102.20	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0547	LF		C10 x 30 - 10" Wide Channel.....	83.99	30.72
			<i>For >100 To 250, Deduct</i>	-3.07	
			<i>For >250 To 500, Deduct</i>	-5.17	
			<i>For >500 To 1,000, Deduct</i>	-8.30	
			<i>For >1,000, Deduct</i>	-11.42	
			<i>For 316 Stainless Steel, Add</i>	137.70	
			<i>For Aluminum, Add</i>	7.75	
			<i>For Galvanized Steel, Add</i>	26.68	
			<i>For 304 Stainless Steel, Add</i>	122.64	
05 12 23 00-0548	LF		C12 x 20.7 - 12" Wide Channel.....	57.96	21.20
			<i>For >100 To 250, Deduct</i>	-2.12	
			<i>For >250 To 500, Deduct</i>	-3.57	
			<i>For >500 To 1,000, Deduct</i>	-5.73	
			<i>For >1,000, Deduct</i>	-7.88	
			<i>For 316 Stainless Steel, Add</i>	95.01	
			<i>For Aluminum, Add</i>	5.34	
			<i>For Galvanized Steel, Add</i>	18.41	
			<i>For 304 Stainless Steel, Add</i>	84.62	
05 12 23 00-0549	LF		C12 x 25 - 12" Wide Channel.....	70.00	25.60
			<i>For >100 To 250, Deduct</i>	-2.56	
			<i>For >250 To 500, Deduct</i>	-4.31	
			<i>For >500 To 1,000, Deduct</i>	-6.91	
			<i>For >1,000, Deduct</i>	-9.52	
			<i>For 316 Stainless Steel, Add</i>	114.75	
			<i>For Aluminum, Add</i>	6.45	
			<i>For Galvanized Steel, Add</i>	22.23	
			<i>For 304 Stainless Steel, Add</i>	102.20	
05 12 23 00-0550	LF		C12 x 30 - 12" Wide Channel.....	83.99	30.72
			<i>For >100 To 250, Deduct</i>	-3.07	
			<i>For >250 To 500, Deduct</i>	-5.17	
			<i>For >500 To 1,000, Deduct</i>	-8.30	
			<i>For >1,000, Deduct</i>	-11.42	
			<i>For 316 Stainless Steel, Add</i>	137.70	
			<i>For Aluminum, Add</i>	7.75	
			<i>For Galvanized Steel, Add</i>	26.68	
			<i>For 304 Stainless Steel, Add</i>	122.64	
05 12 23 00-0551	LF		C15 x 33.9 - 15" Wide Channel.....	94.92	34.71
			<i>For >100 To 250, Deduct</i>	-3.47	
			<i>For >250 To 500, Deduct</i>	-5.84	
			<i>For >500 To 1,000, Deduct</i>	-9.38	
			<i>For >1,000, Deduct</i>	-12.91	
			<i>For 316 Stainless Steel, Add</i>	155.62	
			<i>For Aluminum, Add</i>	8.75	
			<i>For Galvanized Steel, Add</i>	30.15	
			<i>For 304 Stainless Steel, Add</i>	138.60	
05 12 23 00-0552	LF		C15 x 40 - 15" Wide Channel.....	112.00	40.96
			<i>For >100 To 250, Deduct</i>	-4.10	
			<i>For >250 To 500, Deduct</i>	-6.90	
			<i>For >500 To 1,000, Deduct</i>	-11.06	
			<i>For >1,000, Deduct</i>	-15.23	
			<i>For 316 Stainless Steel, Add</i>	183.62	
			<i>For Aluminum, Add</i>	10.33	
			<i>For Galvanized Steel, Add</i>	35.58	
			<i>For 304 Stainless Steel, Add</i>	163.53	
05 12 23 00-0553	LF		C15 x 50 - 15" Wide Channel.....	140.00	51.20
			<i>For >100 To 250, Deduct</i>	-5.12	
			<i>For >250 To 500, Deduct</i>	-8.62	
			<i>For >500 To 1,000, Deduct</i>	-13.83	
			<i>For >1,000, Deduct</i>	-19.04	
			<i>For 316 Stainless Steel, Add</i>	229.50	
			<i>For Aluminum, Add</i>	12.91	
			<i>For Galvanized Steel, Add</i>	44.47	
			<i>For 304 Stainless Steel, Add</i>	204.40	
05 12 23 00-0554			Miscellaneous Channels - MC <small>(05 12 23 00-0408)</small>		
05 12 23 00-0555	LF		MC6 x 12 - 6" Wide Channel.....	34.76	13.16
			<i>For >100 To 250, Deduct</i>	-1.32	
			<i>For >250 To 500, Deduct</i>	-2.19	
			<i>For >500 To 1,000, Deduct</i>	-3.49	
			<i>For >1,000, Deduct</i>	-4.80	
			<i>For 316 Stainless Steel, Add</i>	55.07	
			<i>For Aluminum, Add</i>	3.10	
			<i>For Galvanized Steel, Add</i>	10.67	
			<i>For 304 Stainless Steel, Add</i>	49.05	
05 12 23 00-0556	LF		MC6 x 15.1 - 6" Wide Channel.....	43.74	16.56
			<i>For >100 To 250, Deduct</i>	-1.66	
			<i>For >250 To 500, Deduct</i>	-2.75	
			<i>For >500 To 1,000, Deduct</i>	-4.40	
			<i>For >1,000, Deduct</i>	-6.04	
			<i>For 316 Stainless Steel, Add</i>	69.31	
			<i>For Aluminum, Add</i>	3.90	
			<i>For Galvanized Steel, Add</i>	13.43	
			<i>For 304 Stainless Steel, Add</i>	61.73	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0557	LF		MC6 x 15.3 - 6" Wide Channel.....	44.33	16.78
			<i>For >100 To 250, Deduct</i>	-1.68	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500 To 1,000, Deduct</i>	-4.45	
			<i>For >1,000, Deduct</i>	-6.12	
			<i>For 316 Stainless Steel, Add</i>	70.24	
			<i>For Aluminum, Add</i>	3.95	
			<i>For Galvanized Steel, Add</i>	13.61	
			<i>For 304 Stainless Steel, Add</i>	62.56	
05 12 23 00-0558	LF		MC6 x 16.3 - 6" Wide Channel.....	47.22	17.87
			<i>For >100 To 250, Deduct</i>	-1.79	
			<i>For >250 To 500, Deduct</i>	-2.97	
			<i>For >500 To 1,000, Deduct</i>	-4.75	
			<i>For >1,000, Deduct</i>	-6.52	
			<i>For 316 Stainless Steel, Add</i>	74.82	
			<i>For Aluminum, Add</i>	4.21	
			<i>For Galvanized Steel, Add</i>	14.50	
			<i>For 304 Stainless Steel, Add</i>	66.63	
05 12 23 00-0559	LF		MC6 x 18 - 6" Wide Channel.....	52.14	19.74
			<i>For >100 To 250, Deduct</i>	-1.97	
			<i>For >250 To 500, Deduct</i>	-3.28	
			<i>For >500 To 1,000, Deduct</i>	-5.24	
			<i>For >1,000, Deduct</i>	-7.20	
			<i>For 316 Stainless Steel, Add</i>	82.62	
			<i>For Aluminum, Add</i>	4.65	
			<i>For Galvanized Steel, Add</i>	16.01	
			<i>For 304 Stainless Steel, Add</i>	73.59	
05 12 23 00-0560	LF		MC7 x 17.6 - 7" Wide Channel.....	50.89	19.23
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-3.20	
			<i>For >500 To 1,000, Deduct</i>	-5.11	
			<i>For >1,000, Deduct</i>	-7.02	
			<i>For 316 Stainless Steel, Add</i>	80.80	
			<i>For Aluminum, Add</i>	4.55	
			<i>For Galvanized Steel, Add</i>	15.66	
			<i>For 304 Stainless Steel, Add</i>	71.96	
05 12 23 00-0561	LF		MC7 x 19.1 - 7" Wide Channel.....	55.23	20.87
			<i>For >100 To 250, Deduct</i>	-2.09	
			<i>For >250 To 500, Deduct</i>	-3.47	
			<i>For >500 To 1,000, Deduct</i>	-5.54	
			<i>For >1,000, Deduct</i>	-7.62	
			<i>For 316 Stainless Steel, Add</i>	87.68	
			<i>For Aluminum, Add</i>	4.93	
			<i>For Galvanized Steel, Add</i>	16.99	
			<i>For 304 Stainless Steel, Add</i>	78.09	
05 12 23 00-0562	LF		MC7 x 22.7 - 7" Wide Channel.....	65.63	24.80
			<i>For >100 To 250, Deduct</i>	-2.48	
			<i>For >250 To 500, Deduct</i>	-4.12	
			<i>For >500 To 1,000, Deduct</i>	-6.59	
			<i>For >1,000, Deduct</i>	-9.06	
			<i>For 316 Stainless Steel, Add</i>	104.19	
			<i>For Aluminum, Add</i>	5.86	
			<i>For Galvanized Steel, Add</i>	20.19	
			<i>For 304 Stainless Steel, Add</i>	92.80	
05 12 23 00-0563	LF		MC8 x 8.5 - 8" Wide Channel.....	23.80	8.70
			<i>For >100 To 250, Deduct</i>	-0.87	
			<i>For >250 To 500, Deduct</i>	-1.47	
			<i>For >500 To 1,000, Deduct</i>	-2.35	
			<i>For >1,000, Deduct</i>	-3.24	
			<i>For 316 Stainless Steel, Add</i>	39.01	
			<i>For Aluminum, Add</i>	2.19	
			<i>For Galvanized Steel, Add</i>	7.56	
			<i>For 304 Stainless Steel, Add</i>	34.74	
05 12 23 00-0564	LF		MC8 x 18.7 - 8" Wide Channel.....	52.36	19.15
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-3.22	
			<i>For >500 To 1,000, Deduct</i>	-5.17	
			<i>For >1,000, Deduct</i>	-7.12	
			<i>For 316 Stainless Steel, Add</i>	85.82	
			<i>For Aluminum, Add</i>	4.83	
			<i>For Galvanized Steel, Add</i>	16.63	
			<i>For 304 Stainless Steel, Add</i>	76.44	
05 12 23 00-0565	LF		MC8 x 20 - 8" Wide Channel.....	56.00	20.48
			<i>For >100 To 250, Deduct</i>	-2.05	
			<i>For >250 To 500, Deduct</i>	-3.45	
			<i>For >500 To 1,000, Deduct</i>	-5.53	
			<i>For >1,000, Deduct</i>	-7.61	
			<i>For 316 Stainless Steel, Add</i>	91.81	
			<i>For Aluminum, Add</i>	5.16	
			<i>For Galvanized Steel, Add</i>	17.79	
			<i>For 304 Stainless Steel, Add</i>	81.77	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0566	LF		MC8 x 21.4 - 8" Wide Channel.....	59.93	21.92
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-3.69	
			<i>For >500 To 1,000, Deduct</i>	-5.92	
			<i>For >1,000, Deduct</i>	-8.15	
			<i>For 316 Stainless Steel, Add</i>	98.24	
			<i>For Aluminum, Add</i>	5.53	
			<i>For Galvanized Steel, Add</i>	19.03	
			<i>For 304 Stainless Steel, Add</i>	87.50	
05 12 23 00-0567	LF		MC8 x 22.8 - 8" Wide Channel.....	63.83	23.36
			<i>For >100 To 250, Deduct</i>	-2.33	
			<i>For >250 To 500, Deduct</i>	-3.93	
			<i>For >500 To 1,000, Deduct</i>	-6.30	
			<i>For >1,000, Deduct</i>	-8.68	
			<i>For 316 Stainless Steel, Add</i>	104.64	
			<i>For Aluminum, Add</i>	5.89	
			<i>For Galvanized Steel, Add</i>	20.27	
			<i>For 304 Stainless Steel, Add</i>	93.20	
05 12 23 00-0568	LF		MC9 x 23.9 - 9" Wide Channel.....	66.92	24.48
			<i>For >100 To 250, Deduct</i>	-2.45	
			<i>For >250 To 500, Deduct</i>	-4.12	
			<i>For >500 To 1,000, Deduct</i>	-6.61	
			<i>For >1,000, Deduct</i>	-9.10	
			<i>For 316 Stainless Steel, Add</i>	109.70	
			<i>For Aluminum, Add</i>	6.17	
			<i>For Galvanized Steel, Add</i>	21.25	
			<i>For 304 Stainless Steel, Add</i>	97.70	
05 12 23 00-0569	LF		MC9 x 25.4 - 9" Wide Channel.....	71.11	26.01
			<i>For >100 To 250, Deduct</i>	-2.60	
			<i>For >250 To 500, Deduct</i>	-4.38	
			<i>For >500 To 1,000, Deduct</i>	-7.02	
			<i>For >1,000, Deduct</i>	-9.67	
			<i>For 316 Stainless Steel, Add</i>	116.58	
			<i>For Aluminum, Add</i>	6.56	
			<i>For Galvanized Steel, Add</i>	22.59	
			<i>For 304 Stainless Steel, Add</i>	103.83	
05 12 23 00-0570	LF		MC10 x 6.5 - 10" Wide Channel.....	18.20	6.66
			<i>For >100 To 250, Deduct</i>	-0.67	
			<i>For >250 To 500, Deduct</i>	-1.12	
			<i>For >500 To 1,000, Deduct</i>	-1.80	
			<i>For >1,000, Deduct</i>	-2.48	
			<i>For 316 Stainless Steel, Add</i>	29.82	
			<i>For Aluminum, Add</i>	1.68	
			<i>For Galvanized Steel, Add</i>	5.78	
			<i>For 304 Stainless Steel, Add</i>	26.56	
05 12 23 00-0571	LF		MC10 x 8.4 - 10" Wide Channel.....	23.52	8.60
			<i>For >100 To 250, Deduct</i>	-0.86	
			<i>For >250 To 500, Deduct</i>	-1.45	
			<i>For >500 To 1,000, Deduct</i>	-2.32	
			<i>For >1,000, Deduct</i>	-3.20	
			<i>For 316 Stainless Steel, Add</i>	38.56	
			<i>For Aluminum, Add</i>	2.17	
			<i>For Galvanized Steel, Add</i>	7.47	
			<i>For 304 Stainless Steel, Add</i>	34.34	
05 12 23 00-0572	LF		MC10 x 21.9 - 10" Wide Channel.....	61.31	22.43
			<i>For >100 To 250, Deduct</i>	-2.24	
			<i>For >250 To 500, Deduct</i>	-3.78	
			<i>For >500 To 1,000, Deduct</i>	-6.06	
			<i>For >1,000, Deduct</i>	-8.34	
			<i>For 316 Stainless Steel, Add</i>	100.51	
			<i>For Aluminum, Add</i>	5.65	
			<i>For Galvanized Steel, Add</i>	19.47	
			<i>For 304 Stainless Steel, Add</i>	89.52	
05 12 23 00-0573	LF		MC10 x 24.9 - 10" Wide Channel.....	69.73	25.51
			<i>For >100 To 250, Deduct</i>	-2.55	
			<i>For >250 To 500, Deduct</i>	-4.29	
			<i>For >500 To 1,000, Deduct</i>	-6.89	
			<i>For >1,000, Deduct</i>	-9.48	
			<i>For 316 Stainless Steel, Add</i>	114.30	
			<i>For Aluminum, Add</i>	6.43	
			<i>For Galvanized Steel, Add</i>	22.15	
			<i>For 304 Stainless Steel, Add</i>	101.80	
05 12 23 00-0574	LF		MC10 x 25.3 - 10" Wide Channel.....	70.83	25.92
			<i>For >100 To 250, Deduct</i>	-2.59	
			<i>For >250 To 500, Deduct</i>	-4.36	
			<i>For >500 To 1,000, Deduct</i>	-7.00	
			<i>For >1,000, Deduct</i>	-9.63	
			<i>For 316 Stainless Steel, Add</i>	116.13	
			<i>For Aluminum, Add</i>	6.53	
			<i>For Galvanized Steel, Add</i>	22.50	
			<i>For 304 Stainless Steel, Add</i>	103.43	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0575	LF		MC10 x 28.3 - 10" Wide Channel.....	79.24	28.97
			For >100 To 250, Deduct	-2.90	
			For >250 To 500, Deduct	-4.88	
			For >500 To 1,000, Deduct	-7.83	
			For >1,000, Deduct	-10.77	
			For 316 Stainless Steel, Add	129.89	
			For Aluminum, Add	7.31	
			For Galvanized Steel, Add	25.17	
			For 304 Stainless Steel, Add	115.68	
05 12 23 00-0576	LF		MC10 x 28.5 - 10" Wide Channel.....	79.80	29.19
			For >100 To 250, Deduct	-2.92	
			For >250 To 500, Deduct	-4.91	
			For >500 To 1,000, Deduct	-7.88	
			For >1,000, Deduct	-10.85	
			For 316 Stainless Steel, Add	130.82	
			For Aluminum, Add	7.36	
			For Galvanized Steel, Add	25.35	
			For 304 Stainless Steel, Add	116.51	
05 12 23 00-0577	LF		MC10 x 33.6 - 10" Wide Channel.....	94.08	34.41
			For >100 To 250, Deduct	-3.44	
			For >250 To 500, Deduct	-5.79	
			For >500 To 1,000, Deduct	-9.29	
			For >1,000, Deduct	-12.79	
			For 316 Stainless Steel, Add	154.24	
			For Aluminum, Add	8.68	
			For Galvanized Steel, Add	29.88	
			For 304 Stainless Steel, Add	137.37	
05 12 23 00-0578	LF		MC10 x 41.1 - 10" Wide Channel.....	115.07	42.10
			For >100 To 250, Deduct	-4.21	
			For >250 To 500, Deduct	-7.09	
			For >500 To 1,000, Deduct	-11.37	
			For >1,000, Deduct	-15.65	
			For 316 Stainless Steel, Add	188.64	
			For Aluminum, Add	10.61	
			For Galvanized Steel, Add	36.55	
			For 304 Stainless Steel, Add	168.01	
05 12 23 00-0579	LF		MC12 x 30.9 - 12" Wide Channel.....	86.52	31.65
			For >100 To 250, Deduct	-3.17	
			For >250 To 500, Deduct	-5.33	
			For >500 To 1,000, Deduct	-8.55	
			For >1,000, Deduct	-11.76	
			For 316 Stainless Steel, Add	141.82	
			For Aluminum, Add	7.98	
			For Galvanized Steel, Add	27.48	
			For 304 Stainless Steel, Add	126.31	
05 12 23 00-0580	LF		MC12 x 32.9 - 12" Wide Channel.....	92.12	33.69
			For >100 To 250, Deduct	-3.37	
			For >250 To 500, Deduct	-5.67	
			For >500 To 1,000, Deduct	-9.10	
			For >1,000, Deduct	-12.53	
			For 316 Stainless Steel, Add	151.01	
			For Aluminum, Add	8.49	
			For Galvanized Steel, Add	29.26	
			For 304 Stainless Steel, Add	134.49	
05 12 23 00-0581	LF		MC12 x 35 - 12" Wide Channel.....	97.99	35.84
			For >100 To 250, Deduct	-3.58	
			For >250 To 500, Deduct	-6.03	
			For >500 To 1,000, Deduct	-9.68	
			For >1,000, Deduct	-13.32	
			For 316 Stainless Steel, Add	160.64	
			For Aluminum, Add	9.04	
			For Galvanized Steel, Add	31.12	
			For 304 Stainless Steel, Add	143.07	
05 12 23 00-0582	LF		MC12 x 37 - 12" Wide Channel.....	103.60	37.90
			For >100 To 250, Deduct	-3.79	
			For >250 To 500, Deduct	-6.38	
			For >500 To 1,000, Deduct	-10.23	
			For >1,000, Deduct	-14.09	
			For 316 Stainless Steel, Add	169.82	
			For Aluminum, Add	9.55	
			For Galvanized Steel, Add	32.90	
			For 304 Stainless Steel, Add	151.25	
05 12 23 00-0583	LF		MC12 x 40 - 12" Wide Channel.....	112.00	40.96
			For >100 To 250, Deduct	-4.10	
			For >250 To 500, Deduct	-6.90	
			For >500 To 1,000, Deduct	-11.06	
			For >1,000, Deduct	-15.23	
			For 316 Stainless Steel, Add	183.62	
			For Aluminum, Add	10.33	
			For Galvanized Steel, Add	35.58	
			For 304 Stainless Steel, Add	163.53	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0584	LF		MC12 x 45 - 12" Wide Channel.....	126.00	46.09
			<i>For >100 To 250, Deduct</i>	-4.61	
			<i>For >250 To 500, Deduct</i>	-7.76	
			<i>For >500 To 1,000, Deduct</i>	-12.45	
			<i>For >1,000, Deduct</i>	-17.13	
			<i>For 316 Stainless Steel, Add</i>	206.56	
			<i>For Aluminum, Add</i>	11.62	
			<i>For Galvanized Steel, Add</i>	40.02	
			<i>For 304 Stainless Steel, Add</i>	183.97	
05 12 23 00-0585	LF		MC12 x 50 - 12" Wide Channel.....	140.00	51.21
			<i>For >100 To 250, Deduct</i>	-5.12	
			<i>For >250 To 500, Deduct</i>	-8.62	
			<i>For >500 To 1,000, Deduct</i>	-13.83	
			<i>For >1,000, Deduct</i>	-19.04	
			<i>For 316 Stainless Steel, Add</i>	229.50	
			<i>For Aluminum, Add</i>	12.91	
			<i>For Galvanized Steel, Add</i>	44.47	
			<i>For 304 Stainless Steel, Add</i>	204.40	
05 12 23 00-0586	LF		MC13 x 31.8 - 13" Wide Channel.....	89.04	32.57
			<i>For >100 To 250, Deduct</i>	-3.26	
			<i>For >250 To 500, Deduct</i>	-5.48	
			<i>For >500 To 1,000, Deduct</i>	-8.80	
			<i>For >1,000, Deduct</i>	-12.11	
			<i>For 316 Stainless Steel, Add</i>	145.95	
			<i>For Aluminum, Add</i>	8.21	
			<i>For Galvanized Steel, Add</i>	28.28	
			<i>For 304 Stainless Steel, Add</i>	129.99	
05 12 23 00-0587	LF		MC13 x 35 - 13" Wide Channel.....	97.99	35.84
			<i>For >100 To 250, Deduct</i>	-3.58	
			<i>For >250 To 500, Deduct</i>	-6.03	
			<i>For >500 To 1,000, Deduct</i>	-9.68	
			<i>For >1,000, Deduct</i>	-13.32	
			<i>For 316 Stainless Steel, Add</i>	160.64	
			<i>For Aluminum, Add</i>	9.04	
			<i>For Galvanized Steel, Add</i>	31.12	
			<i>For 304 Stainless Steel, Add</i>	143.07	
05 12 23 00-0588	LF		MC13 x 40 - 13" Wide Channel.....	112.00	40.96
			<i>For >100 To 250, Deduct</i>	-4.10	
			<i>For >250 To 500, Deduct</i>	-6.90	
			<i>For >500 To 1,000, Deduct</i>	-11.06	
			<i>For >1,000, Deduct</i>	-15.23	
			<i>For 316 Stainless Steel, Add</i>	183.62	
			<i>For Aluminum, Add</i>	10.33	
			<i>For Galvanized Steel, Add</i>	35.58	
			<i>For 304 Stainless Steel, Add</i>	163.53	
05 12 23 00-0589	LF		MC13 x 50 - 13" Wide Channel.....	140.00	51.21
			<i>For >100 To 250, Deduct</i>	-5.12	
			<i>For >250 To 500, Deduct</i>	-8.62	
			<i>For >500 To 1,000, Deduct</i>	-13.83	
			<i>For >1,000, Deduct</i>	-19.04	
			<i>For 316 Stainless Steel, Add</i>	229.50	
			<i>For Aluminum, Add</i>	12.91	
			<i>For Galvanized Steel, Add</i>	44.47	
			<i>For 304 Stainless Steel, Add</i>	204.40	
05 12 23 00-0590	LF		MC18 x 42.7 - 18" Wide Channel.....	119.56	43.73
			<i>For >100 To 250, Deduct</i>	-4.37	
			<i>For >250 To 500, Deduct</i>	-7.36	
			<i>For >500 To 1,000, Deduct</i>	-11.81	
			<i>For >1,000, Deduct</i>	-16.26	
			<i>For 316 Stainless Steel, Add</i>	196.00	
			<i>For Aluminum, Add</i>	11.03	
			<i>For Galvanized Steel, Add</i>	37.98	
			<i>For 304 Stainless Steel, Add</i>	174.56	
05 12 23 00-0591	LF		MC18 x 45.8 - 18" Wide Channel.....	128.23	46.91
			<i>For >100 To 250, Deduct</i>	-4.69	
			<i>For >250 To 500, Deduct</i>	-7.90	
			<i>For >500 To 1,000, Deduct</i>	-12.67	
			<i>For >1,000, Deduct</i>	-17.43	
			<i>For 316 Stainless Steel, Add</i>	210.21	
			<i>For Aluminum, Add</i>	11.82	
			<i>For Galvanized Steel, Add</i>	40.73	
			<i>For 304 Stainless Steel, Add</i>	187.22	
05 12 23 00-0592	LF		MC18 x 51.9 - 18" Wide Channel.....	145.31	53.15
			<i>For >100 To 250, Deduct</i>	-5.32	
			<i>For >250 To 500, Deduct</i>	-8.95	
			<i>For >500 To 1,000, Deduct</i>	-14.35	
			<i>For >1,000, Deduct</i>	-19.76	
			<i>For 316 Stainless Steel, Add</i>	238.21	
			<i>For Aluminum, Add</i>	13.40	
			<i>For Galvanized Steel, Add</i>	46.15	
			<i>For 304 Stainless Steel, Add</i>	212.15	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0593	LF		MC18 x 58 - 18" Wide Channel.....	162.39	59.39
			<i>For >100 To 250, Deduct</i>	-5.94	
			<i>For >250 To 500, Deduct</i>	-10.00	
			<i>For >500 To 1,000, Deduct</i>	-16.04	
			<i>For >1,000, Deduct</i>	-22.08	
			<i>For 316 Stainless Steel, Add</i>	266.21	
			<i>For Aluminum, Add</i>	14.97	
			<i>For Galvanized Steel, Add</i>	51.58	
			<i>For 304 Stainless Steel, Add</i>	237.09	
05 12 23 00-0594			Structural Bar Tees (05 12 23 00-0408)		
05 12 23 00-0595	LF		3/4" x 3/4" x 1/8" Structural Bar Tee.....	4.79	2.72
			<i>For >100 To 250, Deduct</i>	-0.27	
			<i>For >250 To 500, Deduct</i>	-0.39	
			<i>For >500 To 1,000, Deduct</i>	-0.60	
			<i>For >1,000, Deduct</i>	-0.81	
			<i>For 316 Stainless Steel, Add</i>	3.71	
			<i>For Aluminum, Add</i>	0.21	
			<i>For Galvanized Steel, Add</i>	0.72	
			<i>For 304 Stainless Steel, Add</i>	3.31	
05 12 23 00-0596	LF		1" x 1" x 1/8" Structural Bar Tee.....	5.87	3.21
			<i>For >100 To 250, Deduct</i>	-0.32	
			<i>For >250 To 500, Deduct</i>	-0.47	
			<i>For >500 To 1,000, Deduct</i>	-0.72	
			<i>For >1,000, Deduct</i>	-0.98	
			<i>For 316 Stainless Steel, Add</i>	5.09	
			<i>For Aluminum, Add</i>	0.29	
			<i>For Galvanized Steel, Add</i>	0.99	
			<i>For 304 Stainless Steel, Add</i>	4.53	
05 12 23 00-0597	LF		1-1/2" x 1-1/2" x 1/4" Structural Bar Tee.....	9.49	3.71
			<i>For >100 To 250, Deduct</i>	-0.37	
			<i>For >250 To 500, Deduct</i>	-0.61	
			<i>For >500 To 1,000, Deduct</i>	-0.97	
			<i>For >1,000, Deduct</i>	-1.33	
			<i>For 316 Stainless Steel, Add</i>	14.56	
			<i>For Aluminum, Add</i>	0.82	
			<i>For Galvanized Steel, Add</i>	2.82	
			<i>For 304 Stainless Steel, Add</i>	12.97	
05 12 23 00-0598	LF		2" x 2" x 1/4" Structural Bar Tee.....	13.24	4.85
			<i>For >100 To 250, Deduct</i>	-0.49	
			<i>For >250 To 500, Deduct</i>	-0.82	
			<i>For >500 To 1,000, Deduct</i>	-1.31	
			<i>For >1,000, Deduct</i>	-1.80	
			<i>For 316 Stainless Steel, Add</i>	21.66	
			<i>For Aluminum, Add</i>	1.22	
			<i>For Galvanized Steel, Add</i>	4.20	
			<i>For 304 Stainless Steel, Add</i>	19.29	
05 12 23 00-0599	LF		2-1/2" x 2-1/2" x 3/8" Structural Bar Tee.....	19.97	5.85
			<i>For >100 To 250, Deduct</i>	-0.59	
			<i>For >250 To 500, Deduct</i>	-1.09	
			<i>For >500 To 1,000, Deduct</i>	-1.78	
			<i>For >1,000, Deduct</i>	-2.47	
			<i>For 316 Stainless Steel, Add</i>	38.91	
			<i>For Aluminum, Add</i>	2.19	
			<i>For Galvanized Steel, Add</i>	7.54	
			<i>For 304 Stainless Steel, Add</i>	34.66	
05 12 23 00-0600	LF		3" x 3" x 3/8" Structural Bar Tee.....	24.59	7.49
			<i>For >100 To 250, Deduct</i>	-0.75	
			<i>For >250 To 500, Deduct</i>	-1.36	
			<i>For >500 To 1,000, Deduct</i>	-2.23	
			<i>For >1,000, Deduct</i>	-3.09	
			<i>For 316 Stainless Steel, Add</i>	46.72	
			<i>For Aluminum, Add</i>	2.63	
			<i>For Galvanized Steel, Add</i>	9.05	
			<i>For 304 Stainless Steel, Add</i>	41.61	
05 12 23 00-0601			Structural Zees (05 12 23 00-0408)		
05 12 23 00-0602	LF		1-1/4" x 1-3/4" x 1-3/4" x 3/16" Structural Zee.....	11.72	3.71
			<i>For >100 To 250, Deduct</i>	-0.37	
			<i>For >250 To 500, Deduct</i>	-0.66	
			<i>For >500 To 1,000, Deduct</i>	-1.08	
			<i>For >1,000, Deduct</i>	-1.50	
			<i>For 316 Stainless Steel, Add</i>	21.70	
			<i>For Aluminum, Add</i>	1.22	
			<i>For Galvanized Steel, Add</i>	4.20	
			<i>For 304 Stainless Steel, Add</i>	19.32	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0603 LF 2-11/16" x 3" x 2-11/16" x 1/4" Structural Zee	22.13	4.43
For >100 To 250, Deduct	-0.44	
For >250 To 500, Deduct	-1.00	
For >500 To 1,000, Deduct	-1.70	
For >1,000, Deduct	-2.40	
For 316 Stainless Steel, Add	51.94	
For Aluminum, Add	2.92	
For Galvanized Steel, Add	10.06	
For 304 Stainless Steel, Add	46.26	
05 12 23 00-0604 LF 3-1/16" x 4" x 3-1/16" x 1/4" Structural Zee	26.52	4.99
For >100 To 250, Deduct	-0.50	
For >250 To 500, Deduct	-1.16	
For >500 To 1,000, Deduct	-1.99	
For >1,000, Deduct	-2.82	
For 316 Stainless Steel, Add	63.55	
For Aluminum, Add	3.57	
For Galvanized Steel, Add	12.31	
For 304 Stainless Steel, Add	56.60	
05 12 23 00-0605 LF 3-1/4" x 5" x 3-1/4" x 5/16" Structural Zee	35.70	5.71
For >100 To 250, Deduct	-0.57	
For >250 To 500, Deduct	-1.46	
For >500 To 1,000, Deduct	-2.55	
For >1,000, Deduct	-3.63	
For 316 Stainless Steel, Add	89.89	
For Aluminum, Add	5.06	
For Galvanized Steel, Add	17.42	
For 304 Stainless Steel, Add	80.06	
05 12 23 00-0606 LF 3-1/2" x 6" x 3-1/2" x 3/8" Structural Zee	46.30	6.21
For >100 To 250, Deduct	-0.62	
For >250 To 500, Deduct	-1.78	
For >500 To 1,000, Deduct	-3.14	
For >1,000, Deduct	-4.51	
For 316 Stainless Steel, Add	121.66	
For Aluminum, Add	6.84	
For Galvanized Steel, Add	23.57	
For 304 Stainless Steel, Add	108.36	
05 12 23 00-0607 Junior I-Beams <small>(05 12 23 00-0408)</small>		
05 12 23 00-0608 LF 3" Junior I-Beam, 2.9 LB/LF	16.08	5.36
For >100 To 250, Deduct	-0.54	
For >250 To 500, Deduct	-0.94	
For >500 To 1,000, Deduct	-1.52	
For >1,000, Deduct	-2.10	
For 316 Stainless Steel, Add	28.61	
For Aluminum, Add	1.61	
For Galvanized Steel, Add	5.54	
For 304 Stainless Steel, Add	25.48	
05 12 23 00-0609 LF 4" Junior I-Beam, 3.2 LB/LF	17.67	5.85
For >100 To 250, Deduct	-0.59	
For >250 To 500, Deduct	-1.03	
For >500 To 1,000, Deduct	-1.66	
For >1,000, Deduct	-2.30	
For 316 Stainless Steel, Add	31.55	
For Aluminum, Add	1.77	
For Galvanized Steel, Add	6.11	
For 304 Stainless Steel, Add	28.10	
05 12 23 00-0610 LF 5" Junior I-Beam, 3.8 LB/LF	20.27	6.42
For >100 To 250, Deduct	-0.64	
For >250 To 500, Deduct	-1.15	
For >500 To 1,000, Deduct	-1.87	
For >1,000, Deduct	-2.59	
For 316 Stainless Steel, Add	37.47	
For Aluminum, Add	2.11	
For Galvanized Steel, Add	7.26	
For 304 Stainless Steel, Add	33.37	
05 12 23 00-0611 LF 6" Junior I-Beam, 4.4 LB/LF	22.89	7.00
For >100 To 250, Deduct	-0.70	
For >250 To 500, Deduct	-1.27	
For >500 To 1,000, Deduct	-2.08	
For >1,000, Deduct	-2.88	
For 316 Stainless Steel, Add	43.39	
For Aluminum, Add	2.44	
For Galvanized Steel, Add	8.41	
For 304 Stainless Steel, Add	38.65	
05 12 23 00-0612 LF 7" Junior I-Beam, 5.5 LB/LF	26.94	7.49
For >100 To 250, Deduct	-0.75	
For >250 To 500, Deduct	-1.42	
For >500 To 1,000, Deduct	-2.35	
For >1,000, Deduct	-3.27	
For 316 Stainless Steel, Add	54.24	
For Aluminum, Add	3.05	
For Galvanized Steel, Add	10.51	
For 304 Stainless Steel, Add	48.31	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0613	LF		8" Junior I-Beam, 6.5 LB/LF	30.69	8.00
			<i>For >100 To 250, Deduct</i>	-0.80	
			<i>For >250 To 500, Deduct</i>	-1.57	
			<i>For >500 To 1,000, Deduct</i>	-2.60	
			<i>For >1,000, Deduct</i>	-3.63	
			<i>For 316 Stainless Steel, Add</i>	64.10	
			<i>For Aluminum, Add</i>	3.61	
			<i>For Galvanized Steel, Add</i>	12.42	
			<i>For 304 Stainless Steel, Add</i>	57.09	
05 12 23 00-0614	LF		10" Junior I-Beam, 9 LB/LF	39.92	9.14
			<i>For >100 To 250, Deduct</i>	-0.91	
			<i>For >250 To 500, Deduct</i>	-1.91	
			<i>For >500 To 1,000, Deduct</i>	-3.21	
			<i>For >1,000, Deduct</i>	-4.52	
			<i>For 316 Stainless Steel, Add</i>	88.77	
			<i>For Aluminum, Add</i>	4.99	
			<i>For Galvanized Steel, Add</i>	17.20	
			<i>For 304 Stainless Steel, Add</i>	79.06	
05 12 23 00-0615	LF		12" Junior I-Beam, 11.8 LB/LF	50.83	10.85
			<i>For >100 To 250, Deduct</i>	-1.08	
			<i>For >250 To 500, Deduct</i>	-2.36	
			<i>For >500 To 1,000, Deduct</i>	-3.99	
			<i>For >1,000, Deduct</i>	-5.62	
			<i>For 316 Stainless Steel, Add</i>	116.38	
			<i>For Aluminum, Add</i>	6.55	
			<i>For Galvanized Steel, Add</i>	22.55	
			<i>For 304 Stainless Steel, Add</i>	103.65	
05 12 23 00-0616			Round Stock (05 12 23 00-0408)		
05 12 23 00-0617	LF		1/4" Carbon Steel Rounds, ASTM A108	1.83	
			<i>For 316 Stainless Steel, Add</i>	2.82	
			<i>For Aluminum, Add</i>	0.16	
			<i>For Galvanized Steel, Add</i>	0.55	
			<i>For 304 Stainless Steel, Add</i>	2.51	
05 12 23 00-0618	LF		3/8" Carbon Steel Rounds, ASTM A108	2.81	
			<i>For 316 Stainless Steel, Add</i>	5.54	
			<i>For Aluminum, Add</i>	0.31	
			<i>For Galvanized Steel, Add</i>	1.07	
			<i>For 304 Stainless Steel, Add</i>	4.93	
05 12 23 00-0619	LF		1/2" Carbon Steel Rounds, ASTM A108	3.82	
			<i>For 316 Stainless Steel, Add</i>	8.42	
			<i>For Aluminum, Add</i>	0.47	
			<i>For Galvanized Steel, Add</i>	1.63	
			<i>For 304 Stainless Steel, Add</i>	7.50	
05 12 23 00-0620	LF		5/8" Carbon Steel Rounds, ASTM A108	5.70	
			<i>For 316 Stainless Steel, Add</i>	14.02	
			<i>For Aluminum, Add</i>	0.79	
			<i>For Galvanized Steel, Add</i>	2.72	
			<i>For 304 Stainless Steel, Add</i>	12.48	
05 12 23 00-0621	LF		3/4" Carbon Steel Rounds, ASTM A108	6.79	
			<i>For 316 Stainless Steel, Add</i>	16.67	
			<i>For Aluminum, Add</i>	0.94	
			<i>For Galvanized Steel, Add</i>	3.23	
			<i>For 304 Stainless Steel, Add</i>	14.85	
05 12 23 00-0622	LF		7/8" Carbon Steel Rounds, ASTM A108	7.91	
			<i>For 316 Stainless Steel, Add</i>	19.46	
			<i>For Aluminum, Add</i>	1.09	
			<i>For Galvanized Steel, Add</i>	3.77	
			<i>For 304 Stainless Steel, Add</i>	17.33	
05 12 23 00-0623	LF		1" Carbon Steel Rounds, ASTM A108	11.43	
			<i>For 316 Stainless Steel, Add</i>	29.66	
			<i>For Aluminum, Add</i>	1.67	
			<i>For Galvanized Steel, Add</i>	5.75	
			<i>For 304 Stainless Steel, Add</i>	26.42	
05 12 23 00-0624	LF		1-1/8" Carbon Steel Rounds, ASTM A108	13.91	
			<i>For 316 Stainless Steel, Add</i>	36.06	
			<i>For Aluminum, Add</i>	2.03	
			<i>For Galvanized Steel, Add</i>	6.99	
			<i>For 304 Stainless Steel, Add</i>	32.12	
05 12 23 00-0625	LF		1-1/4" Carbon Steel Rounds, ASTM A108	16.66	
			<i>For 316 Stainless Steel, Add</i>	42.43	
			<i>For Aluminum, Add</i>	2.39	
			<i>For Galvanized Steel, Add</i>	8.22	
			<i>For 304 Stainless Steel, Add</i>	37.79	
05 12 23 00-0626	LF		1-3/8" Carbon Steel Rounds, ASTM A108	20.14	
			<i>For 316 Stainless Steel, Add</i>	51.78	
			<i>For Aluminum, Add</i>	2.91	
			<i>For Galvanized Steel, Add</i>	10.03	
			<i>For 304 Stainless Steel, Add</i>	46.11	
05 12 23 00-0627	LF		1-1/2" Carbon Steel Rounds, ASTM A108	22.51	
			<i>For 316 Stainless Steel, Add</i>	56.80	
			<i>For Aluminum, Add</i>	3.20	
			<i>For Galvanized Steel, Add</i>	11.01	
			<i>For 304 Stainless Steel, Add</i>	50.59	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0628	LF		1-5/8" Carbon Steel Rounds, ASTM A108 .....26.07 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	26.07 64.38 3.62 12.47 57.34	
05 12 23 00-0629	LF		1-3/4" Carbon Steel Rounds, ASTM A108 .....31.34 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	31.34 74.91 4.21 14.51 66.72	
05 12 23 00-0630	LF		1-7/8" Carbon Steel Rounds, ASTM A108 .....37.89 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	37.89 87.74 4.94 17.00 78.15	
05 12 23 00-0631	LF		2" Carbon Steel Rounds, ASTM A108 .....43.45 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	43.45 97.60 5.49 18.91 86.93	
05 12 23 00-0632	LF		2-1/8" Carbon Steel Rounds, ASTM A108 .....50.92 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	50.92 111.49 6.27 21.60 99.29	
05 12 23 00-0633	LF		2-1/4" Carbon Steel Rounds, ASTM A108 .....57.67 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	57.67 125.34 7.05 24.29 111.63	
05 12 23 00-0634	LF		2-3/8" Carbon Steel Rounds, ASTM A108 .....66.07 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	66.07 143.36 8.06 27.78 127.68	
05 12 23 00-0635	LF		2-1/2" Carbon Steel Rounds, ASTM A108 .....73.26 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	73.26 154.50 8.69 29.93 137.60	
05 12 23 00-0636	LF		2-5/8" Carbon Steel Rounds, ASTM A108 .....89.08 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	89.08 196.26 11.04 38.02 174.79	
05 12 23 00-0637	LF		2-3/4" Carbon Steel Rounds, ASTM A108 .....101.39 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	101.39 223.81 12.59 43.36 199.33	
05 12 23 00-0638	LF		2-7/8" Carbon Steel Rounds, ASTM A108 .....113.09 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	113.09 249.41 14.03 48.32 222.13	
05 12 23 00-0639	LF		3" Carbon Steel Rounds, ASTM A108 .....119.12 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	119.12 256.86 14.45 49.77 228.77	
05 12 23 00-0640	LF		3-1/8" Carbon Steel Rounds, ASTM A108 .....124.60 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	124.60 262.56 14.77 50.87 233.84	
05 12 23 00-0641	LF		3-1/4" Carbon Steel Rounds, ASTM A108 .....131.64 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	131.64 273.28 15.37 52.95 243.39	
05 12 23 00-0642	LF		3-1/2" Carbon Steel Rounds, ASTM A108 .....159.23 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	159.23 346.75 19.50 67.18 308.83	
05 12 23 00-0643	LF		3-5/8" Carbon Steel Rounds, ASTM A108 .....176.72 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	176.72 387.90 21.82 75.16 345.48	
05 12 23 00-0644	LF		3-3/4" Carbon Steel Rounds, ASTM A108 .....189.79 <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	189.79 414.94 23.34 80.40 369.56	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0645 LF 4" Carbon Steel Rounds, ASTM A108	212.38	
For 316 Stainless Steel, Add	472.42	
For Aluminum, Add	26.57	
For Galvanized Steel, Add	91.53	
For 304 Stainless Steel, Add	420.75	
05 12 23 00-0646 Square Stock <small>(05 12 23 00-0408)</small>		
05 12 23 00-0647 LF 3/8" Square Bar Stock.....	1.76	
For 316 Stainless Steel, Add	2.18	
For Aluminum, Add	0.12	
For Galvanized Steel, Add	0.42	
For 304 Stainless Steel, Add	1.94	
05 12 23 00-0648 LF 1/2" Square Bar Stock.....	2.40	
For 316 Stainless Steel, Add	3.87	
For Aluminum, Add	0.22	
For Galvanized Steel, Add	0.75	
For 304 Stainless Steel, Add	3.45	
05 12 23 00-0649 LF 5/8" Square Bar Stock.....	3.21	
For 316 Stainless Steel, Add	6.05	
For Aluminum, Add	0.34	
For Galvanized Steel, Add	1.17	
For 304 Stainless Steel, Add	5.39	
05 12 23 00-0650 LF 3/4" Square Bar Stock.....	4.31	
For 316 Stainless Steel, Add	8.74	
For Aluminum, Add	0.49	
For Galvanized Steel, Add	1.69	
For 304 Stainless Steel, Add	7.78	
05 12 23 00-0651 LF 7/8" Square Bar Stock.....	5.64	
For 316 Stainless Steel, Add	12.19	
For Aluminum, Add	0.69	
For Galvanized Steel, Add	2.36	
For 304 Stainless Steel, Add	10.86	
05 12 23 00-0652 LF 1" Square Bar Stock.....	7.03	
For 316 Stainless Steel, Add	15.58	
For Aluminum, Add	0.88	
For Galvanized Steel, Add	3.02	
For 304 Stainless Steel, Add	13.88	
05 12 23 00-0653 LF 1-1/4" Square Bar Stock.....	11.00	
For 316 Stainless Steel, Add	24.32	
For Aluminum, Add	1.37	
For Galvanized Steel, Add	4.71	
For 304 Stainless Steel, Add	21.66	
05 12 23 00-0654 LF 1-1/2" Square Bar Stock.....	15.70	
For 316 Stainless Steel, Add	35.01	
For Aluminum, Add	1.97	
For Galvanized Steel, Add	6.78	
For 304 Stainless Steel, Add	31.18	
05 12 23 00-0655 LF 1-3/4" Square Bar Stock.....	23.14	
For 316 Stainless Steel, Add	48.67	
For Aluminum, Add	2.74	
For Galvanized Steel, Add	9.43	
For 304 Stainless Steel, Add	43.35	
05 12 23 00-0656 LF 2" Square Bar Stock.....	32.78	
For 316 Stainless Steel, Add	62.27	
For Aluminum, Add	3.50	
For Galvanized Steel, Add	12.07	
For 304 Stainless Steel, Add	55.46	
05 12 23 00-0657 Steel Tubing <small>(05 12 23 00-0408)</small>		
Note: General purpose low-carbon steel.		
05 12 23 00-0658 Square Steel Tubing <small>(05 12 23 00-0657)</small>		
05 12 23 00-0659 0.06" Wall Thickness <small>(05 12 23 00-0656)</small>		
05 12 23 00-0660 LF 1/2" x 1/2" x 0.06" Square Steel Tubing	2.48	0.51
For >100 To 250, Deduct	-0.05	
For >250 To 500, Deduct	-0.11	
For >500 To 1,000, Deduct	-0.19	
For >1,000, Deduct	-0.27	
For 316 Stainless Steel, Add	5.73	
For Aluminum, Add	0.32	
For Galvanized Steel, Add	1.11	
For 304 Stainless Steel, Add	5.10	
05 12 23 00-0661 LF 3/4" x 3/4" x 0.06" Square Steel Tubing	3.79	0.81
For >100 To 250, Deduct	-0.08	
For >250 To 500, Deduct	-0.18	
For >500 To 1,000, Deduct	-0.30	
For >1,000, Deduct	-0.42	
For 316 Stainless Steel, Add	8.70	
For Aluminum, Add	0.49	
For Galvanized Steel, Add	1.69	
For 304 Stainless Steel, Add	7.75	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0662	LF		1" x 1" x 0.06" Square Steel Tubing	5.10	1.46
			<i>For >100 To 250, Deduct</i>	-0.11	
			<i>For >250 To 500, Deduct</i>	-0.24	
			<i>For >500 To 1,000, Deduct</i>	-0.40	
			<i>For >1,000, Deduct</i>	-0.57	
			<i>For 316 Stainless Steel, Add</i>	11.65	
			<i>For Aluminum, Add</i>	0.66	
			<i>For Galvanized Steel, Add</i>	2.26	
			<i>For 304 Stainless Steel, Add</i>	10.37	
05 12 23 00-0663	LF		1-1/4" x 1-1/4" x 0.06" Square Steel Tubing.....	6.76	1.39
			<i>For >100 To 250, Deduct</i>	-0.14	
			<i>For >250 To 500, Deduct</i>	-0.31	
			<i>For >500 To 1,000, Deduct</i>	-0.52	
			<i>For >1,000, Deduct</i>	-0.74	
			<i>For 316 Stainless Steel, Add</i>	15.71	
			<i>For Aluminum, Add</i>	0.88	
			<i>For Galvanized Steel, Add</i>	3.04	
			<i>For 304 Stainless Steel, Add</i>	13.99	
05 12 23 00-0664	LF		1-1/2" x 1-1/2" x 0.06" Square Steel Tubing.....	8.00	1.67
			<i>For >100 To 250, Deduct</i>	-0.17	
			<i>For >250 To 500, Deduct</i>	-0.37	
			<i>For >500 To 1,000, Deduct</i>	-0.62	
			<i>For >1,000, Deduct</i>	-0.88	
			<i>For 316 Stainless Steel, Add</i>	18.43	
			<i>For Aluminum, Add</i>	1.04	
			<i>For Galvanized Steel, Add</i>	3.57	
			<i>For 304 Stainless Steel, Add</i>	16.42	
05 12 23 00-0665			0.083" Wall Thickness (05 12 23 00-0658)		
05 12 23 00-0666	LF		3/4" x 3/4" x 0.083" Square Steel Tubing	4.42	0.94
			<i>For >100 To 250, Deduct</i>	-0.09	
			<i>For >250 To 500, Deduct</i>	-0.21	
			<i>For >500 To 1,000, Deduct</i>	-0.35	
			<i>For >1,000, Deduct</i>	-0.49	
			<i>For 316 Stainless Steel, Add</i>	10.11	
			<i>For Aluminum, Add</i>	0.57	
			<i>For Galvanized Steel, Add</i>	1.96	
			<i>For 304 Stainless Steel, Add</i>	9.01	
05 12 23 00-0667	LF		1" x 1" x 0.083" Square Steel Tubing	6.45	1.29
			<i>For >100 To 250, Deduct</i>	-0.13	
			<i>For >250 To 500, Deduct</i>	-0.29	
			<i>For >500 To 1,000, Deduct</i>	-0.49	
			<i>For >1,000, Deduct</i>	-0.70	
			<i>For 316 Stainless Steel, Add</i>	15.14	
			<i>For Aluminum, Add</i>	0.85	
			<i>For Galvanized Steel, Add</i>	2.93	
			<i>For 304 Stainless Steel, Add</i>	13.48	
05 12 23 00-0668	LF		1-1/4" x 1-1/4" x 0.083" Square Steel Tubing.....	7.78	1.64
			<i>For >100 To 250, Deduct</i>	-0.17	
			<i>For >250 To 500, Deduct</i>	-0.36	
			<i>For >500 To 1,000, Deduct</i>	-0.61	
			<i>For >1,000, Deduct</i>	-0.86	
			<i>For 316 Stainless Steel, Add</i>	17.86	
			<i>For Aluminum, Add</i>	1.00	
			<i>For Galvanized Steel, Add</i>	3.46	
			<i>For 304 Stainless Steel, Add</i>	15.90	
05 12 23 00-0669	LF		1-1/2" x 1-1/2" x 0.083" Square Steel Tubing.....	9.39	2.00
			<i>For >100 To 250, Deduct</i>	-0.20	
			<i>For >250 To 500, Deduct</i>	-0.43	
			<i>For >500 To 1,000, Deduct</i>	-0.74	
			<i>For >1,000, Deduct</i>	-1.04	
			<i>For 316 Stainless Steel, Add</i>	21.54	
			<i>For Aluminum, Add</i>	1.21	
			<i>For Galvanized Steel, Add</i>	4.17	
			<i>For 304 Stainless Steel, Add</i>	19.18	
05 12 23 00-0670	LF		2" x 2" x 0.083" Square Steel Tubing	12.02	2.66
			<i>For >100 To 250, Deduct</i>	-0.27	
			<i>For >250 To 500, Deduct</i>	-0.57	
			<i>For >500 To 1,000, Deduct</i>	-0.96	
			<i>For >1,000, Deduct</i>	-1.35	
			<i>For 316 Stainless Steel, Add</i>	27.10	
			<i>For Aluminum, Add</i>	1.52	
			<i>For Galvanized Steel, Add</i>	5.25	
			<i>For 304 Stainless Steel, Add</i>	24.14	

05 12 23 00-0671 0.12" Wall Thickness (05 12 23 00-0658)

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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 12 23 00-0672	LF	1" x 1" x 0.12" Square Steel Tubing	7.10	1.54
		<i>For >100 To 250, Deduct</i>	-0.15	
		<i>For >250 To 500, Deduct</i>	-0.33	
		<i>For >500 To 1,000, Deduct</i>	-0.56	
		<i>For >1,000, Deduct</i>	-0.79	
		<i>For 316 Stainless Steel, Add</i>	16.13	
		<i>For Aluminum, Add</i>	0.91	
		<i>For Galvanized Steel, Add</i>	3.12	
		<i>For 304 Stainless Steel, Add</i>	14.36	
05 12 23 00-0673	LF	1-1/4" x 1-1/4" x 0.12" Square Steel Tubing	9.13	1.98
		<i>For >100 To 250, Deduct</i>	-0.20	
		<i>For >250 To 500, Deduct</i>	-0.43	
		<i>For >500 To 1,000, Deduct</i>	-0.72	
		<i>For >1,000, Deduct</i>	-1.01	
		<i>For 316 Stainless Steel, Add</i>	20.80	
		<i>For Aluminum, Add</i>	1.17	
		<i>For Galvanized Steel, Add</i>	4.03	
		<i>For 304 Stainless Steel, Add</i>	18.53	
05 12 23 00-0674	LF	1-1/2" x 1-1/2" x 0.12" Square Steel Tubing	11.22	2.41
		<i>For >100 To 250, Deduct</i>	-0.24	
		<i>For >250 To 500, Deduct</i>	-0.52	
		<i>For >500 To 1,000, Deduct</i>	-0.88	
		<i>For >1,000, Deduct</i>	-1.24	
		<i>For 316 Stainless Steel, Add</i>	25.60	
		<i>For Aluminum, Add</i>	1.44	
		<i>For Galvanized Steel, Add</i>	4.96	
		<i>For 304 Stainless Steel, Add</i>	22.80	
05 12 23 00-0675	LF	2" x 2" x 0.12" Square Steel Tubing	15.18	3.29
		<i>For >100 To 250, Deduct</i>	-0.33	
		<i>For >250 To 500, Deduct</i>	-0.71	
		<i>For >500 To 1,000, Deduct</i>	-1.20	
		<i>For >1,000, Deduct</i>	-1.69	
		<i>For 316 Stainless Steel, Add</i>	34.53	
		<i>For Aluminum, Add</i>	1.94	
		<i>For Galvanized Steel, Add</i>	6.69	
		<i>For 304 Stainless Steel, Add</i>	30.75	
05 12 23 00-0676		1/8" Wall Thickness <small>(05 12 23 00-0658)</small>		
05 12 23 00-0677	LF	2" x 2" x 1/8" Square Steel Tubing	13.56	3.42
		<i>For >100 To 250, Deduct</i>	-0.34	
		<i>For >250 To 500, Deduct</i>	-0.68	
		<i>For >500 To 1,000, Deduct</i>	-1.13	
		<i>For >1,000, Deduct</i>	-1.59	
		<i>For 316 Stainless Steel, Add</i>	28.80	
		<i>For Aluminum, Add</i>	1.62	
		<i>For Galvanized Steel, Add</i>	5.58	
		<i>For 304 Stainless Steel, Add</i>	25.65	
05 12 23 00-0678	LF	2-1/2" x 2-1/2" x 1/8" Square Steel Tubing	17.92	4.33
		<i>For >100 To 250, Deduct</i>	-0.43	
		<i>For >250 To 500, Deduct</i>	-0.88	
		<i>For >500 To 1,000, Deduct</i>	-1.47	
		<i>For >1,000, Deduct</i>	-2.07	
		<i>For 316 Stainless Steel, Add</i>	38.88	
		<i>For Aluminum, Add</i>	2.19	
		<i>For Galvanized Steel, Add</i>	7.53	
		<i>For 304 Stainless Steel, Add</i>	34.63	
05 12 23 00-0679	LF	3" x 3" x 1/8" Square Steel Tubing	20.95	5.23
		<i>For >100 To 250, Deduct</i>	-0.52	
		<i>For >250 To 500, Deduct</i>	-1.05	
		<i>For >500 To 1,000, Deduct</i>	-1.75	
		<i>For >1,000, Deduct</i>	-2.44	
		<i>For 316 Stainless Steel, Add</i>	44.70	
		<i>For Aluminum, Add</i>	2.51	
		<i>For Galvanized Steel, Add</i>	8.66	
		<i>For 304 Stainless Steel, Add</i>	39.81	
05 12 23 00-0680	LF	3-1/2" x 3-1/2" x 1/8" Square Steel Tubing	24.27	6.15
		<i>For >100 To 250, Deduct</i>	-0.62	
		<i>For >250 To 500, Deduct</i>	-1.22	
		<i>For >500 To 1,000, Deduct</i>	-2.03	
		<i>For >1,000, Deduct</i>	-2.85	
		<i>For 316 Stainless Steel, Add</i>	51.42	
		<i>For Aluminum, Add</i>	2.89	
		<i>For Galvanized Steel, Add</i>	9.96	
		<i>For 304 Stainless Steel, Add</i>	45.80	
05 12 23 00-0681	LF	4" x 4" x 1/8" Square Steel Tubing	26.66	7.06
		<i>For >100 To 250, Deduct</i>	-0.71	
		<i>For >250 To 500, Deduct</i>	-1.37	
		<i>For >500 To 1,000, Deduct</i>	-2.27	
		<i>For >1,000, Deduct</i>	-3.18	
		<i>For 316 Stainless Steel, Add</i>	55.20	
		<i>For Aluminum, Add</i>	3.11	
		<i>For Galvanized Steel, Add</i>	10.70	
		<i>For 304 Stainless Steel, Add</i>	49.16	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0682 3/16" Wall Thickness <small>(05 12 23 00-0658)</small>		
05 12 23 00-0683 LF 2" x 2" x 3/16" Square Steel Tubing	15.38	3.85
For >100 To 250, Deduct	-0.39	
For >250 To 500, Deduct	-0.77	
For >500 To 1,000, Deduct	-1.28	
For >1,000, Deduct	-1.80	
For 316 Stainless Steel, Add	32.77	
For Aluminum, Add	1.84	
For Galvanized Steel, Add	6.35	
For 304 Stainless Steel, Add	29.18	
05 12 23 00-0684 LF 2-1/2" x 2-1/2" x 3/16" Square Steel Tubing.....	19.90	4.99
For >100 To 250, Deduct	-0.50	
For >250 To 500, Deduct	-1.00	
For >500 To 1,000, Deduct	-1.66	
For >1,000, Deduct	-2.32	
For 316 Stainless Steel, Add	42.40	
For Aluminum, Add	2.39	
For Galvanized Steel, Add	8.22	
For 304 Stainless Steel, Add	37.76	
05 12 23 00-0685 LF 3" x 3" x 3/16" Square Steel Tubing	24.45	6.13
For >100 To 250, Deduct	-0.61	
For >250 To 500, Deduct	-1.22	
For >500 To 1,000, Deduct	-2.04	
For >1,000, Deduct	-2.86	
For 316 Stainless Steel, Add	52.10	
For Aluminum, Add	2.93	
For Galvanized Steel, Add	10.09	
For 304 Stainless Steel, Add	46.40	
05 12 23 00-0686 LF 3-1/2" x 3-1/2" x 3/16" Square Steel Tubing.....	29.01	7.27
For >100 To 250, Deduct	-0.73	
For >250 To 500, Deduct	-1.45	
For >500 To 1,000, Deduct	-2.42	
For >1,000, Deduct	-3.39	
For 316 Stainless Steel, Add	61.82	
For Aluminum, Add	3.48	
For Galvanized Steel, Add	11.98	
For 304 Stainless Steel, Add	55.06	
05 12 23 00-0687 LF 4" x 4" x 3/16" Square Steel Tubing	33.52	8.40
For >100 To 250, Deduct	-0.84	
For >250 To 500, Deduct	-1.68	
For >500 To 1,000, Deduct	-2.80	
For >1,000, Deduct	-3.91	
For 316 Stainless Steel, Add	71.42	
For Aluminum, Add	4.02	
For Galvanized Steel, Add	13.84	
For 304 Stainless Steel, Add	63.61	
05 12 23 00-0688 LF 4-1/2" x 4-1/2" x 3/16" Square Steel Tubing.....	38.09	9.55
For >100 To 250, Deduct	-0.95	
For >250 To 500, Deduct	-1.91	
For >500 To 1,000, Deduct	-3.18	
For >1,000, Deduct	-4.45	
For 316 Stainless Steel, Add	81.15	
For Aluminum, Add	4.56	
For Galvanized Steel, Add	15.72	
For 304 Stainless Steel, Add	72.28	
05 12 23 00-0689 LF 5" x 5" x 3/16" Square Steel Tubing	42.61	10.68
For >100 To 250, Deduct	-1.07	
For >250 To 500, Deduct	-2.13	
For >500 To 1,000, Deduct	-3.55	
For >1,000, Deduct	-4.98	
For 316 Stainless Steel, Add	90.78	
For Aluminum, Add	5.11	
For Galvanized Steel, Add	17.59	
For 304 Stainless Steel, Add	80.85	
05 12 23 00-0690 LF 6" x 6" x 3/16" Square Steel Tubing	51.73	12.96
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-2.59	
For >500 To 1,000, Deduct	-4.32	
For >1,000, Deduct	-6.04	
For 316 Stainless Steel, Add	110.21	
For Aluminum, Add	6.20	
For Galvanized Steel, Add	21.35	
For 304 Stainless Steel, Add	98.15	
05 12 23 00-0691 1/4" Wall Thickness <small>(05 12 23 00-0658)</small>		
05 12 23 00-0692 LF 2" x 2" x 1/4" Square Steel Tubing	16.47	3.86
For >100 To 250, Deduct	-0.39	
For >250 To 500, Deduct	-0.80	
For >500 To 1,000, Deduct	-1.34	
For >1,000, Deduct	-1.88	
For 316 Stainless Steel, Add	36.22	
For Aluminum, Add	2.04	
For Galvanized Steel, Add	7.02	
For 304 Stainless Steel, Add	32.26	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0693	LF		2-1/2" x 2-1/2" x 1/4" Square Steel Tubing.....	21.64	5.07
			<i>For >100 To 250, Deduct</i>	-0.51	
			<i>For >250 To 500, Deduct</i>	-1.05	
			<i>For >500 To 1,000, Deduct</i>	-1.76	
			<i>For >1,000, Deduct</i>	-2.47	
			<i>For 316 Stainless Steel, Add</i>	47.58	
			<i>For Aluminum, Add</i>	2.68	
			<i>For Galvanized Steel, Add</i>	9.22	
			<i>For 304 Stainless Steel, Add</i>	42.38	
05 12 23 00-0694	LF		3" x 3" x 1/4" Square Steel Tubing.....	26.81	6.29
			<i>For >100 To 250, Deduct</i>	-0.63	
			<i>For >250 To 500, Deduct</i>	-1.30	
			<i>For >500 To 1,000, Deduct</i>	-2.18	
			<i>For >1,000, Deduct</i>	-3.06	
			<i>For 316 Stainless Steel, Add</i>	58.98	
			<i>For Aluminum, Add</i>	3.32	
			<i>For Galvanized Steel, Add</i>	11.43	
			<i>For 304 Stainless Steel, Add</i>	52.53	
05 12 23 00-0695	LF		3-1/2" x 3-1/2" x 1/4" Square Steel Tubing.....	31.98	7.50
			<i>For >100 To 250, Deduct</i>	-0.75	
			<i>For >250 To 500, Deduct</i>	-1.55	
			<i>For >500 To 1,000, Deduct</i>	-2.60	
			<i>For >1,000, Deduct</i>	-3.65	
			<i>For 316 Stainless Steel, Add</i>	70.34	
			<i>For Aluminum, Add</i>	3.96	
			<i>For Galvanized Steel, Add</i>	13.63	
			<i>For 304 Stainless Steel, Add</i>	62.64	
05 12 23 00-0696	LF		4" x 4" x 1/4" Square Steel Tubing.....	37.16	8.71
			<i>For >100 To 250, Deduct</i>	-0.87	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500 To 1,000, Deduct</i>	-3.02	
			<i>For >1,000, Deduct</i>	-4.24	
			<i>For 316 Stainless Steel, Add</i>	81.73	
			<i>For Aluminum, Add</i>	4.60	
			<i>For Galvanized Steel, Add</i>	15.83	
			<i>For 304 Stainless Steel, Add</i>	72.79	
05 12 23 00-0697	LF		4-1/2" x 4-1/2" x 1/4" Square Steel Tubing.....	42.34	9.92
			<i>For >100 To 250, Deduct</i>	-0.99	
			<i>For >250 To 500, Deduct</i>	-2.05	
			<i>For >500 To 1,000, Deduct</i>	-3.44	
			<i>For >1,000, Deduct</i>	-4.83	
			<i>For 316 Stainless Steel, Add</i>	93.12	
			<i>For Aluminum, Add</i>	5.24	
			<i>For Galvanized Steel, Add</i>	18.04	
			<i>For 304 Stainless Steel, Add</i>	82.94	
05 12 23 00-0698	LF		5" x 5" x 1/4" Square Steel Tubing.....	47.54	11.14
			<i>For >100 To 250, Deduct</i>	-1.12	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500 To 1,000, Deduct</i>	-3.86	
			<i>For >1,000, Deduct</i>	-5.42	
			<i>For 316 Stainless Steel, Add</i>	104.54	
			<i>For Aluminum, Add</i>	5.88	
			<i>For Galvanized Steel, Add</i>	20.26	
			<i>For 304 Stainless Steel, Add</i>	93.11	
05 12 23 00-0699	LF		6" x 6" x 1/4" Square Steel Tubing.....	57.88	13.57
			<i>For >100 To 250, Deduct</i>	-1.36	
			<i>For >250 To 500, Deduct</i>	-2.80	
			<i>For >500 To 1,000, Deduct</i>	-4.70	
			<i>For >1,000, Deduct</i>	-6.60	
			<i>For 316 Stainless Steel, Add</i>	127.30	
			<i>For Aluminum, Add</i>	7.16	
			<i>For Galvanized Steel, Add</i>	24.66	
			<i>For 304 Stainless Steel, Add</i>	113.37	
05 12 23 00-0700			Rectangular Steel Tubing (05 12 23 00-0657)		
05 12 23 00-0701			3/16" Wall Thickness (05 12 23 00-0700)		
05 12 23 00-0702	LF		3" x 2" x 3/16" Square Steel Tubing.....	19.90	4.99
			<i>For >100 To 250, Deduct</i>	-0.50	
			<i>For >250 To 500, Deduct</i>	-1.00	
			<i>For >500 To 1,000, Deduct</i>	-1.66	
			<i>For >1,000, Deduct</i>	-2.32	
			<i>For 316 Stainless Steel, Add</i>	42.40	
			<i>For Aluminum, Add</i>	2.39	
			<i>For Galvanized Steel, Add</i>	8.22	
			<i>For 304 Stainless Steel, Add</i>	37.76	
05 12 23 00-0703	LF		4" x 2" x 3/16" Square Steel Tubing.....	24.45	6.13
			<i>For >100 To 250, Deduct</i>	-0.61	
			<i>For >250 To 500, Deduct</i>	-1.22	
			<i>For >500 To 1,000, Deduct</i>	-2.04	
			<i>For >1,000, Deduct</i>	-2.86	
			<i>For 316 Stainless Steel, Add</i>	52.10	
			<i>For Aluminum, Add</i>	2.93	
			<i>For Galvanized Steel, Add</i>	10.09	
			<i>For 304 Stainless Steel, Add</i>	46.40	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0704 LF 4" x 3" x 3/16" Square Steel Tubing	29.01	7.27
For >100 To 250, Deduct	-0.73	
For >250 To 500, Deduct	-1.45	
For >500 To 1,000, Deduct	-2.42	
For >1,000, Deduct	-3.39	
For 316 Stainless Steel, Add	61.82	
For Aluminum, Add	3.48	
For Galvanized Steel, Add	11.98	
For 304 Stainless Steel, Add	55.06	
05 12 23 00-0705 LF 5" x 2" x 3/16" Square Steel Tubing	29.01	7.27
For >100 To 250, Deduct	-0.73	
For >250 To 500, Deduct	-1.45	
For >500 To 1,000, Deduct	-2.42	
For >1,000, Deduct	-3.39	
For 316 Stainless Steel, Add	61.82	
For Aluminum, Add	3.48	
For Galvanized Steel, Add	11.98	
For 304 Stainless Steel, Add	55.06	
05 12 23 00-0706 LF 5" x 3" x 3/16" Square Steel Tubing	33.52	8.40
For >100 To 250, Deduct	-0.84	
For >250 To 500, Deduct	-1.68	
For >500 To 1,000, Deduct	-2.80	
For >1,000, Deduct	-3.91	
For 316 Stainless Steel, Add	71.42	
For Aluminum, Add	4.02	
For Galvanized Steel, Add	13.84	
For 304 Stainless Steel, Add	63.61	
05 12 23 00-0707 LF 5" x 4" x 3/16" Square Steel Tubing	38.09	9.55
For >100 To 250, Deduct	-0.95	
For >250 To 500, Deduct	-1.91	
For >500 To 1,000, Deduct	-3.18	
For >1,000, Deduct	-4.45	
For 316 Stainless Steel, Add	81.15	
For Aluminum, Add	4.56	
For Galvanized Steel, Add	15.72	
For 304 Stainless Steel, Add	72.28	
05 12 23 00-0708 LF 6" x 2" x 3/16" Square Steel Tubing	33.52	8.40
For >100 To 250, Deduct	-0.84	
For >250 To 500, Deduct	-1.68	
For >500 To 1,000, Deduct	-2.80	
For >1,000, Deduct	-3.91	
For 316 Stainless Steel, Add	71.42	
For Aluminum, Add	4.02	
For Galvanized Steel, Add	13.84	
For 304 Stainless Steel, Add	63.61	
05 12 23 00-0709 LF 6" x 3" x 3/16" Square Steel Tubing	38.09	9.55
For >100 To 250, Deduct	-0.95	
For >250 To 500, Deduct	-1.91	
For >500 To 1,000, Deduct	-3.18	
For >1,000, Deduct	-4.45	
For 316 Stainless Steel, Add	81.15	
For Aluminum, Add	4.56	
For Galvanized Steel, Add	15.72	
For 304 Stainless Steel, Add	72.28	
05 12 23 00-0710 LF 6" x 4" x 3/16" Square Steel Tubing	42.61	10.68
For >100 To 250, Deduct	-1.07	
For >250 To 500, Deduct	-2.13	
For >500 To 1,000, Deduct	-3.55	
For >1,000, Deduct	-4.98	
For 316 Stainless Steel, Add	90.78	
For Aluminum, Add	5.11	
For Galvanized Steel, Add	17.59	
For 304 Stainless Steel, Add	80.85	
05 12 23 00-0711 1/4" Wall Thickness (05 12 23 00-0700)		
05 12 23 00-0712 LF 3" x 2" x 1/4" Square Steel Tubing	21.64	5.07
For >100 To 250, Deduct	-0.51	
For >250 To 500, Deduct	-1.05	
For >500 To 1,000, Deduct	-1.76	
For >1,000, Deduct	-2.47	
For 316 Stainless Steel, Add	47.58	
For Aluminum, Add	2.68	
For Galvanized Steel, Add	9.22	
For 304 Stainless Steel, Add	42.38	
05 12 23 00-0713 LF 4" x 2" x 1/4" Square Steel Tubing	26.81	6.29
For >100 To 250, Deduct	-0.63	
For >250 To 500, Deduct	-1.30	
For >500 To 1,000, Deduct	-2.18	
For >1,000, Deduct	-3.06	
For 316 Stainless Steel, Add	58.98	
For Aluminum, Add	3.32	
For Galvanized Steel, Add	11.43	
For 304 Stainless Steel, Add	52.53	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0714	LF		4" x 3" x 1/4" Square Steel Tubing	31.98	7.50
			<i>For >100 To 250, Deduct</i>	-0.75	
			<i>For >250 To 500, Deduct</i>	-1.55	
			<i>For >500 To 1,000, Deduct</i>	-2.60	
			<i>For >1,000, Deduct</i>	-3.65	
			<i>For 316 Stainless Steel, Add</i>	70.34	
			<i>For Aluminum, Add</i>	3.96	
			<i>For Galvanized Steel, Add</i>	13.63	
			<i>For 304 Stainless Steel, Add</i>	62.64	
05 12 23 00-0715	LF		5" x 2" x 1/4" Square Steel Tubing	31.98	7.50
			<i>For >100 To 250, Deduct</i>	-0.75	
			<i>For >250 To 500, Deduct</i>	-1.55	
			<i>For >500 To 1,000, Deduct</i>	-2.60	
			<i>For >1,000, Deduct</i>	-3.65	
			<i>For 316 Stainless Steel, Add</i>	70.34	
			<i>For Aluminum, Add</i>	3.96	
			<i>For Galvanized Steel, Add</i>	13.63	
			<i>For 304 Stainless Steel, Add</i>	62.64	
05 12 23 00-0716	LF		5" x 3" x 1/4" Square Steel Tubing	37.16	8.71
			<i>For >100 To 250, Deduct</i>	-0.87	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500 To 1,000, Deduct</i>	-3.02	
			<i>For >1,000, Deduct</i>	-4.24	
			<i>For 316 Stainless Steel, Add</i>	81.73	
			<i>For Aluminum, Add</i>	4.60	
			<i>For Galvanized Steel, Add</i>	15.83	
			<i>For 304 Stainless Steel, Add</i>	72.79	
05 12 23 00-0717	LF		5" x 4" x 1/4" Square Steel Tubing	42.34	9.92
			<i>For >100 To 250, Deduct</i>	-0.99	
			<i>For >250 To 500, Deduct</i>	-2.05	
			<i>For >500 To 1,000, Deduct</i>	-3.44	
			<i>For >1,000, Deduct</i>	-4.83	
			<i>For 316 Stainless Steel, Add</i>	93.12	
			<i>For Aluminum, Add</i>	5.24	
			<i>For Galvanized Steel, Add</i>	18.04	
			<i>For 304 Stainless Steel, Add</i>	82.94	
05 12 23 00-0718	LF		6" x 2" x 1/4" Square Steel Tubing	37.16	8.71
			<i>For >100 To 250, Deduct</i>	-0.87	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500 To 1,000, Deduct</i>	-3.02	
			<i>For >1,000, Deduct</i>	-4.24	
			<i>For 316 Stainless Steel, Add</i>	81.73	
			<i>For Aluminum, Add</i>	4.60	
			<i>For Galvanized Steel, Add</i>	15.83	
			<i>For 304 Stainless Steel, Add</i>	72.79	
05 12 23 00-0719	LF		6" x 3" x 1/4" Square Steel Tubing	42.34	9.92
			<i>For >100 To 250, Deduct</i>	-0.99	
			<i>For >250 To 500, Deduct</i>	-2.05	
			<i>For >500 To 1,000, Deduct</i>	-3.44	
			<i>For >1,000, Deduct</i>	-4.83	
			<i>For 316 Stainless Steel, Add</i>	93.12	
			<i>For Aluminum, Add</i>	5.24	
			<i>For Galvanized Steel, Add</i>	18.04	
			<i>For 304 Stainless Steel, Add</i>	82.94	
05 12 23 00-0720	LF		6" x 4" x 1/4" Square Steel Tubing	47.54	11.14
			<i>For >100 To 250, Deduct</i>	-1.12	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500 To 1,000, Deduct</i>	-3.86	
			<i>For >1,000, Deduct</i>	-5.42	
			<i>For 316 Stainless Steel, Add</i>	104.54	
			<i>For Aluminum, Add</i>	5.88	
			<i>For Galvanized Steel, Add</i>	20.26	
			<i>For 304 Stainless Steel, Add</i>	93.11	
05 12 23 00-0721			Round Steel Tubing <small>(05 12 23 00-0657)</small>		
05 12 23 00-0722			0.065" Wall Thickness <small>(05 12 23 00-0721)</small>		
05 12 23 00-0723	LF		1" Diameter x 0.065" Round Steel Tubing	4.41	0.93
			<i>For >100 To 250, Deduct</i>	-0.09	
			<i>For >250 To 500, Deduct</i>	-0.20	
			<i>For >500 To 1,000, Deduct</i>	-0.34	
			<i>For >1,000, Deduct</i>	-0.48	
			<i>For 316 Stainless Steel, Add</i>	10.18	
			<i>For Aluminum, Add</i>	0.57	
			<i>For Galvanized Steel, Add</i>	1.97	
			<i>For 304 Stainless Steel, Add</i>	9.06	
05 12 23 00-0724	LF		1-1/4" Diameter x 0.065" Round Steel Tubing	5.59	1.17
			<i>For >100 To 250, Deduct</i>	-0.12	
			<i>For >250 To 500, Deduct</i>	-0.26	
			<i>For >500 To 1,000, Deduct</i>	-0.44	
			<i>For >1,000, Deduct</i>	-0.61	
			<i>For 316 Stainless Steel, Add</i>	12.90	
			<i>For Aluminum, Add</i>	0.73	
			<i>For Galvanized Steel, Add</i>	2.50	
			<i>For 304 Stainless Steel, Add</i>	11.49	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0725	LF		1-1/2" Diameter x 0.065" Round Steel Tubing	6.78	1.42
			<i>For >100 To 250, Deduct</i>	-0.14	
			<i>For >250 To 500, Deduct</i>	-0.31	
			<i>For >500 To 1,000, Deduct</i>	-0.53	
			<i>For >1,000, Deduct</i>	-0.75	
			<i>For 316 Stainless Steel, Add</i>	15.62	
			<i>For Aluminum, Add</i>	0.88	
			<i>For Galvanized Steel, Add</i>	3.03	
			<i>For 304 Stainless Steel, Add</i>	13.91	
05 12 23 00-0726	LF		2" Diameter x 0.065" Round Steel Tubing.....	9.13	1.92
			<i>For >100 To 250, Deduct</i>	-0.19	
			<i>For >250 To 500, Deduct</i>	-0.42	
			<i>For >500 To 1,000, Deduct</i>	-0.71	
			<i>For >1,000, Deduct</i>	-1.00	
			<i>For 316 Stainless Steel, Add</i>	21.06	
			<i>For Aluminum, Add</i>	1.18	
			<i>For Galvanized Steel, Add</i>	4.08	
			<i>For 304 Stainless Steel, Add</i>	18.75	
05 12 23 00-0727	LF		2-1/2" Diameter x 0.065" Round Steel Tubing	11.50	2.41
			<i>For >100 To 250, Deduct</i>	-0.24	
			<i>For >250 To 500, Deduct</i>	-0.53	
			<i>For >500 To 1,000, Deduct</i>	-0.90	
			<i>For >1,000, Deduct</i>	-1.27	
			<i>For 316 Stainless Steel, Add</i>	26.50	
			<i>For Aluminum, Add</i>	1.49	
			<i>For Galvanized Steel, Add</i>	5.13	
			<i>For 304 Stainless Steel, Add</i>	23.60	
05 12 23 00-0728	LF		3" Diameter x 0.065" Round Steel Tubing.....	13.85	2.90
			<i>For >100 To 250, Deduct</i>	-0.29	
			<i>For >250 To 500, Deduct</i>	-0.64	
			<i>For >500 To 1,000, Deduct</i>	-1.08	
			<i>For >1,000, Deduct</i>	-1.52	
			<i>For 316 Stainless Steel, Add</i>	31.94	
			<i>For Aluminum, Add</i>	1.80	
			<i>For Galvanized Steel, Add</i>	6.19	
			<i>For 304 Stainless Steel, Add</i>	28.44	
05 12 23 00-0729	LF		3-1/2" Diameter x 0.065" Round Steel Tubing	16.23	3.41
			<i>For >100 To 250, Deduct</i>	-0.34	
			<i>For >250 To 500, Deduct</i>	-0.75	
			<i>For >500 To 1,000, Deduct</i>	-1.27	
			<i>For >1,000, Deduct</i>	-1.78	
			<i>For 316 Stainless Steel, Add</i>	37.41	
			<i>For Aluminum, Add</i>	2.10	
			<i>For Galvanized Steel, Add</i>	7.25	
			<i>For 304 Stainless Steel, Add</i>	33.32	
05 12 23 00-0730	LF		4" Diameter x 0.065" Round Steel Tubing.....	18.59	3.90
			<i>For >100 To 250, Deduct</i>	-0.39	
			<i>For >250 To 500, Deduct</i>	-0.85	
			<i>For >500 To 1,000, Deduct</i>	-1.45	
			<i>For >1,000, Deduct</i>	-2.04	
			<i>For 316 Stainless Steel, Add</i>	42.85	
			<i>For Aluminum, Add</i>	2.41	
			<i>For Galvanized Steel, Add</i>	8.30	
			<i>For 304 Stainless Steel, Add</i>	38.16	
05 12 23 00-0731			0.083" Wall Thickness (05 12 23 00-0721)		
05 12 23 00-0732	LF		1" Diameter x 0.083" Round Steel Tubing.....	4.79	1.02
			<i>For >100 To 250, Deduct</i>	-0.10	
			<i>For >250 To 500, Deduct</i>	-0.22	
			<i>For >500 To 1,000, Deduct</i>	-0.37	
			<i>For >1,000, Deduct</i>	-0.53	
			<i>For 316 Stainless Steel, Add</i>	11.01	
			<i>For Aluminum, Add</i>	0.62	
			<i>For Galvanized Steel, Add</i>	2.13	
			<i>For 304 Stainless Steel, Add</i>	9.80	
05 12 23 00-0733	LF		1-1/4" Diameter x 0.083" Round Steel Tubing	6.10	1.29
			<i>For >100 To 250, Deduct</i>	-0.13	
			<i>For >250 To 500, Deduct</i>	-0.28	
			<i>For >500 To 1,000, Deduct</i>	-0.48	
			<i>For >1,000, Deduct</i>	-0.67	
			<i>For 316 Stainless Steel, Add</i>	14.02	
			<i>For Aluminum, Add</i>	0.79	
			<i>For Galvanized Steel, Add</i>	2.72	
			<i>For 304 Stainless Steel, Add</i>	12.48	
05 12 23 00-0734	LF		1-1/2" Diameter x 0.083" Round Steel Tubing	7.41	1.57
			<i>For >100 To 250, Deduct</i>	-0.16	
			<i>For >250 To 500, Deduct</i>	-0.34	
			<i>For >500 To 1,000, Deduct</i>	-0.58	
			<i>For >1,000, Deduct</i>	-0.82	
			<i>For 316 Stainless Steel, Add</i>	17.02	
			<i>For Aluminum, Add</i>	0.96	
			<i>For Galvanized Steel, Add</i>	3.30	
			<i>For 304 Stainless Steel, Add</i>	15.16	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0735 LF 2" Diameter x 0.083" Round Steel Tubing.....	10.02	2.12
For >100 To 250, Deduct	-0.21	
For >250 To 500, Deduct	-0.46	
For >500 To 1,000, Deduct	-0.78	
For >1,000, Deduct	-1.11	
For 316 Stainless Steel, Add	23.01	
For Aluminum, Add	1.29	
For Galvanized Steel, Add	4.46	
For 304 Stainless Steel, Add	20.49	
05 12 23 00-0736 LF 2-1/2" Diameter x 0.083" Round Steel Tubing.....	12.64	2.67
For >100 To 250, Deduct	-0.27	
For >250 To 500, Deduct	-0.58	
For >500 To 1,000, Deduct	-0.99	
For >1,000, Deduct	-1.39	
For 316 Stainless Steel, Add	29.02	
For Aluminum, Add	1.63	
For Galvanized Steel, Add	5.62	
For 304 Stainless Steel, Add	25.85	
05 12 23 00-0737 LF 3" Diameter x 0.083" Round Steel Tubing.....	15.25	3.23
For >100 To 250, Deduct	-0.32	
For >250 To 500, Deduct	-0.70	
For >500 To 1,000, Deduct	-1.19	
For >1,000, Deduct	-1.68	
For 316 Stainless Steel, Add	35.01	
For Aluminum, Add	1.97	
For Galvanized Steel, Add	6.78	
For 304 Stainless Steel, Add	31.18	
05 12 23 00-0738 LF 3-1/2" Diameter x 0.083" Round Steel Tubing.....	17.86	3.78
For >100 To 250, Deduct	-0.38	
For >250 To 500, Deduct	-0.82	
For >500 To 1,000, Deduct	-1.40	
For >1,000, Deduct	-1.97	
For 316 Stainless Steel, Add	41.02	
For Aluminum, Add	2.31	
For Galvanized Steel, Add	7.95	
For 304 Stainless Steel, Add	36.54	
05 12 23 00-0739 LF 4" Diameter x 0.083" Round Steel Tubing.....	20.48	4.34
For >100 To 250, Deduct	-0.43	
For >250 To 500, Deduct	-0.95	
For >500 To 1,000, Deduct	-1.60	
For >1,000, Deduct	-2.26	
For 316 Stainless Steel, Add	47.04	
For Aluminum, Add	2.65	
For Galvanized Steel, Add	9.11	
For 304 Stainless Steel, Add	41.90	
05 12 23 00-0740 0.125" Wall Thickness (05 12 23 00-0721)		
05 12 23 00-0741 LF 2" Diameter x 0.125" Round Steel Tubing.....	10.63	2.68
For >100 To 250, Deduct	-0.27	
For >250 To 500, Deduct	-0.53	
For >500 To 1,000, Deduct	-0.89	
For >1,000, Deduct	-1.24	
For 316 Stainless Steel, Add	22.59	
For Aluminum, Add	1.27	
For Galvanized Steel, Add	4.38	
For 304 Stainless Steel, Add	20.12	
05 12 23 00-0742 LF 2-1/2" Diameter x 0.125" Round Steel Tubing.....	13.47	3.40
For >100 To 250, Deduct	-0.34	
For >250 To 500, Deduct	-0.68	
For >500 To 1,000, Deduct	-1.13	
For >1,000, Deduct	-1.58	
For 316 Stainless Steel, Add	28.61	
For Aluminum, Add	1.61	
For Galvanized Steel, Add	5.54	
For 304 Stainless Steel, Add	25.48	
05 12 23 00-0743 LF 3" Diameter x 0.125" Round Steel Tubing.....	16.30	4.10
For >100 To 250, Deduct	-0.41	
For >250 To 500, Deduct	-0.82	
For >500 To 1,000, Deduct	-1.36	
For >1,000, Deduct	-1.91	
For 316 Stainless Steel, Add	34.62	
For Aluminum, Add	1.95	
For Galvanized Steel, Add	6.71	
For 304 Stainless Steel, Add	30.84	
05 12 23 00-0744 LF 3-1/2" Diameter x 0.125" Round Steel Tubing.....	19.13	4.82
For >100 To 250, Deduct	-0.48	
For >250 To 500, Deduct	-0.96	
For >500 To 1,000, Deduct	-1.60	
For >1,000, Deduct	-2.24	
For 316 Stainless Steel, Add	40.64	
For Aluminum, Add	2.29	
For Galvanized Steel, Add	7.87	
For 304 Stainless Steel, Add	36.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0745 LF 4" Diameter x 0.125" Round Steel Tubing.....	21.97	5.54
For >100 To 250, Deduct	-0.55	
For >250 To 500, Deduct	-1.10	
For >500 To 1,000, Deduct	-1.84	
For >1,000, Deduct	-2.57	
For 316 Stainless Steel, Add	46.69	
For Aluminum, Add	2.63	
For Galvanized Steel, Add	9.05	
For 304 Stainless Steel, Add	41.58	
05 12 23 00-0746 Flat Steel Bar <small>(05 12 23 00-0408)</small>		
05 12 23 00-0747 1/8" Thick <small>(05 12 23 00-0746)</small>		
05 12 23 00-0748 LF 1/8" Thick x 1" Wide Flat Steel Bar	2.97	1.33
For 316 Stainless Steel, Add	3.10	
For Aluminum, Add	0.17	
For Galvanized Steel, Add	0.60	
For 304 Stainless Steel, Add	2.76	
05 12 23 00-0749 LF 1/8" Thick x 2" Wide Flat Steel Bar	4.62	2.00
For 316 Stainless Steel, Add	5.18	
For Aluminum, Add	0.29	
For Galvanized Steel, Add	1.00	
For 304 Stainless Steel, Add	4.62	
05 12 23 00-0750 LF 1/8" Thick x 4" Wide Flat Steel Bar	7.17	2.81
For 316 Stainless Steel, Add	9.41	
For Aluminum, Add	0.53	
For Galvanized Steel, Add	1.82	
For 304 Stainless Steel, Add	8.38	
05 12 23 00-0751 LF 1/8" Thick x 6" Wide Flat Steel Bar	9.71	3.82
For 316 Stainless Steel, Add	12.70	
For Aluminum, Add	0.71	
For Galvanized Steel, Add	2.46	
For 304 Stainless Steel, Add	11.31	
05 12 23 00-0752 3/16" Thick <small>(05 12 23 00-0746)</small>		
05 12 23 00-0753 LF 3/16" Thick x 1" Wide Flat Steel Bar	3.96	1.65
For 316 Stainless Steel, Add	4.74	
For Aluminum, Add	0.27	
For Galvanized Steel, Add	0.92	
For 304 Stainless Steel, Add	4.22	
05 12 23 00-0754 LF 3/16" Thick x 2" Wide Flat Steel Bar	6.29	2.48
For 316 Stainless Steel, Add	8.19	
For Aluminum, Add	0.46	
For Galvanized Steel, Add	1.59	
For 304 Stainless Steel, Add	7.30	
05 12 23 00-0755 LF 3/16" Thick x 4" Wide Flat Steel Bar	8.60	2.85
For 316 Stainless Steel, Add	13.79	
For Aluminum, Add	0.78	
For Galvanized Steel, Add	2.67	
For 304 Stainless Steel, Add	12.28	
05 12 23 00-0756 LF 3/16" Thick x 6" Wide Flat Steel Bar	11.90	3.96
For 316 Stainless Steel, Add	19.07	
For Aluminum, Add	1.07	
For Galvanized Steel, Add	3.70	
For 304 Stainless Steel, Add	16.99	
05 12 23 00-0757 1/4" Thick <small>(05 12 23 00-0746)</small>		
05 12 23 00-0758 LF 1/4" Thick x 1" Wide Flat Steel Bar	4.08	1.75
For 316 Stainless Steel, Add	4.67	
For Aluminum, Add	0.26	
For Galvanized Steel, Add	0.91	
For 304 Stainless Steel, Add	4.16	
05 12 23 00-0759 LF 1/4" Thick x 2" Wide Flat Steel Bar	6.90	2.62
For 316 Stainless Steel, Add	9.47	
For Aluminum, Add	0.53	
For Galvanized Steel, Add	1.84	
For 304 Stainless Steel, Add	8.44	
05 12 23 00-0760 LF 1/4" Thick x 4" Wide Flat Steel Bar	10.23	3.00
For 316 Stainless Steel, Add	18.34	
For Aluminum, Add	1.03	
For Galvanized Steel, Add	3.55	
For 304 Stainless Steel, Add	16.33	
05 12 23 00-0761 LF 1/4" Thick x 6" Wide Flat Steel Bar	14.79	4.44
For 316 Stainless Steel, Add	25.98	
For Aluminum, Add	1.46	
For Galvanized Steel, Add	5.03	
For 304 Stainless Steel, Add	23.14	
05 12 23 00-0762 3/8" Thick <small>(05 12 23 00-0746)</small>		

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0763 LF 3/8" Thick x 1" Wide Flat Steel Bar	5.25	1.97
For 316 Stainless Steel, Add	7.36	
For Aluminum, Add	0.41	
For Galvanized Steel, Add	1.43	
For 304 Stainless Steel, Add	6.56	
05 12 23 00-0764 LF 3/8" Thick x 2" Wide Flat Steel Bar	8.68	2.95
For 316 Stainless Steel, Add	13.57	
For Aluminum, Add	0.76	
For Galvanized Steel, Add	2.63	
For 304 Stainless Steel, Add	12.08	
05 12 23 00-0765 LF 3/8" Thick x 4" Wide Flat Steel Bar	13.53	3.37
For 316 Stainless Steel, Add	27.10	
For Aluminum, Add	1.52	
For Galvanized Steel, Add	5.25	
For 304 Stainless Steel, Add	24.14	
05 12 23 00-0766 LF 3/8" Thick x 6" Wide Flat Steel Bar	19.42	4.98
For 316 Stainless Steel, Add	38.14	
For Aluminum, Add	2.15	
For Galvanized Steel, Add	7.39	
For 304 Stainless Steel, Add	33.97	
05 12 23 00-0767 1/2" Thick <small>(05 12 23 00-0746)</small>		
05 12 23 00-0768 LF 1/2" Thick x 1" Wide Flat Steel Bar	6.20	2.16
For 316 Stainless Steel, Add	9.41	
For Aluminum, Add	0.53	
For Galvanized Steel, Add	1.82	
For 304 Stainless Steel, Add	8.38	
05 12 23 00-0769 LF 1/2" Thick x 2" Wide Flat Steel Bar	10.29	3.26
For 316 Stainless Steel, Add	17.31	
For Aluminum, Add	0.97	
For Galvanized Steel, Add	3.35	
For 304 Stainless Steel, Add	15.42	
05 12 23 00-0770 LF 1/2" Thick x 4" Wide Flat Steel Bar	14.78	3.70
For 316 Stainless Steel, Add	29.47	
For Aluminum, Add	1.66	
For Galvanized Steel, Add	5.71	
For 304 Stainless Steel, Add	26.25	
05 12 23 00-0771 LF 1/2" Thick x 6" Wide Flat Steel Bar	26.62	5.49
For 316 Stainless Steel, Add	58.82	
For Aluminum, Add	3.31	
For Galvanized Steel, Add	11.40	
For 304 Stainless Steel, Add	52.38	
05 12 23 00-0772 Flat Steel Plate <small>(05 12 23 00-0408)</small>		
05 12 23 00-0773 SF 1/8" Thick Flat Steel Plate	15.54	5.74
For 316 Stainless Steel, Add	22.18	
For Aluminum, Add	1.25	
For Galvanized Steel, Add	4.30	
For 304 Stainless Steel, Add	19.75	
05 12 23 00-0774 SF 3/16" Thick Flat Steel Plate	17.59	5.94
For 316 Stainless Steel, Add	27.74	
For Aluminum, Add	1.56	
For Galvanized Steel, Add	5.38	
For 304 Stainless Steel, Add	24.71	
05 12 23 00-0775 SF 1/4" Thick Flat Steel Plate	21.05	6.66
For 316 Stainless Steel, Add	35.39	
For Aluminum, Add	1.99	
For Galvanized Steel, Add	6.86	
For 304 Stainless Steel, Add	31.52	
05 12 23 00-0776 SF 3/8" Thick Flat Steel Plate	28.59	7.49
For 316 Stainless Steel, Add	55.55	
For Aluminum, Add	3.12	
For Galvanized Steel, Add	10.76	
For 304 Stainless Steel, Add	49.48	
05 12 23 00-0777 SF 1/2" Thick Flat Steel Plate	33.99	8.23
For 316 Stainless Steel, Add	69.22	
For Aluminum, Add	3.89	
For Galvanized Steel, Add	13.41	
For 304 Stainless Steel, Add	61.65	
05 12 23 00-0778 SF 3/4" Thick Flat Steel Plate	56.01	10.20
For 316 Stainless Steel, Add	129.79	
For Aluminum, Add	7.30	
For Galvanized Steel, Add	25.15	
For 304 Stainless Steel, Add	115.60	
05 12 23 00-0779 SF 1" Thick Flat Steel Plate	74.85	12.75
For 316 Stainless Steel, Add	177.73	
For Aluminum, Add	10.00	
For Galvanized Steel, Add	34.43	
For 304 Stainless Steel, Add	158.29	

05 14 Structural Aluminum Framing (05 10)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 14 13 Architecturally-Exposed Structural Aluminum Framing (05 14)		
05 14 13 00-0001 Rolled Or Plate Shapes (05 14 13)		
Note: 1" through 10" member.		
05 14 13 00-0002 LB Structural Aluminum, Up To 2,000 LB / Order 1" To 10" Rolled / Plate Structural Members	5.92	0.77
05 14 13 00-0003 LB Structural Aluminum, >2,000 - 9,999 LB / Order 1" To 10" Rolled / Plate Structural Members	5.24	0.72
05 14 13 00-0004 Aluminum Extrusions (05 14 13)		
05 14 13 00-0005 LB Aluminum Extrusions, Stock Shapes 1" To 10" Rolled / Plate Structural Members	10.55	3.19
05 14 13 00-0006 LB Aluminum Extrusions, Custom Shapes 1" To 10" Rolled / Plate Structural Members	11.07	3.19
05 14 13 00-0007 Aluminum Tubing (05 14 13)		
05 14 13 00-0008 LB Aluminum Extrusions, Tubular Shapes 1" To 10" Rolled / Plate Structural Members	11.73	3.24
05 14 13 00-0009 LF 1" x 1" Aluminum Tubing, 1/8" Wall Thickness	13.25	5.23
05 14 13 00-0010 LF 1-1/4" x 1-1/4" Aluminum Tubing, 1/8" Wall Thickness	15.29	5.71
05 14 13 00-0011 LF 1-1/2" x 1-1/2" Aluminum Tubing, 1/8" Wall Thickness	17.68	6.67
05 14 13 00-0012 LF 2" x 2" Aluminum Tubing, 1/8" Wall Thickness	20.10	7.14
05 14 13 00-0013 LF 4" x 4" Aluminum Tubing, 1/4" Wall Thickness	44.92	9.04
05 14 13 00-0014 LF 2" x 5" Aluminum Tubing, 1/4" Wall Thickness	37.59	8.09
05 14 13 00-0015 Columns (05 14 13)		
Note: Baked on paint finish, load bearing.		
05 14 13 00-0016 Round Columns (05 14 13 00-0015)		
05 14 13 00-0017 LF 6" Diameter Aluminum Column	35.85	6.19
05 14 13 00-0018 LF 8" Diameter Aluminum Column	47.65	8.88
05 14 13 00-0019 LF 10" Diameter Aluminum Column	57.67	9.98
05 14 13 00-0020 LF 12" Diameter Aluminum Column	84.12	10.45
05 14 13 00-0021 LF 15" Diameter Aluminum Column	106.71	12.12
05 14 13 00-0022 EA 6" Diameter Aluminum Base And Cap	68.80	11.56
05 14 13 00-0023 EA 8" Diameter Aluminum Base And Cap	78.37	12.49
05 14 13 00-0024 EA 10" Diameter Aluminum Base And Cap	97.92	13.87
05 14 13 00-0025 EA 12" Diameter Aluminum Base And Cap	164.45	14.80
05 14 13 00-0026 EA 15" Diameter Aluminum Base And Cap	248.41	16.19
05 14 13 00-0027 Octagonal Columns (05 14 13 00-0015)		
05 14 13 00-0028 LF 6" Diameter Aluminum Column	39.19	6.19
05 14 13 00-0029 LF 8" Diameter Aluminum Column	53.62	8.88
05 14 13 00-0030 LF 10" Diameter Aluminum Column	65.21	9.98
05 14 13 00-0031 LF 12" Diameter Aluminum Column	96.77	10.45
05 14 13 00-0032 LF 15" Diameter Aluminum Column	123.22	12.12
05 14 13 00-0033 EA 6" Diameter Aluminum Base And Cap	77.94	11.56
05 14 13 00-0034 EA 8" Diameter Aluminum Base And Cap	89.05	12.49
05 14 13 00-0035 EA 10" Diameter Aluminum Base And Cap	111.96	13.87
05 14 13 00-0036 EA 12" Diameter Aluminum Base And Cap	191.41	14.80
05 14 13 00-0037 EA 15" Diameter Aluminum Base And Cap	291.61	16.19
05 14 13 00-0038 Fluted Columns (05 14 13 00-0015)		
05 14 13 00-0039 LF 6" Diameter Aluminum Column	43.23	6.19
05 14 13 00-0040 LF 8" Diameter Aluminum Column	58.99	8.88
05 14 13 00-0041 LF 10" Diameter Aluminum Column	72.00	9.98
05 14 13 00-0042 LF 12" Diameter Aluminum Column	108.17	10.45
05 14 13 00-0043 LF 15" Diameter Aluminum Column	138.08	12.12
05 14 13 00-0044 EA 6" Diameter Aluminum Base And Cap	86.16	11.56
05 14 13 00-0045 EA 8" Diameter Aluminum Base And Cap	98.66	12.49
05 14 13 00-0046 EA 10" Diameter Aluminum Base And Cap	124.59	13.87
05 14 13 00-0047 EA 12" Diameter Aluminum Base And Cap	215.69	14.80
05 14 13 00-0048 EA 15" Diameter Aluminum Base And Cap	330.50	16.19
05 14 13 00-0049 Square Columns (05 14 13 00-0015)		
05 14 13 00-0050 LF 6" Aluminum Column	45.99	6.19
05 14 13 00-0051 LF 8" Aluminum Column	62.67	8.88
05 14 13 00-0052 LF 10" Aluminum Column	76.64	9.98
05 14 13 00-0053 LF 12" Aluminum Column	115.96	10.45
05 14 13 00-0054 LF 15" Aluminum Column	148.24	12.12
05 14 13 00-0055 EA 6" Aluminum Base And Cap	91.79	11.56
05 14 13 00-0056 EA 8" Aluminum Base And Cap	105.23	12.49
05 14 13 00-0057 EA 10" Aluminum Base And Cap	133.23	13.87
05 14 13 00-0058 EA 12" Aluminum Base And Cap	232.29	14.80
05 14 13 00-0059 EA 15" Aluminum Base And Cap	357.09	16.19
05 14 13 00-0060 Ornamental Or Decorative Cap And Bases (05 14 13 00-0015)		
05 14 13 00-0061 EA 8" Corinthian Capital And Base	492.83	13.87

05 Metals**05 10 Structural Metal Framing****05 14 Structural Aluminum Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 14 13 00-0062 EA 10" Corinthian Capital And Base.....	723.04	16.19
05 14 13 00-0063 EA 12" Corinthian Capital And Base.....	1,140.07	18.50
05 14 13 00-0064 EA 8" Scamozzi Capital And Base.....	248.36	13.87
05 14 13 00-0065 EA 10" Scamozzi Capital And Base.....	331.50	16.19
05 14 13 00-0066 EA 12" Scamozzi Capital And Base.....	659.49	18.50

05 15 Wire Rope Assemblies (05 10)**05 15 16 Steel Wire Rope Assemblies** (05 15)**05 15 16 00-0001 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope** (05 15 16)

05 15 16 00-0002 LF 1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.11	0.09
For >500, Deduct	-0.19	
05 15 16 00-0003 LF 5/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.51	0.09
For >500, Deduct	-0.25	
05 15 16 00-0004 LF 3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.80	0.19
For >500, Deduct	-0.29	
05 15 16 00-0005 LF 7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.19	0.19
For >500, Deduct	-0.34	
05 15 16 00-0006 LF 1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.57	0.28
For >500, Deduct	-0.38	
05 15 16 00-0007 LF 9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.15	0.38
For >500, Deduct	-0.46	
05 15 16 00-0008 LF 5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.77	0.38
For >500, Deduct	-0.55	
05 15 16 00-0009 LF 3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	5.26	0.67
For >500, Deduct	-0.75	
05 15 16 00-0010 LF 7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	7.07	0.76
For >500, Deduct	-1.01	
05 15 16 00-0011 LF 1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	8.85	1.05
For >500, Deduct	-1.23	
05 15 16 00-0012 LF 1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	10.94	1.33
For >500, Deduct	-1.52	
05 15 16 00-0013 LF 1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	13.34	1.61
For >500, Deduct	-1.85	

05 15 16 00-0014 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope (05 15 16)

05 15 16 00-0015 LF 1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.30	0.09
For >500, Deduct	-0.23	
05 15 16 00-0016 LF 5/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.69	0.09
For >500, Deduct	-0.29	
05 15 16 00-0017 LF 3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.11	0.19
For >500, Deduct	-0.35	
05 15 16 00-0018 LF 7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.43	0.19
For >500, Deduct	-0.39	
05 15 16 00-0019 LF 1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.91	0.28
For >500, Deduct	-0.45	
05 15 16 00-0020 LF 9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.38	0.38
For >500, Deduct	-0.51	
05 15 16 00-0021 LF 5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.96	0.38
For >500, Deduct	-0.59	
05 15 16 00-0022 LF 3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	5.82	0.67
For >500, Deduct	-0.86	
05 15 16 00-0023 LF 7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	7.48	0.76
For >500, Deduct	-1.09	
05 15 16 00-0024 LF 1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	9.24	1.05
For >500, Deduct	-1.32	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 15 16 00-0025	LF		1-1/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	11.83	1.33
				<i>For >500, Deduct</i>	-1.69	
	05 15 16 00-0026	LF		1-1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	14.38	1.61
				<i>For >500, Deduct</i>	-2.06	
	05 15 16 00-0027			6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope		
				<i>(05 15 16)</i>		
	05 15 16 00-0028	LF		1/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.04	0.09
				<i>For >500, Deduct</i>	-0.18	
	05 15 16 00-0029	LF		5/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.42	0.09
				<i>For >500, Deduct</i>	-0.23	
	05 15 16 00-0030	LF		3/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.70	0.19
				<i>For >500, Deduct</i>	-0.27	
	05 15 16 00-0031	LF		7/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	2.02	0.19
				<i>For >500, Deduct</i>	-0.30	
	05 15 16 00-0032	LF		1/2" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	2.45	0.28
				<i>For >500, Deduct</i>	-0.36	
	05 15 16 00-0033	LF		9/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	3.10	0.38
				<i>For >500, Deduct</i>	-0.45	
	05 15 16 00-0034	LF		5/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	3.64	0.38
				<i>For >500, Deduct</i>	-0.52	
	05 15 16 00-0035	LF		3/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	5.13	0.67
				<i>For >500, Deduct</i>	-0.72	
	05 15 16 00-0036	LF		7/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	6.34	0.76
				<i>For >500, Deduct</i>	-0.86	
	05 15 16 00-0037	LF		1" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	8.08	1.05
				<i>For >500, Deduct</i>	-1.08	
	05 15 16 00-0038			6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope		
				<i>(05 15 16)</i>		
	05 15 16 00-0039	LF		1/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.03	0.09
				<i>For >500, Deduct</i>	-0.17	
	05 15 16 00-0040	LF		5/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.37	0.09
				<i>For >500, Deduct</i>	-0.22	
	05 15 16 00-0041	LF		3/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.70	0.19
				<i>For >500, Deduct</i>	-0.27	
	05 15 16 00-0042	LF		7/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.02	0.19
				<i>For >500, Deduct</i>	-0.30	
	05 15 16 00-0043	LF		1/2" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.55	0.28
				<i>For >500, Deduct</i>	-0.38	
	05 15 16 00-0044	LF		9/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.05	0.38
				<i>For >500, Deduct</i>	-0.44	
	05 15 16 00-0045	LF		5/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.82	0.38
				<i>For >500, Deduct</i>	-0.56	
	05 15 16 00-0046	LF		3/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	5.36	0.67
				<i>For >500, Deduct</i>	-0.77	
	05 15 16 00-0047	LF		7/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	7.02	0.76
				<i>For >500, Deduct</i>	-1.00	
	05 15 16 00-0048	LF		1" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	8.70	1.05
				<i>For >500, Deduct</i>	-1.21	
	05 15 16 00-0049			6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope		
				<i>(05 15 16)</i>		
	05 15 16 00-0050	LF		3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	1.92	0.19
				<i>For >500, Deduct</i>	-0.31	
	05 15 16 00-0051	LF		7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.27	0.19
				<i>For >500, Deduct</i>	-0.35	
	05 15 16 00-0052	LF		1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.68	0.28
				<i>For >500, Deduct</i>	-0.40	
	05 15 16 00-0053	LF		9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	3.59	0.38
				<i>For >500, Deduct</i>	-0.55	
	05 15 16 00-0054	LF		5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	3.98	0.38
				<i>For >500, Deduct</i>	-0.59	
	05 15 16 00-0055	LF		3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	5.47	0.67
				<i>For >500, Deduct</i>	-0.79	
	05 15 16 00-0056	LF		7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	7.05	0.76
				<i>For >500, Deduct</i>	-1.00	
	05 15 16 00-0057	LF		1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	9.28	1.05
				<i>For >500, Deduct</i>	-1.32	

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0058	LF	1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	11.26	1.33
		<i>For >500, Deduct</i>	-1.58	
05 15 16 00-0059	LF	1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	13.61	1.61
		<i>For >500, Deduct</i>	-1.91	
05 15 16 00-0060		6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope ^(05 15 16)		
05 15 16 00-0061	LF	3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	1.97	0.19
		<i>For >500, Deduct</i>	-0.32	
05 15 16 00-0062	LF	7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	2.39	0.19
		<i>For >500, Deduct</i>	-0.38	
05 15 16 00-0063	LF	1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	2.85	0.28
		<i>For >500, Deduct</i>	-0.44	
05 15 16 00-0064	LF	9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	3.96	0.38
		<i>For >500, Deduct</i>	-0.62	
05 15 16 00-0065	LF	5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	4.04	0.38
		<i>For >500, Deduct</i>	-0.60	
05 15 16 00-0066	LF	3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	5.59	0.67
		<i>For >500, Deduct</i>	-0.82	
05 15 16 00-0067	LF	7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	7.42	0.76
		<i>For >500, Deduct</i>	-1.08	
05 15 16 00-0068	LF	1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	9.40	1.05
		<i>For >500, Deduct</i>	-1.34	
05 15 16 00-0069		19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope ^(05 15 16)		
05 15 16 00-0070	LF	1/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	1.98	0.09
		<i>For >500, Deduct</i>	-0.36	
05 15 16 00-0071	LF	5/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	2.14	0.09
		<i>For >500, Deduct</i>	-0.38	
05 15 16 00-0072	LF	3/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	2.54	0.19
		<i>For >500, Deduct</i>	-0.44	
05 15 16 00-0073	LF	7/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	3.42	0.19
		<i>For >500, Deduct</i>	-0.58	
05 15 16 00-0074	LF	1/2" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	3.88	0.19
		<i>For >500, Deduct</i>	-0.68	
05 15 16 00-0075	LF	9/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	4.56	0.38
		<i>For >500, Deduct</i>	-0.75	
05 15 16 00-0076	LF	5/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	5.43	0.38
		<i>For >500, Deduct</i>	-0.88	
05 15 16 00-0077	LF	3/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	7.49	0.57
		<i>For >500, Deduct</i>	-1.21	
05 15 16 00-0078		7x7, Galvanized Finish, Aircraft Cable ^(05 15 16)		
05 15 16 00-0079	LF	1/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.24	0.07
		<i>For >500, Deduct</i>	-0.03	
05 15 16 00-0080	LF	3/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.28	0.08
		<i>For >500, Deduct</i>	-0.03	
05 15 16 00-0081	LF	1/8" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.32	0.08
		<i>For >500, Deduct</i>	-0.04	
05 15 16 00-0082	LF	5/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.37	0.09
		<i>For >500, Deduct</i>	-0.04	
05 15 16 00-0083	LF	3/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.45	0.09
		<i>For >500, Deduct</i>	-0.05	
05 15 16 00-0084		7x19, Galvanized Finish, Aircraft Cable ^(05 15 16)		
05 15 16 00-0085	LF	1/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.43	0.08
		<i>For >500, Deduct</i>	-0.06	
05 15 16 00-0086	LF	5/32" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.47	0.09
		<i>For >500, Deduct</i>	-0.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0087 LF 3/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable <i>For >500, Deduct</i>	0.54 -0.07	0.09
05 15 16 00-0088 LF 1/4" Diameter, 7x19, Galvanized Finish, Aircraft Cable <i>For >500, Deduct</i>	0.62 -0.09	0.09
05 15 16 00-0089 LF 5/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable <i>For >500, Deduct</i>	0.94 -0.14	0.09
05 15 16 00-0090 LF 3/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable <i>For >500, Deduct</i>	1.26 -0.18	0.09
05 15 16 00-0091 Heavy Duty, Galvanized Steel, Wire Rope Thimbles (05 15 16)		
05 15 16 00-0092 EA 1/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	11.76	2.85
05 15 16 00-0093 EA 5/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	13.14	2.85
05 15 16 00-0094 EA 3/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	14.68	2.85
05 15 16 00-0095 EA 7/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	18.90	2.85
05 15 16 00-0096 EA 1/2" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	18.92	2.85
05 15 16 00-0097 EA 9/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	18.92	2.85
05 15 16 00-0098 EA 5/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	20.35	2.85
05 15 16 00-0099 EA 3/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	36.75	4.38
05 15 16 00-0100 EA 7/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	43.47	5.32
05 15 16 00-0101 EA 1" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	76.99	8.75
05 15 16 00-0102 EA 1-1/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	110.14	11.90
05 15 16 00-0103 EA 1-1/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	110.14	11.90
05 15 16 00-0104 Galvanized Steel, Wire Rope Clips (05 15 16)		
05 15 16 00-0105 EA 1/8" Diameter, Galvanized Steel, Wire Rope Clip	13.70	2.85
05 15 16 00-0106 EA 3/16" Diameter, Galvanized Steel, Wire Rope Clip	13.96	2.85
05 15 16 00-0107 EA 1/4" Diameter, Galvanized Steel, Wire Rope Clip	15.73	2.85
05 15 16 00-0108 EA 5/16" Diameter, Galvanized Steel, Wire Rope Clip	16.01	2.85
05 15 16 00-0109 EA 3/8" Diameter, Galvanized Steel, Wire Rope Clip	16.41	2.85
05 15 16 00-0110 EA 7/16" Diameter, Galvanized Steel, Wire Rope Clip	20.21	2.85
05 15 16 00-0111 EA 1/2" Diameter, Galvanized Steel, Wire Rope Clip	20.50	2.85
05 15 16 00-0112 EA 9/16" Diameter, Galvanized Steel, Wire Rope Clip	23.29	2.85
05 15 16 00-0113 EA 5/8" Diameter, Galvanized Steel, Wire Rope Clip	23.69	2.85
05 15 16 00-0114 EA 3/4" Diameter, Galvanized Steel, Wire Rope Clip	32.66	3.80
05 15 16 00-0115 EA 7/8" Diameter, Galvanized Steel, Wire Rope Clip	49.08	5.71
05 15 16 00-0116 EA 1" Diameter, Galvanized Steel, Wire Rope Clip	53.67	5.71
05 15 16 00-0117 EA 1-1/8" Diameter, Galvanized Steel, Wire Rope Clip	63.44	7.61
05 15 16 00-0118 EA 1-1/4" Diameter, Galvanized Steel, Wire Rope Clip	92.20	11.42
05 15 16 00-0119 Steel, Open Swage Sockets (05 15 16)		
05 15 16 00-0120 EA 1/4" Diameter, Steel, Open Swage Socket	70.52	2.85
05 15 16 00-0121 EA 5/16" Diameter, Steel, Open Swage Socket	111.95	2.85
05 15 16 00-0122 EA 3/8" Diameter, Steel, Open Swage Socket	115.72	3.80
05 15 16 00-0123 EA 7/16" Diameter, Steel, Open Swage Socket	137.92	4.76
05 15 16 00-0124 EA 1/2" Diameter, Steel, Open Swage Socket	137.92	4.76
05 15 16 00-0125 EA 9/16" Diameter, Steel, Open Swage Socket	203.45	10.47
05 15 16 00-0126 EA 5/8" Diameter, Steel, Open Swage Socket	203.45	10.47
05 15 16 00-0127 EA 3/4" Diameter, Steel, Open Swage Socket	262.87	19.99
05 15 16 00-0128 EA 7/8" Diameter, Steel, Open Swage Socket	354.47	28.55
05 15 16 00-0129 EA 1" Diameter, Steel, Open Swage Socket	500.84	43.78
05 15 16 00-0130 EA 1-1/8" Diameter, Steel, Open Swage Socket	663.09	68.52
05 15 16 00-0131 EA 1-1/4" Diameter, Steel, Open Swage Socket	772.12	78.99
05 15 16 00-0132 Steel, Closed Swage Sockets (05 15 16)		
05 15 16 00-0133 EA 1/4" Diameter, Steel, Closed Swage Socket	56.95	2.85
05 15 16 00-0134 EA 5/16" Diameter, Steel, Closed Swage Socket	76.69	2.85
05 15 16 00-0135 EA 3/8" Diameter, Steel, Closed Swage Socket	76.69	2.85
05 15 16 00-0136 EA 7/16" Diameter, Steel, Closed Swage Socket	95.81	3.80
05 15 16 00-0137 EA 1/2" Diameter, Steel, Closed Swage Socket	96.86	3.80
05 15 16 00-0138 EA 9/16" Diameter, Steel, Closed Swage Socket	133.74	6.67
05 15 16 00-0139 EA 5/8" Diameter, Steel, Closed Swage Socket	138.28	7.61
05 15 16 00-0140 EA 3/4" Diameter, Steel, Closed Swage Socket	172.00	12.37
05 15 16 00-0141 EA 7/8" Diameter, Steel, Closed Swage Socket	223.42	18.08
05 15 16 00-0142 EA 1" Diameter, Steel, Closed Swage Socket	319.49	24.74
05 15 16 00-0143 EA 1-1/8" Diameter, Steel, Closed Swage Socket	397.39	34.26
05 15 16 00-0144 EA 1-1/4" Diameter, Steel, Closed Swage Socket	541.96	53.29
05 15 16 00-0145 Galvanized Steel, Open Spelter Sockets (05 15 16)		
05 15 16 00-0146 EA 1/4" Galvanized Steel, Open Spelter Socket	117.32	2.85
05 15 16 00-0147 EA 5/16" Galvanized Steel, Open Spelter Socket	120.68	2.85
05 15 16 00-0148 EA 3/8" Galvanized Steel, Open Spelter Socket	120.68	2.85
05 15 16 00-0149 EA 7/16" Galvanized Steel, Open Spelter Socket	135.78	5.71
05 15 16 00-0150 EA 1/2" Galvanized Steel, Open Spelter Socket	135.78	5.71
05 15 16 00-0151 EA 9/16" Galvanized Steel, Open Spelter Socket	179.14	9.52
05 15 16 00-0152 EA 5/8" Galvanized Steel, Open Spelter Socket	179.14	9.52

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0153 EA 3/4" Galvanized Steel, Open Spelter Socket.....	227.95	14.27
05 15 16 00-0154 EA 7/8" Galvanized Steel, Open Spelter Socket.....	342.08	23.79
05 15 16 00-0155 EA 1" Galvanized Steel, Open Spelter Socket.....	619.01	37.11
05 15 16 00-0156 EA 1-1/8" Galvanized Steel, Open Spelter Socket.....	735.30	59.96
05 15 16 00-0157 EA 1-1/4" Galvanized Steel, Open Spelter Socket.....	993.38	78.99
05 15 16 00-0158 Galvanized Steel, Closed Spelter Sockets (05 15 16)		
05 15 16 00-0159 EA 1/4" Galvanized Steel, Closed Spelter Socket.....	98.54	2.85
05 15 16 00-0160 EA 5/16" Galvanized Steel, Closed Spelter Socket.....	98.96	2.85
05 15 16 00-0161 EA 3/8" Galvanized Steel, Closed Spelter Socket.....	98.96	2.85
05 15 16 00-0162 EA 7/16" Galvanized Steel, Closed Spelter Socket.....	111.65	4.76
05 15 16 00-0163 EA 1/2" Galvanized Steel, Closed Spelter Socket.....	111.65	4.76
05 15 16 00-0164 EA 9/16" Galvanized Steel, Closed Spelter Socket.....	157.24	8.56
05 15 16 00-0165 EA 5/8" Galvanized Steel, Closed Spelter Socket.....	157.24	8.56
05 15 16 00-0166 EA 3/4" Galvanized Steel, Closed Spelter Socket.....	193.99	12.37
05 15 16 00-0167 EA 7/8" Galvanized Steel, Closed Spelter Socket.....	283.58	19.03
05 15 16 00-0168 EA 1" Galvanized Steel, Closed Spelter Socket.....	428.72	29.50
05 15 16 00-0169 EA 1-1/8" Galvanized Steel, Closed Spelter Socket.....	561.57	39.97
05 15 16 00-0170 EA 1-1/4" Galvanized Steel, Closed Spelter Socket.....	708.87	53.29
05 15 16 00-0171 Forged Steel, Jaw And Jaw Turnbuckles (05 15 16)		
05 15 16 00-0172 EA 1/4" x 4", Forged Steel, Jaw And Jaw Turnbuckle.....	68.11	2.85
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-8.79	
05 15 16 00-0173 EA 5/16" x 4-1/2", Forged Steel, Jaw And Jaw Turnbuckle.....	72.98	2.85
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-9.52	
05 15 16 00-0174 EA 3/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle.....	82.01	2.85
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-10.87	
05 15 16 00-0175 EA 1/2" x 6", Forged Steel, Jaw And Jaw Turnbuckle.....	91.41	3.80
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-11.31	
05 15 16 00-0176 EA 1/2" x 9", Forged Steel, Jaw And Jaw Turnbuckle.....	120.18	4.76
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-15.05	
05 15 16 00-0177 EA 1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	136.57	5.71
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-17.05	
05 15 16 00-0178 EA 5/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle.....	139.57	7.61
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-16.54	
05 15 16 00-0179 EA 5/8" x 9", Forged Steel, Jaw And Jaw Turnbuckle.....	172.27	7.61
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-21.08	
05 15 16 00-0180 EA 5/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	195.41	8.56
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-24.21	
05 15 16 00-0181 EA 3/4" x 6", Forged Steel, Jaw And Jaw Turnbuckle.....	188.29	10.47
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-22.17	
05 15 16 00-0182 EA 3/4" x 9", Forged Steel, Jaw And Jaw Turnbuckle.....	214.70	12.37
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-24.69	
05 15 16 00-0183 EA 3/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	264.49	13.32
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-31.52	
05 15 16 00-0184 EA 3/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle.....	318.21	16.18
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-37.89	
05 15 16 00-0185 EA 7/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	363.57	22.84
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-40.94	
05 15 16 00-0186 EA 7/8" x 18", Forged Steel, Jaw And Jaw Turnbuckle.....	440.62	26.65
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-50.23	
05 15 16 00-0187 EA 1" x 6", Forged Steel, Jaw And Jaw Turnbuckle.....	377.38	22.84
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-43.01	
05 15 16 00-0188 EA 1" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	433.13	29.50
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-47.13	
05 15 16 00-0189 EA 1" x 18", Forged Steel, Jaw And Jaw Turnbuckle.....	592.46	37.11
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-66.91	
05 15 16 00-0190 EA 1" x 24", Forged Steel, Jaw And Jaw Turnbuckle.....	663.32	43.78
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-73.54	
05 15 16 00-0191 EA 1-1/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	740.73	53.29
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-79.39	
05 15 16 00-0192 EA 1-1/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle.....	892.83	59.96
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-98.24	
05 15 16 00-0193 EA 1-1/4" x 24", Forged Steel, Jaw And Jaw Turnbuckle.....	1,153.38	68.52
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-132.22	
05 15 16 00-0194 EA 1-1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	1,142.43	73.28
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-127.44	
05 15 16 00-0195 EA 1-1/2" x 18", Forged Steel, Jaw And Jaw Turnbuckle.....	1,262.15	95.17
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-132.22	
05 15 16 00-0196 EA 1-1/2" x 24", Forged Steel, Jaw And Jaw Turnbuckle.....	2,254.73	123.71
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-266.83	
05 15 16 00-0197 EA 2" x 24", Forged Steel, Jaw And Jaw Turnbuckle.....	3,712.92	237.92
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-414.18	
05 15 16 00-0198 Galvanized Steel, Drop Forged, Shoulder Eye Bolts (05 15 16)		
05 15 16 00-0199 EA 1/4" Diameter Thread, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	14.93	
05 15 16 00-0200 EA 5/16" Diameter Thread, 7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	15.00	
05 15 16 00-0201 EA 3/8" Diameter Thread, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	16.83	
05 15 16 00-0202 EA 7/16" Diameter Thread, 1-3/32" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	20.08	
05 15 16 00-0203 EA 1/2" Diameter Thread, 1-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	19.99	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0204	EA		5/8" Diameter Thread, 1-3/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	27.18	
05 15 16 00-0205	EA		3/4" Diameter Thread, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	32.50	
05 15 16 00-0206	EA		7/8" Diameter Thread, 1-11/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	43.75	
05 15 16 00-0207	EA		1" Diameter Thread, 1-13/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	58.43	
05 15 16 00-0208	EA		1-1/8" Diameter Thread, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	84.78	
05 15 16 00-0209	EA		1-1/4" Diameter Thread, 2-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	100.80	
05 15 16 00-0210	EA		1-1/2" Diameter Thread, 2-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	182.54	
05 15 16 00-0211	EA		1-3/4" Diameter Thread, 2-7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	209.29	
05 15 16 00-0212	EA		2" Diameter Thread, 3-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	258.68	
05 15 16 00-0213 Galvanized Steel, Drop Forged, Eye Bolts (05 15 16)					
05 15 16 00-0214	EA		1/4" Diameter Thread, 3" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	19.48	
05 15 16 00-0215	EA		1/4" Diameter Thread, 4" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	17.65	
05 15 16 00-0216	EA		5/16" Diameter Thread, 2-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	23.72	
05 15 16 00-0217	EA		5/16" Diameter Thread, 4-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	16.12	
05 15 16 00-0218	EA		3/8" Diameter Thread, 2-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	21.55	
05 15 16 00-0219	EA		3/8" Diameter Thread, 3" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	32.21	
05 15 16 00-0220	EA		3/8" Diameter Thread, 4" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	31.26	
05 15 16 00-0221	EA		3/8" Diameter Thread, 4-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	29.73	
05 15 16 00-0222	EA		3/8" Diameter Thread, 5" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	26.71	
05 15 16 00-0223	EA		3/8" Diameter Thread, 6" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	27.57	
05 15 16 00-0224	EA		1/2" Diameter Thread, 2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	24.47	
05 15 16 00-0225	EA		1/2" Diameter Thread, 3" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	19.65	
05 15 16 00-0226	EA		1/2" Diameter Thread, 3-1/4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	25.40	
05 15 16 00-0227	EA		1/2" Diameter Thread, 4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	34.48	
05 15 16 00-0228	EA		1/2" Diameter Thread, 4-1/2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	26.33	
05 15 16 00-0229	EA		1/2" Diameter Thread, 6" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	42.01	
05 15 16 00-0230	EA		1/2" Diameter Thread, 8" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	37.07	
05 15 16 00-0231	EA		1/2" Diameter Thread, 10" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	33.90	
05 15 16 00-0232	EA		1/2" Diameter Thread, 12" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	39.75	
05 15 16 00-0233	EA		5/8" Diameter Thread, 4" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	40.36	
05 15 16 00-0234	EA		5/8" Diameter Thread, 4-1/2" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	36.01	
05 15 16 00-0235	EA		5/8" Diameter Thread, 6" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	45.15	
05 15 16 00-0236	EA		5/8" Diameter Thread, 8" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	51.66	
05 15 16 00-0237	EA		5/8" Diameter Thread, 10" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	59.48	
05 15 16 00-0238	EA		5/8" Diameter Thread, 12" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	49.27	
05 15 16 00-0239	EA		3/4" Diameter Thread, 4-1/2" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	49.20	
05 15 16 00-0240	EA		3/4" Diameter Thread, 6" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	50.19	
05 15 16 00-0241	EA		3/4" Diameter Thread, 8" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	55.41	
05 15 16 00-0242	EA		3/4" Diameter Thread, 10" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	59.72	
05 15 16 00-0243	EA		3/4" Diameter Thread, 12" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	69.66	
05 15 16 00-0244	EA		1" Diameter Thread, 8" Shank Length, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	92.07	
05 15 19 Stainless Steel Wire Rope Assemblies (05 15)					
05 15 19 00-0001 7x7, 304 Stainless Steel, Aircraft Cable (05 15 19)					
05 15 19 00-0002	LF		1/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.26	0.07
			<i>For >500, Deduct</i>	-0.03	
05 15 19 00-0003	LF		3/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.34	0.08
			<i>For >500, Deduct</i>	-0.04	
05 15 19 00-0004	LF		1/8" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.45	0.08
			<i>For >500, Deduct</i>	-0.06	
05 15 19 00-0005	LF		5/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.59	0.09
			<i>For >500, Deduct</i>	-0.09	
05 15 19 00-0006	LF		3/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.74	0.09
			<i>For >500, Deduct</i>	-0.11	
05 15 19 00-0007 7x19, 304 Stainless Steel, Aircraft Cable (05 15 19)					
05 15 19 00-0008	LF		1/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	0.51	0.08
			<i>For >500, Deduct</i>	-0.08	
05 15 19 00-0009	LF		5/32" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	0.60	0.09
			<i>For >500, Deduct</i>	-0.09	
05 15 19 00-0010	LF		3/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	0.70	0.09
			<i>For >500, Deduct</i>	-0.10	
05 15 19 00-0011	LF		1/4" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	0.89	0.09
			<i>For >500, Deduct</i>	-0.15	
05 15 19 00-0012	LF		5/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	1.36	0.09
			<i>For >500, Deduct</i>	-0.22	
05 15 19 00-0013	LF		3/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	2.04	0.19
			<i>For >500, Deduct</i>	-0.33	
05 15 19 00-0014 7x7, 316 Stainless Steel, Aircraft Cable (05 15 19)					
05 15 19 00-0015	LF		1/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable.....	0.26	0.07
			<i>For >500, Deduct</i>	-0.03	
05 15 19 00-0016	LF		3/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable.....	0.34	0.08
			<i>For >500, Deduct</i>	-0.04	
05 15 19 00-0017	LF		1/8" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable.....	0.45	0.08
			<i>For >500, Deduct</i>	-0.06	

05	05 Metals
	05 10 Structural Metal Framing
	05 15 Wire Rope Assemblies



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 19 00-0018 LF 5/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable <i>For >500, Deduct</i>	0.59 -0.09	0.09
05 15 19 00-0019 LF 3/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable <i>For >500, Deduct</i>	0.74 -0.11	0.09
05 15 19 00-0020 7x19, 316 Stainless Steel, Aircraft Cable (05 15 19)		
05 15 19 00-0021 LF 1/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable <i>For >500, Deduct</i>	0.51 -0.08	0.08
05 15 19 00-0022 LF 5/32" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable <i>For >500, Deduct</i>	0.60 -0.09	0.09
05 15 19 00-0023 LF 3/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable <i>For >500, Deduct</i>	0.70 -0.10	0.09
05 15 19 00-0024 LF 1/4" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable <i>For >500, Deduct</i>	0.89 -0.15	0.09
05 15 19 00-0025 LF 5/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable <i>For >500, Deduct</i>	1.36 -0.22	0.09
05 15 19 00-0026 LF 3/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable <i>For >500, Deduct</i>	2.04 -0.33	0.09

05 40 Cold-Formed Metal Framing (05)

Note: Includes all connecting bolts and welds.

05 41 Structural Metal Stud Framing (05 40)

Note: Includes studs, bridging, fasteners, and metal stiffener at half height. Do not deduct for openings of less than 25 SF.

05 41 00 00-0001 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners (05 41)

05 41 00 00-0002 SF 2-1/2" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners..... <i>For Walls >10' High, Add</i> <i>For Curved Wall, Add</i> <i>For Up To 200, Add</i> <i>For >200 To 500, Add</i> <i>For 12" On Center, Add</i> <i>For 24" On Center, Deduct</i>	4.41 0.88 0.61 1.29 0.64 0.78 -0.78	0.87
05 41 00 00-0003 SF 3-5/8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners..... <i>For Walls >10' High, Add</i> <i>For Curved Wall, Add</i> <i>For Up To 200, Add</i> <i>For >200 To 500, Add</i> <i>For 12" On Center, Add</i> <i>For 24" On Center, Deduct</i>	4.93 0.99 0.64 1.41 0.71 0.88 -0.88	0.87
05 41 00 00-0004 SF 4" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners..... <i>For Walls >10' High, Add</i> <i>For Curved Wall, Add</i> <i>For Up To 200, Add</i> <i>For >200 To 500, Add</i> <i>For 12" On Center, Add</i> <i>For 24" On Center, Deduct</i>	5.15 1.03 0.67 1.47 0.74 0.92 -0.92	0.87
05 41 00 00-0005 SF 6" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners..... <i>For Walls >10' High, Add</i> <i>For Curved Wall, Add</i> <i>For Up To 200, Add</i> <i>For >200 To 500, Add</i> <i>For 12" On Center, Add</i> <i>For 24" On Center, Deduct</i>	6.54 1.31 0.69 1.77 0.89 1.19 -1.19	0.97
05 41 00 00-0006 SF 8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners..... <i>For Walls >10' High, Add</i> <i>For Curved Wall, Add</i> <i>For Up To 200, Add</i> <i>For >200 To 500, Add</i> <i>For 12" On Center, Add</i> <i>For 24" On Center, Deduct</i>	7.30 1.46 0.72 1.94 0.97 1.34 -1.34	1.06

05 41 00 00-0007 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners (05 41)

05 41 00 00-0008 SF 2-1/2" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners..... <i>For Walls >10' High, Add</i> <i>For Curved Wall, Add</i> <i>For Up To 200, Add</i> <i>For >200 To 500, Add</i> <i>For 12" On Center, Add</i> <i>For 24" On Center, Deduct</i>	4.75 0.95 0.64 1.38 0.69 0.84 -0.84	0.87
05 41 00 00-0009 SF 3-5/8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners..... <i>For Walls >10' High, Add</i> <i>For Curved Wall, Add</i> <i>For Up To 200, Add</i> <i>For >200 To 500, Add</i> <i>For 12" On Center, Add</i> <i>For 24" On Center, Deduct</i>	5.48 1.10 0.67 1.54 0.77 0.98 -0.98	0.88



Metals	05	05
Cold-Formed Metal Framing	05 40	
Structural Metal Stud Framing	05 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 41 00 00-0010 SF 4" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	5.79	0.88
For Walls >10' High, Add	1.16	
For Curved Wall, Add	0.70	
For Up To 200, Add	1.62	
For >200 To 500, Add	0.81	
For 12" On Center, Add	1.04	
For 24" On Center, Deduct	-1.04	
05 41 00 00-0011 SF 6" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	7.32	1.06
For Walls >10' High, Add	1.46	
For Curved Wall, Add	0.73	
For Up To 200, Add	1.95	
For >200 To 500, Add	0.98	
For 12" On Center, Add	1.34	
For 24" On Center, Deduct	-1.34	
05 41 00 00-0012 SF 8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	8.07	1.16
For Walls >10' High, Add	1.61	
For Curved Wall, Add	0.77	
For Up To 200, Add	2.13	
For >200 To 500, Add	1.06	
For 12" On Center, Add	1.49	
For 24" On Center, Deduct	-1.49	
05 41 00 00-0013 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners (05 41)		
05 41 00 00-0014 SF 3-5/8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	6.53	1.21
For Walls >10' High, Add	1.31	
For Curved Wall, Add	0.81	
For Up To 200, Add	1.84	
For >200 To 500, Add	0.92	
For 12" On Center, Add	1.17	
For 24" On Center, Deduct	-1.17	
05 41 00 00-0015 SF 4" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	6.70	1.23
For Walls >10' High, Add	1.34	
For Curved Wall, Add	0.82	
For Up To 200, Add	1.89	
For >200 To 500, Add	0.94	
For 12" On Center, Add	1.20	
For 24" On Center, Deduct	-1.20	
05 41 00 00-0016 SF 6" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	8.41	1.30
For Walls >10' High, Add	1.68	
For Curved Wall, Add	0.86	
For Up To 200, Add	2.26	
For >200 To 500, Add	1.13	
For 12" On Center, Add	1.54	
For 24" On Center, Deduct	-1.54	
05 41 00 00-0017 SF 8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	9.23	1.35
For Walls >10' High, Add	1.85	
For Curved Wall, Add	0.90	
For Up To 200, Add	2.45	
For >200 To 500, Add	1.22	
For 12" On Center, Add	1.70	
For 24" On Center, Deduct	-1.70	
05 42 Cold-Formed Metal Joist Framing (05 40)		
05 42 13 Cold-Formed Metal Floor Joist Framing (05 42)		
Note: Floor or roof joist framing		
05 42 13 00-0001 Steel Joists, 20 Gauge (05 42 13)		
05 42 13 00-0002 LF 5-1/2" - 20 Gauge Steel Joists	9.29	2.07
05 42 13 00-0003 LF 6" - 20 Gauge Steel Joists	10.14	2.61
05 42 13 00-0004 LF 7-1/4" - 20 Gauge Steel Joists	10.98	2.86
05 42 13 00-0005 LF 8" - 20 Gauge Steel Joists	12.33	3.04
05 42 13 00-0006 Steel Joists, 18 Gauge (05 42 13)		
05 42 13 00-0007 LF 5-1/2" - 18 Gauge Steel Joists	10.36	2.30
05 42 13 00-0008 LF 6" - 18 Gauge Steel Joists	11.32	2.90
05 42 13 00-0009 LF 7-1/4" - 18 Gauge Steel Joists	12.30	3.18
05 42 13 00-0010 LF 8" - 18 Gauge Steel Joists	12.66	3.38
05 42 13 00-0011 Steel Joists, 16 Gauge (05 42 13)		
05 42 13 00-0012 LF 7-1/4" - 16 Gauge Steel Joists	13.30	3.20
05 42 13 00-0013 LF 8" - 16 Gauge Steel Joists	14.05	3.38
05 42 13 00-0014 Steel Joists, 14 Gauge (05 42 13)		
05 42 13 00-0015 LF 9-1/4" - 14 Gauge Steel Joists	15.86	3.38
05 42 13 00-0016 LF 11-1/2" - 14 Gauge Steel Joists	17.22	3.56

05	05 Metals
	05 40 Cold-Formed Metal Framing
	05 42 Cold-Formed Metal Joist Framing



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 42 13 00-0017 Steel Joists, 12 Gauge <small>(05 42 13)</small>		
05 42 13 00-0018 LF 9-1/4" - 12 Gauge Steel Joists	18.87	3.71
05 42 13 00-0019 LF 11-1/2" - 12 Gauge Steel Joists	20.65	3.91
05 42 13 00-0020 Steel Joists, 10 Gauge <small>(05 42 13)</small>		
05 42 13 00-0021 LF 9-1/4" - 10 Gauge Steel Joists	21.96	4.09
05 42 13 00-0022 LF 11-1/2" - 10 Gauge Steel Joists	24.14	4.31
05 42 13 00-0023 Steel Joists, 8 Gauge <small>(05 42 13)</small>		
05 42 13 00-0024 LF 9-1/4" - 8 Gauge Steel Joists	25.10	4.50
05 42 13 00-0025 LF 11-1/2" - 8 Gauge Steel Joists	27.65	4.74
05 42 23 Cold-Formed Metal Roof Joist Framing <small>(05 42)</small>		
See CSI section 05 42 13 00-0000 for metal joist framing.		
05 43 Slotted Channel Framing <small>(05 40)</small>		
05 43 00 00-0001 Unistrut Channel <small>(05 43)</small>		
Note: Excludes fasteners and accessories.		
05 43 00 00-0002 Steel Unistrut Channel <small>(05 43 00 00-0001)</small>		
05 43 00 00-0003 LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel	9.86	2.15
<i>For Powder Coating, Add</i>		
	<i>0.83</i>	
<i>For Galvanizing, Add</i>		
	<i>0.95</i>	
05 43 00 00-0004 LF 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel	10.13	2.15
<i>For Powder Coating, Add</i>		
	<i>0.87</i>	
<i>For Galvanizing, Add</i>		
	<i>0.99</i>	
05 43 00 00-0005 LF 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel.....	10.54	2.15
<i>For Powder Coating, Add</i>		
	<i>0.94</i>	
<i>For Galvanizing, Add</i>		
	<i>1.06</i>	
05 43 00 00-0006 LF 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	9.32	2.15
<i>For Powder Coating, Add</i>		
	<i>0.75</i>	
<i>For Galvanizing, Add</i>		
	<i>0.85</i>	
05 43 00 00-0007 LF 1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel.....	8.14	2.15
<i>For Powder Coating, Add</i>		
	<i>0.58</i>	
<i>For Galvanizing, Add</i>		
	<i>0.65</i>	
05 43 00 00-0008 Stainless Steel Unistrut Channel <small>(05 43 00 00-0001)</small>		
05 43 00 00-0009 304 Stainless Steel Unistrut Channel <small>(05 43 00 00-0008)</small>		
05 43 00 00-0010 LF 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	24.84	2.15
05 43 00 00-0011 LF 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	29.86	2.15
05 43 00 00-0012 LF 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	28.61	2.15
05 43 00 00-0013 LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	36.36	2.15
05 43 00 00-0014 316 Stainless Steel Unistrut Channel <small>(05 43 00 00-0008)</small>		
05 43 00 00-0015 LF 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel	41.11	2.15
05 43 00 00-0016 Unistrut Closure Strips <small>(05 43)</small>		
05 43 00 00-0017 LF Steel Raceway Closure Strip For Unistrut Channel.....	5.13	0.47
05 43 00 00-0018 Lock Nuts With Spring For Unistrut Channel <small>(05 43)</small>		
Note: Includes hex bolt.		
05 43 00 00-0019 Steel Lock Nuts With Spring For Unistrut Channel <small>(05 43 00 00-0018)</small>		
Note: Includes hex bolt.		
05 43 00 00-0020 EA 1/4-20, Steel Lock Nut With Spring For Unistrut Channel	6.38	
05 43 00 00-0021 EA 3/8-16, Steel Lock Nut With Spring For Unistrut Channel	6.95	
05 43 00 00-0022 EA 1/2-13, Steel Lock Nut With Spring For Unistrut Channel	7.38	
05 43 00 00-0023 EA 5/8-11, Steel Lock Nut With Spring For Unistrut Channel	9.70	
05 43 00 00-0024 Stainless Steel Lock Nuts With Spring For Unistrut Channel <small>(05 43 00 00-0018)</small>		
Note: Includes hex bolt.		
05 43 00 00-0025 EA 1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	14.19	
05 43 00 00-0026 EA 3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	15.11	
05 43 00 00-0027 EA 1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	21.42	
05 43 00 00-0028 EA 5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	36.70	
05 43 00 00-0029 Lock Nuts Without Spring For Unistrut Channel <small>(05 43)</small>		
Note: Includes hex bolt.		
05 43 00 00-0030 Steel Lock Nuts Without Spring For Unistrut Channel <small>(05 43 00 00-0029)</small>		
Note: Includes hex bolt.		



Metals	05	05
Cold-Formed Metal Framing	05 40	
Slotted Channel Framing	05 43	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 43 00 00-0031 EA 1/4-20, Steel Lock Nut Without Spring For Unistrut Channel	6.40	
05 43 00 00-0032 EA 3/8-16, Steel Lock Nut Without Spring For Unistrut Channel	7.03	
05 43 00 00-0033 EA 1/2-13, Steel Lock Nut Without Spring For Unistrut Channel	7.41	
05 43 00 00-0034 EA 5/8-11, Steel Lock Nut Without Spring For Unistrut Channel	10.37	
05 43 00 00-0035 Stainless Steel Lock Nuts Without Spring For Unistrut Channel (05 43 00 00-0029)		
Note: Includes hex bolt.		
05 43 00 00-0036 EA 1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	10.14	
05 43 00 00-0037 EA 3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	12.25	
05 43 00 00-0038 EA 1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	13.35	
05 43 00 00-0039 EA 5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	35.75	
05 43 00 00-0040 Beam Clamp For Unistrut Channel (05 43)		
05 43 00 00-0041 EA 1-5/8" Channel, P2675 Unistrut Beam Clamp	18.86	7.14
05 43 00 00-0042 EA 1-5/8" Channel, P2676 Unistrut Beam Clamp	23.12	7.14
05 43 00 00-0043 EA Add For Unistrut Swivel Nut, P2676	2.32	
05 43 00 00-0044 Beam Clamp Clevis Hangers For Unistrut Channel (05 43)		
05 43 00 00-0045 EA Up To 3/8" Rod, Beam Clamp Clevis Hanger (Unistrut P2674)	20.34	7.14
05 43 00 00-0046 EA Up To 1/2" Rod, Beam Clamp Clevis Hanger (Unistrut P2677)	23.73	7.14
05 43 00 00-0047 EA Add For Unistrut Swivel Nut	2.32	
05 43 00 00-0048 EA 6-Hole Electrogalvanized Steel Shelf Bracket For Unistrut	127.87	9.52
05 45 Metal Support Assemblies (05 40)		
05 45 16 Electrical Metal Supports (05 45)		
See CSI section 26 05 29 00-0000 for metal supports.		
05 50 Metal Fabrications (05)		
05 51 Metal Stairs (05 50)		
05 51 13 Metal Pan Stairs (05 51)		
Note: Open concrete filled metal pan stair and landing including steel stringer, safety nosing and concrete. Excludes handrail.		
See CSI section 05 52 13 00-0000 for handrails.		
05 51 13 00-0001 Open Concrete Filled Metal Pan Stair And Landing (05 51 13)		
Note: Includes steel stringer, safety nosing and concrete. Excludes handrail.		
05 51 13 00-0002 RSR 3'-6" Wide Open Concrete Filled Metal Pan Tread Stair	690.28	27.75
For Closed Riser, Add	79.03	
05 51 13 00-0003 RSR 4'-0" Wide Open Concrete Filled Metal Pan Tread Stair	784.91	32.38
For Closed Riser, Add	89.75	
05 51 13 00-0004 RSR 5'-0" Wide Open Concrete Filled Metal Pan Tread Stair	875.47	37.92
For Closed Riser, Add	99.85	
05 51 13 00-0005 SF Concrete Filled Steel Pan Landing	68.18	4.63
Note: Conventional shape.		
05 51 19 Metal Grating Stairs (05 51)		
Note: Open steel grating tread metal stair and landing including steel stringers, safety nosing and 2 pipe handrail.		
05 51 19 00-0001 Open Steel Grating Tread Metal Stair And Landing (05 51 19)		
Note: Includes steel stringers, safety nosing and 2 pipe handrail.		
05 51 19 00-0002 RSR 3'-6" Wide Open Steel Grating Tread Metal Stair	341.92	37.00
For Closed Riser, Add	40.38	
For Galvanized Steel, Add	66.98	
05 51 19 00-0003 RSR 4'-0" Wide Open Steel Grating Tread Metal Stair	365.79	42.55
For Closed Riser, Add	42.87	
For Galvanized Steel, Add	70.17	
05 51 19 00-0004 RSR 5'-0" Wide Open Steel Grating Tread Metal Stair	406.11	49.94
For Closed Riser, Add	47.30	
For Galvanized Steel, Add	76.55	
05 51 19 00-0005 SF Steel Grating Landing With Framing And 2 Pipe Handrail	64.43	4.63
Note: Conventional shape.		
For Galvanized Steel, Add	11.48	
05 51 33 Metal Ladders (05 51)		
Note: Includes factory prime.		
05 51 33 13 Vertical Metal Ladders (05 51 33)		
05 51 33 13-0001 Vertical Ladders (05 51 33 13)		
Note: Climbing rungs are 3/4" corrugated steel round rungs on 12" centers. Stand-off brackets are 7"		
05 51 33 13-0002 VLF 20" Wide Vertical Steel Ladder Primed	74.72	11.10
For Galvanized Steel, Add	9.98	
For Aluminum, Add	19.95	
05 51 33 13-0003 VLF 24" Wide Vertical Steel Ladder Primed	84.84	11.10
For Galvanized Steel, Add	12.51	
For Aluminum, Add	25.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 51 33 13-0004 VLF 20" Wide Vertical Steel Caged Ladder Primed..... <i>For Galvanized Steel, Add</i> <i>For Aluminum, Add</i>	174.88 28.98 57.96	18.50
05 51 33 13-0005 VLF 24" Wide Vertical Steel Caged Ladder Primed..... <i>For Galvanized Steel, Add</i> <i>For Aluminum, Add</i>	195.10 34.04 68.07	18.50
05 51 33 13-0006 Vertical Ladders Options (05 51 33 13)		
05 51 33 13-0007 EA 20" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed..... Note: Extends 42" above landing surface. Includes mounting bracket. <i>For Galvanized Steel, Add</i> <i>For Aluminum, Add</i>	267.30 49.48 98.96	34.68
05 51 33 13-0008 EA 24" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed..... Note: Extends 42" above landing surface. Includes mounting bracket. <i>For Galvanized Steel, Add</i> <i>For Aluminum, Add</i>	292.29 54.58 109.15	37.00
05 51 33 13-0009 EA Security Cage Entry Gate With Lockable Hasp.....	386.94	11.56
05 51 33 13-0010 EA 6' Security Ladder Guard	841.65	69.38
05 51 33 13-0011 EA 8' Security Ladder Guard	1,005.94	80.94
05 51 33 13-0012 EA Safety Chain Attachment	152.39	
05 51 33 13-0013 Welded Steel Ladder Cages (05 51 33 13)		
Note: For existing fixed ladders up to 20" wide. Excludes the ladder.		
05 51 33 13-0014 Powder Coated, Welded Steel Ladder Cages (05 51 33 13-0013)		
05 51 33 13-0015 EA 7-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,557.25	138.74
05 51 33 13-0016 EA 8-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,689.31	143.37
05 51 33 13-0017 EA 9-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,794.66	148.00
05 51 33 13-0018 EA 10-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,907.16	152.62
05 51 33 13-0019 EA 11-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,973.37	157.24
05 51 33 13-0020 EA 12-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,080.50	161.87
05 51 33 13-0021 EA 13-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,175.19	166.49
05 51 33 13-0022 EA 14-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,298.36	171.12
05 51 33 13-0023 EA 15-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,417.96	175.75
05 51 33 13-0024 EA 16-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,516.20	180.37
05 51 33 13-0025 EA 17-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,635.82	184.99
05 51 33 13-0026 EA 18-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,751.85	189.61
05 51 33 13-0027 EA 19-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,866.11	194.24
05 51 33 13-0028 EA 20-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	3,072.93	198.87
05 51 33 13-0029 EA 21-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	3,135.58	203.49
05 51 33 13-0030 EA 22-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	3,242.73	208.12
05 51 33 13-0031 EA 23-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	3,340.97	212.74
05 51 33 13-0032 EA 24-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	3,432.10	217.36
05 51 33 13-0033 EA 25-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	3,633.58	221.99
05 51 33 13-0034 EA 26-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	3,742.50	226.62
05 51 33 13-0035 EA 27-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	3,844.30	231.24
05 51 33 13-0036 Stainless Steel, Welded Steel Ladder Cages (05 51 33 13-0013)		
05 51 33 13-0037 EA 7-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	3,661.91	138.74
05 51 33 13-0038 EA 8-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	3,910.72	143.37
05 51 33 13-0039 EA 9-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	4,324.32	148.00
05 51 33 13-0040 EA 10-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	4,528.97	152.62
05 51 33 13-0041 EA 11-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	4,701.32	157.24
05 51 33 13-0042 EA 12-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	4,929.73	161.87
05 51 33 13-0043 EA 13-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	5,339.95	166.49
05 51 33 13-0044 EA 14-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	5,547.99	171.12
05 51 33 13-0045 EA 15-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	5,762.81	175.75
05 51 33 13-0046 EA 16-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	5,998.03	180.37
05 51 33 13-0047 EA 17-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	6,416.75	184.99
05 51 33 13-0048 EA 18-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	6,626.47	189.61
05 51 33 13-0049 EA 19-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	6,826.01	194.24
05 51 33 13-0050 EA 20-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	7,156.37	198.87
05 51 33 13-0051 EA 21-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	7,527.51	203.49
05 51 33 13-0052 EA 22-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	7,733.84	208.12
05 51 33 13-0053 EA 23-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	7,945.28	212.74
05 51 33 13-0054 EA 24-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	8,143.12	217.36
05 51 33 13-0055 EA 25-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	8,650.17	221.99
05 51 33 13-0056 EA 26-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	8,848.01	226.62
05 51 33 13-0057 EA 27-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	9,050.94	231.24
05 51 33 16 Inclined Metal Ladders (05 51 33)		
05 51 33 16-0001 Industrial Ship Ladder, Incline Stairs (05 51 33 16)		
Note: Includes factory prime.		
05 51 33 16-0002 RSR 3' Wide Industrial Steel Ship Ladder With 2 Rails Each Side..... <i>For Aluminum, Add</i>	252.86 80.18	46.24



Metals	05	05
Metal Fabrications	05 50	
Metal Stairs	05 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 51 33 23 Alternating Tread Ladders <small>(05 51 33)</small>		
05 51 33 23-0001 Vertical Ladders With Alternating Tread <small>(05 51 33 23)</small>		
05 51 33 23-0002 EA 4' Vertical Height Aluminum Alternating Tread Ladder.....	1,594.05	138.74
<i>For Stainless Steel, Add</i>	196.80	
<i>For Primed Steel, Deduct</i>	-191.42	
05 51 33 23-0003 EA 5' Vertical Height Aluminum Alternating Tread Ladder.....	1,816.97	147.07
<i>For Stainless Steel, Add</i>	240.90	
<i>For Primed Steel, Deduct</i>	-223.30	
05 51 33 23-0004 EA 6' Vertical Height Aluminum Alternating Tread Ladder.....	2,004.29	147.07
<i>For Stainless Steel, Add</i>	288.67	
<i>For Primed Steel, Deduct</i>	-241.55	
05 51 33 23-0005 EA 7' Vertical Height Aluminum Alternating Tread Ladder.....	2,300.87	184.80
<i>For Stainless Steel, Add</i>	347.24	
<i>For Primed Steel, Deduct</i>	-256.61	
05 51 33 23-0006 EA 8' Vertical Height Aluminum Alternating Tread Ladder.....	2,517.28	191.36
<i>For Stainless Steel, Add</i>	388.99	
<i>For Primed Steel, Deduct</i>	-298.53	
05 51 33 23-0007 EA 9' Vertical Height Aluminum Alternating Tread Ladder.....	2,682.79	191.36
<i>For Stainless Steel, Add</i>	453.51	
<i>For Primed Steel, Deduct</i>	-293.53	
05 51 33 23-0008 EA 10' Vertical Height Aluminum Alternating Tread Ladder.....	2,948.74	213.45
<i>For Stainless Steel, Add</i>	497.40	
<i>For Primed Steel, Deduct</i>	-327.55	
05 51 33 23-0009 EA 11' Vertical Height Aluminum Alternating Tread Ladder.....	3,134.19	213.45
<i>For Stainless Steel, Add</i>	546.61	
<i>For Primed Steel, Deduct</i>	-347.07	
05 51 33 23-0010 EA 12' Vertical Height Aluminum Alternating Tread Ladder.....	3,278.47	213.45
<i>For Stainless Steel, Add</i>	623.99	
<i>For Primed Steel, Deduct</i>	-346.65	

05 52 Metal Railings (05 52)

05 52 13 Pipe and Tube Railings (05 52)

Note: Includes embedded steel sleeves, grouting, connection bolts (where necessary) and drilling of bolt (where necessary).

05 52 13 00-0001 Welded Steel Pipe Railing (05 52 13)

Note: Includes field welds and touch-up of welds.

05 52 13 00-0002 One Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)

Note: Includes factory primed posts and one rail.

05 52 13 00-0003 LF 1" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	32.25	9.25
<i>For Schedule 80 Handrail, Add</i>	3.16	
<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-3.03	
<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-3.44	
<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-4.54	
<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-5.36	
<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	12.19	
<i>For Aluminum, Satin Finish, Add</i>	5.78	
<i>For Aluminum, Clear Anodized Finish, Add</i>	8.94	
<i>For Aluminum, Dark Anodized Finish, Add</i>	10.31	
<i>For Galvanizing, Add</i>	7.56	
<i>For Wrought Iron, Add</i>	3.23	
<i>For Solid Steel Rails, Add</i>	6.45	
<i>For 304 Stainless Steel, Add</i>	44.00	
<i>For 316 Stainless Steel, Add</i>	49.50	
<i>For 2" Wheel Guard, Add</i>	1.31	
<i>For 4" High Kick Plate, Add</i>	1.72	
<i>For 6" High Kick Plate, Add</i>	2.75	
<i>For Curved Rail, Add</i>	13.80	
<i>For Mounting On Stairs, Add</i>	9.68	
<i>For Mounting On Slopes, Add</i>	3.23	
<i>For Post Base Flange With Screws, Add Per Post</i>	19.35	
<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	29.28	
<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	11.50	
<i>For Nylon Coating, Add</i>	2.06	

05	05	Metals
	05 50	Metal Fabrications
	05 52	Metal Railings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0004 LF 1-1/4" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	34.61	9.25
For Schedule 80 Handrail, Add	4.62	
For 11 Gauge A513 Steel Tubing, Deduct	-3.54	
For 12 Gauge A513 Steel Tubing, Deduct	-4.03	
For 14 Gauge A513 Steel Tubing, Deduct	-5.32	
For 16 Gauge A513 Steel Tubing, Deduct	-6.28	
For Additional Off Set Handrail, ADA Attachment, Add	12.19	
For Aluminum, Satin Finish, Add	6.77	
For Aluminum, Clear Anodized Finish, Add	10.47	
For Aluminum, Dark Anodized Finish, Add	12.08	
For Galvanizing, Add	8.86	
For Wrought Iron, Add	3.46	
For Solid Steel Rails, Add	6.92	
For 304 Stainless Steel, Add	51.55	
For 316 Stainless Steel, Add	58.00	
For 2" Wheel Guard, Add	1.53	
For 4" High Kick Plate, Add	2.01	
For 6" High Kick Plate, Add	3.22	
For Curved Rail, Add	15.22	
For Mounting On Stairs, Add	10.38	
For Mounting On Slopes, Add	3.46	
For Post Base Flange With Screws, Add Per Post	19.35	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.28	
For Custom Design Or Shapes (Square Tops, etc), Add	12.68	
For Nylon Coating, Add	2.42	
05 52 13 00-0005 LF 1-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	36.98	9.25
For Schedule 80 Handrail, Add	4.62	
For 11 Gauge A513 Steel Tubing, Deduct	-4.07	
For 12 Gauge A513 Steel Tubing, Deduct	-4.62	
For 14 Gauge A513 Steel Tubing, Deduct	-6.10	
For 16 Gauge A513 Steel Tubing, Deduct	-7.21	
For Additional Off Set Handrail, ADA Attachment, Add	12.19	
For Aluminum, Satin Finish, Add	7.76	
For Aluminum, Clear Anodized Finish, Add	12.01	
For Aluminum, Dark Anodized Finish, Add	13.86	
For Galvanizing, Add	10.16	
For Wrought Iron, Add	3.70	
For Solid Steel Rails, Add	7.40	
For 304 Stainless Steel, Add	59.14	
For 316 Stainless Steel, Add	66.53	
For 2" Wheel Guard, Add	1.76	
For 4" High Kick Plate, Add	2.31	
For 6" High Kick Plate, Add	3.70	
For Curved Rail, Add	16.64	
For Mounting On Stairs, Add	11.09	
For Mounting On Slopes, Add	3.70	
For Post Base Flange With Screws, Add Per Post	19.35	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.28	
For Custom Design Or Shapes (Square Tops, etc), Add	13.87	
For Nylon Coating, Add	2.77	
05 52 13 00-0006 LF 2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	41.09	9.25
For Schedule 80 Handrail, Add	5.21	
For 11 Gauge A513 Steel Tubing, Deduct	-4.97	
For 12 Gauge A513 Steel Tubing, Deduct	-5.65	
For 14 Gauge A513 Steel Tubing, Deduct	-7.45	
For 16 Gauge A513 Steel Tubing, Deduct	-8.81	
For Additional Off Set Handrail, ADA Attachment, Add	12.19	
For Aluminum, Satin Finish, Add	9.49	
For Aluminum, Clear Anodized Finish, Add	14.68	
For Aluminum, Dark Anodized Finish, Add	16.94	
For Galvanizing, Add	12.42	
For Wrought Iron, Add	4.11	
For Solid Steel Rails, Add	8.22	
For 304 Stainless Steel, Add	72.29	
For 316 Stainless Steel, Add	81.32	
For 2" Wheel Guard, Add	2.15	
For 4" High Kick Plate, Add	2.82	
For 6" High Kick Plate, Add	4.52	
For Curved Rail, Add	19.10	
For Mounting On Stairs, Add	12.33	
For Mounting On Slopes, Add	4.11	
For Post Base Flange With Screws, Add Per Post	19.35	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.28	
For Custom Design Or Shapes (Square Tops, etc), Add	15.92	
For Nylon Coating, Add	3.39	



Metals	05	05
Metal Fabrications	05 50	
Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0007 LF 2-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	46.01	9.25
For Schedule 80 Handrail, Add	5.81	
For 11 Gauge A513 Steel Tubing, Deduct	-6.05	
For 12 Gauge A513 Steel Tubing, Deduct	-6.88	
For 14 Gauge A513 Steel Tubing, Deduct	-9.08	
For 16 Gauge A513 Steel Tubing, Deduct	-10.73	
For Additional Off Set Handrail, ADA Attachment, Add	12.19	
For Aluminum, Satin Finish, Add	11.55	
For Aluminum, Clear Anodized Finish, Add	17.88	
For Aluminum, Dark Anodized Finish, Add	20.63	
For Galvanizing, Add	15.13	
For Wrought Iron, Add	4.60	
For Solid Steel Rails, Add	9.20	
For 304 Stainless Steel, Add	88.03	
For 316 Stainless Steel, Add	99.04	
For 2" Wheel Guard, Add	2.61	
For 4" High Kick Plate, Add	3.44	
For 6" High Kick Plate, Add	5.50	
For Curved Rail, Add	22.06	
For Mounting On Stairs, Add	13.80	
For Mounting On Slopes, Add	4.60	
For Post Base Flange With Screws, Add Per Post	19.35	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.28	
For Custom Design Or Shapes (Square Tops, etc), Add	18.38	
For Nylon Coating, Add	4.13	
05 52 13 00-0008 Two Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)		
Note: Includes factory primed posts and two rails.		
05 52 13 00-0009 LF 1" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	42.71	9.25
For Schedule 80 Handrail, Add	3.16	
For 11 Gauge A513 Steel Tubing, Deduct	-5.33	
For 12 Gauge A513 Steel Tubing, Deduct	-6.05	
For 14 Gauge A513 Steel Tubing, Deduct	-7.99	
For 16 Gauge A513 Steel Tubing, Deduct	-9.44	
For Additional Off Set Handrail, ADA Attachment, Add	12.19	
For Aluminum, Satin Finish, Add	10.17	
For Aluminum, Clear Anodized Finish, Add	15.74	
For Aluminum, Dark Anodized Finish, Add	18.16	
For Galvanizing, Add	13.32	
For Wrought Iron, Add	4.27	
For Solid Steel Rails, Add	8.54	
For 304 Stainless Steel, Add	77.47	
For 316 Stainless Steel, Add	87.16	
For 2" Wheel Guard, Add	2.30	
For 4" High Kick Plate, Add	3.03	
For 6" High Kick Plate, Add	4.84	
For Curved Rail, Add	20.08	
For Mounting On Stairs, Add	12.81	
For Mounting On Slopes, Add	4.27	
For Post Base Flange With Screws, Add Per Post	19.35	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.28	
For Custom Design Or Shapes (Square Tops, etc), Add	16.73	
For Nylon Coating, Add	3.63	
05 52 13 00-0010 LF 1-1/4" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	46.88	9.25
For Schedule 80 Handrail, Add	4.62	
For 11 Gauge A513 Steel Tubing, Deduct	-6.24	
For 12 Gauge A513 Steel Tubing, Deduct	-7.10	
For 14 Gauge A513 Steel Tubing, Deduct	-9.37	
For 16 Gauge A513 Steel Tubing, Deduct	-11.07	
For Additional Off Set Handrail, ADA Attachment, Add	12.19	
For Aluminum, Satin Finish, Add	11.92	
For Aluminum, Clear Anodized Finish, Add	18.45	
For Aluminum, Dark Anodized Finish, Add	21.29	
For Galvanizing, Add	15.61	
For Wrought Iron, Add	4.69	
For Solid Steel Rails, Add	9.38	
For 304 Stainless Steel, Add	90.82	
For 316 Stainless Steel, Add	102.17	
For 2" Wheel Guard, Add	2.70	
For 4" High Kick Plate, Add	3.55	
For 6" High Kick Plate, Add	5.68	
For Curved Rail, Add	22.58	
For Mounting On Stairs, Add	14.06	
For Mounting On Slopes, Add	4.69	
For Post Base Flange With Screws, Add Per Post	19.35	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.28	
For Custom Design Or Shapes (Square Tops, etc), Add	18.82	
For Nylon Coating, Add	4.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0011 LF 1-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	51.05	9.25
For Schedule 80 Handrail, Add	4.62	
For 11 Gauge A513 Steel Tubing, Deduct	-7.16	
For 12 Gauge A513 Steel Tubing, Deduct	-8.14	
For 14 Gauge A513 Steel Tubing, Deduct	-10.74	
For 16 Gauge A513 Steel Tubing, Deduct	-12.69	
For Additional Off Set Handrail, ADA Attachment, Add	12.19	
For Aluminum, Satin Finish, Add	13.67	
For Aluminum, Clear Anodized Finish, Add	21.16	
For Aluminum, Dark Anodized Finish, Add	24.41	
For Galvanizing, Add	17.90	
For Wrought Iron, Add	5.11	
For Solid Steel Rails, Add	10.21	
For 304 Stainless Steel, Add	104.16	
For 316 Stainless Steel, Add	117.18	
For 2" Wheel Guard, Add	3.09	
For 4" High Kick Plate, Add	4.07	
For 6" High Kick Plate, Add	6.51	
For Curved Rail, Add	25.08	
For Mounting On Stairs, Add	15.32	
For Mounting On Slopes, Add	5.11	
For Post Base Flange With Screws, Add Per Post	19.35	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.28	
For Custom Design Or Shapes (Square Tops, etc), Add	20.90	
For Nylon Coating, Add	4.88	
05 52 13 00-0012 LF 2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	58.28	9.25
For Schedule 80 Handrail, Add	5.21	
For 11 Gauge A513 Steel Tubing, Deduct	-8.75	
For 12 Gauge A513 Steel Tubing, Deduct	-9.95	
For 14 Gauge A513 Steel Tubing, Deduct	-13.13	
For 16 Gauge A513 Steel Tubing, Deduct	-15.51	
For Additional Off Set Handrail, ADA Attachment, Add	12.19	
For Aluminum, Satin Finish, Add	16.71	
For Aluminum, Clear Anodized Finish, Add	25.86	
For Aluminum, Dark Anodized Finish, Add	29.84	
For Galvanizing, Add	21.88	
For Wrought Iron, Add	5.83	
For Solid Steel Rails, Add	11.66	
For 304 Stainless Steel, Add	127.30	
For 316 Stainless Steel, Add	143.21	
For 2" Wheel Guard, Add	3.78	
For 4" High Kick Plate, Add	4.97	
For 6" High Kick Plate, Add	7.96	
For Curved Rail, Add	29.42	
For Mounting On Stairs, Add	17.48	
For Mounting On Slopes, Add	5.83	
For Post Base Flange With Screws, Add Per Post	19.35	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.28	
For Custom Design Or Shapes (Square Tops, etc), Add	24.52	
For Nylon Coating, Add	5.97	
05 52 13 00-0013 LF 2-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	66.95	9.25
For Schedule 80 Handrail, Add	5.81	
For 11 Gauge A513 Steel Tubing, Deduct	-10.66	
For 12 Gauge A513 Steel Tubing, Deduct	-12.11	
For 14 Gauge A513 Steel Tubing, Deduct	-15.99	
For 16 Gauge A513 Steel Tubing, Deduct	-18.90	
For Additional Off Set Handrail, ADA Attachment, Add	12.19	
For Aluminum, Satin Finish, Add	20.35	
For Aluminum, Clear Anodized Finish, Add	31.49	
For Aluminum, Dark Anodized Finish, Add	36.34	
For Galvanizing, Add	26.65	
For Wrought Iron, Add	6.70	
For Solid Steel Rails, Add	13.39	
For 304 Stainless Steel, Add	155.04	
For 316 Stainless Steel, Add	174.42	
For 2" Wheel Guard, Add	4.60	
For 4" High Kick Plate, Add	6.06	
For 6" High Kick Plate, Add	9.69	
For Curved Rail, Add	34.62	
For Mounting On Stairs, Add	20.09	
For Mounting On Slopes, Add	6.70	
For Post Base Flange With Screws, Add Per Post	19.35	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.28	
For Custom Design Or Shapes (Square Tops, etc), Add	28.85	
For Nylon Coating, Add	7.27	

05 52 13 00-0014 Three Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)
 Note: Includes factory primed posts and three rails.



	Metals	05
	Metal Fabrications	05 50
	Metal Railings	05 52

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0015 LF 1" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	66.33	11.10
For Schedule 80 Handrail, Add	4.69	
For 11 Gauge A513 Steel Tubing, Deduct	-9.71	
For 12 Gauge A513 Steel Tubing, Deduct	-11.03	
For 14 Gauge A513 Steel Tubing, Deduct	-14.56	
For 16 Gauge A513 Steel Tubing, Deduct	-17.21	
For Additional Off Set Handrail, ADA Attachment, Add	12.93	
For Aluminum, Satin Finish, Add	18.53	
For Aluminum, Clear Anodized Finish, Add	28.68	
For Aluminum, Dark Anodized Finish, Add	33.10	
For Galvanizing, Add	24.27	
For Wrought Iron, Add	6.63	
For Solid Steel Rails, Add	13.27	
For 304 Stainless Steel, Add	141.22	
For 316 Stainless Steel, Add	158.87	
For 2" Wheel Guard, Add	4.19	
For 4" High Kick Plate, Add	5.52	
For 6" High Kick Plate, Add	8.83	
For Curved Rail, Add	33.14	
For Mounting On Stairs, Add	19.90	
For Mounting On Slopes, Add	6.63	
For Post Base Flange With Screws, Add Per Post	19.72	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.83	
For Custom Design Or Shapes (Square Tops, etc), Add	27.62	
For Nylon Coating, Add	6.62	
05 52 13 00-0016 LF 1-1/4" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	73.93	11.10
For Schedule 80 Handrail, Add	6.64	
For 11 Gauge A513 Steel Tubing, Deduct	-11.38	
For 12 Gauge A513 Steel Tubing, Deduct	-12.93	
For 14 Gauge A513 Steel Tubing, Deduct	-17.07	
For 16 Gauge A513 Steel Tubing, Deduct	-20.17	
For Additional Off Set Handrail, ADA Attachment, Add	12.93	
For Aluminum, Satin Finish, Add	21.73	
For Aluminum, Clear Anodized Finish, Add	33.62	
For Aluminum, Dark Anodized Finish, Add	38.80	
For Galvanizing, Add	28.45	
For Wrought Iron, Add	7.39	
For Solid Steel Rails, Add	14.79	
For 304 Stainless Steel, Add	165.54	
For 316 Stainless Steel, Add	186.23	
For 2" Wheel Guard, Add	4.91	
For 4" High Kick Plate, Add	6.47	
For 6" High Kick Plate, Add	10.35	
For Curved Rail, Add	37.70	
For Mounting On Stairs, Add	22.18	
For Mounting On Slopes, Add	7.39	
For Post Base Flange With Screws, Add Per Post	19.72	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.83	
For Custom Design Or Shapes (Square Tops, etc), Add	31.42	
For Nylon Coating, Add	7.76	
05 52 13 00-0017 LF 1-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	81.52	11.10
For Schedule 80 Handrail, Add	6.64	
For 11 Gauge A513 Steel Tubing, Deduct	-13.05	
For 12 Gauge A513 Steel Tubing, Deduct	-14.83	
For 14 Gauge A513 Steel Tubing, Deduct	-19.58	
For 16 Gauge A513 Steel Tubing, Deduct	-23.13	
For Additional Off Set Handrail, ADA Attachment, Add	12.93	
For Aluminum, Satin Finish, Add	24.91	
For Aluminum, Clear Anodized Finish, Add	38.56	
For Aluminum, Dark Anodized Finish, Add	44.49	
For Galvanizing, Add	32.63	
For Wrought Iron, Add	8.15	
For Solid Steel Rails, Add	16.30	
For 304 Stainless Steel, Add	189.82	
For 316 Stainless Steel, Add	213.55	
For 2" Wheel Guard, Add	5.64	
For 4" High Kick Plate, Add	7.42	
For 6" High Kick Plate, Add	11.86	
For Curved Rail, Add	42.25	
For Mounting On Stairs, Add	24.46	
For Mounting On Slopes, Add	8.15	
For Post Base Flange With Screws, Add Per Post	19.72	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.83	
For Custom Design Or Shapes (Square Tops, etc), Add	35.21	
For Nylon Coating, Add	8.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0018 LF 2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	94.73	11.10
For Schedule 80 Handrail, Add	7.43	
For 11 Gauge A513 Steel Tubing, Deduct	-15.96	
For 12 Gauge A513 Steel Tubing, Deduct	-18.13	
For 14 Gauge A513 Steel Tubing, Deduct	-23.93	
For 16 Gauge A513 Steel Tubing, Deduct	-28.29	
For Additional Off Set Handrail, ADA Attachment, Add	12.93	
For Aluminum, Satin Finish, Add	30.46	
For Aluminum, Clear Anodized Finish, Add	47.14	
For Aluminum, Dark Anodized Finish, Add	54.40	
For Galvanizing, Add	39.89	
For Wrought Iron, Add	9.47	
For Solid Steel Rails, Add	18.95	
For 304 Stainless Steel, Add	232.10	
For 316 Stainless Steel, Add	261.11	
For 2" Wheel Guard, Add	6.89	
For 4" High Kick Plate, Add	9.07	
For 6" High Kick Plate, Add	14.51	
For Curved Rail, Add	50.18	
For Mounting On Stairs, Add	28.42	
For Mounting On Slopes, Add	9.47	
For Post Base Flange With Screws, Add Per Post	19.72	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.83	
For Custom Design Or Shapes (Square Tops, etc), Add	41.82	
For Nylon Coating, Add	10.88	
05 52 13 00-0019 LF 2-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	110.46	11.10
For Schedule 80 Handrail, Add	8.22	
For 11 Gauge A513 Steel Tubing, Deduct	-19.42	
For 12 Gauge A513 Steel Tubing, Deduct	-22.07	
For 14 Gauge A513 Steel Tubing, Deduct	-29.13	
For 16 Gauge A513 Steel Tubing, Deduct	-34.42	
For Additional Off Set Handrail, ADA Attachment, Add	12.93	
For Aluminum, Satin Finish, Add	37.07	
For Aluminum, Clear Anodized Finish, Add	57.37	
For Aluminum, Dark Anodized Finish, Add	66.20	
For Galvanizing, Add	48.54	
For Wrought Iron, Add	11.05	
For Solid Steel Rails, Add	22.09	
For 304 Stainless Steel, Add	282.43	
For 316 Stainless Steel, Add	317.74	
For 2" Wheel Guard, Add	8.38	
For 4" High Kick Plate, Add	11.03	
For 6" High Kick Plate, Add	17.65	
For Curved Rail, Add	59.62	
For Mounting On Stairs, Add	33.14	
For Mounting On Slopes, Add	11.05	
For Post Base Flange With Screws, Add Per Post	19.72	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.83	
For Custom Design Or Shapes (Square Tops, etc), Add	49.68	
For Nylon Coating, Add	13.24	
05 52 13 00-0020 Four Rail, Up To 42" High, Welded Steel Pipe Railings <small>(05 52 13 00-0001)</small>		
Note: Includes factory primed posts and four rails.		
05 52 13 00-0021 LF 1" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	80.05	12.95
For Schedule 80 Handrail, Add	6.45	
For 11 Gauge A513 Steel Tubing, Deduct	-11.92	
For 12 Gauge A513 Steel Tubing, Deduct	-13.54	
For 14 Gauge A513 Steel Tubing, Deduct	-17.87	
For 16 Gauge A513 Steel Tubing, Deduct	-21.12	
For Additional Off Set Handrail, ADA Attachment, Add	13.67	
For Aluminum, Satin Finish, Add	22.75	
For Aluminum, Clear Anodized Finish, Add	35.20	
For Aluminum, Dark Anodized Finish, Add	40.62	
For Galvanizing, Add	29.79	
For Wrought Iron, Add	8.01	
For Solid Steel Rails, Add	16.01	
For 304 Stainless Steel, Add	173.31	
For 316 Stainless Steel, Add	194.98	
For 2" Wheel Guard, Add	5.15	
For 4" High Kick Plate, Add	6.77	
For 6" High Kick Plate, Add	10.83	
For Curved Rail, Add	40.26	
For Mounting On Stairs, Add	24.02	
For Mounting On Slopes, Add	8.01	
For Post Base Flange With Screws, Add Per Post	20.09	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.38	
For Custom Design Or Shapes (Square Tops, etc), Add	33.55	
For Nylon Coating, Add	8.12	



	Metals	05
	Metal Fabrications	05 50
	Metal Railings	05 52

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0022 LF 1-1/4" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	86.79	12.95
For Schedule 80 Handrail, Add	8.88	
For 11 Gauge A513 Steel Tubing, Deduct	-13.40	
For 12 Gauge A513 Steel Tubing, Deduct	-15.23	
For 14 Gauge A513 Steel Tubing, Deduct	-20.10	
For 16 Gauge A513 Steel Tubing, Deduct	-23.75	
For Additional Off Set Handrail, ADA Attachment, Add	13.67	
For Aluminum, Satin Finish, Add	25.58	
For Aluminum, Clear Anodized Finish, Add	39.59	
For Aluminum, Dark Anodized Finish, Add	45.68	
For Galvanizing, Add	33.50	
For Wrought Iron, Add	8.68	
For Solid Steel Rails, Add	17.36	
For 304 Stainless Steel, Add	194.88	
For 316 Stainless Steel, Add	219.24	
For 2" Wheel Guard, Add	5.79	
For 4" High Kick Plate, Add	7.61	
For 6" High Kick Plate, Add	12.18	
For Curved Rail, Add	44.31	
For Mounting On Stairs, Add	26.04	
For Mounting On Slopes, Add	8.68	
For Post Base Flange With Screws, Add Per Post	20.09	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.38	
For Custom Design Or Shapes (Square Tops, etc), Add	36.92	
For Nylon Coating, Add	9.14	
05 52 13 00-0023 LF 1-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	93.54	12.95
For Schedule 80 Handrail, Add	8.88	
For 11 Gauge A513 Steel Tubing, Deduct	-14.88	
For 12 Gauge A513 Steel Tubing, Deduct	-16.91	
For 14 Gauge A513 Steel Tubing, Deduct	-22.32	
For 16 Gauge A513 Steel Tubing, Deduct	-26.38	
For Additional Off Set Handrail, ADA Attachment, Add	13.67	
For Aluminum, Satin Finish, Add	28.41	
For Aluminum, Clear Anodized Finish, Add	43.97	
For Aluminum, Dark Anodized Finish, Add	50.74	
For Galvanizing, Add	37.21	
For Wrought Iron, Add	9.35	
For Solid Steel Rails, Add	18.71	
For 304 Stainless Steel, Add	216.48	
For 316 Stainless Steel, Add	243.54	
For 2" Wheel Guard, Add	6.43	
For 4" High Kick Plate, Add	8.46	
For 6" High Kick Plate, Add	13.53	
For Curved Rail, Add	48.36	
For Mounting On Stairs, Add	28.06	
For Mounting On Slopes, Add	9.35	
For Post Base Flange With Screws, Add Per Post	20.09	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.38	
For Custom Design Or Shapes (Square Tops, etc), Add	40.30	
For Nylon Coating, Add	10.15	
05 52 13 00-0024 LF 2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	108.57	12.95
For Schedule 80 Handrail, Add	9.86	
For 11 Gauge A513 Steel Tubing, Deduct	-18.19	
For 12 Gauge A513 Steel Tubing, Deduct	-20.67	
For 14 Gauge A513 Steel Tubing, Deduct	-27.28	
For 16 Gauge A513 Steel Tubing, Deduct	-32.25	
For Additional Off Set Handrail, ADA Attachment, Add	13.67	
For Aluminum, Satin Finish, Add	34.73	
For Aluminum, Clear Anodized Finish, Add	53.74	
For Aluminum, Dark Anodized Finish, Add	62.01	
For Galvanizing, Add	45.47	
For Wrought Iron, Add	10.86	
For Solid Steel Rails, Add	21.71	
For 304 Stainless Steel, Add	264.58	
For 316 Stainless Steel, Add	297.65	
For 2" Wheel Guard, Add	7.85	
For 4" High Kick Plate, Add	10.34	
For 6" High Kick Plate, Add	16.54	
For Curved Rail, Add	57.38	
For Mounting On Stairs, Add	32.57	
For Mounting On Slopes, Add	10.86	
For Post Base Flange With Screws, Add Per Post	20.09	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.38	
For Custom Design Or Shapes (Square Tops, etc), Add	47.81	
For Nylon Coating, Add	12.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0025 LF 2-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	126.18	12.95
For Schedule 80 Handrail, Add	10.86	
For 11 Gauge A513 Steel Tubing, Deduct	-22.06	
For 12 Gauge A513 Steel Tubing, Deduct	-25.07	
For 14 Gauge A513 Steel Tubing, Deduct	-33.10	
For 16 Gauge A513 Steel Tubing, Deduct	-39.11	
For Additional Off Set Handrail, ADA Attachment, Add	13.67	
For Aluminum, Satin Finish, Add	42.12	
For Aluminum, Clear Anodized Finish, Add	65.19	
For Aluminum, Dark Anodized Finish, Add	75.22	
For Galvanizing, Add	55.16	
For Wrought Iron, Add	12.62	
For Solid Steel Rails, Add	25.24	
For 304 Stainless Steel, Add	320.93	
For 316 Stainless Steel, Add	361.04	
For 2" Wheel Guard, Add	9.53	
For 4" High Kick Plate, Add	12.54	
For 6" High Kick Plate, Add	20.06	
For Curved Rail, Add	67.94	
For Mounting On Stairs, Add	37.85	
For Mounting On Slopes, Add	12.62	
For Post Base Flange With Screws, Add Per Post	20.09	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.38	
For Custom Design Or Shapes (Square Tops, etc), Add	56.62	
For Nylon Coating, Add	15.04	
05 52 13 00-0026 Railing Infill Panels (05 52 13)		
Note: Includes field welds and touch-up of welds.		
05 52 13 00-0027 Wire Mesh Or Welded Wire Mesh, Railing Infill Panels (05 52 13 00-0026)		
Note: Square weave or square welded wire mesh.		
05 52 13 00-0028 SF Powder Coated Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel.....	10.32	
05 52 13 00-0029 SF Galvanized Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	10.96	
05 52 13 00-0030 SF Aluminum, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel.....	11.52	
05 52 13 00-0031 SF Stainless Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel.....	19.48	
05 52 13 00-0032 Perforated Metal, Railing Infill Panels (05 52 13 00-0026)		
05 52 13 00-0033 SF Powder Coated Steel, Perforated Metal, Railing Infill Panel	10.12	
05 52 13 00-0034 SF Galvanized Steel, Perforated Metal, Railing Infill Panel	10.46	
05 52 13 00-0035 SF Aluminum, Perforated Metal, Railing Infill Panel	11.20	
05 52 13 00-0036 SF Stainless Steel, Perforated Metal, Railing Infill Panel.....	22.48	
05 52 13 00-0037 Expanded Metal, Railing Infill Panels (05 52 13 00-0026)		
05 52 13 00-0038 SF Powder Coated Steel, Expanded Metal, Railing Infill Panel.....	4.57	
05 52 13 00-0039 SF Galvanized Steel, Expanded Metal, Railing Infill Panel.....	9.33	
05 52 13 00-0040 SF Aluminum, Expanded Metal, Railing Infill Panel.....	12.25	
05 52 13 00-0041 SF Stainless Steel, Expanded Metal, Railing Infill Panel.....	18.26	
05 52 13 00-0042 Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings (05 52 13)		
Note: Includes factory primed, fasteners and field touch-up of welds.		
05 52 13 00-0043 LF 1" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	32.40	5.55
For Schedule 80 Handrail, Add	1.90	
For 11 Gauge A513 Steel Tubing, Deduct	-4.08	
For 12 Gauge A513 Steel Tubing, Deduct	-4.63	
For 14 Gauge A513 Steel Tubing, Deduct	-6.11	
For 16 Gauge A513 Steel Tubing, Deduct	-7.23	
For Stainless Steel, Add	37.06	
For Aluminum, Satin Finish, Add	7.78	
For Curved Rail, Add	9.72	
For Aluminum, Clear Anodized Finish, Add	12.04	
For Aluminum, Dark Anodized Finish, Add	13.90	
For Galvanized Finish, Add	5.56	
05 52 13 00-0044 LF 1-1/4" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	33.00	5.55
For Schedule 80 Handrail, Add	2.14	
For 11 Gauge A513 Steel Tubing, Deduct	-4.21	
For 12 Gauge A513 Steel Tubing, Deduct	-4.78	
For 14 Gauge A513 Steel Tubing, Deduct	-6.31	
For 16 Gauge A513 Steel Tubing, Deduct	-7.46	
For Stainless Steel, Add	38.26	
For Aluminum, Satin Finish, Add	8.03	
For Curved Rail, Add	9.90	
For Aluminum, Clear Anodized Finish, Add	12.43	
For Aluminum, Dark Anodized Finish, Add	14.35	
For Galvanized Finish, Add	5.74	



	Metals	05	
	Metal Fabrications	05 50	05
	Metal Railings	05 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0045	LF		1-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	33.60	5.55
			<i>For Schedule 80 Handrail, Add</i>	5.39	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-4.34	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-4.93	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-6.51	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-7.69	
			<i>For Stainless Steel, Add</i>	39.46	
			<i>For Aluminum, Satin Finish, Add</i>	8.29	
			<i>For Curved Rail, Add</i>	10.08	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	12.82	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	14.80	
			<i>For Galvanized Finish, Add</i>	5.92	
05 52 13 00-0046	LF		2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	40.47	5.55
			<i>For Schedule 80 Handrail, Add</i>	2.59	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-5.85	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-6.65	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-8.78	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-10.37	
			<i>For Stainless Steel, Add</i>	53.20	
			<i>For Aluminum, Satin Finish, Add</i>	11.17	
			<i>For Curved Rail, Add</i>	12.14	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	17.29	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	19.95	
			<i>For Galvanized Finish, Add</i>	7.98	
05 52 13 00-0047	LF		2-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	46.15	5.55
			<i>For Schedule 80 Handrail, Add</i>	2.79	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-7.10	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-8.07	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-10.65	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-12.59	
			<i>For Stainless Steel, Add</i>	64.56	
			<i>For Aluminum, Satin Finish, Add</i>	13.56	
			<i>For Curved Rail, Add</i>	13.85	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	20.98	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	24.21	
			<i>For Galvanized Finish, Add</i>	9.68	
05 52 13 00-0048			Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel		
			Pipe Railings <small>(05 52 13)</small>		
			Note: Includes factory primed, fasteners and field touch-up of welds.		
05 52 13 00-0049	LF		1" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	39.43	5.83
			<i>For Schedule 80 Handrail, Add</i>	1.90	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-5.62	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-6.39	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-8.43	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-9.97	
			<i>For Stainless Steel, Add</i>	51.12	
			<i>For Aluminum, Satin Finish, Add</i>	10.74	
			<i>For Curved Rail, Add</i>	11.83	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	16.61	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	19.17	
			<i>For Galvanized Finish, Add</i>	7.67	
05 52 13 00-0050	LF		1-1/4" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	40.26	5.83
			<i>For Schedule 80 Handrail, Add</i>	2.14	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-5.81	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-6.60	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-8.71	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-10.29	
			<i>For Stainless Steel, Add</i>	52.78	
			<i>For Aluminum, Satin Finish, Add</i>	11.08	
			<i>For Curved Rail, Add</i>	12.08	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	17.15	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	19.79	
			<i>For Galvanized Finish, Add</i>	7.92	
05 52 13 00-0051	LF		1-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	40.89	5.83
			<i>For Schedule 80 Handrail, Add</i>	5.39	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-5.94	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-6.76	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-8.92	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-10.54	
			<i>For Stainless Steel, Add</i>	54.04	
			<i>For Aluminum, Satin Finish, Add</i>	11.35	
			<i>For Curved Rail, Add</i>	12.27	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	17.56	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	20.27	
			<i>For Galvanized Finish, Add</i>	8.11	

05	05 Metals
	05 50 Metal Fabrications
	05 52 Metal Railings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0052	LF		2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	50.48	5.83
			<i>For Schedule 80 Handrail, Add</i>	2.59	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-8.05	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-9.15	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-12.08	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-14.28	
			<i>For Stainless Steel, Add</i>	73.22	
			<i>For Aluminum, Satin Finish, Add</i>	15.38	
			<i>For Curved Rail, Add</i>	15.14	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	23.80	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	27.46	
			<i>For Galvanized Finish, Add</i>	10.98	
05 52 13 00-0053	LF		2-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	56.76	5.83
			<i>For Schedule 80 Handrail, Add</i>	2.79	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-9.44	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-10.72	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-14.15	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-16.73	
			<i>For Stainless Steel, Add</i>	85.78	
			<i>For Aluminum, Satin Finish, Add</i>	18.01	
			<i>For Curved Rail, Add</i>	17.03	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	27.88	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	32.17	
			<i>For Galvanized Finish, Add</i>	12.87	
05 52 13 00-0054			Remove/Reinstall Pipe Railing <small>(05 52 13)</small>		
05 52 13 00-0055	LF		Removal And Reinstallation Of Wall Bracket Mounted Pipe Railing	20.81	
05 52 13 00-0056	LF		Removal And Reinstallation Of Floor Mounted Pipe Railing	27.34	
05 52 13 00-0057	EA		Install New Galvanized Steel Pipe Railing Bracket	50.46	
			<i>For Stainless Steel, Add</i>	45.42	
05 53			Metal Gratings <small>(05 50)</small>		
05 53 13			Bar Gratings <small>(05 53)</small>		
05 53 13 00-0001			Welded Grating <small>(05 53 13)</small>		
			Note: Sizes are for height and width of bearing bars. Welded grating is open grid grating which has bearing bars and cross bars locked in place by resistance welding, or conventional hand welding. Resistance welded grating is produced on precise automated production equipment by combining hydraulic pressure with a powerful electric current to fuse - electroforge - the cross bar and bearing bar into a single rigid panel.		
05 53 13 00-0002			Steel, Welded Grating <small>(05 53 13 00-0001)</small>		
			Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0003	SF		3/4" x 1/8" Steel, Welded Grating	7.90	1.02
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	1.00	
			<i>For 304 Stainless Steel, Add</i>	18.84	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	1.71	
			<i>For Crossbars At 2" On-Center, Add</i>	0.63	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-1.51	
05 53 13 00-0004	SF		3/4" x 3/16" Steel, Welded Grating	10.33	1.02
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	1.41	
			<i>For 304 Stainless Steel, Add</i>	26.64	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	2.42	
			<i>For Crossbars At 2" On-Center, Add</i>	0.90	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-1.57	
05 53 13 00-0005	SF		1" x 1/8" Steel, Welded Grating	9.47	1.02
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	1.26	
			<i>For 304 Stainless Steel, Add</i>	23.88	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	2.17	
			<i>For Crossbars At 2" On-Center, Add</i>	0.80	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-1.55	
05 53 13 00-0006	SF		1" x 3/16" Steel, Welded Grating	12.77	1.02
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	1.83	
			<i>For 304 Stainless Steel, Add</i>	34.48	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	3.14	
			<i>For Crossbars At 2" On-Center, Add</i>	1.16	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-1.63	



	Metals	05	05
	Metal Fabrications	05 50	
	Metal Gratings	05 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0007 SF 1" x 1/4" Steel, Welded Grating.....	16.07	1.02
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.39	
For 304 Stainless Steel, Add	45.07	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	4.10	
For Crossbars At 2" On-Center, Add	1.52	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.71	
05 53 13 00-0008 SF 1-1/4" x 1/8" Steel, Welded Grating	11.05	1.02
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.53	
For 304 Stainless Steel, Add	28.95	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	2.63	
For Crossbars At 2" On-Center, Add	0.97	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.59	
05 53 13 00-0009 SF 1-1/4" x 3/16" Steel, Welded Grating.....	15.06	1.02
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.22	
For 304 Stainless Steel, Add	41.83	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	3.80	
For Crossbars At 2" On-Center, Add	1.41	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.69	
05 53 13 00-0010 SF 1-1/2" x 1/8" Steel, Welded Grating	12.63	1.02
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.80	
For 304 Stainless Steel, Add	34.03	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	3.10	
For Crossbars At 2" On-Center, Add	1.14	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.63	
05 53 13 00-0011 SF 1-1/2" x 3/16" Steel, Welded Grating.....	17.93	1.25
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.62	
For 304 Stainless Steel, Add	49.56	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	4.51	
For Crossbars At 2" On-Center, Add	1.67	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.05	
05 53 13 00-0012 SF 1-1/2" x 1/4" Steel, Welded Grating	22.95	1.25
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.48	
For 304 Stainless Steel, Add	65.68	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	5.97	
For Crossbars At 2" On-Center, Add	2.21	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.18	
05 53 13 00-0013 SF 1-3/4" x 3/16" Steel, Welded Grating.....	20.38	1.25
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.04	
For 304 Stainless Steel, Add	57.43	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	5.22	
For Crossbars At 2" On-Center, Add	1.93	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.12	
05 53 13 00-0014 SF 2" x 3/16" Steel, Welded Grating.....	22.68	1.25
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.43	
For 304 Stainless Steel, Add	64.81	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	5.90	
For Crossbars At 2" On-Center, Add	2.18	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.17	
05 53 13 00-0015 SF 2-1/4" x 3/16" Steel, Welded Grating.....	25.11	1.25
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.85	
For 304 Stainless Steel, Add	72.61	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	6.61	
For Crossbars At 2" On-Center, Add	2.44	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.23	

05	05	Metals
	05 50	Metal Fabrications
	05 53	Metal Gratings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0016 SF 2-1/2" x 3/16" Steel, Welded Grating.....	27.40	1.25
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.23	
For 304 Stainless Steel, Add	79.96	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	7.27	
For Crossbars At 2" On-Center, Add	2.69	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.29	
05 53 13 00-0017 Pressure Locked Grating <small>(05 53 13)</small>		
Note: Sizes are for height and width of bearing bars. Pressure locked grating is an open grid grating which is an assembly of tight-fitting, slotted bearing bars and cross bars, interlocked together. The permanent locking of the bars is accomplished by slotting the bearing bars with a wider 'dovetail' shape at the bottom of the slot. The bearing bar slot is usually 1/2 the depth of the cross bar. The cross bars are slotted to a depth slightly less than half its depth. When the bars are pressed together under hydraulic pressure, the cross bar material is forced into the 'dovetail' shape of the bearing bar notch, forming a strong, rigid unit.		
05 53 13 00-0018 Steel, Pressure Locked Grating <small>(05 53 13 00-0017)</small>		
Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0019 SF 3/4" x 1/8" Steel, Pressure Locked Grating.....	14.28	1.02
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.01	
For 304 Stainless Steel, Add	22.92	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	3.58	
For Crossbars At 2" On-Center, Add	1.32	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.67	
05 53 13 00-0020 SF 3/4" x 3/16" Steel, Pressure Locked Grating.....	17.40	1.02
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.52	
For 304 Stainless Steel, Add	28.76	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	4.49	
For Crossbars At 2" On-Center, Add	1.66	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.74	
05 53 13 00-0021 SF 1" x 1/8" Steel, Pressure Locked Grating.....	15.62	1.02
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.23	
For 304 Stainless Steel, Add	25.43	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	3.97	
For Crossbars At 2" On-Center, Add	1.47	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.70	
05 53 13 00-0022 SF 1" x 3/16" Steel, Pressure Locked Grating.....	20.98	1.02
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.11	
For 304 Stainless Steel, Add	35.46	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 7/16" On-Center, Add	27.48	
For Bearing Bars At 15/16" On-Center, Add	5.53	
For Crossbars At 2" On-Center, Add	2.05	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.83	
05 53 13 00-0023 SF 1-1/4" x 1/8" Steel, Pressure Locked Grating.....	17.40	1.02
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.52	
For 304 Stainless Steel, Add	28.76	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	4.49	
For Crossbars At 2" On-Center, Add	1.66	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.74	
05 53 13 00-0024 SF 1-1/4" x 3/16" Steel, Pressure Locked Grating.....	23.47	1.02
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.52	
For 304 Stainless Steel, Add	40.11	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	6.26	
For Crossbars At 2" On-Center, Add	2.32	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.90	
05 53 13 00-0025 SF 1-1/2" x 1/8" Steel, Pressure Locked Grating.....	19.28	1.02
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.83	
For 304 Stainless Steel, Add	32.27	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	5.04	
For Crossbars At 2" On-Center, Add	1.86	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.79	



Metals	05	05
Metal Fabrications	05 50	
Metal Gratings	05 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0026 SF 1-1/2" x 3/16" Steel, Pressure Locked Grating.....	26.53	1.25
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.94	
For 304 Stainless Steel, Add	44.98	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 7/16" On-Center, Add	34.86	
For Bearing Bars At 15/16" On-Center, Add	7.02	
For Crossbars At 2" On-Center, Add	2.60	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.27	
05 53 13 00-0027 SF 1-3/4" x 3/16" Steel, Pressure Locked Grating.....	29.16	1.25
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.37	
For 304 Stainless Steel, Add	49.90	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	7.79	
For Crossbars At 2" On-Center, Add	2.88	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.34	
05 53 13 00-0028 SF 2" x 3/16" Steel, Pressure Locked Grating.....	31.29	1.25
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.72	
For 304 Stainless Steel, Add	53.88	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	8.41	
For Crossbars At 2" On-Center, Add	3.11	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.39	
05 53 13 00-0029 SF 2-1/4" x 3/16" Steel, Pressure Locked Grating.....	33.34	1.25
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	5.06	
For 304 Stainless Steel, Add	57.72	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	9.01	
For Crossbars At 2" On-Center, Add	3.33	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.44	
05 53 13 00-0030 SF 2-1/2" x 3/16" Steel, Pressure Locked Grating.....	35.12	1.25
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	5.35	
For 304 Stainless Steel, Add	61.05	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	9.53	
For Crossbars At 2" On-Center, Add	3.52	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.48	
05 53 13 00-0031 Aluminum, Type 6063, Pressure Locked Grating (05 53 13 00-0017)		
Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted in place, and in all sizes.		
05 53 13 00-0032 SF 3/4" x 1/8" Aluminum, Pressure Locked Grating.....	16.68	1.02
For Bearing Bars At 15/16" On-Center, Add	4.28	
For Crossbars At 2" On-Center, Add	1.58	
For Set In Place Without Bolting, Deduct	-1.73	
For Powder Coating, Add	2.20	
05 53 13 00-0033 SF 3/4" x 3/16" Aluminum, Pressure Locked Grating.....	22.68	1.02
For Bearing Bars At 15/16" On-Center, Add	6.03	
For Crossbars At 2" On-Center, Add	2.23	
For Set In Place Without Bolting, Deduct	-1.88	
For Powder Coating, Add	3.10	
05 53 13 00-0034 SF 1" x 1/8" Aluminum, Pressure Locked Grating.....	21.39	1.02
For Bearing Bars At 15/16" On-Center, Add	5.65	
For Crossbars At 2" On-Center, Add	2.09	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.84	
For Powder Coating, Add	2.90	
05 53 13 00-0035 SF 1" x 3/16" Aluminum, Pressure Locked Grating.....	29.15	1.02
For Bearing Bars At 7/16" On-Center, Add	39.32	
For Bearing Bars At 15/16" On-Center, Add	7.92	
For Crossbars At 2" On-Center, Add	2.93	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.04	
For Powder Coating, Add	4.07	
05 53 13 00-0036 SF 1-1/4" x 1/8" Aluminum, Pressure Locked Grating.....	24.80	1.02
For Bearing Bars At 15/16" On-Center, Add	6.65	
For Crossbars At 2" On-Center, Add	2.46	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.93	
For Powder Coating, Add	3.42	
05 53 13 00-0037 SF 1-1/4" x 3/16" Aluminum, Pressure Locked Grating.....	33.26	1.02
For Bearing Bars At 15/16" On-Center, Add	9.12	
For Crossbars At 2" On-Center, Add	3.37	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.14	
For Powder Coating, Add	4.68	

05	05	Metals
	05 50	Metal Fabrications
	05 53	Metal Gratings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0038 SF 1-1/2" x 1/8" Aluminum, Pressure Locked Grating	28.01	1.02
For Bearing Bars At 15/16" On-Center, Add	7.59	
For Crossbars At 2" On-Center, Add	2.81	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.01	
For Powder Coating, Add	3.90	
05 53 13 00-0039 SF 1-1/2" x 3/16" Aluminum, Pressure Locked Grating	37.51	1.02
For Bearing Bars At 7/16" On-Center, Add	51.45	
For Bearing Bars At 15/16" On-Center, Add	10.36	
For Crossbars At 2" On-Center, Add	3.83	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.25	
For Powder Coating, Add	5.32	
05 53 13 00-0040 SF 1-3/4" x 3/16" Aluminum, Pressure Locked Grating	41.57	1.02
For Bearing Bars At 15/16" On-Center, Add	11.55	
For Crossbars At 2" On-Center, Add	4.27	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.35	
For Powder Coating, Add	5.93	
05 53 13 00-0041 SF 2" x 3/16" Aluminum, Pressure Locked Grating	46.38	1.02
For Bearing Bars At 15/16" On-Center, Add	12.95	
For Crossbars At 2" On-Center, Add	4.79	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.47	
For Powder Coating, Add	6.65	
05 53 13 00-0042 SF 2-1/4" x 3/16" Aluminum, Pressure Locked Grating	50.16	1.02
For Bearing Bars At 15/16" On-Center, Add	14.05	
For Crossbars At 2" On-Center, Add	5.20	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.56	
For Powder Coating, Add	7.22	
05 53 13 00-0043 SF 2-1/2" x 3/16" Aluminum, Pressure Locked Grating	54.66	1.02
For Bearing Bars At 15/16" On-Center, Add	15.37	
For Crossbars At 2" On-Center, Add	5.68	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.68	
For Powder Coating, Add	7.89	
05 53 13 00-0044 Swage Locked Grating <small>(05 53 13)</small>		
Note: Sizes are for height and width of bearing bars. Swage locked grating is an open grid grating where bearing bars are pre-punched to receive a cross bar without penetrating or cutting the top surface of the bearing bar. The cross bar is then inserted through the pre-punched hole and deformed by swaging or squeezing under hydraulic pressure to permanently lock the bars in place.		
05 53 13 00-0045 Steel, Swage Locked Grating <small>(05 53 13 00-0044)</small>		
Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0046 SF 1" x 3/16" Steel, Swaged Grating	22.89	1.02
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.92	
For 304 Stainless Steel, Add	34.59	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	13.35	
For Crossbars At 2" On-Center, Add	1.67	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.88	
05 53 13 00-0047 SF 1-1/4" x 3/16" Steel, Swaged Grating	25.47	1.02
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.16	
For 304 Stainless Steel, Add	38.86	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	15.00	
For Crossbars At 2" On-Center, Add	1.88	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.95	
05 53 13 00-0048 SF 1-1/2" x 3/16" Steel, Swaged Grating	27.94	1.25
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.34	
For 304 Stainless Steel, Add	42.20	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	16.29	
For Crossbars At 2" On-Center, Add	2.04	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.30	
05 53 13 00-0049 SF 1-3/4" x 3/16" Steel, Swaged Grating	31.88	1.25
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.70	
For 304 Stainless Steel, Add	48.73	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	18.81	
For Crossbars At 2" On-Center, Add	2.35	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.40	



Metals	05	05
Metal Fabrications	05 50	
Metal Gratings	05 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0050 SF 2" x 3/16" Steel, Swaged Grating.....	35.85	1.25
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.07	
For 304 Stainless Steel, Add	55.31	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	21.35	
For Crossbars At 2" On-Center, Add	2.67	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.50	
05 53 13 00-0051 SF 2-1/4" x 3/16" Steel, Swaged Grating.....	39.79	1.25
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.43	
For 304 Stainless Steel, Add	61.84	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	23.87	
For Crossbars At 2" On-Center, Add	2.98	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.60	
05 53 13 00-0052 SF 2-1/2" x 3/16" Steel, Swaged Grating.....	43.75	1.25
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.80	
For 304 Stainless Steel, Add	68.41	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	26.41	
For Crossbars At 2" On-Center, Add	3.30	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.70	
05 53 13 00-0053 Aluminum Grating, Type 6063, Swage Locked <small>(05 53 13 00-0044)</small>		
Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted in place, and in all sizes.		
05 53 13 00-0054 SF 1" x 1/8" Aluminum, Swaged Grating.....	19.73	1.02
For Bearing Bars At 15/16" On-Center, Add	11.33	
For Crossbars At 2" On-Center, Add	1.42	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.80	
For Powder Coating, Add	2.66	
05 53 13 00-0055 SF 1" x 3/16" Aluminum, Swaged Grating.....	25.65	1.02
For Bearing Bars At 15/16" On-Center, Add	15.12	
For Crossbars At 2" On-Center, Add	1.89	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.95	
For Powder Coating, Add	3.54	
05 53 13 00-0056 SF 1-1/4" x 1/8" Aluminum, Swaged Grating.....	22.39	1.02
For Bearing Bars At 15/16" On-Center, Add	13.03	
For Crossbars At 2" On-Center, Add	1.63	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.87	
For Powder Coating, Add	3.05	
05 53 13 00-0057 SF 1-1/4" x 3/16" Aluminum, Swaged Grating.....	29.64	1.02
For Bearing Bars At 15/16" On-Center, Add	17.67	
For Crossbars At 2" On-Center, Add	2.21	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.05	
For Powder Coating, Add	4.14	
05 53 13 00-0058 SF 1-1/2" x 1/8" Aluminum, Swaged Grating.....	25.55	1.02
For Bearing Bars At 15/16" On-Center, Add	15.05	
For Crossbars At 2" On-Center, Add	1.88	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.95	
For Powder Coating, Add	3.53	
05 53 13 00-0059 SF 1-1/2" x 3/16" Aluminum, Swaged Grating.....	33.91	1.02
For Bearing Bars At 15/16" On-Center, Add	20.40	
For Crossbars At 2" On-Center, Add	2.55	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.16	
For Powder Coating, Add	4.78	
05 53 13 00-0060 SF 1-3/4" x 3/16" Aluminum, Swaged Grating.....	38.83	1.02
For Bearing Bars At 15/16" On-Center, Add	23.55	
For Crossbars At 2" On-Center, Add	2.94	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.28	
For Powder Coating, Add	5.52	
05 53 13 00-0061 SF 2" x 3/16" Aluminum, Swaged Grating.....	43.72	1.02
For Bearing Bars At 15/16" On-Center, Add	26.68	
For Crossbars At 2" On-Center, Add	3.34	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.40	
For Powder Coating, Add	6.25	
05 53 13 00-0062 SF 2-1/4" x 3/16" Aluminum, Swaged Grating.....	48.63	1.02
For Bearing Bars At 15/16" On-Center, Add	29.82	
For Crossbars At 2" On-Center, Add	3.73	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.53	
For Powder Coating, Add	6.99	

05	05	Metals
	05 50	Metal Fabrications
	05 53	Metal Gratings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0063 SF 2-1/2" x 3/16" Aluminum, Swaged Grating	53.52	1.02
For Bearing Bars At 15/16" On-Center, Add	32.95	
For Crossbars At 2" On-Center, Add	4.12	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.65	
For Powder Coating, Add	7.72	
05 53 13 00-0064 Riveted Grating <small>(05 53 13)</small>		
Note: Riveted grating is an open grid grating where bearing bars are pre-punched to receive a solid round rivet. Crimp/lacing bars are pre-punched as well and then formed into a reticulated shape. Bearing bars and crimp bars are then assembled and clamped in place by rivets which are cold driven under hydraulic pressure to permanently lock the assembly together.		
05 53 13 00-0065 Steel, Riveted Grating <small>(05 53 13 00-0064)</small>		
Note: 1" clear opening, bolted or tack welded in place, unpainted steel, all sizes.		
05 53 13 00-0066 SF 3/4" x 1/8", 7.0 LB/SF, Steel, Riveted Grating	42.84	1.02
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.96	
For 304 Stainless Steel, Add	35.06	
For 5/8" Clear Opening, Add	14.08	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.38	
05 53 13 00-0067 SF 3/4" x 3/16", 8.5 LB/SF, Steel, Riveted Grating	50.31	1.02
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.32	
For 304 Stainless Steel, Add	41.47	
For 5/8" Clear Opening, Add	16.66	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.57	
05 53 13 00-0068 SF 1" x 1/8", 8.0 LB/SF, Steel, Riveted Grating	46.28	1.02
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.12	
For 304 Stainless Steel, Add	38.01	
For 5/8" Clear Opening, Add	15.27	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.47	
05 53 13 00-0069 SF 1" x 3/16", 9.5 LB/SF, Steel, Riveted Grating	53.16	1.02
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.45	
For 304 Stainless Steel, Add	43.92	
For 5/8" Clear Opening, Add	17.64	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.64	
05 53 13 00-0070 SF 1-1/4" x 1/8", 9.0 LB/SF, Steel, Riveted Grating	49.13	1.02
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.26	
For 304 Stainless Steel, Add	40.46	
For 5/8" Clear Opening, Add	16.25	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.54	
05 53 13 00-0071 SF 1-1/4" x 3/16", 11.1 LB/SF, Steel, Riveted Grating	58.46	1.02
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.71	
For 304 Stainless Steel, Add	48.47	
For 5/8" Clear Opening, Add	19.47	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.77	
05 53 13 00-0072 SF 1-1/2" x 1/8", 10.1 LB/SF, Steel, Riveted Grating	52.33	1.25
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.39	
For 304 Stainless Steel, Add	42.81	
For 5/8" Clear Opening, Add	17.19	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.91	
05 53 13 00-0073 SF 1-1/2" x 3/16", 12.5 LB/SF, Steel, Riveted Grating	62.30	1.25
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.87	
For 304 Stainless Steel, Add	51.38	
For 5/8" Clear Opening, Add	20.63	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.16	
05 53 13 00-0074 SF 1-3/4" x 3/16", 14.0 LB/SF, Steel, Riveted Grating	67.39	1.25
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.12	
For 304 Stainless Steel, Add	55.75	
For 5/8" Clear Opening, Add	22.39	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.29	
05 53 13 00-0075 SF 2" x 3/16", 17.0 LB/SF, Steel, Riveted Grating	78.76	1.25
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.66	
For 304 Stainless Steel, Add	65.52	
For 5/8" Clear Opening, Add	26.31	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.58	



Metals	05	05
Metal Fabrications	05 50	
Metal Gratings	05 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0076	SF		2-1/4" x 3/16", 18.5 LB/SF, Steel, Riveted Grating..... <i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	82.72 0.22 3.85 68.92 27.68 0.16 -3.67	1.25
05 53 13 00-0077	SF		2-1/2" x 3/16", 20.0 LB/SF, Steel, Riveted Grating..... <i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	86.24 0.22 4.02 71.94 28.89 0.16 -3.76	1.25
05 53 13 00-0078			Aluminum, Riveted Grating (05 53 13 00-0064) Note: 1" clear opening, bolted in place and in all sizes.		
05 53 13 00-0079	SF		3/4" x 1/8", 2.4 LB/SF, Aluminum, Riveted Grating <i>For 5/8" Clear Opening, Add</i> <i>For Powder Coating, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	42.45 13.94 6.06 -2.37	1.02
05 53 13 00-0080	SF		3/4" x 3/16", 2.9 LB/SF, Aluminum, Riveted Grating <i>For 5/8" Clear Opening, Add</i> <i>For Powder Coating, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	50.44 16.70 7.26 -2.57	1.02
05 53 13 00-0081	SF		1" x 1/8", 2.7 LB/SF, Aluminum, Riveted Grating <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Powder Coating, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	46.72 15.42 0.16 6.70 -2.48	1.02
05 53 13 00-0082	SF		1" x 3/16", 3.2 LB/SF, Aluminum, Riveted Grating <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Powder Coating, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	54.53 18.11 0.16 7.88 -2.67	1.02
05 53 13 00-0083	SF		1-1/4" x 1/8", 3.1 LB/SF, Aluminum, Riveted Grating <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Powder Coating, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	52.44 17.39 0.16 7.56 -2.62	1.02
05 53 13 00-0084	SF		1-1/4" x 3/16", 3.8 LB/SF, Aluminum, Riveted Grating <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Powder Coating, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	63.28 21.13 0.16 9.19 -2.89	1.02
05 53 13 00-0085	SF		1-1/2" x 1/8", 3.4 LB/SF, Aluminum, Riveted Grating <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Powder Coating, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	56.34 18.74 0.16 8.15 -2.72	1.02
05 53 13 00-0086	SF		1-1/2" x 3/16", 4.3 LB/SF, Aluminum, Riveted Grating <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Powder Coating, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	70.11 23.49 0.16 10.21 -3.06	1.02
05 53 13 00-0087	SF		1-3/4" x 3/16", 4.8 LB/SF, Aluminum, Riveted Grating <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Powder Coating, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	77.33 25.98 0.16 11.30 -3.24	1.02
05 53 13 00-0088	SF		2" x 3/16", 5.8 LB/SF, Aluminum, Riveted Grating <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Powder Coating, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	92.16 31.09 0.16 13.52 -3.61	1.02
05 53 13 00-0089	SF		2-1/4" x 3/16", 6.4 LB/SF, Aluminum, Riveted Grating <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Powder Coating, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	100.57 34.00 0.16 14.78 -3.82	1.02
05 53 13 00-0090	SF		2-1/2" x 3/16", 7.2 LB/SF, Aluminum, Riveted Grating <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Powder Coating, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	111.85 37.89 0.16 16.47 -4.11	1.02
05 53 16			Plank Gratings (05 53)		
05 53 16 00-0001			Grate-Lock Steel Plank Grating (05 53 16) Note: Smooth or traction grip surface.		
05 53 16 00-0002	SF		1-1/2" Height, 18 Gauge Steel Grate-Lock Plank Grating <i>For Stair Tread Application, Add</i>	12.53 1.49	0.78
05 53 16 00-0003	SF		2-1/2" Height, 18 Gauge Steel Grate-Lock Plank Grating <i>For Stair Tread Application, Add</i>	13.42 1.63	0.97



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 16 00-0004 SF 3" Height, 18 Gauge Steel Grate-Lock Plank Grating	14.15	1.06
For Stair Tread Application, Add	1.73	
05 53 16 00-0005 SF 4" Height, 18 Gauge Steel Grate-Lock Plank Grating	15.46	1.15
For Stair Tread Application, Add	1.89	
05 53 16 00-0006 SF 1-1/2" Height, 16 Gauge Steel Grate-Lock Plank Grating	15.22	0.88
For Stair Tread Application, Add	1.79	
05 53 16 00-0007 SF 2-1/2" Height, 16 Gauge Steel Grate-Lock Plank Grating	16.23	1.06
For Stair Tread Application, Add	1.94	
05 53 16 00-0008 SF 1-1/2" Height, 14 Gauge Steel Grate-Lock Plank Grating	18.65	1.02
For Stair Tread Application, Add	2.17	
05 53 16 00-0009 SF 2-1/2" Height, 14 Gauge Steel Grate-Lock Plank Grating	19.92	1.25
For Stair Tread Application, Add	2.37	
05 53 16 00-0010 SF 3" Height, 14 Gauge Steel Grate-Lock Plank Grating	21.41	1.58
For Stair Tread Application, Add	2.61	
05 53 16 00-0011 SF 4" Height, 14 Gauge Steel Grate-Lock Plank Grating	23.64	1.76
For Stair Tread Application, Add	2.89	
05 54 Metal Floor Plates (05 50)		
05 54 00 00-0001 Steel Floor Plates (05 54)		
05 54 00 00-0002 SF 16 Gauge Steel Raised Or Diamond Pattern Floor Plates	13.66	1.21
05 54 00 00-0003 SF 14 Gauge Steel Raised Or Diamond Pattern Floor Plates	15.57	1.21
05 54 00 00-0004 SF 12 Gauge Steel Raised Or Diamond Pattern Floor Plates	19.42	1.21
05 54 00 00-0005 SF 1/8" Steel Raised Or Diamond Pattern Floor Plates.....	25.94	1.30
05 54 00 00-0006 SF 1/4" Steel Raised Or Diamond Pattern Floor Plates.....	32.85	1.39
05 54 00 00-0007 Aluminum Alloy Floor Plates (05 54)		
05 54 00 00-0008 SF 0.125" Aluminum Alloy Raised Or Diamond Pattern Floor Plate	21.17	1.02
For Powder Coating, Add	2.87	
05 54 00 00-0009 SF 0.188" Aluminum Alloy Raised Or Diamond Pattern Floor Plate	24.29	1.21
For Powder Coating, Add	3.30	
05 54 00 00-0010 SF 0.25" Aluminum Alloy Raised Or Diamond Pattern Floor Plate	27.42	1.30
For Powder Coating, Add	3.72	
05 54 00 00-0011 Type 304 Stainless Steel Floor Plates (05 54)		
05 54 00 00-0012 SF 1/8" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate	27.13	1.39
05 54 00 00-0013 SF 3/16" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate	32.41	1.58
05 54 00 00-0014 SF 1/4" Type 304 Stainless Raised Or Diamond Pattern Steel Floor Plate	41.93	1.85
05 55 Metal Stair Treads and Nosings (05 50)		
05 55 13 Metal Stair Treads (05 55)		
05 55 13 00-0001 Abrasive Cast Aluminum Stair Treads (05 55 13)		
Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.		
05 55 13 00-0002 LF 8" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread	52.14	5.74
For 3/8" Thick, Add	10.74	
05 55 13 00-0003 LF 9" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread	57.23	5.74
For 3/8" Thick, Add	12.01	
05 55 13 00-0004 LF 10" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread	62.30	5.74
For 3/8" Thick, Add	13.28	
05 55 13 00-0005 LF 11" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread	67.41	5.74
For 3/8" Thick, Add	14.55	
05 55 13 00-0006 LF 12" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread	72.47	5.74
For 3/8" Thick, Add	15.82	
05 55 13 00-0007 Abrasive Cast Iron Stair Treads (05 55 13)		
Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.		
05 55 13 00-0008 LF 8" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	71.87	5.74
05 55 13 00-0009 LF 9" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	79.41	5.74
05 55 13 00-0010 LF 10" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	86.97	5.74
05 55 13 00-0011 LF 11" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	94.51	5.74
05 55 13 00-0012 LF 12" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	102.07	5.74
05 55 13 00-0013 Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Treads (05 55)		
Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.		
05 55 13 00-0014 LF 6-1/2" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread	28.33	5.74
05 55 13 00-0015 LF 9" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread	32.94	5.74
05 55 13 00-0016 LF 11" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread	34.97	5.74



Metals	05	05
Metal Fabrications	05 50	
Metal Stair Treads and Nosings	05 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 55 13 00-0017 Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Treads <small>(05 55 13)</small> Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.		
05 55 13 00-0018 LF 8" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	41.06 3.20 2.40	5.74
05 55 13 00-0019 LF 9" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	41.44 3.20 2.40	5.74
05 55 13 00-0020 LF 11" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	49.73 3.20 2.40	5.74
05 55 13 00-0021 LF 12" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	57.00 3.20 2.40	5.74
05 55 13 00-0022 LF 15" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	66.48 3.20 2.40	5.74
05 55 13 00-0023 Stair Landing Treads <small>(05 55 13)</small>		
05 55 13 00-0024 Abrasive Cast Aluminum Stair Landing Treads <small>(05 55 13 00-0023)</small> Note: Includes abrasive diamond pattern surface and anchors.		
05 55 13 00-0025 SF 5/16" Thick, Abrasive Cast Aluminum Landing Treads <i>For 3/8" Thick, Add</i>	72.47 15.82	5.74
05 55 13 00-0026 Abrasive Cast Iron Stair Landing Treads <small>(05 55 13 00-0023)</small> Note: Includes abrasive diamond pattern surface and anchors.		
05 55 13 00-0027 SF 3/8" Thick, Abrasive Cast Iron Landing Treads	102.07	5.74
05 55 13 00-0028 Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads <small>(05 55 13 00-0023)</small> Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.		
05 55 13 00-0029 SF 9/32" Thick, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads..... <i>For Epoxy Sealed For Corrosive Environment, Add</i>	67.31 3.20	5.74
05 55 13 00-0030 Open Cast Iron Stair Tread <small>(05 55 13)</small> Note: Includes steel stringers, safety nosing and 2 pipe handrail. Excludes landings.		
05 55 13 00-0031 RSR 3'-6" Wide, Open Cast Iron Stair Tread..... <i>For Closed Riser, Add</i>	474.79 40.52	37.00
05 55 13 00-0032 RSR 4'-0" Wide, Open Cast Iron Stair Tread..... <i>For Closed Riser, Add</i>	535.02 45.53	42.55
05 55 13 00-0033 RSR 5'-0" Wide, Open Cast Iron Stair Tread..... <i>For Closed Riser, Add</i>	590.72 50.19	49.94
05 55 16 Metal Stair Nosings <small>(05 55)</small>		
05 55 16 00-0001 Abrasive Cast Aluminum Nosings <small>(05 55 16)</small> Note: Includes abrasive diamond pattern surface and anchors.		
05 55 16 00-0002 LF 3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing <i>For 3/8" Thick, Add</i>	22.46 4.05	3.92
05 55 16 00-0003 LF 4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing <i>For 3/8" Thick, Add</i>	27.38 5.28	3.92
05 55 16 00-0004 LF 6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing <i>For 3/8" Thick, Add</i>	38.33 8.02	3.92
05 55 16 00-0005 Abrasive Cast Iron Nosings <small>(05 55 16)</small> Note: Includes abrasive diamond pattern surface and anchors.		
05 55 16 00-0006 LF 3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing <i>For 3/8" Thick, Add</i>	26.05 4.95	3.92
05 55 16 00-0007 LF 4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing <i>For 3/8" Thick, Add</i>	32.10 6.46	3.92
05 55 16 00-0008 LF 6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing <i>For 3/8" Thick, Add</i>	44.06 9.45	3.92
05 55 16 00-0009 Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosings <small>(05 55 16)</small> Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.		
05 55 16 00-0010 LF 1-7/8" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	19.13	3.92
05 55 16 00-0011 LF 3" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	21.50	3.92
05 55 16 00-0012 LF 4" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	23.31	3.92
05 55 16 00-0013 LF 6" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	28.93	3.92
05 55 16 00-0014 LF 1-7/8" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	19.77	3.92

05 Metals**05 50 Metal Fabrications****05 55 Metal Stair Treads and Nosings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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05 55 16 00-0015	LF		3" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	21.79	3.92
05 55 16 00-0016	LF		4" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	23.79	3.92
05 55 16 00-0017	LF		3" Depth, 1/4" Thick, 1-3/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	22.57	3.92

05 56 Metal Castings (05 50)**05 56 00 00-0001 Castings** (05 56)

05 56 00 00-0002	LB		Up To 150 LB, Miscellaneous Castings, Light Section.....	3.83	0.46
05 56 00 00-0003	LB		>150 LB, Miscellaneous Castings, Heavy Section.....	6.36	0.37

05 58 Formed Metal Fabrications (05 50)**05 58 16 Formed Metal Enclosures** (05 58)**05 58 16 00-0001 Drip Pan** (05 58 16)

05 58 16 00-0002	SF		Stainless Steel Drip Pan.....	80.48	5.64
05 58 16 00-0003	SF		Galvanized Steel Drip Pan.....	79.52	5.64
05 58 16 00-0004	SF		Aluminum Drip Pan.....	55.99	4.51
05 58 16 00-0005	SF		Plastic Drip Pan.....	15.41	3.95

05 58 23 Formed Metal Guards (05 58)**05 58 23 00-0001 Protective Guard Rails** (05 58 23)

Note: Includes painted finish.

05 58 23 00-0002 2-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0001)

Note: Steel King Armor Guard.

05 58 23 00-0003 Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0002)

Note: Excludes posts. Includes fasteners.

05 58 23 00-0004	EA		1' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	149.96	18.80
05 58 23 00-0005	EA		2' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	175.40	18.80
05 58 23 00-0006	EA		3' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	199.40	18.80
05 58 23 00-0007	EA		4' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	224.85	18.80
05 58 23 00-0008	EA		5' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	248.98	18.80
05 58 23 00-0009	EA		6' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	280.27	18.80
05 58 23 00-0010	EA		7' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	301.59	18.80
05 58 23 00-0011	EA		8' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	334.60	18.80
05 58 23 00-0012	EA		9' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	356.26	18.80
05 58 23 00-0013	EA		10' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	371.74	18.80

05 58 23 00-0014 Posts For 2-Rib Guard Rails (05 58 23 00-0002)

Note: Includes drilling, surface mounting plate and anchors.

05 58 23 00-0015	EA		12" Height, Single Rail Post For 2-Rib Guard Rails.....	303.90	39.17
05 58 23 00-0016	EA		42" Height, Triple Rail Post For 2-Rib Guard Rails.....	392.27	39.17

05 58 23 00-0017 3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0001)

Note: Steel King Steel Guard.

05 58 23 00-0018 Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0017)

Note: Excludes posts. Includes fasteners.

05 58 23 00-0019	EA		1' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	165.29	18.80
05 58 23 00-0020	EA		2' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	182.21	18.80
05 58 23 00-0021	EA		3' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	203.32	18.80
05 58 23 00-0022	EA		4' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	223.06	18.80
05 58 23 00-0023	EA		5' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	245.89	18.80
05 58 23 00-0024	EA		6' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	256.89	18.80
05 58 23 00-0025	EA		7' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	283.37	18.80
05 58 23 00-0026	EA		8' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	305.72	18.80
05 58 23 00-0027	EA		9' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	329.44	18.80
05 58 23 00-0028	EA		10' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	353.51	18.80

05 58 23 00-0029 Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0017)

Note: Excludes posts. Includes fasteners and lift-out mounting plate.

05 58 23 00-0030	EA		1' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	241.42	18.80
05 58 23 00-0031	EA		2' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	259.99	18.80
05 58 23 00-0032	EA		3' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	279.24	18.80
05 58 23 00-0033	EA		4' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	301.59	18.80
05 58 23 00-0034	EA		5' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	323.94	18.80
05 58 23 00-0035	EA		6' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	342.17	18.80
05 58 23 00-0036	EA		7' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	363.14	18.80
05 58 23 00-0037	EA		8' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	386.87	18.80
05 58 23 00-0038	EA		9' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	412.31	18.80
05 58 23 00-0039	EA		10' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	434.66	18.80



Metals	05	05
Metal Fabrications	05 50	
Formed Metal Fabrications	05 58	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 58 23 00-0040 Posts For 3-Rib Guard Rails <small>(05 58 23 00-0017)</small> Note: Includes drilling, surface mounting plate and anchors.		
05 58 23 00-0041 EA 18" Height, Single Rail Post For 3-Rib Guard Rails	268.69	39.17
05 58 23 00-0042 EA 42" Height, Double Rail Post For 3-Rib Guard Rails	340.35	39.17
05 58 23 00-0043 All-Welded, Protective Guards <small>(05 58 23)</small> Note: Surface mounted inverted-U style protective barriers. Includes painted finish, drilling, surface mounting plate and anchors.		
05 58 23 00-0044 All-Welded, Protective Guards <small>(05 58 23 00-0043)</small>		
05 58 23 00-0045 EA 36" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	350.99	52.22
05 58 23 00-0046 EA 48" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	368.18	52.22
05 58 23 00-0047 EA 36" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	378.15	52.22
05 58 23 00-0048 EA 48" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	392.94	52.22
05 58 23 00-0049 EA 36" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	389.50	52.22
05 58 23 00-0050 EA 48" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	407.72	52.22
05 58 23 00-0051 EA 36" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	412.88	52.22
05 58 23 00-0052 EA 48" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	418.73	52.22
05 58 23 00-0053 EA 48" Length, 42" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	446.58	52.22
05 58 23 00-0054 Corner Style, All-Welded, Protective Guards <small>(05 58 23 00-0043)</small>		
05 58 23 00-0055 EA 24" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard	457.58	52.22
05 58 23 00-0056 EA 30" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard	478.21	52.22
05 58 23 00-0057 EA 24" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard	486.81	52.22
05 58 23 00-0058 EA 30" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard	529.10	52.22
05 58 23 00-0059 Warehouse Safety Bollards <small>(05 58 23)</small> Note: Includes painted finish, drilling, surface mounting plate and anchors.		
05 58 23 00-0060 EA 24" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	225.14	39.17
05 58 23 00-0061 EA 36" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	259.11	39.17
05 58 23 00-0062 EA 42" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	295.08	39.17
05 58 23 00-0063 EA 36" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	304.91	39.17
05 58 23 00-0064 EA 42" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	327.61	39.17
05 59 Metal Specialties <small>(05 50)</small>		
05 59 65 Metal Chain <small>(05 59)</small>		
05 59 65 00-0001 Alloy Steel Chain, Self Colored, Cut Length <small>(05 59 65)</small> Note: Includes all connecting links, double clevis mid-Links, slip or grab hooks, or shackles as required.		
05 59 65 00-0002 LF 3/16" Diameter Alloy Steel Chain, Cut Length, Self Colored	4.63	0.89
For Plastic Dipped, Add	0.43	
05 59 65 00-0003 LF 1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored	6.25	1.19
For Plastic Dipped, Add	0.58	
05 59 65 00-0004 LF 3/8" Diameter Alloy Steel Chain, Cut Length, Self Colored	9.97	2.38
For Plastic Dipped, Add	0.78	
05 59 65 00-0005 LF 1/2" Diameter Alloy Steel Chain, Cut Length, Self Colored	16.03	4.01
For Plastic Dipped, Add	1.20	
05 59 65 00-0006 LF 5/8" Diameter Alloy Steel Chain, Cut Length, Self Colored	27.06	6.78
For Plastic Dipped, Add	2.03	
05 59 65 00-0007 LF 3/4" Diameter Alloy Steel Chain, Cut Length, Self Colored	37.98	9.52
For Plastic Dipped, Add	2.84	
05 59 65 00-0008 LF 7/8" Diameter Alloy Steel Chain, Cut Length, Self Colored	51.58	11.90
For Plastic Dipped, Add	4.17	
05 59 65 00-0009 LF 1" Diameter Alloy Steel Chain, Cut Length, Self Colored	74.34	15.86
For Plastic Dipped, Add	6.39	
05 59 65 00-0010 LF 1-1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored	120.50	23.79
For Plastic Dipped, Add	10.94	

END OF SECTION 05

05	05	Metals
	05 50	Metal Fabrications
	05 59	Metal Specialties



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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07 Thermal And Moisture Protection

07 10 Dampproofing and Waterproofing ⁽⁰⁷⁾

Note: The following tasks are for application to vertical (walls and foundations) surfaces. For horizontal (flat) surfaces apply the appropriate modifier to reduce the labor cost (where listed). Waterproofing is the treatment of a surface or structure to PREVENT the passage of water under hydrostatic pressure. Dampproofing is the treatment of a surface or structure to RESIST the passage of water in the absence of hydrostatic pressure.

07 11 Dampproofing ^(07 10)

07 11 13 Bituminous Dampproofing ^(07 11)

07 11 13 00-0001 Fibrous Asphalt Dampproofing, Brush, Roller Or Spray ^(07 11 13)

07 11 13 00-0002	CSF 1 Coat, Fibrous Asphalt Dampproofing, Brush, Roller Or Spray	146.67
07 11 13 00-0003	CSF 2 Coats, Fibrous Asphalt Dampproofing, Brush, Roller Or Spray	229.02

07 11 13 00-0004 Fibrous Asphalt Dampproofing, Troweled On ^(07 11 13)

07 11 13 00-0005	CSF Primer And 1 Coat, Fibrous Asphalt Dampproofing, Troweled On	249.43
07 11 13 00-0006	CSF Primer And 2 Coats, Fibrous Asphalt Dampproofing, Troweled On	382.70

07 11 13 00-0007 Asphaltic Paint Dampproofing ^(07 11 13)

07 11 13 00-0008	CSF 1 Coat, Asphaltic Paint Dampproofing, Brushed On	119.09
07 11 13 00-0009	CSF 2 Coats, Asphaltic Paint Dampproofing, Brushed On	219.64

07 11 19 Sheet Dampproofing ^(07 11)

07 11 19 00-0001 Neoprene ^(07 11 19)

07 11 19 00-0002	SF 1/16" Patch Neoprene Roof (5 To 20 SF)	32.91
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07 13 Sheet Waterproofing ^(07 10)

07 13 13 Bituminous Sheet Waterproofing ^(07 13)

07 13 13 00-0001 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped ^(07 13 13)

07 13 13 00-0002	CSF 1 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	278.85		99.23
	<i>For 30 LB Felt, Add</i>	60.29		
	<i>For Application To Horizontal Surfaces, Deduct</i>	-29.77		
07 13 13 00-0003	CSF 2 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	349.77		111.64
	<i>For 30 LB Felt, Add</i>	94.88		
	<i>For Application To Horizontal Surfaces, Deduct</i>	-33.49		
07 13 13 00-0004	CSF 3 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	420.69		124.04
	<i>For 30 LB Felt, Add</i>	129.46		
	<i>For Application To Horizontal Surfaces, Deduct</i>	-37.21		
07 13 13 00-0005	CSF 4 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	491.59		136.44
	<i>For 30 LB Felt, Add</i>	164.03		
	<i>For Application To Horizontal Surfaces, Deduct</i>	-40.93		
07 13 13 00-0006	CSF 5 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	562.50		148.85
	<i>For 30 LB Felt, Add</i>	198.62		
	<i>For Application To Horizontal Surfaces, Deduct</i>	-44.65		

07 13 13 00-0007 Asphalt Coated Protective Board ^(07 13 13)

07 13 13 00-0008	CSF 1/8" Asphalt Coated Protective Board	246.25		99.14
	<i>For Application To Horizontal Surfaces, Deduct</i>	-33.07		
07 13 13 00-0009	CSF 1/4" Asphalt Coated Protective Board	326.42		102.96
	<i>For Application To Horizontal Surfaces, Deduct</i>	-34.32		
07 13 13 00-0010	CSF 3/8" Asphalt Coated Protective Board	423.02		107.28
	<i>For Application To Horizontal Surfaces, Deduct</i>	-35.75		
07 13 13 00-0011	CSF 1/2" Asphalt Coated Protective Board	472.33		111.60
	<i>For Application To Horizontal Surfaces, Deduct</i>	-37.21		

07 13 53 Elastomeric Sheet Waterproofing ^(07 13)

07 13 53 00-0001 Rubberized Membrane Sheet ^(07 13 53)

07 13 53 00-0002	SF 215 Mil Rubberized Asphalt Membrane Sheet, Vertical Surface	6.83		1.02
	<i>For Floor Surfaces, Deduct</i>	-1.01		

07 13 53 00-0003 Ethylene Propylene Diene Monomer (EPDM) ^(07 13 53)

07 13 53 00-0004	CSF 45 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane	467.58		144.13
	<i>For Application To Horizontal Surfaces, Deduct</i>	-43.23		
07 13 53 00-0005	CSF 60 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane	550.36		144.13
	<i>For Application To Horizontal Surfaces, Deduct</i>	-43.23		

07 Thermal And Moisture Protection**07 10 Dampproofing and Waterproofing****07 13 Sheet Waterproofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 13 53 00-0006			Butyl Sheet Waterproofing (07 13 53)		
07 13 53 00-0007	CSF		1/32" Butyl Sheet Waterproofing	103.70	36.03
			<i>For Joint Taping, Add</i>	13.49	
			<i>For Each Additional Ply, Add</i>	76.20	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-5.42	
07 13 53 00-0008	CSF		1/16" Butyl Sheet Waterproofing	125.21	36.03
			<i>For Joint Taping, Add</i>	14.56	
			<i>For Each Additional Ply, Add</i>	91.26	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-5.42	
07 13 53 00-0009			Butyl With Nylon (07 13 53)		
07 13 53 00-0010	CSF		1/32" Butyl Elastomeric Waterproofing With Nylon	116.00	36.03
			<i>For Joint Taping, Add</i>	14.10	
			<i>For Each Additional Ply, Add</i>	84.81	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-5.42	
07 13 53 00-0011	CSF		1/16" Butyl Elastomeric Waterproofing With Nylon	129.83	36.03
			<i>For Joint Taping, Add</i>	14.79	
			<i>For Each Additional Ply, Add</i>	94.49	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-5.42	
07 13 53 00-0012			Neoprene Sheet Waterproofing (07 13 53)		
07 13 53 00-0013	CSF		1/32" Neoprene Sheet Waterproofing	186.75	36.03
			<i>For Joint Taping, Add</i>	17.64	
			<i>For Each Additional Ply, Add</i>	134.34	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-5.42	
07 13 53 00-0014	CSF		1/16" Neoprene Sheet Waterproofing	278.31	36.03
			<i>For Joint Taping, Add</i>	22.22	
			<i>For Each Additional Ply, Add</i>	198.43	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-5.42	
07 13 53 00-0015			Neoprene With Nylon (07 13 53)		
07 13 53 00-0016	CSF		1/32" Neoprene Elastomeric Waterproofing With Nylon	196.31	36.03
			<i>For Joint Taping, Add</i>	18.12	
			<i>For Each Additional Ply, Add</i>	141.03	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-5.42	
07 13 53 00-0017	CSF		1/16" Neoprene Elastomeric Waterproofing With Nylon	293.58	36.03
			<i>For Joint Taping, Add</i>	22.98	
			<i>For Each Additional Ply, Add</i>	209.12	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-5.42	
07 13 53 00-0018			Plastic Vapor Barrier (Polyethylene) (07 13 53)		
07 13 53 00-0019	CSF		4 Mil Polyethylene Vapor Barrier	33.23	12.74
			<i>For Joint Taping, Add</i>	8.15	
			<i>For Each Additional Ply, Add</i>	26.08	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.23	
07 13 53 00-0020	CSF		6 Mil Polyethylene Vapor Barrier	33.95	12.74
			<i>For Joint Taping, Add</i>	8.18	
			<i>For Each Additional Ply, Add</i>	26.58	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.23	
07 13 53 00-0021	CSF		10 Mil Polyethylene Vapor Barrier	52.44	12.74
			<i>For Joint Taping, Add</i>	9.11	
			<i>For Each Additional Ply, Add</i>	39.53	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.23	
07 13 53 00-0022	CSF		60 Mil Polyethylene Vapor Barrier With Bentonite	147.93	12.74
			Note: Includes seam tape, liquid mastic, anchors and termination bar.		
			<i>For Each Additional Ply, Add</i>	106.68	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.70	
07 13 53 00-0023			Plastic Vapor Barrier (PVC) (07 13 53)		
07 13 53 00-0024	CSF		10 Mil Polyvinyl Chloride (PVC) Vapor Barrier	52.84	14.10
			<i>For Joint Taping, Add</i>	9.13	
			<i>For Each Additional Ply, Add</i>	39.81	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.23	
07 13 53 00-0025	CSF		20 Mil Polyvinyl Chloride (PVC) Vapor Barrier	71.85	14.62
			<i>For Joint Taping, Add</i>	10.32	
			<i>For Each Additional Ply, Add</i>	53.22	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.39	
07 13 53 00-0026	CSF		30 Mil Polyvinyl Chloride (PVC) Vapor Barrier	97.52	15.13
			<i>For Joint Taping, Add</i>	11.84	
			<i>For Each Additional Ply, Add</i>	71.29	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.54	
07 13 53 00-0027			Vinyl Plastic Vapor Barrier (07 13 53)		
07 13 53 00-0028	CSF		4 Mil Vinyl Plastic Vapor Barrier With Fiberglass Insulation At Joints (Tu-Tuf #4)	37.22	13.05



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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07 14 Fluid-Applied Waterproofing (07 10)

07 14 13 Hot Fluid-Applied Rubberized Asphalt Waterproofing (07 14)

07 14 13 00-0001 Hot Applied Rubberized Asphalt Waterproofing Coating (07 14 13)

07 14 13 00-0002	SF	90 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface.....	1.97
		Note: Includes primer.	
		<i>For Application To Horizontal Surfaces, Deduct</i>	-0.19
		<i>For Reinforcing Fabric, Add</i>	0.42
07 14 13 00-0003	SF	125 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface.....	2.29
		Note: Includes primer.	
		<i>For Application To Horizontal Surfaces, Deduct</i>	-0.20
		<i>For Reinforcing Fabric, Add</i>	0.42

07 14 16 Cold Fluid-Applied Waterproofing (07 14)

07 14 16 00-0001 Fluid Applied Rubber Based Polyurethane (07 14 16)

07 14 16 00-0002	SF	60 Mil Thick, Fluid Applied, Rubber Base, Polyurethane Applied In 2 Coats.....	3.61
		<i>For Application To Horizontal Surfaces, Deduct</i>	-0.44
07 14 16 00-0003	SF	90 Mil Thick, Fluid Applied, Rubber Base, Polyurethane Applied In 2 Coats.....	4.10
		<i>For Application To Horizontal Surfaces, Deduct</i>	-0.46
07 14 16 00-0004	SF	120 Mil Thick, Fluid Applied, Rubber Base, Polyurethane Applied In 2 Coats.....	4.65
		<i>For Application To Horizontal Surfaces, Deduct</i>	-0.48

07 14 16 00-0005 One Part Solution Of Chlorosulfonated Polyethylene Polymer (07 14 16)

07 14 16 00-0006	SF	15 Mil Finish Coat, Chlorosulfonated Polyethylene (CSM) Polymer, 1 Part Solution.....	2.41
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07 14 16 00-0007 Copolymer Compound (07 14 16)

07 14 16 00-0008	SF	Fluid Elastomeric Copolymer Compound For Slabs 32 Mil.....	3.86
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07 14 16 00-0009 Fluid Applied Neoprene (07 14 16)

07 14 16 00-0010	CSF	1/8" Fiberglass Reinforced, Fluid Neoprene.....	447.91
		<i>For Application To Horizontal Surfaces, Deduct</i>	-52.50
07 14 16 00-0011	CSF	50 Mil, 4 Coats, Fluid Neoprene.....	915.45
		<i>For Application To Horizontal Surfaces, Deduct</i>	-103.00
07 14 16 00-0012	CSF	90 Mil, 4 Coats, Fluid Neoprene.....	1,487.02
		<i>For Application To Horizontal Surfaces, Deduct</i>	-154.43

07 16 Cementitious and Reactive Waterproofing (07 10)

07 16 13 Polymer Modified Cement Waterproofing (07 16)

07 16 13 00-0001	SF	Polymer Modified Cementitious Waterproofing Assembly, 2 Coats.....	4.21
		Note: As manufactured by Thoro Consumer Products. Includes Thoroseal, Acryl 60, acrylic waterproof coating and white pigmented acrylic copolymer primer.	

07 16 16 Crystalline Waterproofing (07 16)

07 16 16 00-0001	SF	Crystalline Cementitious Waterproofing, 2 Coats (Xypex Concentrate).....	5.02
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07 16 19 Metal Oxide Waterproofing (07 16)

07 16 19 00-0001 Metallic Oxide Waterproofing (07 16 19)

		Note: Includes one broom applied bond coat and three brush applied waterproof coats. Excludes concrete repairs to subbase and final protective concrete surface coat.	
07 16 19 00-0002	CSF	Catalyzed Metallic Waterproofing Treatment, Metal Oxide Waterproofing (Euclid Iron Waterpeller).....	430.06
		<i>For Application To Horizontal Surfaces, Deduct</i>	-55.87

07 19 Water Repellents (07 10)

07 19 13 Acrylic Sealer (07 19)

		Note: Per coat.	
07 19 13 00-0001	SF	Spray On Concrete, Acrylic Sealer.....	2.23
07 19 13 00-0002	SF	Spray On Concrete Block/Brick, Acrylic Sealer.....	2.66
07 19 13 00-0003	SF	Spray On Stone, Acrylic Sealer.....	2.93

07 19 16 Silane Water Repellents (07 19)

07 19 16 00-0001 Silane Concrete Sealer (07 19 16)

07 19 16 00-0002	SF	Spray On Concrete, Water Based, Silane Penetrating Water Repellent Sealer (Specchem SpecSilane 40 WB).....	0.55
07 19 16 00-0003	SF	Spray On Concrete Block/Brick, Water Based, Silane Penetrating Water Repellent Sealer (Specchem SpecSilane 40 WB).....	0.82

07 Thermal And Moisture Protection**07 10 Dampproofing and Waterproofing****07 19 Water Repellents**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
07 19 16 00-0004		Silane/Siloxane Concrete Sealer <small>(07 19 16)</small>			
07 19 16 00-0005	SF	Spray On Concrete, Solvent Based, Silane/Siloxane Concrete Penetrating Water Repellent Sealer (Anti-Hydro Aridox 40)		0.94	
		Note: 40% silane, alcohol based.			
07 19 16 00-0006	SF	Spray On Concrete Block/Brick, Solvent Based, Silane/Siloxane Penetrating Water Repellent Sealer (Anti-Hydro Aridox 40)		1.37	
		Note: 40% silane, alcohol based.			
07 19 16 00-0007	SF	Spray On Concrete, Water-Based, Silane/Siloxane Penetrating Water Repellent Sealer (Prosoco Saltguard WB)		0.38	
		Note: 200 SF/GAL			
07 19 16 00-0008	SF	Spray On Concrete Block/Masonry, Water-Based, Silane/Siloxane Penetrating Water Repellent Sealer (Prosoco Saltguard WB).....		0.55	

END OF SECTION 07



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 Finishes

09 01 Maintenance of Finishes (09)

09 01 90 Maintenance of Painting and Coating (09 01)

09 01 90 52 Maintenance Repainting (09 01 90)

09 01 90 52-0001 Cleaning And Preparation Of Painted And Unpainted Surfaces (09 01 90 52)

Note: In excess of surface preparation required. Water blast and pressure washing includes mild detergent and rinsing of surface until detergent free. Sand blast and water blast includes canvas/plastic for protection of existing surfaces as well as for containment.

09 01 90 52-0002 Concrete And Masonry Surfaces, Surface Preparation (09 01 90 52-0001)

09 01 90 52-0003	SF Trisodium Phosphate (TSP), Clean Concrete Or Masonry Surfaces, Surface Preparation.....	0.50	
	For Up To 100, Add	0.37	
	For >100 To 250, Add	0.17	
	For >250 To 500, Add	0.07	
	For >5,000 To 10,000, Deduct	-0.02	
	For >10,000 To 15,000, Deduct	-0.05	
	For >15,000 To 30,000, Deduct	-0.07	
	For >30,000, Deduct	-0.10	
09 01 90 52-0004	SF Calcimine Removal/Washing, Concrete And Masonry Surfaces, Surface Preparation.....	0.49	
	For Up To 100, Add	0.84	
	For >100 To 250, Add	0.21	
	For >250 To 500, Add	0.11	
	For >5,000 To 10,000, Deduct	-0.02	
	For >10,000 To 15,000, Deduct	-0.05	
	For >15,000 To 30,000, Deduct	-0.07	
	For >30,000, Deduct	-0.09	
09 01 90 52-0005	SF Chemical Clean, Brush And Wash, Concrete And Masonry Surfaces, Surface Preparation	0.77	
	For Up To 100, Add	1.30	
	For >100 To 250, Add	0.33	
	For >250 To 500, Add	0.16	
	For >5,000 To 10,000, Deduct	-0.04	
	For >10,000 To 15,000, Deduct	-0.07	
	For >15,000 To 30,000, Deduct	-0.11	
	For >30,000, Deduct	-0.15	
09 01 90 52-0006	SF Hand Scrape, Concrete And Masonry Surfaces, Surface Preparation.....	0.68	
	For Up To 100, Add	1.36	
	For >100 To 250, Add	0.34	
	For >250 To 500, Add	0.17	
	For >5,000 To 10,000, Deduct	-0.03	
	For >10,000 To 15,000, Deduct	-0.07	
	For >15,000 To 30,000, Deduct	-0.10	
	For >30,000, Deduct	-0.14	
09 01 90 52-0007	SF Steam Clean, Concrete And Masonry Surfaces, Surface Preparation.....	0.68	
	For Up To 100, Add	1.16	
	For >100 To 250, Add	0.29	
	For >250 To 500, Add	0.15	
	For >5,000 To 10,000, Deduct	-0.03	
	For >10,000 To 15,000, Deduct	-0.06	
	For >15,000 To 30,000, Deduct	-0.10	
	For >30,000, Deduct	-0.13	
09 01 90 52-0008	SF Up To 5,000 PSI Pressure Wash, Concrete And Masonry Surfaces, Surface Preparation.....	0.44	
	For Up To 100, Add	0.70	
	For >100 To 250, Add	0.18	
	For >250 To 500, Add	0.09	
	For >5,000 To 10,000, Deduct	-0.02	
	For >10,000 To 15,000, Deduct	-0.04	
	For >15,000 To 30,000, Deduct	-0.06	
	For >30,000, Deduct	-0.08	
09 01 90 52-0009	SF 10,000 To 12,000 PSI Water Blast, Concrete And Masonry Surfaces, Surface Preparation	1.25	
	For Up To 100, Add	2.22	
	For >100 To 250, Add	0.56	
	For >250 To 500, Add	0.28	
	For >5,000 To 10,000, Deduct	-0.06	
	For >10,000 To 15,000, Deduct	-0.12	
	For >15,000 To 30,000, Deduct	-0.18	
	For >30,000, Deduct	-0.24	
09 01 90 52-0010	SF 30,000 To 40,000 PSI Water Blast, Concrete And Masonry Surfaces, Surface Preparation	2.08	
	For Up To 100, Add	3.88	
	For >100 To 250, Add	0.97	
	For >250 To 500, Add	0.49	
	For >5,000 To 10,000, Deduct	-0.10	
	For >10,000 To 15,000, Deduct	-0.20	
	For >15,000 To 30,000, Deduct	-0.31	
	For >30,000, Deduct	-0.41	

09 Finishes**09 01 Maintenance of Finishes****09 01 90 Maintenance of Painting and Coating**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0011 SF Sand Blasting, Concrete And Masonry Surfaces, Surface Preparation.....	2.94	
For Heavy Condition Where Multiple Pass Is Required, Add	1.47	
For Up To 100, Add	5.24	
For >100 To 250, Add	1.31	
For >250 To 500, Add	0.66	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 15,000, Deduct	-0.28	
For >15,000 To 30,000, Deduct	-0.43	
For >30,000, Deduct	-0.57	
09 01 90 52-0012 Metal Surfaces, Surface Preparation (09 01 90 52-0001)	0.48	
09 01 90 52-0013 SF Trisodium Phosphate (TSP), Clean Metal Surfaces, Surface Preparation.....	0.48	
For Up To 100, Add	0.35	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.05	
For >15,000 To 30,000, Deduct	-0.07	
For >30,000, Deduct	-0.10	
09 01 90 52-0014 SF Chemical Clean, Brush And Wash, Metal Surfaces, Surface Preparation	0.77	
For Up To 100, Add	0.49	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 15,000, Deduct	-0.07	
For >15,000 To 30,000, Deduct	-0.11	
For >30,000, Deduct	-0.15	
09 01 90 52-0015 SF Hand Scraping And Sanding, Metal Surfaces, Surface Preparation	0.68	
For Up To 100, Add	0.51	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.10	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.07	
For >15,000 To 30,000, Deduct	-0.10	
For >30,000, Deduct	-0.14	
09 01 90 52-0016 SF Up To 5,000 PSI Pressure Wash, Metal Surfaces, Surface Preparation.....	0.42	
For Up To 100, Add	0.26	
For >100 To 250, Add	0.12	
For >250 To 500, Add	0.05	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.04	
For >15,000 To 30,000, Deduct	-0.06	
For >30,000, Deduct	-0.08	
09 01 90 52-0017 SF Power Tool Cleaning, Metal Surfaces, Surface Preparation	1.23	
For Up To 100, Add	0.92	
For >100 To 250, Add	0.43	
For >250 To 500, Add	0.18	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 15,000, Deduct	-0.12	
For >15,000 To 30,000, Deduct	-0.18	
For >30,000, Deduct	-0.25	
09 01 90 52-0018 SF Steam Cleaning, Metal Surfaces, Surface Preparation	0.42	
For Up To 100, Add	0.24	
For >100 To 250, Add	0.11	
For >250 To 500, Add	0.05	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.04	
For >15,000 To 30,000, Deduct	-0.06	
For >30,000, Deduct	-0.08	
09 01 90 52-0019 SF Loose Mill Scale With Fine Powder, Commercial Blast, Metal Surfaces, Surface Preparation	0.93	
For Up To 100, Add	0.59	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 15,000, Deduct	-0.09	
For >15,000 To 30,000, Deduct	-0.14	
For >30,000, Deduct	-0.18	
09 01 90 52-0020 SF Tight Mill Scale With Fine Powder Rust, Commercial Blast, Metal Surfaces, Surface Preparation.....	1.26	
For Up To 100, Add	0.79	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 15,000, Deduct	-0.12	
For >15,000 To 30,000, Deduct	-0.18	
For >30,000, Deduct	-0.24	
09 01 90 52-0021 SF Exterior Coating Blistered Pitted, Rust, Commercial Blast, Metal Surfaces, Surface Preparation	1.86	
For Up To 100, Add	1.19	
For >100 To 250, Add	0.55	
For >250 To 500, Add	0.24	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 15,000, Deduct	-0.17	
For >15,000 To 30,000, Deduct	-0.27	
For >30,000, Deduct	-0.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0022 SF Badly Pitted With Rust Nodules, Commercial Blast, Metal Surfaces, Surface Preparation.....	3.11	
For Up To 100, Add	1.97	
For >100 To 250, Add	0.92	
For >250 To 500, Add	0.39	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 15,000, Deduct	-0.29	
For >15,000 To 30,000, Deduct	-0.45	
For >30,000, Deduct	-0.60	
09 01 90 52-0023 SF Loose Mill Scale With Fine Powder Rust, Near White Blast, Metal Surfaces, Surface Preparation	2.36	
For Up To 100, Add	1.48	
For >100 To 250, Add	0.69	
For >250 To 500, Add	0.30	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 15,000, Deduct	-0.22	
For >15,000 To 30,000, Deduct	-0.34	
For >30,000, Deduct	-0.45	
09 01 90 52-0024 SF Tight Mill Scale Little Rust, Near White Blast, Metal Surfaces, Surface Preparation	2.92	
For Up To 100, Add	1.82	
For >100 To 250, Add	0.85	
For >250 To 500, Add	0.36	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 15,000, Deduct	-0.27	
For >15,000 To 30,000, Deduct	-0.42	
For >30,000, Deduct	-0.56	
09 01 90 52-0025 SF Exterior Coat Blistered Pitted Rust, Near White Blast, Metal Surfaces, Surface Preparation	3.79	
For Up To 100, Add	2.36	
For >100 To 250, Add	1.10	
For >250 To 500, Add	0.47	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 15,000, Deduct	-0.35	
For >15,000 To 30,000, Deduct	-0.55	
For >30,000, Deduct	-0.73	
09 01 90 52-0026 SF Badly Pitted Rust Nodules, Near White Blast, Metal Surfaces, Surface Preparation	4.74	
For Up To 100, Add	2.96	
For >100 To 250, Add	1.38	
For >250 To 500, Add	0.59	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 15,000, Deduct	-0.44	
For >15,000 To 30,000, Deduct	-0.69	
For >30,000, Deduct	-0.91	
09 01 90 52-0027 Tile Surfaces, Surface Preparation (09 01 90 52-0001)		
09 01 90 52-0028 SF Trisodium Phosphate (TSP), Clean Tile Surfaces, Surface Preparation	0.43	
For Up To 100, Add	0.32	
For >100 To 250, Add	0.15	
For >250 To 500, Add	0.06	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.04	
For >15,000 To 30,000, Deduct	-0.06	
For >30,000, Deduct	-0.09	
09 01 90 52-0029 CSF Chemical Alkaline Cleaner, Brush And Wash Tile Surfaces, Surface Preparation.....	43.66	
For Up To 100, Add	32.56	
For >100 To 250, Add	15.19	
For >250 To 500, Add	6.51	
For >5,000 To 10,000, Deduct	-2.18	
For >10,000 To 15,000, Deduct	-4.36	
For >15,000 To 30,000, Deduct	-6.54	
For >30,000, Deduct	-8.72	
09 01 90 52-0030 SF Up To 5,000 PSI, Pressure Wash Tile Surfaces, Surface Preparation	0.31	
For Up To 100, Add	0.20	
For >100 To 250, Add	0.09	
For >250 To 500, Add	0.04	
For >5,000 To 10,000, Deduct	-0.01	
For >10,000 To 15,000, Deduct	-0.03	
For >15,000 To 30,000, Deduct	-0.05	
For >30,000, Deduct	-0.06	
09 01 90 52-0031 Wood Surfaces, Surface Preparation (09 01 90 52-0001)		
09 01 90 52-0032 SF Trisodium Phosphate (TSP), Clean Wood Surfaces, Surface Preparation	0.45	
For Up To 100, Add	0.33	
For >100 To 250, Add	0.15	
For >250 To 500, Add	0.07	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.04	
For >15,000 To 30,000, Deduct	-0.07	
For >30,000, Deduct	-0.09	
09 01 90 52-0033 SF Chemical Clean, Brush And Wash Wood Surfaces, Surface Preparation.....	0.63	
For Up To 100, Add	0.38	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.06	
For >15,000 To 30,000, Deduct	-0.09	
For >30,000, Deduct	-0.12	

09 Finishes**09 01 Maintenance of Finishes****09 01 90 Maintenance of Painting and Coating**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0034 SF Hand Scrape Wood Surfaces, Surface Preparation	0.72	
For Up To 100, Add	0.54	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 15,000, Deduct	-0.07	
For >15,000 To 30,000, Deduct	-0.11	
For >30,000, Deduct	-0.14	
09 01 90 52-0035 SF Steam Clean Wood Surfaces, Surface Preparation	0.66	
For Up To 100, Add	0.42	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.08	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.06	
For >15,000 To 30,000, Deduct	-0.10	
For >30,000, Deduct	-0.13	
09 01 90 52-0036 SF Up To 5,000 PSI, Pressure Wash Wood Surfaces, Surface Preparation	0.46	
For Up To 100, Add	0.29	
For >100 To 250, Add	0.14	
For >250 To 500, Add	0.06	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.04	
For >15,000 To 30,000, Deduct	-0.07	
For >30,000, Deduct	-0.09	
09 01 90 52-0037 SF Sanding Wood Paneling, Boards, Doors Or Other Wood Surfaces, Surface Preparation	0.89	
For Up To 100, Add	0.63	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 15,000, Deduct	-0.09	
For >15,000 To 30,000, Deduct	-0.13	
For >30,000, Deduct	-0.18	
09 01 90 52-0038 SF Sanding Wood Trim Surfaces, Surface Preparation	1.21	
For Up To 100, Add	0.87	
For >100 To 250, Add	0.41	
For >250 To 500, Add	0.17	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 15,000, Deduct	-0.12	
For >15,000 To 30,000, Deduct	-0.18	
For >30,000, Deduct	-0.24	
09 01 90 52-0039 SF Prepare New Wood Floor For Finish, Multi Grit Sanding/Screening	1.36	
For Up To 100, Add	0.98	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.20	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 15,000, Deduct	-0.13	
For >15,000 To 30,000, Deduct	-0.20	
For >30,000, Deduct	-0.27	
09 01 90 52-0040 SF Prime Wood Surfaces With Linseed Oil, 1 Coat, Surface Preparation	0.78	
For Up To 100, Add	0.52	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.10	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 15,000, Deduct	-0.07	
For >15,000 To 30,000, Deduct	-0.11	
For >30,000, Deduct	-0.15	
09 01 90 52-0041 SF Paint Wood Surfaces With Linseed Oil, 1 Coat, Surface Preparation	0.90	
For Up To 100, Add	0.61	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 15,000, Deduct	-0.09	
For >15,000 To 30,000, Deduct	-0.13	
For >30,000, Deduct	-0.18	
09 01 90 52-0042 Vinyl Siding Surfaces, Surface Preparation (09 01 90 52-0001)		
09 01 90 52-0043 SF Trisodium Phosphate (TSP), Clean, Vinyl Siding Surfaces, Surface Preparation	0.43	
For Up To 100, Add	0.32	
For >100 To 250, Add	0.15	
For >250 To 500, Add	0.06	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.04	
For >15,000 To 30,000, Deduct	-0.06	
For >30,000, Deduct	-0.09	
09 01 90 52-0044 SF Hand Wash, Vinyl Siding Surfaces, Surface Preparation	0.69	
For Up To 100, Add	0.50	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.07	
For >15,000 To 30,000, Deduct	-0.10	
For >30,000, Deduct	-0.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0045 SF Up To 5,000 PSI Pressure Wash, Vinyl Siding Surfaces, Surface Preparation.....	0.38	
<i>For Up To 100, Add</i>	0.23	
<i>For >100 To 250, Add</i>	0.11	
<i>For >250 To 500, Add</i>	0.05	
<i>For >5,000 To 10,000, Deduct</i>	-0.02	
<i>For >10,000 To 15,000, Deduct</i>	-0.03	
<i>For >15,000 To 30,000, Deduct</i>	-0.05	
<i>For >30,000, Deduct</i>	-0.07	
09 01 90 52-0046 SF Steam Clean, Vinyl Siding Surfaces, Surface Preparation.....	0.70	
<i>For Up To 100, Add</i>	0.42	
<i>For >100 To 250, Add</i>	0.20	
<i>For >250 To 500, Add</i>	0.08	
<i>For >5,000 To 10,000, Deduct</i>	-0.03	
<i>For >10,000 To 15,000, Deduct</i>	-0.06	
<i>For >15,000 To 30,000, Deduct</i>	-0.10	
<i>For >30,000, Deduct</i>	-0.13	
09 01 90 52-0047 Plaster/Stucco Surfaces, Surface Preparation <small>(09 01 90 52-0001)</small>		
Note: Based on total project quantity.		
09 01 90 52-0048 SF Trisodium Phosphate (TSP), Clean Plaster/Stucco Surfaces, Surface Preparation.....	0.50	
<i>For Up To 100, Add</i>	0.37	
<i>For >100 To 250, Add</i>	0.17	
<i>For >250 To 500, Add</i>	0.07	
<i>For >5,000 To 10,000, Deduct</i>	-0.02	
<i>For >10,000 To 15,000, Deduct</i>	-0.05	
<i>For >15,000 To 30,000, Deduct</i>	-0.07	
<i>For >30,000, Deduct</i>	-0.10	
09 01 90 52-0049 SF Up To 5,000 PSI Pressure Wash Plaster/Stucco Surfaces, Surface Preparation	0.49	
<i>For Up To 100, Add</i>	0.30	
<i>For >100 To 250, Add</i>	0.14	
<i>For >250 To 500, Add</i>	0.06	
<i>For >5,000 To 10,000, Deduct</i>	-0.02	
<i>For >10,000 To 15,000, Deduct</i>	-0.05	
<i>For >15,000 To 30,000, Deduct</i>	-0.07	
<i>For >30,000, Deduct</i>	-0.09	
09 01 90 52-0050 Prep Work <small>(09 01 90 52-0001)</small>		
09 01 90 52-0051 SF Citrus Strip, Single Applications.....	1.14	
09 01 90 91 Paint Restoration <small>(09 01 90)</small>		
09 01 90 91-0001 Paint Removal, Strip To Bare Wood <small>(09 01 90 91)</small>		
09 01 90 91-0002 SF Flat Surfaces, Paint Removal, Strip To Bare Wood	7.97	
09 01 90 91-0003 SF Cornices And Decorative Trim To 12" Wide, Paint Removal, Strip To Bare Wood	8.49	

09 90 Painting and Coating (09)

Note: Includes masking, safety signs, cleaning of area (dry wiping down walls, floors, doors, etc.), removal of loose paint (paint, caulk, etc.), feathering rough edges, sanding between coats, protective work to contain dust and paint splatters (drop cloths), unless otherwise noted, removal and reinstallation of cabinet hardware, switch covers and outlet plates, equipment to place paint and ladders. New construction work additionally includes filling knots, divots, depressions, holes (screw and nail holes in drywall to 1/4" diameter of unlimited quantity). All work designated as "brush/roller" includes brush work for cut and roller work up to cut in.

09 91 Painting (09 90)

09 91 13 Exterior Painting (09 91)

Note: Acrylic latex paint unless otherwise stated. Paint tasks covers all paint sheens: flat, eggshell, satin, semi-gloss, or gloss.

09 91 13 00-0001 Paint Exterior Walls/Siding (09 91 13)

09 91 13 00-0002 Paint Exterior Brick Walls (09 91 13 00-0001)

09 91 13 00-0003 SF 1 Coat Filler, Brush Work, Paint Exterior Brick Walls.....	0.95	
<i>For Oil Based Paint, Add</i>	0.05	
<i>For Work >15' To 20' Above Floor, Add</i>	0.12	
<i>Note: Applied only to work area above 15' to 20'.</i>		
<i>For Work >20' To 30' Above Floor, Add</i>	0.20	
<i>Note: Applied only to work area above 20'.</i>		
<i>For Work >30' To 40' Above Floor, Add</i>	0.32	
<i>Note: Applied only to work area above 30' to 40'.</i>		
<i>For Work >40' Above Floor, Add</i>	0.45	
<i>Note: Applied only to work area above 40'.</i>		
<i>For Up To 100, Add</i>	0.63	
<i>For >100 To 250, Add</i>	0.30	
<i>For >250 To 500, Add</i>	0.13	
<i>For >2,500 To 5,000, Deduct</i>	-0.05	
<i>For >5,000 To 10,000, Deduct</i>	-0.10	
<i>For >10,000 To 20,000, Deduct</i>	-0.14	
<i>For >20,000, Deduct</i>	-0.19	

09	Finishes
09 90	Painting and Coating
09 91	Painting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0004 SF 1 Coat Paint, Brush Work, Paint Exterior Brick Walls.....	1.37	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.18	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.30	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.48	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.67	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.93	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.27	
09 91 13 00-0005 SF 2 Coats Paint, Brush Work, Paint Exterior Brick Walls.....	1.94	
For Oil Based Paint, Add	0.11	
For Work >15' To 20' Above Floor, Add	0.24	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.41	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.65	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.89	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.26	
For >100 To 250, Add	0.60	
For >250 To 500, Add	0.26	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.19	
For >10,000 To 20,000, Deduct	-0.29	
For >20,000, Deduct	-0.39	
09 91 13 00-0006 SF 1 Coat Filler, Brush/Roller Work, Paint Exterior Brick Walls.....	0.63	
For Oil Based Paint, Add	0.04	
For Work >15' To 20' Above Floor, Add	0.07	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.12	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.20	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.27	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.39	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.13	
09 91 13 00-0007 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Brick Walls.....	1.03	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.33	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.45	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.65	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.21	
09 91 13 00-0008 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Brick Walls.....	1.51	
For Oil Based Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.17	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.29	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.46	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.63	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.91	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.30	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0009 SF 1 Coat Filler, Sprayed, Paint Exterior Brick Walls	0.55	
For Oil Based Paint, Add	0.04	
For Work >15' To 20' Above Floor, Add	0.06	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.10	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.16	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.21	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.32	
For >100 To 250, Add	0.15	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.11	
09 91 13 00-0010 SF 1 Coat Paint, Sprayed, Paint Exterior Brick Walls	0.53	
For Oil Based Paint, Add	0.04	
For Work >15' To 20' Above Floor, Add	0.05	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.08	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.12	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.17	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.26	
For >100 To 250, Add	0.13	
For >250 To 500, Add	0.06	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.11	
09 91 13 00-0011 SF 2 Coats Paint, Sprayed, Paint Exterior Brick Walls	1.16	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.31	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.42	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.64	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	
09 91 13 00-0012 Paint Exterior Concrete Walls (09 91 13 00-0001)	0.81	
09 91 13 00-0013 SF 1 Coat Filler, Brush Work, Paint Exterior Concrete Walls	0.81	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.28	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.38	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.54	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	

09 Finishes
09 90 Painting and Coating
09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0014	SF		1 Coat Filler, Brush Work, Paint Exterior Concrete Walls	0.88	
			For Oil Based Paint, Add	0.05	
			For Epoxy Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.20	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.32	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.43	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.61	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.18	
09 91 13 00-0015	SF		2 Coats Paint, Brush Work, Paint Exterior Concrete Walls	1.66	
			For Oil Based Paint, Add	0.09	
			For Epoxy Paint, Add	0.14	
			For Work >15' To 20' Above Floor, Add	0.22	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.37	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.59	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.81	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.14	
			For >100 To 250, Add	0.54	
			For >250 To 500, Add	0.23	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.17	
			For >10,000 To 20,000, Deduct	-0.25	
			For >20,000, Deduct	-0.33	
09 91 13 00-0016	SF		1 Coat Filler, Brush/Roller Work, Paint Exterior Concrete Walls	0.65	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.08	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.13	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.21	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.29	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.42	
			For >100 To 250, Add	0.20	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.13	
09 91 13 00-0017	SF		1 Coat Paint, Brush/Roller Work, Paint Exterior Concrete Walls	0.74	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.06	
			For Work >15' To 20' Above Floor, Add	0.10	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.16	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.26	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.36	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.50	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.15	



Finishes	09	9
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0018 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Concrete Walls.....	1.23	
For Oil Based Paint, Add	0.07	
For Epoxy Paint, Add	0.12	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.26	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.42	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.58	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.81	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.25	
09 91 13 00-0019 SF 1 Coat Filler, Sprayed, Paint Exterior Concrete Walls.....	0.50	
For Oil Based Paint, Add	0.03	
For Epoxy Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.05	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.09	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.14	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.20	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.29	
For >100 To 250, Add	0.14	
For >250 To 500, Add	0.06	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.10	
09 91 13 00-0020 SF 1 Coat Paint, Sprayed, Paint Exterior Concrete Walls.....	0.46	
For Oil Based Paint, Add	0.03	
For Epoxy Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.05	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.09	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.14	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.19	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.27	
For >100 To 250, Add	0.13	
For >250 To 500, Add	0.06	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.07	
For >20,000, Deduct	-0.09	
09 91 13 00-0021 SF 2 Coats Paint, Sprayed, Paint Exterior Concrete Walls.....	0.78	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.11	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.14	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.22	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.30	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.45	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	

- 09 91 13 00-0022 Paint Exterior Concrete Block Walls (09 91 13 00-0001)
- 09 91 13 00-0023 Paint Exterior Concrete Block Walls, Epoxy Paint (09 91 13 00-0022)

09 Finishes
09 90 Painting and Coating
09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0024	SF	1	Coat Epoxy Filler, Brush Work, Paint Exterior Concrete Block Walls.....	1.11	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.23	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.36	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.50	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.71	
			<i>For >100 To 250, Add</i>	0.34	
			<i>For >250 To 500, Add</i>	0.15	
			<i>For >2,500 To 5,000, Deduct</i>	-0.06	
			<i>For >5,000 To 10,000, Deduct</i>	-0.11	
			<i>For >10,000 To 20,000, Deduct</i>	-0.17	
			<i>For >20,000, Deduct</i>	-0.22	
09 91 13 00-0025	SF	1	Coat Epoxy Paint, Brush Work, Paint Exterior Concrete Block Walls.....	1.28	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.16	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.27	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.43	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.59	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.83	
			<i>For >100 To 250, Add</i>	0.40	
			<i>For >250 To 500, Add</i>	0.17	
			<i>For >2,500 To 5,000, Deduct</i>	-0.06	
			<i>For >5,000 To 10,000, Deduct</i>	-0.13	
			<i>For >10,000 To 20,000, Deduct</i>	-0.19	
			<i>For >20,000, Deduct</i>	-0.26	
09 91 13 00-0026	SF	2	Coats Epoxy Paint, Brush Work, Paint Exterior Concrete Block Walls.....	2.22	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.27	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.45	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.72	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.99	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.41	
			<i>For >100 To 250, Add</i>	0.67	
			<i>For >250 To 500, Add</i>	0.29	
			<i>For >2,500 To 5,000, Deduct</i>	-0.11	
			<i>For >5,000 To 10,000, Deduct</i>	-0.22	
			<i>For >10,000 To 20,000, Deduct</i>	-0.33	
			<i>For >20,000, Deduct</i>	-0.44	
09 91 13 00-0027	SF	1	Coat Epoxy Filler, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	0.90	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.10	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.17	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.28	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.38	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.55	
			<i>For >100 To 250, Add</i>	0.26	
			<i>For >250 To 500, Add</i>	0.11	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.09	
			<i>For >10,000 To 20,000, Deduct</i>	-0.14	
			<i>For >20,000, Deduct</i>	-0.18	
09 91 13 00-0028	SF	1	Coat Epoxy Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	1.00	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.20	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.32	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.43	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.62	
			<i>For >100 To 250, Add</i>	0.30	
			<i>For >250 To 500, Add</i>	0.13	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.10	
			<i>For >10,000 To 20,000, Deduct</i>	-0.15	
			<i>For >20,000, Deduct</i>	-0.20	



Finishes	09	2
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0029 SF 2 Coats Epoxy Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls	1.76	
For Work >15' To 20' Above Floor, Add	0.20	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.34	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.54	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.74	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.07	
For >100 To 250, Add	0.51	
For >250 To 500, Add	0.22	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 20,000, Deduct	-0.26	
For >20,000, Deduct	-0.35	
09 91 13 00-0030 SF 1 Coat Epoxy Filler, Sprayed, Paint Exterior Concrete Block Walls	0.63	
For Work >15' To 20' Above Floor, Add	0.06	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.10	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.15	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.21	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.32	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.13	
09 91 13 00-0031 SF 1 Coat Epoxy Paint, Sprayed, Paint Exterior Concrete Block Walls	0.71	
For Work >15' To 20' Above Floor, Add	0.07	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.12	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.18	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.25	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.38	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	
09 91 13 00-0032 SF 2 Coats Epoxy Paint, Sprayed, Paint Exterior Concrete Block Walls	1.36	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.33	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.46	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.70	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.27	
09 91 13 00-0033 Paint Exterior Concrete Block Walls, Acrylic Latex Paint (09 91 13 00-0022)		
09 91 13 00-0034 SF 1 Coat Filler, Brush Work, Paint Exterior Concrete Block Walls	1.04	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.36	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.50	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.70	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	

09	Finishes
09 90	Painting and Coating
09 91	Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0035	SF		1 Coat Paint, Brush Work, Paint Exterior Concrete Block Walls	1.22	
			For Oil Based Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.16	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.26	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.42	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.57	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.81	
			For >100 To 250, Add	0.38	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.24	
09 91 13 00-0036	SF		2 Coats Paint, Brush Work, Paint Exterior Concrete Block Walls.....	2.22	
			For Oil Based Paint, Add	0.13	
			For Work >15' To 20' Above Floor, Add	0.28	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.46	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.74	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.02	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.44	
			For >100 To 250, Add	0.68	
			For >250 To 500, Add	0.30	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.22	
			For >10,000 To 20,000, Deduct	-0.33	
			For >20,000, Deduct	-0.44	
09 91 13 00-0037	SF		Texture Coat, Brush Work, Paint Exterior Concrete Block Walls	1.37	
			For Oil Based Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.17	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.29	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.46	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.64	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.90	
			For >100 To 250, Add	0.43	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.27	
09 91 13 00-0038	SF		1 Coat Filler, Brush/Roller Work, Paint Exterior Concrete Block Walls	0.81	
			For Oil Based Paint, Add	0.05	
			For Work >15' To 20' Above Floor, Add	0.10	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.17	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.27	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.37	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.52	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	
09 91 13 00-0039	SF		1 Coat Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls	1.02	
			For Oil Based Paint, Add	0.06	
			For Work >15' To 20' Above Floor, Add	0.13	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.21	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.34	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.46	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.66	
			For >100 To 250, Add	0.31	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0040 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls	1.75	
For Oil Based Paint, Add	0.11	
For Work >15' To 20' Above Floor, Add	0.21	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.35	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.55	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.76	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.09	
For >100 To 250, Add	0.52	
For >250 To 500, Add	0.23	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 20,000, Deduct	-0.26	
For >20,000, Deduct	-0.35	
09 91 13 00-0041 SF Texture Coat, Brush/Roller Work, Paint Exterior Concrete Block Walls	1.15	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.38	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.52	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.74	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	
09 91 13 00-0042 SF 1 Coat Filler, Sprayed, Paint Exterior Concrete Block Walls	0.69	
For Oil Based Paint, Add	0.04	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.13	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.20	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.28	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.41	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.14	
09 91 13 00-0043 SF 1 Coat Paint, Sprayed, Paint Exterior Concrete Block Walls	0.71	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.07	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.12	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.19	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.26	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.39	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	
09 91 13 00-0044 SF 2 Coats Paint, Sprayed, Paint Exterior Concrete Block Walls	1.14	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.13	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.22	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.34	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.47	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.69	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	

09	Finishes
09 90	Painting and Coating
09 91	Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0045	SF		Texture Coat, Sprayed, Paint Exterior Concrete Block Walls.....	0.93	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.10	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.16	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.26	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.36	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.53	
			<i>For >100 To 250, Add</i>	0.26	
			<i>For >250 To 500, Add</i>	0.11	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.09	
			<i>For >10,000 To 20,000, Deduct</i>	-0.14	
			<i>For >20,000, Deduct</i>	-0.19	
09 91 13 00-0046			Paint Exterior Metal Walls (09 91 13 00-0001)		
09 91 13 00-0047			Paint Exterior Galvanized Walls (09 91 13 00-0046)		
			Note: Linseed oil or acrylic latex paint.		
09 91 13 00-0048	SF		1 Coat Primer, Brush Work, Paint Exterior Galvanized Wall Surfaces.....	1.01	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.20	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.32	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.45	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.64	
			<i>For >100 To 250, Add</i>	0.30	
			<i>For >250 To 500, Add</i>	0.13	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.10	
			<i>For >10,000 To 20,000, Deduct</i>	-0.15	
			<i>For >20,000, Deduct</i>	-0.20	
09 91 13 00-0049	SF		1 Coat Paint, Brush Work, Paint Exterior Galvanized Wall Surfaces.....	1.12	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.23	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.37	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.51	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.72	
			<i>For >100 To 250, Add</i>	0.34	
			<i>For >250 To 500, Add</i>	0.15	
			<i>For >2,500 To 5,000, Deduct</i>	-0.06	
			<i>For >5,000 To 10,000, Deduct</i>	-0.11	
			<i>For >10,000 To 20,000, Deduct</i>	-0.17	
			<i>For >20,000, Deduct</i>	-0.22	
09 91 13 00-0050	SF		2 Coats Paint, Brush Work, Paint Exterior Galvanized Wall Surfaces.....	2.01	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.24	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.40	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.64	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.89	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.27	
			<i>For >100 To 250, Add</i>	0.60	
			<i>For >250 To 500, Add</i>	0.26	
			<i>For >2,500 To 5,000, Deduct</i>	-0.10	
			<i>For >5,000 To 10,000, Deduct</i>	-0.20	
			<i>For >10,000 To 20,000, Deduct</i>	-0.30	
			<i>For >20,000, Deduct</i>	-0.40	
09 91 13 00-0051	SF		1 Coat Primer, Brush/Roller Work, Paint Exterior Galvanized Walls.....	0.74	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.09	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.15	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.23	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.32	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.46	
			<i>For >100 To 250, Add</i>	0.22	
			<i>For >250 To 500, Add</i>	0.10	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.07	
			<i>For >10,000 To 20,000, Deduct</i>	-0.11	
			<i>For >20,000, Deduct</i>	-0.15	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0052 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Galvanized Walls	0.86	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.28	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.38	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.54	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 13 00-0053 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Galvanized Walls	1.61	
For Work >15' To 20' Above Floor, Add	0.19	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.32	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.51	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.70	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.00	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.24	
For >20,000, Deduct	-0.32	
09 91 13 00-0054 SF 1 Coat Primer, Sprayed, Paint Exterior Galvanized Walls.....	0.55	
For Work >15' To 20' Above Floor, Add	0.05	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.08	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.13	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.18	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.27	
For >100 To 250, Add	0.14	
For >250 To 500, Add	0.06	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.11	
09 91 13 00-0055 SF 1 Coat Paint, Sprayed, Paint Exterior Galvanized Walls.....	0.74	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.13	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.20	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.28	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.42	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0056 SF 2 Coats Paint, Sprayed, Paint Exterior Galvanized Walls	1.21	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.30	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.42	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.64	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	

09 91 13 00-0057 Paint Exterior Aluminum And Aluminum Alloy Walls (09 91 13 00-0046)
 Note: Alkyd enamel paint.

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0058	SF	1	Coat Primer, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces	1.01	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.20	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.32	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.45	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.64	
			<i>For >100 To 250, Add</i>	0.30	
			<i>For >250 To 500, Add</i>	0.13	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.10	
			<i>For >10,000 To 20,000, Deduct</i>	-0.15	
			<i>For >20,000, Deduct</i>	-0.20	
09 91 13 00-0059	SF	1	Coat Paint, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces	1.12	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.23	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.37	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.51	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.72	
			<i>For >100 To 250, Add</i>	0.34	
			<i>For >250 To 500, Add</i>	0.15	
			<i>For >2,500 To 5,000, Deduct</i>	-0.06	
			<i>For >5,000 To 10,000, Deduct</i>	-0.11	
			<i>For >10,000 To 20,000, Deduct</i>	-0.17	
			<i>For >20,000, Deduct</i>	-0.22	
09 91 13 00-0060	SF	2	Coats Paint, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces.....	2.00	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.24	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.40	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.64	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.89	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.27	
			<i>For >100 To 250, Add</i>	0.60	
			<i>For >250 To 500, Add</i>	0.26	
			<i>For >2,500 To 5,000, Deduct</i>	-0.10	
			<i>For >5,000 To 10,000, Deduct</i>	-0.20	
			<i>For >10,000 To 20,000, Deduct</i>	-0.30	
			<i>For >20,000, Deduct</i>	-0.40	
09 91 13 00-0061	SF	1	Coat Primer, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Walls	0.81	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.09	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.15	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.23	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.32	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.47	
			<i>For >100 To 250, Add</i>	0.23	
			<i>For >250 To 500, Add</i>	0.10	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.08	
			<i>For >10,000 To 20,000, Deduct</i>	-0.12	
			<i>For >20,000, Deduct</i>	-0.16	
09 91 13 00-0062	SF	1	Coat Paint, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Walls	0.92	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.10	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.17	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.28	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.38	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.55	
			<i>For >100 To 250, Add</i>	0.26	
			<i>For >250 To 500, Add</i>	0.12	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.09	
			<i>For >10,000 To 20,000, Deduct</i>	-0.14	
			<i>For >20,000, Deduct</i>	-0.18	



Finishes	09	2
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0063 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Walls	1.72	
For Work >15' To 20' Above Floor, Add	0.19	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.32	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.51	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.70	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.02	
For >100 To 250, Add	0.49	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.26	
For >20,000, Deduct	-0.34	
09 91 13 00-0064 SF 1 Coat Primer, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Walls.....	0.61	
For Work >15' To 20' Above Floor, Add	0.06	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.10	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.15	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.21	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.32	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	
09 91 13 00-0065 SF 1 Coat Paint, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Walls.....	0.74	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.13	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.20	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.28	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.42	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0066 SF 2 Coats Paint, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Walls	1.21	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.30	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.42	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.64	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	
09 91 13 00-0067 Paint Exterior Aluminum And Aluminum Alloy Roof Stacks (09 91 13 00-0046)		
09 91 13 00-0068 LF Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, 1 Coat Primer, Per LF Of Stack.....	12.50	
For Work >15' To 20' Above Floor, Add	1.70	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	2.84	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	4.54	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	6.25	
Note: Applied only to work area above 40'.		
For Up To 100, Add	8.69	
For >100 To 250, Add	4.09	
For >250 To 500, Add	1.76	
For >2,500 To 5,000, Deduct	-0.63	
For >5,000 To 10,000, Deduct	-1.25	
For >10,000 To 20,000, Deduct	-1.88	
For >20,000, Deduct	-2.50	

09	Finishes
09 90	Painting and Coating
09 91	Painting



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

09 91 13 00-0069	LF	Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, 1 Coat Paint, Per LF Of Stack.....	13.90
		For Work >15' To 20' Above Floor, Add	1.89
		Note: Applied only to work area above 15' to 20'.	
		For Work >20' To 30' Above Floor, Add	3.16
		Note: Applied only to work area above 20'.	
		For Work >30' To 40' Above Floor, Add	5.05
		Note: Applied only to work area above 30' to 40'.	
		For Work >40' Above Floor, Add	6.94
		Note: Applied only to work area above 40'.	
		For Up To 100, Add	9.66
		For >100 To 250, Add	4.55
		For >250 To 500, Add	1.96
		For >2,500 To 5,000, Deduct	-0.70
		For >5,000 To 10,000, Deduct	-1.39
		For >10,000 To 20,000, Deduct	-2.09
		For >20,000, Deduct	-2.78
09 91 13 00-0070	LF	Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, 2 Coats Paint, Per LF Of Stack.....	26.01
		For Work >15' To 20' Above Floor, Add	3.56
		Note: Applied only to work area above 15' to 20'.	
		For Work >20' To 30' Above Floor, Add	5.94
		Note: Applied only to work area above 20'.	
		For Work >30' To 40' Above Floor, Add	9.50
		Note: Applied only to work area above 30' to 40'.	
		For Work >40' Above Floor, Add	13.06
		Note: Applied only to work area above 40'.	
		For Up To 100, Add	18.15
		For >100 To 250, Add	8.54
		For >250 To 500, Add	3.67
		For >2,500 To 5,000, Deduct	-1.30
		For >5,000 To 10,000, Deduct	-2.60
		For >10,000 To 20,000, Deduct	-3.90
		For >20,000, Deduct	-5.20
09 91 13 00-0071		Paint Exterior Corrugated Metal Walls (09 91 13 00-0048)	
09 91 13 00-0072	SF	Paint Exterior Corrugated Metal Walls, 1 Coat Primer, Sprayed.....	0.68
		For Work >15' To 20' Above Floor, Add	0.06
		Note: Applied only to work area above 15' to 20'.	
		For Work >20' To 30' Above Floor, Add	0.11
		Note: Applied only to work area above 20'.	
		For Work >30' To 40' Above Floor, Add	0.17
		Note: Applied only to work area above 30' to 40'.	
		For Work >40' Above Floor, Add	0.23
		Note: Applied only to work area above 40'.	
		For Up To 100, Add	0.35
		For >100 To 250, Add	0.17
		For >250 To 500, Add	0.08
		For >2,500 To 5,000, Deduct	-0.03
		For >5,000 To 10,000, Deduct	-0.07
		For >10,000 To 20,000, Deduct	-0.10
		For >20,000, Deduct	-0.14
09 91 13 00-0073	SF	Paint Exterior Corrugated Metal Walls, 1 Coat Paint, Sprayed.....	0.94
		For Work >15' To 20' Above Floor, Add	0.10
		Note: Applied only to work area above 15' to 20'.	
		For Work >20' To 30' Above Floor, Add	0.17
		Note: Applied only to work area above 20'.	
		For Work >30' To 40' Above Floor, Add	0.27
		Note: Applied only to work area above 30' to 40'.	
		For Work >40' Above Floor, Add	0.37
		Note: Applied only to work area above 40'.	
		For Up To 100, Add	0.55
		For >100 To 250, Add	0.26
		For >250 To 500, Add	0.12
		For >2,500 To 5,000, Deduct	-0.05
		For >5,000 To 10,000, Deduct	-0.09
		For >10,000 To 20,000, Deduct	-0.14
		For >20,000, Deduct	-0.19
09 91 13 00-0074	SF	Paint Exterior Corrugated Metal Walls, 2 Coats Paint, Sprayed.....	1.53
		For Work >15' To 20' Above Floor, Add	0.15
		Note: Applied only to work area above 15' to 20'.	
		For Work >20' To 30' Above Floor, Add	0.25
		Note: Applied only to work area above 20'.	
		For Work >30' To 40' Above Floor, Add	0.40
		Note: Applied only to work area above 30' to 40'.	
		For Work >40' Above Floor, Add	0.56
		Note: Applied only to work area above 40'.	
		For Up To 100, Add	0.84
		For >100 To 250, Add	0.41
		For >250 To 500, Add	0.18
		For >2,500 To 5,000, Deduct	-0.08
		For >5,000 To 10,000, Deduct	-0.15
		For >10,000 To 20,000, Deduct	-0.23
		For >20,000, Deduct	-0.31



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0075 Paint Exterior Stucco Walls <small>(09 91 13 00-0001)</small>		
09 91 13 00-0076 SF Paint Exterior Stucco Wall Surfaces 1 Coat Primer, Brush Work.....	1.41	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.19	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.32	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.51	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.70	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.97	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.28	
09 91 13 00-0077 SF Paint Exterior Stucco Wall Surfaces 1 Coat Paint, Brush Work	1.55	
For Oil Based Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.21	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.35	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.56	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.76	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.07	
For >100 To 250, Add	0.50	
For >250 To 500, Add	0.22	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.31	
09 91 13 00-0078 SF Paint Exterior Stucco Wall Surfaces, 2 Coats Paint, Brush Work	2.85	
For Oil Based Paint, Add	0.16	
For Work >15' To 20' Above Floor, Add	0.38	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.63	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	1.01	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.39	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.95	
For >100 To 250, Add	0.92	
For >250 To 500, Add	0.40	
For >2,500 To 5,000, Deduct	-0.14	
For >5,000 To 10,000, Deduct	-0.29	
For >10,000 To 20,000, Deduct	-0.43	
For >20,000, Deduct	-0.57	
09 91 13 00-0079 SF Paint Exterior Stucco Walls, 1 Coat Primer, Brush/Roller Work.....	1.05	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.36	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.50	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.70	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	
09 91 13 00-0080 SF Paint Exterior Stucco Walls, 1 Coat Paint, Brush/Roller Work	1.19	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.15	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.26	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.41	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.57	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.80	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	

09	Finishes
09 90	Painting and Coating
09 91	Painting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0081 SF Paint Exterior Stucco Walls, 2 Coats Paint, Brush/Roller Work	2.18	
For Oil Based Paint, Add	0.13	
For Work >15' To 20' Above Floor, Add	0.28	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.47	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.74	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.02	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.44	
For >100 To 250, Add	0.68	
For >250 To 500, Add	0.30	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 20,000, Deduct	-0.33	
For >20,000, Deduct	-0.44	
09 91 13 00-0082 SF Paint Exterior Stucco Walls, 1 Coat Primer, Sprayed.....	0.70	
For Oil Based Paint, Add	0.04	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.14	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.22	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.30	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.43	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	
09 91 13 00-0083 SF Paint Exterior Stucco Walls, 1 Coat Paint, Sprayed	0.85	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.16	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.26	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.35	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.51	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 13 00-0084 SF Paint Exterior Stucco Walls, 2 Coats Paint, Sprayed	1.64	
For Oil Based Paint, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.19	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.32	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.51	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.70	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.01	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.33	

09 91 13 00-0085 Paint Exterior Wood Siding (09 91 13 00-0001)

09 91 13 00-0086 Paint Exterior Smooth Wood Siding (09 91 13 00-0085)
Note: Includes tongue and groove, beveled, drop or board and batten siding.



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0087 SF 1 Coat Primer, Brush Work, Paint Exterior Wood Smooth Siding.....	1.00	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.13	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.34	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.46	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.65	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 13 00-0088 SF 1 Coat Paint, Brush Work, Paint Exterior Wood Smooth Siding.....	1.06	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.37	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.51	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.71	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	
09 91 13 00-0089 SF 2 Coats Paint, Brush Work, Paint Exterior Wood Smooth Siding.....	1.89	
For Oil Based Paint, Add	0.11	
For Work >15' To 20' Above Floor, Add	0.24	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.40	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.64	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.89	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.25	
For >100 To 250, Add	0.59	
For >250 To 500, Add	0.26	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.19	
For >10,000 To 20,000, Deduct	-0.28	
For >20,000, Deduct	-0.38	
09 91 13 00-0090 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Smooth Wood Siding.....	0.76	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.15	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.23	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.32	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.46	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0091 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Smooth Wood Siding.....	0.85	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.28	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.38	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.54	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	

09 Finishes
09 90 Painting and Coating
09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0092	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Smooth Wood Siding.....	1.59	
			<i>For Oil Based Paint, Add</i>	0.10	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.19	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.32	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.51	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.70	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.00	
			<i>For >100 To 250, Add</i>	0.48	
			<i>For >250 To 500, Add</i>	0.21	
			<i>For >2,500 To 5,000, Deduct</i>	-0.08	
			<i>For >5,000 To 10,000, Deduct</i>	-0.16	
			<i>For >10,000 To 20,000, Deduct</i>	-0.24	
			<i>For >20,000, Deduct</i>	-0.32	
09 91 13 00-0093	SF		1 Coat Primer, Sprayed, Paint Exterior Smooth Wood Siding.....	0.56	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.06	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.10	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.15	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.31	
			<i>For >100 To 250, Add</i>	0.15	
			<i>For >250 To 500, Add</i>	0.07	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.06	
			<i>For >10,000 To 20,000, Deduct</i>	-0.08	
			<i>For >20,000, Deduct</i>	-0.11	
09 91 13 00-0094	SF		1 Coat Paint, Sprayed, Paint Exterior Smooth Wood Siding.....	0.69	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.20	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.28	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.41	
			<i>For >100 To 250, Add</i>	0.20	
			<i>For >250 To 500, Add</i>	0.09	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.07	
			<i>For >10,000 To 20,000, Deduct</i>	-0.10	
			<i>For >20,000, Deduct</i>	-0.14	
09 91 13 00-0095	SF		2 Coats Paint, Sprayed, Paint Exterior Smooth Wood Siding.....	1.11	
			<i>For Oil Based Paint, Add</i>	0.07	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.11	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.19	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.30	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.42	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.62	
			<i>For >100 To 250, Add</i>	0.30	
			<i>For >250 To 500, Add</i>	0.13	
			<i>For >2,500 To 5,000, Deduct</i>	-0.06	
			<i>For >5,000 To 10,000, Deduct</i>	-0.11	
			<i>For >10,000 To 20,000, Deduct</i>	-0.17	
			<i>For >20,000, Deduct</i>	-0.22	

09 91 13 00-0096 Paint Exterior Rough Wood Siding (09 91 13 00-0085)
 Note: Includes shingles, shakes or rough sawn siding.



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0097 SF Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding, 1 Coat Primer, Brush Work.....	1.57	
For Oil Based Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.21	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.35	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.56	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.76	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.07	
For >100 To 250, Add	0.50	
For >250 To 500, Add	0.22	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.24	
For >20,000, Deduct	-0.31	
09 91 13 00-0098 SF Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding, 1 Coat Paint, Brush Work.....	1.60	
For Oil Based Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.22	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.37	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.58	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.80	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.12	
For >100 To 250, Add	0.53	
For >250 To 500, Add	0.23	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.24	
For >20,000, Deduct	-0.32	
09 91 13 00-0099 SF Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding, 2 Coats Paint, Brush Work	2.94	
For Oil Based Paint, Add	0.16	
For Work >15' To 20' Above Floor, Add	0.40	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.67	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	1.06	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.46	
Note: Applied only to work area above 40'.		
For Up To 100, Add	2.04	
For >100 To 250, Add	0.96	
For >250 To 500, Add	0.41	
For >2,500 To 5,000, Deduct	-0.15	
For >5,000 To 10,000, Deduct	-0.29	
For >10,000 To 20,000, Deduct	-0.44	
For >20,000, Deduct	-0.59	
09 91 13 00-0100 SF Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 1 Coat Primer, Brush/Roller Work	1.33	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.15	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.26	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.41	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.57	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.82	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.27	
09 91 13 00-0101 SF Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 1 Coat Paint, Brush/Roller Work.....	1.46	
For Oil Based Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.17	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.29	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.46	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.64	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.92	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.22	
For >20,000, Deduct	-0.29	

09 Finishes
09 90 Painting and Coating
09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0102	SF		Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 2 Coats Paint, Brush/Roller Work	2.67	
			For Oil Based Paint, Add	0.16	
			For Work >15' To 20' Above Floor, Add	0.31	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.52	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.83	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.14	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.64	
			For >100 To 250, Add	0.78	
			For >250 To 500, Add	0.34	
			For >2,500 To 5,000, Deduct	-0.13	
			For >5,000 To 10,000, Deduct	-0.27	
			For >10,000 To 20,000, Deduct	-0.40	
			For >20,000, Deduct	-0.53	
09 91 13 00-0103	SF		Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 1 Coat Primer, Sprayed	0.88	
			For Oil Based Paint, Add	0.06	
			For Work >15' To 20' Above Floor, Add	0.09	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.16	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.25	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.35	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.51	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.18	
09 91 13 00-0104	SF		Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 1 Coat Paint, Sprayed	1.01	
			For Oil Based Paint, Add	0.06	
			For Work >15' To 20' Above Floor, Add	0.11	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.19	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.30	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.42	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.61	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91 13 00-0105	SF		Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 2 Coats Paint, Sprayed	1.90	
			For Oil Based Paint, Add	0.12	
			For Work >15' To 20' Above Floor, Add	0.21	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.35	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.56	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.76	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.12	
			For >100 To 250, Add	0.54	
			For >250 To 500, Add	0.23	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.19	
			For >10,000 To 20,000, Deduct	-0.29	
			For >20,000, Deduct	-0.38	

09 91 13 00-0106 Paint Exterior Vinyl Siding (09 91 13 00-0001)



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0107 SF Paint Exterior Vinyl Siding, 1 Coat Primer, Brush Work.....	0.85	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.28	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.38	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.54	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 13 00-0108 SF Paint Exterior Vinyl Siding, 1 Coat Paint, Brush Work.....	0.95	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.32	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.43	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.62	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	
09 91 13 00-0109 SF Paint Exterior Vinyl Siding, 2 Coats Paint, Brush Work.....	1.73	
For Oil Based Paint, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.21	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.35	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.55	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.76	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.09	
For >100 To 250, Add	0.52	
For >250 To 500, Add	0.22	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.26	
For >20,000, Deduct	-0.35	
09 91 13 00-0110 SF Paint Exterior Vinyl Siding, 1 Coat Primer, Brush/Roller Work.....	0.76	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.15	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.23	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.32	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.46	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0111 SF Paint Exterior Vinyl Siding, 1 Coat Paint, Brush/Roller Work.....	0.76	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.15	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.23	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.32	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.46	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	

09 Finishes
09 90 Painting and Coating
09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0112	SF		Paint Exterior Vinyl Siding, 2 Coats Paint, Brush/Roller Work	1.40	
			For Oil Based Paint, Add	0.09	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.26	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.41	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.57	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.83	
			For >100 To 250, Add	0.40	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.28	
09 91 13 00-0113	SF		Paint Exterior Vinyl Siding, 1 Coat Primer, Sprayed.....	0.61	
			For Oil Based Paint, Add	0.04	
			For Work >15' To 20' Above Floor, Add	0.06	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.10	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.15	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.21	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.32	
			For >100 To 250, Add	0.16	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	
09 91 13 00-0114	SF		Paint Exterior Vinyl Siding, 1 Coat Paint, Sprayed.....	0.68	
			For Oil Based Paint, Add	0.05	
			For Work >15' To 20' Above Floor, Add	0.06	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.10	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.15	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.21	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.33	
			For >100 To 250, Add	0.16	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.14	
09 91 13 00-0115	SF		Paint Exterior Vinyl Siding, 2 Coats Paint, Sprayed.....	1.34	
			For Oil Based Paint, Add	0.10	
			For Work >15' To 20' Above Floor, Add	0.11	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.19	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.30	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.42	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.66	
			For >100 To 250, Add	0.32	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.20	
			For >20,000, Deduct	-0.27	

09 91 13 00-0116 Paint Exterior Ceilings (09 91 13)
 09 91 13 00-0117 Paint Exterior Concrete Ceilings (09 91 13 00-0116)



Finishes	09	9
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0118 SF 1 Coat Filler, Brush Work, Paint Exterior Concrete Ceiling.....	0.92	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.32	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.44	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.62	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	
09 91 13 00-0119 SF 1 Coat Paint, Brush Work, Paint Exterior Concrete Ceiling.....	1.01	
For Oil Based Paint, Add	0.06	
For Epoxy Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.37	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.51	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.70	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 13 00-0120 SF 2 Coats Paint, Brush Work, Paint Exterior Concrete Ceiling.....	1.79	
For Oil Based Paint, Add	0.10	
For Epoxy Paint, Add	0.14	
For Work >15' To 20' Above Floor, Add	0.24	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.40	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.64	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.89	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.23	
For >100 To 250, Add	0.58	
For >250 To 500, Add	0.25	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 20,000, Deduct	-0.27	
For >20,000, Deduct	-0.36	
09 91 13 00-0121 SF 1 Coat Filler, Brush/Roller Work, Paint Exterior Concrete Ceiling.....	0.70	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.15	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.23	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.32	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.45	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	

09	Finishes
09 90	Painting and Coating
09 91	Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0122	SF		1 Coat Paint, Brush/Roller Work, Paint Exterior Concrete Ceiling.....	0.78	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.10	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.17	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.28	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.38	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.53	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	
09 91 13 00-0123	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Concrete Ceiling.....	1.46	
			For Oil Based Paint, Add	0.08	
			For Epoxy Paint, Add	0.13	
			For Work >15' To 20' Above Floor, Add	0.19	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.32	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.51	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.70	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.99	
			For >100 To 250, Add	0.47	
			For >250 To 500, Add	0.20	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 20,000, Deduct	-0.22	
			For >20,000, Deduct	-0.29	
09 91 13 00-0124	SF		1 Coat Filler, Sprayed, Paint Exterior Concrete Ceiling.....	0.52	
			For Oil Based Paint, Add	0.03	
			For Epoxy Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.06	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.10	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.15	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.21	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.31	
			For >100 To 250, Add	0.15	
			For >250 To 500, Add	0.06	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.10	
09 91 13 00-0125	SF		1 Coat Paint, Sprayed, Paint Exterior Concrete Ceiling.....	0.63	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.08	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.13	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.20	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.28	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.40	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.13	



Finishes	09	9
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0126 SF 2 Coats Paint, Sprayed, Paint Exterior Concrete Ceiling	0.99	
For Oil Based Paint, Add	0.06	
For Epoxy Paint, Add	0.12	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.30	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.42	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.60	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 13 00-0127 Paint Exterior Wood Ceilings (09 91 13 00-0116)		
09 91 13 00-0128 Paint Exterior Smooth Wood Ceilings (09 91 13 00-0127)		
09 91 13 00-0129 SF Paint Exterior Wood Smooth Ceiling, 1 Coat Primer, Brush Work	1.12	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.38	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.53	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.74	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.22	
09 91 13 00-0130 SF Paint Exterior Wood Smooth Ceiling, 1 Coat Paint, Brush Work.....	1.18	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.26	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.42	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.57	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.80	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	
09 91 13 00-0131 SF Paint Exterior Wood Smooth Ceiling, 2 Coats Paint, Brush Work.....	2.13	
For Oil Based Paint, Add	0.12	
For Work >15' To 20' Above Floor, Add	0.28	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.46	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.74	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.02	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.43	
For >100 To 250, Add	0.68	
For >250 To 500, Add	0.29	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.21	
For >10,000 To 20,000, Deduct	-0.32	
For >20,000, Deduct	-0.43	

09	Finishes
09 90	Painting and Coating
09 91	Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0132	SF		Paint Exterior Smooth Wood Ceiling, 1 Coat Primer, Brush/Roller Work	0.87	
			For Oil Based Paint, Add	0.05	
			For Work >15' To 20' Above Floor, Add	0.10	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.17	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.28	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.38	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.54	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.17	
09 91 13 00-0133	SF		Paint Exterior Smooth Wood Ceiling, 1 Coat Paint, Brush/Roller Work	0.97	
			For Oil Based Paint, Add	0.06	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.20	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.32	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.45	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.63	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.19	
09 91 13 00-0134	SF		Paint Exterior Smooth Wood Ceiling, 2 Coats Paint, Brush/Roller Work	1.71	
			For Oil Based Paint, Add	0.10	
			For Work >15' To 20' Above Floor, Add	0.21	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.35	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.56	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.76	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.09	
			For >100 To 250, Add	0.52	
			For >250 To 500, Add	0.22	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.17	
			For >10,000 To 20,000, Deduct	-0.26	
			For >20,000, Deduct	-0.34	
09 91 13 00-0135	SF		Paint Exterior Smooth Wood Ceiling, 1 Coat Primer, Sprayed	0.65	
			For Oil Based Paint, Add	0.04	
			For Work >15' To 20' Above Floor, Add	0.08	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.13	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.20	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.28	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.40	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.13	
09 91 13 00-0136	SF		Paint Exterior Smooth Wood Ceiling, 1 Coat Paint, Sprayed	0.65	
			For Oil Based Paint, Add	0.04	
			For Work >15' To 20' Above Floor, Add	0.08	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.13	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.20	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.28	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.40	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.13	



Finishes	09	2
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0137 SF Paint Exterior Smooth Wood Ceiling, 2 Coats Paint, Sprayed	1.16	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.13	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.22	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.35	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.48	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.70	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	
09 91 13 00-0138 Paint Exterior Rough Wood Ceilings (09 91 13 00-0127)	1.68	
09 91 13 00-0139 SF Paint Exterior Wood Rough Ceiling, 1 Coat Primer, Brush Work	1.68	
For Oil Based Paint, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.22	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.36	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.58	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.80	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.12	
For >100 To 250, Add	0.53	
For >250 To 500, Add	0.23	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.34	
09 91 13 00-0140 SF Paint Exterior Wood Rough Ceiling, 1 Coat Paint, Brush Work	1.76	
For Oil Based Paint, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.24	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.41	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.65	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.89	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.24	
For >100 To 250, Add	0.58	
For >250 To 500, Add	0.25	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 20,000, Deduct	-0.26	
For >20,000, Deduct	-0.35	
09 91 13 00-0141 SF Paint Exterior Wood Rough Ceiling, 2 Coats Paint, Brush Work	3.05	
For Oil Based Paint, Add	0.17	
For Work >15' To 20' Above Floor, Add	0.42	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.69	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	1.11	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.52	
Note: Applied only to work area above 40'.		
For Up To 100, Add	2.12	
For >100 To 250, Add	1.00	
For >250 To 500, Add	0.43	
For >2,500 To 5,000, Deduct	-0.15	
For >5,000 To 10,000, Deduct	-0.31	
For >10,000 To 20,000, Deduct	-0.46	
For >20,000, Deduct	-0.61	

09	Finishes
09 90	Painting and Coating
09 91	Painting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0142 SF Paint Exterior Rough Wood Ceiling, 1 Coat Primer, Brush/Roller Work.....	1.46	
For Oil Based Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.17	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.29	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.46	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.64	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.92	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.22	
For >20,000, Deduct	-0.29	
09 91 13 00-0143 SF Paint Exterior Rough Wood Ceiling, 1 Coat Paint, Brush/Roller Work	1.57	
For Oil Based Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.19	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.32	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.51	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.70	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.00	
For >100 To 250, Add	0.47	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.24	
For >20,000, Deduct	-0.31	
09 91 13 00-0144 SF Paint Exterior Rough Wood Ceiling, 2 Coats Paint, Brush/Roller Work	2.78	
For Oil Based Paint, Add	0.17	
For Work >15' To 20' Above Floor, Add	0.33	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.55	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.87	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.20	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.73	
For >100 To 250, Add	0.82	
For >250 To 500, Add	0.36	
For >2,500 To 5,000, Deduct	-0.14	
For >5,000 To 10,000, Deduct	-0.28	
For >10,000 To 20,000, Deduct	-0.42	
For >20,000, Deduct	-0.56	
09 91 13 00-0145 SF Paint Exterior Rough Wood Ceiling, 1 Coat Primer, Sprayed	1.01	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.30	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.42	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.61	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 13 00-0146 SF Paint Exterior Rough Wood Ceiling, 1 Coat Paint, Sprayed.....	1.13	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.13	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.22	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.35	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.48	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.70	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	



Finishes	09	2
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0147 SF Paint Exterior Rough Wood Ceiling, 2 Coats Paint, Sprayed.....	2.04	
For Oil Based Paint, Add	0.13	
For Work >15' To 20' Above Floor, Add	0.23	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.38	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.61	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.84	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.22	
For >100 To 250, Add	0.59	
For >250 To 500, Add	0.26	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.20	
For >10,000 To 20,000, Deduct	-0.31	
For >20,000, Deduct	-0.41	
09 91 13 00-0148 Paint Exterior Metal Ceilings (09 91 13 00-0116)		
09 91 13 00-0149 Paint Exterior Galvanized Ceilings (09 91 13 00-0148)		
Note: Linseed oil or acrylic latex paint.		
09 91 13 00-0150 SF Paint Exterior Galvanized Ceiling, 1 Coat Primer, Brush Work.....	1.12	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.37	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.51	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.72	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.22	
09 91 13 00-0151 SF Paint Exterior Galvanized Ceiling, 1 Coat Paint, Brush Work.....	1.23	
For Work >15' To 20' Above Floor, Add	0.15	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.26	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.41	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.57	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.80	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.25	
09 91 13 00-0152 SF Paint Exterior Galvanized Ceiling, 2 Coats Paint, Brush Work.....	2.24	
For Work >15' To 20' Above Floor, Add	0.28	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.46	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.74	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.02	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.45	
For >100 To 250, Add	0.69	
For >250 To 500, Add	0.30	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 20,000, Deduct	-0.34	
For >20,000, Deduct	-0.45	
09 91 13 00-0153 SF Paint Exterior Galvanized Ceiling, 1 Coat Primer, Brush/Roller Work.....	0.85	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.28	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.38	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.54	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	

09	Finishes
09 90	Painting and Coating
09 91	Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0154	SF		Paint Exterior Galvanized Ceiling, 1 Coat Paint, Brush/Roller Work	0.97	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.20	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.32	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.45	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.63	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.19	
09 91 13 00-0155	SF		Paint Exterior Galvanized Ceiling, 2 Coats Paint, Brush/Roller Work	1.71	
			For Work >15' To 20' Above Floor, Add	0.21	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.35	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.56	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.76	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.09	
			For >100 To 250, Add	0.52	
			For >250 To 500, Add	0.22	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.17	
			For >10,000 To 20,000, Deduct	-0.26	
			For >20,000, Deduct	-0.34	
09 91 13 00-0156	SF		Paint Exterior Galvanized Ceiling, 1 Coat Primer, Sprayed	0.74	
			For Work >15' To 20' Above Floor, Add	0.08	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.13	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.20	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.28	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.42	
			For >100 To 250, Add	0.20	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.15	
09 91 13 00-0157	SF		Paint Exterior Galvanized Ceiling, 1 Coat Paint, Sprayed.....	0.85	
			For Work >15' To 20' Above Floor, Add	0.09	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.16	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.25	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.34	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.50	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.17	
09 91 13 00-0158	SF		Paint Exterior Galvanized Ceiling, 2 Coats Paint, Sprayed	1.33	
			For Work >15' To 20' Above Floor, Add	0.13	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.22	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.35	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.48	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.73	
			For >100 To 250, Add	0.35	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.20	
			For >20,000, Deduct	-0.27	
09 91 13 00-0159			Paint Exterior Aluminum And Aluminum Alloy Ceilings (09 91 13 00-0148)		
			Note: Alkyd enamel paint.		



Finishes	09	9
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0160 SF Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Primer, Brush Work	1.12	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.37	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.51	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.72	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.22	
09 91 13 00-0161 SF Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Paint, Brush Work	1.23	
For Work >15' To 20' Above Floor, Add	0.15	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.26	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.41	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.57	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.80	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.25	
09 91 13 00-0162 SF Paint Exterior Aluminum And Aluminum Alloy Ceiling, 2 Coats Paint, Brush Work	2.24	
For Work >15' To 20' Above Floor, Add	0.28	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.46	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.74	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.02	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.45	
For >100 To 250, Add	0.69	
For >250 To 500, Add	0.30	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 20,000, Deduct	-0.34	
For >20,000, Deduct	-0.45	
09 91 13 00-0163 SF Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Primer, Brush/Roller Work	0.92	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.28	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.38	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.55	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	
09 91 13 00-0164 SF Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Paint, Brush/Roller Work	1.04	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.32	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.45	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.64	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	

09 Finishes
09 90 Painting and Coating
09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0165	SF		Paint Exterior Aluminum And Aluminum Alloy Ceiling, 2 Coats Paint, Brush/Roller Work	1.84	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.35	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.56	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.76	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.11	
			<i>For >100 To 250, Add</i>	0.53	
			<i>For >250 To 500, Add</i>	0.23	
			<i>For >2,500 To 5,000, Deduct</i>	-0.09	
			<i>For >5,000 To 10,000, Deduct</i>	-0.18	
			<i>For >10,000 To 20,000, Deduct</i>	-0.28	
			<i>For >20,000, Deduct</i>	-0.37	
09 91 13 00-0166	SF		Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Primer, Sprayed	0.74	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.20	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.28	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.42	
			<i>For >100 To 250, Add</i>	0.20	
			<i>For >250 To 500, Add</i>	0.09	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.07	
			<i>For >10,000 To 20,000, Deduct</i>	-0.11	
			<i>For >20,000, Deduct</i>	-0.15	
09 91 13 00-0167	SF		Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Paint, Sprayed	0.74	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.20	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.28	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.42	
			<i>For >100 To 250, Add</i>	0.20	
			<i>For >250 To 500, Add</i>	0.09	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.07	
			<i>For >10,000 To 20,000, Deduct</i>	-0.11	
			<i>For >20,000, Deduct</i>	-0.15	
09 91 13 00-0168	SF		Paint Exterior Aluminum And Aluminum Alloy Ceiling, 2 Coats Paint, Sprayed	1.33	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.35	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.48	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.73	
			<i>For >100 To 250, Add</i>	0.35	
			<i>For >250 To 500, Add</i>	0.15	
			<i>For >2,500 To 5,000, Deduct</i>	-0.07	
			<i>For >5,000 To 10,000, Deduct</i>	-0.13	
			<i>For >10,000 To 20,000, Deduct</i>	-0.20	
			<i>For >20,000, Deduct</i>	-0.27	
09 91 13 00-0169			Paint Exterior Corrugated Metal Ceilings (09 91 13 00-0148)		
09 91 13 00-0170	SF		Paint Exterior Corrugated Metal Ceiling, 1 Coat Primer, Sprayed	0.80	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.30	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.44	
			<i>For >100 To 250, Add</i>	0.22	
			<i>For >250 To 500, Add</i>	0.09	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.08	
			<i>For >10,000 To 20,000, Deduct</i>	-0.12	
			<i>For >20,000, Deduct</i>	-0.16	



Finishes	09	9
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0171 SF Paint Exterior Corrugated Metal Ceiling, 1 Coat Paint, Sprayed.....	0.94	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.27	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.37	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.55	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	
09 91 13 00-0172 SF Paint Exterior Corrugated Metal Ceiling, 2 Coats Paint, Sprayed.....	1.69	
For Work >15' To 20' Above Floor, Add	0.18	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.29	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.47	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.64	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.96	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.34	
09 91 13 00-0173 Paint Exterior Floors (09 91 13)		
09 91 13 00-0174 Paint Exterior Concrete Floors (09 91 13 00-0173)		
09 91 13 00-0175 SF 1 Coat Primer, Brush Work, Paint Exterior Concrete Floors And Decks.....	0.70	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.07	
For Up To 100, Add	0.45	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	
09 91 13 00-0176 SF 1 Coat Paint, Brush Work, Paint Exterior Concrete Floors And Decks.....	0.78	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.07	
For Up To 100, Add	0.53	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0177 SF 2 Coats Paint, Brush Work, Paint Exterior Concrete Floors And Decks.....	1.45	
For Oil Based Paint, Add	0.08	
For Epoxy Paint, Add	0.13	
For Up To 100, Add	0.98	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.22	
For >20,000, Deduct	-0.29	
09 91 13 00-0178 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Concrete Floors And Decks.....	0.58	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.07	
For Up To 100, Add	0.36	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	
09 91 13 00-0179 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Concrete Floors And Decks.....	0.67	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.06	
For Up To 100, Add	0.45	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.13	

09	Finishes
09 90	Painting and Coating
09 91	Painting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0180 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Concrete Floors And Decks	1.08	
For Oil Based Paint, Add	0.06	
For Epoxy Paint, Add	0.11	
For Up To 100, Add	0.70	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.22	
09 91 13 00-0181 SF 1 Coat Primer, Sprayed, Paint Exterior Concrete Floors And Decks.....	0.39	
For Oil Based Paint, Add	0.03	
For Epoxy Paint, Add	0.06	
For Up To 100, Add	0.21	
For >100 To 250, Add	0.10	
For >250 To 500, Add	0.04	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 20,000, Deduct	-0.06	
For >20,000, Deduct	-0.08	
09 91 13 00-0182 SF 1 Coat Paint, Sprayed, Paint Exterior Concrete Floors And Decks.....	0.50	
For Oil Based Paint, Add	0.03	
For Epoxy Paint, Add	0.06	
For Up To 100, Add	0.30	
For >100 To 250, Add	0.15	
For >250 To 500, Add	0.06	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.10	
09 91 13 00-0183 SF 2 Coats Paint, Sprayed, Paint Exterior Concrete Floors And Decks	0.86	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.11	
For Up To 100, Add	0.51	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 13 00-0184 SF 1 Coat Non Slip Paint, Brush/Roller Work, Paint Exterior Concrete Floors And Decks.....	1.68	
For Up To 100, Add	0.60	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.34	
09 91 13 00-0185 SF 1 Coat Anti-Slip, Single Component Epoxy Coating, Brush/Roller Work, Paint Exterior Concrete Floors And Decks.....	3.80	
For Up To 100, Add	0.92	
For >100 To 250, Add	0.53	
For >250 To 500, Add	0.25	
For >2,500 To 5,000, Deduct	-0.19	
For >5,000 To 10,000, Deduct	-0.38	
For >10,000 To 20,000, Deduct	-0.57	
For >20,000, Deduct	-0.76	
09 91 13 00-0186 SF 1 Coat Anti-Slip High Performance Epoxy Coating, Brush/Roller Work, Paint Exterior Concrete Floors And Decks.....	4.69	
For Up To 100, Add	1.05	
For >100 To 250, Add	0.61	
For >250 To 500, Add	0.29	
For >2,500 To 5,000, Deduct	-0.23	
For >5,000 To 10,000, Deduct	-0.47	
For >10,000 To 20,000, Deduct	-0.70	
For >20,000, Deduct	-0.94	
09 91 13 00-0187 Paint Exterior Wood Floors (09 91 13 00-0173)		
09 91 13 00-0188 SF Paint Exterior Wood Floors And Decks, 1 Coat Primer, Brush Work	0.86	
For Oil Based Paint, Add	0.05	
For Up To 100, Add	0.55	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 13 00-0189 SF Paint Exterior Wood Floors And Decks, 1 Coat Paint, Brush Work.....	0.95	
For Oil Based Paint, Add	0.05	
For Up To 100, Add	0.63	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	



Finishes	09	2
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0190 SF Paint Exterior Wood Floors And Decks, 2 Coats Paint, Brush Work.....	1.78	
For Oil Based Paint, Add	0.10	
For Up To 100, Add	1.17	
For >100 To 250, Add	0.55	
For >250 To 500, Add	0.24	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 20,000, Deduct	-0.27	
For >20,000, Deduct	-0.36	
09 91 13 00-0191 SF Paint Exterior Wood Floors And Decks, 1 Coat Primer, Brush/Roller Work.....	0.76	
For Oil Based Paint, Add	0.05	
For Up To 100, Add	0.46	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0192 SF Paint Exterior Wood Floors And Decks, 1 Coat Paint, Brush/Roller Work.....	0.85	
For Oil Based Paint, Add	0.05	
For Up To 100, Add	0.54	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 13 00-0193 SF Paint Exterior Wood Floors And Decks, 2 Coats Paint, Brush/Roller Work.....	1.36	
For Oil Based Paint, Add	0.08	
For Up To 100, Add	0.83	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.27	
09 91 13 00-0194 SF Paint Exterior Wood Floors And Decks, 1 Coat Primer, Sprayed.....	0.52	
For Oil Based Paint, Add	0.03	
For Up To 100, Add	0.31	
For >100 To 250, Add	0.15	
For >250 To 500, Add	0.06	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.10	
09 91 13 00-0195 SF Paint Exterior Wood Floors And Decks, 1 Coat Paint, Sprayed.....	0.65	
For Oil Based Paint, Add	0.04	
For Up To 100, Add	0.40	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.13	
09 91 13 00-0196 SF Paint Exterior Wood Floors And Decks, 2 Coats Paint, Sprayed.....	1.04	
For Oil Based Paint, Add	0.07	
For Up To 100, Add	0.61	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	
09 91 13 00-0197 SF Paint Exterior Wood Floors And Decks, 1 Coat Non Slip Paint, Brush Work.....	1.79	
For Up To 100, Add	0.68	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 20,000, Deduct	-0.27	
For >20,000, Deduct	-0.36	
09 91 13 00-0198 SF Paint Exterior Wood Floors And Decks, 1 Coat Non Slip Epoxy Coating, Brush Work.....	4.80	
For Up To 100, Add	1.13	
For >100 To 250, Add	0.65	
For >250 To 500, Add	0.31	
For >2,500 To 5,000, Deduct	-0.24	
For >5,000 To 10,000, Deduct	-0.48	
For >10,000 To 20,000, Deduct	-0.72	
For >20,000, Deduct	-0.96	
09 91 13 00-0199 Paint Site Work <small>(09 91 13)</small>		
Note: Tasks can be used for exterior or interior applications.		
09 91 13 00-0200 Paint Structural Steel <small>(09 91 13 00-0199)</small>		
09 91 13 00-0201 Paint Structural Steel, Brush Work <small>(09 91 13 00-0200)</small>		

09	Finishes
09 90	Painting and Coating
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0202 SF 1 Field Coat Primer, Brush/Roller Work, Paint Structural Steel.....	0.98	
For Up To 100, Add	0.66	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
For Epoxy Paint, Add	0.09	
09 91 13 00-0203 SF 1 Field Coat Paint, Brush/Roller Work, Paint Structural Steel.....	0.85	
For Up To 100, Add	0.56	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.11	
For Epoxy Paint, Add	0.08	
09 91 13 00-0204 Paint Structural Steel, Spray Work (09 91 13 00-0200)		
09 91 13 00-0205 SF Paint Structural Steel, 1 Field Coat Primer, Spray Work.....	0.65	
For Electrostatic Painting, Add	0.08	
For Up To 100, Add	0.41	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.08	
For Epoxy Paint, Add	0.07	
09 91 13 00-0206 SF Paint Structural Steel, 1 Field Coat Paint, Spray Work.....	0.52	
For Electrostatic Painting, Add	0.07	
For Up To 100, Add	0.31	
For >100 To 250, Add	0.15	
For >250 To 500, Add	0.07	
For Epoxy Paint, Add	0.07	
09 91 13 00-0207 Paint Metal Decking, Beams And Bar Joist (09 91 13 00-0200)		
09 91 13 00-0208 SF 1 Coat Primer, Sprayed, Paint Exposed Metal Decking.....	0.74	
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For Epoxy Paint, Add	0.08	
09 91 13 00-0209 SF 1 Coat Paint, Sprayed, Paint Exposed Metal Decking.....	0.74	
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For Epoxy Paint, Add	0.08	
09 91 13 00-0210 SF 2 Coats Paint, Sprayed, Paint Exposed Metal Decking.....	1.22	
For Up To 100, Add	0.76	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
For Epoxy Paint, Add	0.14	
09 91 13 00-0211 SF 1 Coat Primer, Brush/Roller Work, Paint Metal Beams And Bar Joists.....	1.13	
For Up To 100, Add	0.70	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
For Epoxy Paint, Add	0.13	
09 91 13 00-0212 SF 1 Coat Paint, Brush/Roller Work, Paint Metal Beams And Bar Joists.....	1.12	
For Up To 100, Add	0.71	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For Epoxy Paint, Add	0.12	
09 91 13 00-0213 SF 2 Coats Paint, Brush/Roller Work, Paint Metal Beams And Bar Joists.....	2.09	
For Up To 100, Add	1.30	
For >100 To 250, Add	0.62	
For >250 To 500, Add	0.27	
For Epoxy Paint, Add	0.24	
09 91 13 00-0214 SF 1 Coat Primer, Sprayed, Paint Metal Beams And Bar Joists.....	0.89	
For Up To 100, Add	0.55	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For Epoxy Paint, Add	0.10	
09 91 13 00-0215 SF 1 Coat Paint, Sprayed, Paint Metal Beams And Bar Joists.....	0.89	
For Up To 100, Add	0.55	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For Epoxy Paint, Add	0.10	
09 91 13 00-0216 SF 2 Coats Paint, Sprayed, Paint Metal Beams And Bar Joists.....	1.49	
For Up To 100, Add	0.89	
For >100 To 250, Add	0.43	
For >250 To 500, Add	0.19	
For Epoxy Paint, Add	0.19	
09 91 13 00-0217 Paint Steel Pipes (09 91 13 00-0199)		
Note: Includes pipe, tubes, rails, conduit, etc.		
09 91 13 00-0218 LF Paint Conduit, Steel Pipe 1/2" To 1-1/2" Diameter, 1 Coat Primer.....	1.64	
For Electrostatic Painting, Add	0.19	
For Epoxy Paint, Add	0.14	
09 91 13 00-0219 LF Paint Conduit, Steel Pipe 2" To 3-1/2" Diameter, 1 Coat Primer.....	1.83	
For Electrostatic Painting, Add	0.22	
For Epoxy Paint, Add	0.16	



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Painting and Coating	09 90	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0220 LF Paint Steel Pipes 4" Diameter, 1 Coat Primer.....	2.06	
<i>For Electrostatic Painting, Add</i>	0.25	
<i>For Epoxy Paint, Add</i>	0.18	
09 91 13 00-0221 LF Paint Steel Pipes 6" To 8" Diameter, 1 Coat Primer.....	2.58	
<i>For Electrostatic Painting, Add</i>	0.30	
<i>For Epoxy Paint, Add</i>	0.22	
09 91 13 00-0222 LF Paint Steel Pipes 10" To 12" Diameter 1 Coat Primer.....	3.28	
<i>For Electrostatic Painting, Add</i>	0.39	
<i>For Epoxy Paint, Add</i>	0.28	
09 91 13 00-0223 LF Paint Conduit, Steel Pipe 1/2" To 1-1/2" Diameter, 1 Coat Paint	1.64	
<i>For Electrostatic Painting, Add</i>	0.19	
<i>For Epoxy Paint, Add</i>	0.14	
09 91 13 00-0224 LF Paint Conduit, Steel Pipe 2" To 3-1/2" Diameter, 1 Coat Paint	1.83	
<i>For Electrostatic Painting, Add</i>	0.22	
<i>For Epoxy Paint, Add</i>	0.16	
09 91 13 00-0225 LF Paint Steel Pipes 4" Diameter, 1 Coat Paint	2.06	
<i>For Electrostatic Painting, Add</i>	0.25	
<i>For Epoxy Paint, Add</i>	0.18	
09 91 13 00-0226 LF Paint Steel Pipes 6" To 8" Diameter, 1 Coat Paint.....	2.58	
<i>For Electrostatic Painting, Add</i>	0.30	
<i>For Epoxy Paint, Add</i>	0.22	
09 91 13 00-0227 LF Paint Steel Pipes 10" To 12" Diameter 1 Coat Paint.....	3.28	
<i>For Electrostatic Painting, Add</i>	0.39	
<i>For Epoxy Paint, Add</i>	0.28	
09 91 13 00-0228 LF Paint Conduit, Steel Pipe 1/2" To 1-1/2" Diameter, 2 Coats.....	3.26	
<i>For Electrostatic Painting, Add</i>	0.40	
<i>For Epoxy Paint, Add</i>	0.32	
09 91 13 00-0229 LF Paint Conduit, Steel Pipe 2" To 3-1/2" Diameter, 2 Coats.....	3.65	
<i>For Electrostatic Painting, Add</i>	0.43	
<i>For Epoxy Paint, Add</i>	0.32	
09 91 13 00-0230 LF Paint Steel Pipes 4" Diameter, 2 Coats.....	3.95	
<i>For Electrostatic Painting, Add</i>	0.47	
<i>For Epoxy Paint, Add</i>	0.35	
09 91 13 00-0231 LF Paint Steel Pipes 6" To 8" Diameter, 2 Coats	5.00	
<i>For Electrostatic Painting, Add</i>	0.59	
<i>For Epoxy Paint, Add</i>	0.44	
09 91 13 00-0232 LF Paint Steel Pipes 10" To 12" Diameter, 2 Coats	6.14	
<i>For Electrostatic Painting, Add</i>	0.73	
<i>For Epoxy Paint, Add</i>	0.55	
09 91 13 00-0233 EA Paint Exposed Single Or Double Gang, Outlet Box, 1 Coat Paint.....	8.51	
<i>For Electrostatic Painting, Add</i>	0.88	
<i>For Epoxy Paint, Add</i>	0.49	
09 91 13 00-0234 Paint Fencing <small>(09 91 13 00-0199)</small>		
Note: Per side of fence. Based on gross fence area (length of fence x height of fence).		
09 91 13 00-0235 SF 1 Coat Paint, Brush/Roller, Paint Existing Chain Link Fence	0.81	
<i>For Epoxy Paint, Add</i>	0.07	
<i>For Up To 100, Add</i>	0.54	
<i>For >100 To 250, Add</i>	0.26	
<i>For >250 To 500, Add</i>	0.11	
09 91 13 00-0236 SF 2 Coats Paint, Brush/Roller, Paint Existing Chain Link Fence	1.52	
<i>For Epoxy Paint, Add</i>	0.15	
<i>For Up To 100, Add</i>	1.00	
<i>For >100 To 250, Add</i>	0.47	
<i>For >250 To 500, Add</i>	0.21	
09 91 13 00-0237 SF 1 Coat Paint, Sprayed, Paint Existing Chain Link Fence	0.65	
<i>For Epoxy Paint, Add</i>	0.07	
<i>For Electrostatic Painting, Add</i>	0.09	
<i>For Up To 100, Add</i>	0.40	
<i>For >100 To 250, Add</i>	0.19	
<i>For >250 To 500, Add</i>	0.08	
09 91 13 00-0238 SF 2 Coats Paint, Sprayed, Paint Existing Chain Link Fence.....	1.20	
<i>For Epoxy Paint, Add</i>	0.14	
<i>For Electrostatic Painting, Add</i>	0.16	
<i>For Up To 100, Add</i>	0.73	
<i>For >100 To 250, Add</i>	0.35	
<i>For >250 To 500, Add</i>	0.15	
09 91 13 00-0239 SF 1 Coat Primer, Brush/Roller, Paint Wrought Iron Fence.....	0.72	
<i>For Epoxy Paint, Add</i>	0.08	
<i>For Up To 100, Add</i>	0.46	
<i>For >100 To 250, Add</i>	0.22	
<i>For >250 To 500, Add</i>	0.09	
09 91 13 00-0240 SF 1 Coat, Brush/Roller, Paint Wrought Iron Fence.....	0.69	
<i>For Epoxy Paint, Add</i>	0.07	
<i>For Up To 100, Add</i>	0.45	
<i>For >100 To 250, Add</i>	0.21	
<i>For >250 To 500, Add</i>	0.09	
09 91 13 00-0241 SF Each Additional Coat, Brush/Roller, Paint Wrought Iron Fence	0.47	
<i>For Epoxy Paint, Add</i>	0.06	
<i>For Up To 100, Add</i>	0.29	
<i>For >100 To 250, Add</i>	0.14	
<i>For >250 To 500, Add</i>	0.06	

09	Finishes
09 90	Painting and Coating
09 91	Painting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0242 SF 1 Coat Primer, Brush/Roller, Paint Picket Fence.....	0.99	
For Epoxy Paint, Add	0.07	
For Up To 100, Add	0.70	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
09 91 13 00-0243 SF 1 Coat, Brush/Roller, Paint Picket Fence.....	0.99	
For Epoxy Paint, Add	0.07	
For Up To 100, Add	0.70	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
09 91 13 00-0244 SF Each Additional Coat, Brush/Roller, Paint Picket Fence.....	0.70	
For Epoxy Paint, Add	0.06	
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
09 91 13 00-0245 SF 1 Coat, Brush/Roller, Paint Wood Fences.....	0.70	
For Up To 100, Add	0.45	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.09	
09 91 13 00-0246 SF 2 Coats, Brush/Roller, Paint Wood Fences.....	1.23	
For Up To 100, Add	0.78	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
09 91 13 00-0247 SF 1 Coat, Sprayed, Paint Wood Fences.....	0.50	
For Up To 100, Add	0.30	
For >100 To 250, Add	0.15	
For >250 To 500, Add	0.06	
09 91 13 00-0248 SF 2 Coats, Sprayed, Paint Wood Fences.....	0.92	
For Up To 100, Add	0.55	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.12	
09 91 13 00-0249 Paint Metal Louvers (09 91 13 00-0199)		
09 91 13 00-0250 SF Paint Ventilation Louver, SF Of Opening Area, 1 Coat Primer, Brush/Roller Work.....	1.39	
For Electrostatic Painting, Add	0.16	
09 91 13 00-0251 SF Paint Ventilation Louver, SF Of Opening Area, 1 Coat Alkyd, Brush/Roller Work.....	1.40	
For Electrostatic Painting, Add	0.16	
09 91 13 00-0252 SF Paint Ventilation Louver, SF Of Opening Area, 2 Coats Alkyd, Brush/Roller Work.....	2.85	
For Electrostatic Painting, Add	0.33	
09 91 13 00-0253 Paint Ladders (09 91 13 00-0199)		
09 91 13 00-0254 LF Paint Ladders, 1 Coat Alkyd Primer, Brush/Roller Work.....	3.91	
For Epoxy Paint, Add	0.23	
09 91 13 00-0255 LF Paint Ladders, 1 Coat Alkyd Enamel, Brush/Roller Work.....	4.38	
For Epoxy Paint, Add	0.25	
09 91 13 00-0256 LF Paint Ladders, 2 Coats Alkyd Enamel, Brush/Roller Work.....	8.65	
For Epoxy Paint, Add	0.47	
09 91 13 00-0257 Paint Handrails (09 91 13 00-0199)		
09 91 13 00-0258 LF Paint Hand Rail And Bracket, 1 Rail, 1 Coat Alkyd Primer, Brush/Roller Work.....	1.53	
For Epoxy Paint, Add	0.11	
09 91 13 00-0259 LF Paint Hand Rail And Bracket, 1 Rail, 1 Coat Alkyd Enamel, Brush/Roller Work.....	1.70	
For Epoxy Paint, Add	0.12	
09 91 13 00-0260 LF Paint Hand Rail And Bracket, 1 Rail, 2 Coats Alkyd Enamel, Brush/Roller Work.....	2.83	
For Epoxy Paint, Add	0.17	
09 91 13 00-0261 LF Paint Pipe Rail And Pickets, 1 Rail, 1 Coat Alkyd Primer, Brush/Roller Work.....	2.63	
For Epoxy Paint, Add	0.27	
09 91 13 00-0262 LF Paint Pipe Rail And Pickets, 1 Rail, 1 Coat Alkyd Enamel, Brush/Roller Work.....	2.90	
For Epoxy Paint, Add	0.28	
09 91 13 00-0263 LF Paint Pipe Rail And Pickets, 1 Rail, 2 Coats Alkyd Enamel, Brush/Roller Work.....	5.03	
For Epoxy Paint, Add	0.46	
09 91 13 00-0264 LF Paint Pipe Rail And Pickets, 2 Rails, 1 Coat Alkyd Primer, Brush/Roller Work.....	2.85	
For Epoxy Paint, Add	0.28	
09 91 13 00-0265 LF Paint Pipe Rail And Pickets, 2 Rails, 1 Coat Alkyd Enamel, Brush/Roller Work.....	3.15	
For Epoxy Paint, Add	0.30	
09 91 13 00-0266 LF Paint Pipe Rail And Pickets, 2 Rails, 2 Coats Alkyd Enamel, Brush/Roller Work.....	5.36	
For Epoxy Paint, Add	0.48	
09 91 13 00-0267 LF Paint Balustrades, 1 Coat Alkyd Primer, Brush/Roller Work.....	1.61	
For Epoxy Paint, Add	0.15	
09 91 13 00-0268 LF Paint Balustrades, 1 Coat Alkyd Enamel, Brush/Roller Work.....	1.78	
For Epoxy Paint, Add	0.16	
09 91 13 00-0269 LF Paint Balustrades, 2 Coats Alkyd Enamel, Brush/Roller Work.....	3.22	
For Epoxy Paint, Add	0.30	
09 91 13 00-0270 Paint Grating (09 91 13 00-0199)		
09 91 13 00-0271 SF Paint Gratings And Frames, 1 Coat Primer, Brush/Roller Work.....	2.83	
For Epoxy Paint, Add	0.17	
09 91 13 00-0272 SF Paint Gratings And Frames, 1 Coat Paint, Brush/Roller Work.....	2.86	
For Epoxy Paint, Add	0.18	



		Finishes	09
		Painting and Coating	09 90
		Painting	09 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0273 SF Paint Gratings And Frames, 2 Coats Paint, Brush/Roller Work <i>For Epoxy Paint, Add</i>	4.26	0.29
09 91 13 00-0274 Other Site Work Painting (09 91 13 00-0199)		
09 91 13 00-0275 Paint Flagpoles (09 91 13 00-0274)		
09 91 13 00-0276 EA Paint Steel Flagpole, 20' High, 1 Coat Paint	186.53	
09 91 13 00-0277 EA Paint Steel Flagpole, 30' High, 1 Coat Paint	250.66	
09 91 13 00-0278 EA Paint Steel Flagpole, 40' High, 1 Coat Paint	314.83	
09 91 13 00-0279 EA Paint Steel Flagpole, 50' High, 1 Coat Paint	379.01	
09 91 13 00-0280 EA Paint Steel Flagpole, 70' High, 1 Coat Paint	503.75	
09 91 13 00-0281 EA Paint Steel Flagpole, 80' High, 1 Coat Paint	567.47	
09 91 13 00-0282 EA Paint Steel Flagpole, 90' High, 1 Coat Paint	631.20	
09 91 13 00-0283 Paint Lattice Or Trellis (09 91 13 00-0274)		
09 91 13 00-0284 SF Paint Wood Lattice Or Trellis 1 Coat, Spray Per Side <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >250 To 500, Add</i>	1.34	0.93 0.44 0.19
09 91 13 00-0285 SF Paint Wood Lattice Or Trellis 2 Coats, Spray Per Side <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >250 To 500, Add</i>	2.46	1.71 0.80 0.35
09 91 13 00-0286 Equipment And Tanks (09 91 13 00-0199)		
09 91 13 00-0287 Valves, Primer And Finish Coats (09 91 13 00-0286)		
09 91 13 00-0288 EA Prime And Paint 4" And Smaller Valve	27.82	
09 91 13 00-0289 EA Prime And Paint 6" To 10" Valve	33.88	
09 91 13 00-0290 EA Prime And Paint 12" To 18" Valve	44.75	
09 91 13 00-0291 EA Prime And Paint 20" To 24" Valve	60.43	
09 91 13 00-0292 EA Prime And Paint >24" To 36" Valve	82.18	
09 91 13 00-0293 EA Prime And Paint >36" To 48" Valve	111.25	
09 91 13 00-0294 Pumps And Motors. Primer And Finish Coats (09 91 13 00-0286)		
09 91 13 00-0295 EA Prime And Paint Pump Under 1 HP	84.71	
09 91 13 00-0296 EA Prime And Paint Pump, 1 HP To 5 HP	110.23	
09 91 13 00-0297 EA Prime And Paint Pump, >5 HP To 10 HP	130.96	
09 91 13 00-0298 EA Prime And Paint Pump, >10 HP To 20 HP	145.63	
09 91 13 00-0299 EA Prime And Paint Pump, >20 HP To 30 HP	169.90	
09 91 13 00-0300 EA Prime And Paint Pump, >30 HP To 50 HP	194.16	
09 91 13 00-0301 EA Prime And Paint Pump, >50 HP To 75 HP	213.63	
09 91 13 00-0302 EA Prime And Paint Pump, >75 HP	242.71	
09 91 13 00-0303 Storage Tanks (09 91 13 00-0286)		
09 91 13 00-0304 SF Paint Storage Tank, Exterior Surface, 1 Coat Primer, Roller	1.03	
09 91 13 00-0305 SF Paint Storage Tank, Exterior Surface, 1 Coat Paint, Roller	1.32	
09 91 13 00-0306 SF Paint Storage Tank, Exterior Surface, 2 Coats Paint, Roller	2.49	
09 91 13 00-0307 SF Paint Storage Tank, Interior Surface, 1 Coat Primer, Roller	1.43	
09 91 13 00-0308 SF Paint Storage Tank, Interior Surface, 1 Coat Paint, Roller	1.76	
09 91 13 00-0309 SF Paint Storage Tank, Interior Surface, 2 Coats Paint, Roller	3.38	
09 91 13 00-0310 SF Paint Storage Tank, Exterior Surface, 1 Coat Primer, Spray	0.98	
09 91 13 00-0311 SF Paint Storage Tank, Exterior Surface, 1 Coat Paint, Spray	1.15	
09 91 13 00-0312 SF Paint Storage Tank, Exterior Surface, 2 Coats Paint, Spray	2.20	
09 91 13 00-0313 SF Paint Storage Tank, Interior Surface, 1 Coat Primer, Spray	1.15	
09 91 13 00-0314 SF Paint Storage Tank, Interior Surface, 1 Coat Paint, Spray	1.47	
09 91 13 00-0315 SF Paint Storage Tank, Interior Surface, 2 Coats Paint, Spray	2.81	
09 91 13 00-0316 Paint Exterior Stairs (09 91 13)		
09 91 13 00-0317 Paint Exterior Concrete Stairs (09 91 13 00-0316)		
09 91 13 00-0318 RSR Paint Exterior Concrete Stair (To 4' Wide), 1 Coat Primer, Brush/Roller Work	16.97	
09 91 13 00-0319 RSR Paint Exterior Concrete Stair (To 4' Wide), 1 Coat Alkyd Enamel, Brush/Roller Work	16.97	
09 91 13 00-0320 RSR Paint Exterior Concrete Stair (To 4' Wide), 1 Coat Non Slip Paint, Brush/Roller Work	21.18	
09 91 13 00-0321 RSR Paint Exterior Concrete Stair (To 4' Wide), 1 Coat Non Slip Epoxy Coating, Brush/Roller Work	33.20	
09 91 13 00-0322 RSR Paint Exterior Concrete Stair (To 4' Wide), 2 Coats Alkyd Enamel, Brush/Roller Work	33.96	
09 91 13 00-0323 Paint Exterior Metal Stairs (09 91 13 00-0316)		
09 91 13 00-0324 RSR Paint Exterior Metal Stair (To 4' Wide), 1 Coat Primer, Brush/Roller Work <i>For Oil Based Paint, Add</i>	8.78	0.46
09 91 13 00-0325 RSR Paint Exterior Metal Stair (To 4' Wide), 1 Coat Alkyd Enamel, Brush/Roller Work <i>For Oil Based Paint, Add</i>	8.78	0.46
09 91 13 00-0326 RSR Paint Exterior Metal Stair (To 4' Wide), 2 Coats Alkyd Enamel, Brush/Roller Work <i>For Oil Based Paint, Add</i>	17.55	0.93



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

09 91 13 00-0327	Paint Exterior Wood Stairs <small>(09 91 13 00-0316)</small>	
09 91 13 00-0328	RSR Paint Exterior Wood Stair (To 4' Wide), 1 Coat Primer, Brush/Roller Work.....	8.68
09 91 13 00-0329	RSR Paint Exterior Wood Stair (To 4' Wide), 1 Coat Alkyd Enamel, Brush/Roller Work	8.68
09 91 13 00-0330	RSR Paint Exterior Wood Stair (To 4' Wide), 1 Coat Non Slip Paint, Brush/Roller Work	12.89
09 91 13 00-0331	RSR Paint Exterior Wood Stair (To 4' Wide), 1 Coat Non Slip Epoxy Coating, Brush/Roller Work	24.91
09 91 13 00-0332	RSR Paint Exterior Wood Stair (To 4' Wide), 2 Coats Alkyd Enamel, Brush/Roller Work	17.37
09 91 13 00-0333	Paint Exterior Stair Nosing <small>(09 91 13 00-0316)</small>	
09 91 13 00-0334	LF Paint Exterior Yellow Stair Safety Strip, Up To 2", Non Slip, Brush Work	1.64
09 91 13 00-0335	Paint Exterior Trim <small>(09 91 13)</small>	
09 91 13 00-0336	Paint Exterior Metal Trim And Gutters <small>(09 91 13 00-0335)</small>	
09 91 13 00-0337	SF 1 Coat Primer, Brush Work, Paint Exterior Exposed Metal Trim	1.21
09 91 13 00-0338	SF 1 Coat Paint, Brush Work, Paint Exterior Exposed Metal Trim	1.21
09 91 13 00-0339	SF 2 Coats Paint, Brush Work, Paint Exterior Exposed Metal Trim.....	2.17
09 91 13 00-0340	SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Metal Trim.....	0.97
09 91 13 00-0341	SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Metal Trim	1.09
09 91 13 00-0342	SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Metal Trim	1.94
09 91 13 00-0343	LF 1 Coat Paint, Brush Work, Paint Exterior Gutter And Downspout	1.75
09 91 13 00-0344	LF 2 Coats Paint, Brush Work, Paint Exterior Gutter And Downspout	2.34
09 91 13 00-0345	Paint Exterior Wood Trim <small>(09 91 13 00-0335)</small>	
09 91 13 00-0346	SF Paint Exterior Wood Trim, 1 Coat Primer, Brush Work	1.58
	<i>For Oil Based Paint, Add</i>	0.09
09 91 13 00-0347	SF Paint Exterior Wood Trim, 1 Coat Paint, Brush Work.....	1.71
	<i>For Oil Based Paint, Add</i>	0.10
09 91 13 00-0348	SF Paint Exterior Wood Trim, 2 Coats Paint, Brush Work	3.09
	<i>For Oil Based Paint, Add</i>	0.18
09 91 13 00-0349	SF Paint Exterior Wood Trim, 1 Coat Primer, Brush/Roller Work	1.23
	<i>For Oil Based Paint, Add</i>	0.07
09 91 13 00-0350	SF Paint Exterior Wood Trim, 1 Coat Paint, Brush/Roller Work	1.38
	<i>For Oil Based Paint, Add</i>	0.08
09 91 13 00-0351	SF Paint Exterior Wood Trim, 2 Coats Paint, Brush/Roller Work	2.54
	<i>For Oil Based Paint, Add</i>	0.15
09 91 13 00-0352	Paint Exterior Miscellaneous Metal Surfaces <small>(09 91 13)</small>	
09 91 13 00-0353	SF Paint Exterior Miscellaneous Metal Surfaces, 1 Coat Alkyd Primer, Brush/Roller Work	1.30
	<i>For Epoxy Paint, Add</i>	0.13
	<i>For Electrostatic Painting, Add</i>	0.16
09 91 13 00-0354	SF Paint Exterior Miscellaneous Metal Surfaces, 1 Coat Alkyd Enamel, Brush/Roller Work.....	1.23
	<i>For Epoxy Paint, Add</i>	0.10
	<i>For Electrostatic Painting, Add</i>	0.14
09 91 13 00-0355	SF Paint Exterior Miscellaneous Metal Surfaces, 2 Coats Alkyd Enamel, Brush/Roller Work	2.46
	<i>For Epoxy Paint, Add</i>	0.21
	<i>For Electrostatic Painting, Add</i>	0.29
09 91 33	Painting Materials <small>(09 91)</small>	
	Note: Paint per gallon for owners to obtain extra paint. Not to be used in conjunction with other painting tasks.	
09 91 33 00-0001	Primer <small>(09 91 33)</small>	
09 91 33 00-0002	GAL Alkyd Primer/Sealer, Interior, 500 SF Per Gallon	33.25
09 91 33 00-0003	GAL Alkyd Wood Primer, Exterior, 400 SF Per Gallon.....	26.48
09 91 33 00-0004	GAL Prime Coat Oil Wood Primer, 310 SF Per Gallon.....	33.58
09 91 33 00-0005	GAL Catalyzed Epoxy Primer, Two Component Type, 425 SF Per Gallon	76.08
09 91 33 00-0006	EA Cement Base Primer, 25 LB Sack.....	27.70
09 91 33 00-0007	GAL Alkali Resistant Concrete And Masonry Primer, Exterior, 225 SF Per Gallon.....	42.70
09 91 33 00-0008	GAL Alkali Resistant Concrete And Masonry Primer, Interior, 225 SF Per Gallon	34.27
09 91 33 00-0009	GAL Acrylic Latex Primer, Flat Exterior, Fast Drying Wood Undercoat And Back Primer, 400 SF Per Gallon	26.48
09 91 33 00-0010	GAL Acrylic (Vinyl Acrylic) Block Filler, 50 SF Per Gallon.....	24.06
09 91 33 00-0011	GAL Acrylic (Vinyl Acrylic) Rust Inhibiting Metal, Primer - 500 SF Per Gallon: Paint - 260 SF Per Gallon.....	42.41
09 91 33 00-0012	GAL Acrylic Heavy Duty Wall Primer/Sealer, Low Odor Type, Alkali-Resistant, 800 SF Per Gallon	35.31
09 91 33 00-0013	GAL Acrylic (Vinyl Acrylic) Undercoat, All Purpose, Interior/Exterior, 500 SF Per Gallon	35.31
09 91 33 00-0014	GAL Latex Wood Primer, Exterior, 300 SF Per Gallon.....	39.81
09 91 33 00-0015	GAL Linseed (Oil Base) Primer, Exterior/Interior, 300 SF Per Gallon	25.97
09 91 33 00-0016	GAL Red Alkyd Primer, 500 SF Per Gallon.....	56.90
09 91 33 00-0017	GAL Wood Sealer/Primer, Interior, Clear, 600 SF Per Gallon.....	27.70
09 91 33 00-0018	GAL Zinc Chromate Primer, 300 SF Per Gallon.....	22.16
09 91 33 00-0019	GAL Zinc Dust/Zinc Oxide Primer, 300 SF Per Gallon	57.30
09 91 33 00-0020	GAL Stain Killer, Alcohol Base	35.73
09 91 33 00-0021	GAL Sealer, Primer Kilz, 400 SF Per Gallon	40.31
09 91 33 00-0022	Paint <small>(09 91 33)</small>	



Finishes	09	
Painting and Coating	09 90	9
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 33 00-0023 GAL Aluminum Fiber Roof Coat On Composition Roof, 50 SF Per Gallon	19.39	
09 91 33 00-0024 GAL Acrylic Urethane Sealer	96.13	
09 91 33 00-0025 GAL Asphalt-Fiber Roof And Foundation Coating, Solvent Type..... Note: 75 SF per gallon on roof or concrete, 100 SF per gallon on metal.	10.39	
09 91 33 00-0026 GAL Concrete Enamel Epoxy, 350 SF Per Gallon	60.07	
09 91 33 00-0027 GAL Concrete Acrylic Sealer, 400 SF Per Gallon	31.50	
09 91 33 00-0028 GAL Tar Emulsion, Driveway Coating, 120 SF Per Gallon	10.39	
09 91 33 00-0029 GAL Acrylic Latex, Driveway Coating, 250 SF Per Gallon	15.75	
09 91 33 00-0030 GAL Exterior, Oil Base, Gloss Enamel, 400 SF Per Gallon	31.85	
09 91 33 00-0031 GAL Exterior, Oil Base, Gloss, 400 SF Per Gallon.....	42.41	
09 91 33 00-0032 GAL Exterior, Oil Base, Semi-Gloss, 400 SF Per Gallon	34.62	
09 91 33 00-0033 GAL Exterior, Flat, Oil Base.....	31.74	
09 91 33 00-0034 GAL Exterior, Latex, Semi-Gloss, 400 SF Per Gallon.....	30.12	
09 91 33 00-0035 GAL Exterior, Flat Latex, Trim Paint, 500 SF Per Gallon	35.49	
09 91 33 00-0036 GAL Exterior, Latex Flat Paint, 300 SF Per Gallon	31.50	
09 91 33 00-0037 GAL Exterior, Water Base, Latex Gloss Enamel	44.85	
09 91 33 00-0038 GAL Cold Galvanizing Paint.....	243.43	
09 91 33 00-0039 GAL High Heat Paint.....	80.56	
09 91 33 00-0040 GAL Heat Resistant Paint	53.70	
09 91 33 00-0041 GAL Zinc Chromate Paint	48.59	
09 91 33 00-0042 QT Anti-Rust Enamel, 500 SF Per Quart	19.18	
09 91 33 00-0043 GAL Rust Inhibitor, Ferrous Metal.....	53.70	
09 91 33 00-0044 GAL Masonry Waterproofing, 100 SF Per Gallon	31.50	
09 91 33 00-0045 GAL Alkyd Latex, Black.....	36.23	
09 91 33 00-0046 GAL Alkyd Latex, White.....	36.23	
09 91 33 00-0047 GAL Alkyd Latex, Colors	43.69	
09 91 33 00-0048 QT Wrought Iron Paint, Black	49.02	
09 91 33 00-0049 GAL Vinyl Paint.....	52.97	
09 91 33 00-0050 GAL Silicone Alkyd.....	64.39	
09 91 33 00-0051 GAL 2 Component Solvent Based Acrylic Epoxy	65.43	
09 91 33 00-0052 GAL 2 Component Solvent Based Polyester Epoxy.....	82.05	
09 91 33 00-0053 GAL Chlorinated Rubber.....	60.24	
09 91 33 00-0054 GAL Polyamide Epoxy Sealer.....	62.32	
09 91 33 00-0055 GAL Coal Tar Epoxy	44.66	
09 91 33 00-0056 GAL Swimming Pool Enamel, 350 SF Per Gallon	55.74	
09 91 33 00-0057 GAL Swimming Pool Epoxy Or Urethane Base.....	72.70	
09 91 33 00-0058 GAL Swimming Pool Rubber Base	49.85	
09 91 33 00-0059 GAL Interior, Latex Flat Paint, 300 SF Per Gallon.....	31.68	
09 91 33 00-0060 GAL Interior, Latex Eggshell Or Semi-Gloss Enamel, 300 SF Per Gallon	35.49	
09 91 33 00-0061 GAL Interior, Fire-Retardant Flat Paint, 200 SF Per Gallon	64.91	
09 91 33 00-0062 GAL Interior, Ceiling White Latex Flat, 350 SF Per Gallon.....	21.98	
09 91 33 00-0063 GAL Linseed Oil.....	19.21	
09 91 33 00-0064 GAL Latex Floor Paint, 300 SF Per Gallon	31.50	
09 91 33 00-0065 GAL Acrylic Floor Paint, 400 SF Per Gallon.....	35.49	
09 91 33 00-0066 GAL Texture Paint, Sand Texture Latex, Armor Coat, 100 SF Per Gallon	32.46	
09 91 33 00-0067 GAL Acoustic Spray-On Texture, Finish	26.08	
09 91 33 00-0068 Stain, Varnish (09 91 33)		
09 91 33 00-0069 GAL Thompson Water Sealer, 150 SF Per Gallon	18.00	
09 91 33 00-0070 GAL Latex Redwood Stain, Water Base, 300 SF Per Gallon.....	33.58	
09 91 33 00-0071 GAL Redwood Oil Stain, 300 SF Per Gallon.....	29.95	
09 91 33 00-0072 GAL Varnish, Clear	23.62	
09 91 33 00-0073 GAL Penetrating Water-Repellent Stain.....	17.15	
09 91 33 00-0074 GAL Redwood Hue Or Clear Stain.....	15.33	
09 91 33 00-0075 GAL Polyurethane.....	26.92	
09 91 33 00-0076 GAL Lacquer, Semi-Gloss	31.60	
09 91 33 00-0077 GAL Shellac, Clear.....	41.45	
09 91 33 00-0078 GAL Acetone.....	13.68	
09 91 33 00-0079 GAL Paint Thinner.....	3.38	
09 91 33 00-0080 GAL Shellac Or Lacquer Thinner	13.85	
09 91 33 00-0081 GAL Turpentine.....	19.04	
09 91 33 00-0082 GAL Wood Filler Paste.....	32.54	
09 91 33 00-0083 GAL Wood Preservative, Pentachlorophenol, General Purpose, 40%, 150 SF Per Gallon	25.97	
09 91 33 00-0084 GAL Waterbased Alkyd Urethane (Sherwin Williams B53W01153).....	71.43	
09 91 43 Surface Preparation (09 91)		
See CSI section 09 01 90 52-0000 for preparation on painted or unpainted surfaces.		
09 96 High-Performance Coatings (09 90)		
09 96 23 Graffiti-Resistant Coatings (09 96)		
09 96 23 00-0001 Anti-Graffiti Coating (09 96 23)		
09 96 23 00-0002 SF Sacrificial Anti-Graffiti Coating, Per Coat	1.44	
For Up To 100, Add	0.91	
For >100 To 250, Add	0.43	
For >250 To 500, Add	0.19	

09 Finishes
09 90 Painting and Coating
09 96 High-Performance Coatings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 96 23 00-0003	SF		Permanent (Non-Sacrificial) Anti-Graffiti Coating, Per Coat.....	1.51	
			For Up To 100, Add	0.92	
			For >100 To 250, Add	0.44	
			For >250 To 500, Add	0.19	
09 96 53 Elastomeric Coatings (09 96)					
09 96 53 00-0001			Elastomeric (09 96 53)		
			Note: Per coat.		
09 96 53 00-0002	SF		1 Coat, Elastomeric Paint, Brush Work.....	1.28	
			For Work >15' To 20' Above Floor, Add	0.17	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.28	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.44	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.61	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.86	
			For >100 To 250, Add	0.41	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.26	
09 96 53 00-0003	SF		1 Coat, Elastomeric Paint, Brush/Roller Work.....	1.17	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.25	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.40	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.55	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.78	
			For >100 To 250, Add	0.37	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.23	
09 96 53 00-0004	SF		1 Coat, Elastomeric Paint, Sprayed.....	0.97	
			For Work >15' To 20' Above Floor, Add	0.10	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.17	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.28	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.38	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.56	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.19	
09 96 53 00-0005	SF		1 Coat, Elastomeric Primer, Brush Work.....	0.90	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.20	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.32	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.45	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.62	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.18	



Finishes	09	09
Painting and Coating	09 90	
High-Performance Coatings	09 96	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 96 53 00-0006	SF		1 Coat, Elastomeric Primer, Brush/Roller Work .....0.58 For Work >15' To 20' Above Floor, Add 0.07 Note: Applied only to work area above 15' to 20'. For Work >20' To 30' Above Floor, Add 0.12 Note: Applied only to work area above 20'. For Work >30' To 40' Above Floor, Add 0.20 Note: Applied only to work area above 30' to 40'. For Work >40' Above Floor, Add 0.27 Note: Applied only to work area above 40'. For Up To 100, Add 0.38 For >100 To 250, Add 0.18 For >250 To 500, Add 0.08 For >2,500 To 5,000, Deduct -0.03 For >5,000 To 10,000, Deduct -0.06 For >10,000 To 20,000, Deduct -0.09 For >20,000, Deduct -0.12		
09 96 53 00-0007	SF		1 Coat, Elastomeric Primer, Sprayed.....0.93 For Work >15' To 20' Above Floor, Add 0.12 Note: Applied only to work area above 15' to 20'. For Work >20' To 30' Above Floor, Add 0.20 Note: Applied only to work area above 20'. For Work >30' To 40' Above Floor, Add 0.31 Note: Applied only to work area above 30' to 40'. For Work >40' Above Floor, Add 0.43 Note: Applied only to work area above 40'. For Up To 100, Add 0.61 For >100 To 250, Add 0.29 For >250 To 500, Add 0.12 For >2,500 To 5,000, Deduct -0.05 For >5,000 To 10,000, Deduct -0.09 For >10,000 To 20,000, Deduct -0.14 For >20,000, Deduct -0.19		
09 96 56 Epoxy Coatings (09 96)					
09 96 56 00-0001			High Build Epoxy (09 96 56)		
09 96 56 00-0002	SF		50 Mil, High Build Epoxy .....3.54		
09 96 56 00-0003			Laminated Epoxy With Fiberglass (09 96 56)		
09 96 56 00-0004	SF		Laminated Epoxy With Fiberglass.....5.90		
09 96 66 Aggregate Wall Coatings (09 96)					
09 96 66 00-0001			Troweled On (09 96 66)		
09 96 66 00-0002	SF		Exposed Aggregate - 1/16" To 1/4" - Troweled On.....4.55		
09 96 66 00-0003	SF		Exposed Aggregate - 1/2" To 5/8" Troweled On .....8.15		
09 96 66 00-0004	SF		Exposed Aggregate - 1" Troweled On.....12.16		
09 96 66 00-0005			Sprayed On (09 96 66)		
09 96 66 00-0006	SF		Exposed Aggregate - 1/8" - Sprayed On.....3.70		
09 97 Special Coatings (09 90)					
09 97 13 Steel Coatings (09 97)					
09 97 13 23 Exterior Steel Coatings (09 97 13)					
Note: Steel Structure Painting Council, SSPC; Surface Preparation, SP.					
09 97 13 23-0001			Surface Preparation For Structural Steel (09 97 13 23) Note: Type 1 structural steel - up to 2 SF per LF, Type 2 structural steel - over 2 SF to 5 SF per LF, Type 3 structural steel - over 5 SF per LF, and piping - under 14" diameter.		
09 97 13 23-0002			SSPC SP2 Or 3 Hand Or Power Tool Cleaning Surface Preparation For Structural Steel (09 97 13 23-0001)		
09 97 13 23-0003	SF		Type 1 Structural Steel SP2/3 Hand Or Power Tool Cleaning Surface Preparation .....1.62 For Up To 100, Add 1.22 For >100 To 250, Add 0.57 For >250 To 500, Add 0.24		
09 97 13 23-0004	SF		Type 2 Structural Steel SP2/3 Hand Or Power Tool Cleaning Surface Preparation .....1.56 For Up To 100, Add 1.17 For >100 To 250, Add 0.55 For >250 To 500, Add 0.23		
09 97 13 23-0005	SF		Type 3 Structural Steel SP2/3 Hand Or Power Tool Cleaning Surface Preparation .....1.56 For Up To 100, Add 1.17 For >100 To 250, Add 0.55 For >250 To 500, Add 0.23		
09 97 13 23-0006	SF		Up To 14" Diameter Pipe SP2/3 Hand Or Power Tool Cleaning Surface Preparation .....2.11 For Up To 100, Add 1.58 For >100 To 250, Add 0.74 For >250 To 500, Add 0.32		

09 Finishes

09 90 Painting and Coating

09 97 Special Coatings



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

09 97 13 23-0007		SSPC SP7 Brush Off Blast Cleaning Surface Preparation For Structural Steel	
		<i>(09 97 13 23-0001)</i>	
09 97 13 23-0008	SF	Type 1 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation	1.04
		<i>For Up To 100, Add</i>	0.71
		<i>For >100 To 250, Add</i>	0.34
		<i>For >250 To 500, Add</i>	0.15
09 97 13 23-0009	SF	Type 2 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation	0.92
		<i>For Up To 100, Add</i>	0.63
		<i>For >100 To 250, Add</i>	0.30
		<i>For >250 To 500, Add</i>	0.13
09 97 13 23-0010	SF	Type 3 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation	0.91
		<i>For Up To 100, Add</i>	0.63
		<i>For >100 To 250, Add</i>	0.30
		<i>For >250 To 500, Add</i>	0.13
09 97 13 23-0011	SF	Up To 14" Diameter Pipe SP7 Brush Off Blast Cleaning Surface Preparation	1.29
		<i>For Up To 100, Add</i>	0.90
		<i>For >100 To 250, Add</i>	0.42
		<i>For >250 To 500, Add</i>	0.18
09 97 13 23-0012		SSPC SP6 Commercial Blast Cleaning Surface Preparation For Structural Steel	
		<i>(09 97 13 23-0001)</i>	
09 97 13 23-0013	SF	Type 1 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation	2.65
		<i>For Up To 100, Add</i>	1.87
		<i>For >100 To 250, Add</i>	0.88
		<i>For >250 To 500, Add</i>	0.38
09 97 13 23-0014	SF	Type 2 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation	2.31
		<i>For Up To 100, Add</i>	1.62
		<i>For >100 To 250, Add</i>	0.76
		<i>For >250 To 500, Add</i>	0.33
09 97 13 23-0015	SF	Type 3 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation	2.15
		<i>For Up To 100, Add</i>	1.50
		<i>For >100 To 250, Add</i>	0.71
		<i>For >250 To 500, Add</i>	0.30
09 97 13 23-0016	SF	Up To 14" Diameter Pipe SP6 Commercial Blast Cleaning Surface Preparation	3.32
		<i>For Up To 100, Add</i>	2.37
		<i>For >100 To 250, Add</i>	1.11
		<i>For >250 To 500, Add</i>	0.48
09 97 13 23-0017		SSPC SP5 White Metal Blast Cleaning Surface Preparation For Structural Steel	
		<i>(09 97 13 23-0001)</i>	
09 97 13 23-0018	SF	Type 1 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation	5.15
		<i>For Up To 100, Add</i>	3.66
		<i>For >100 To 250, Add</i>	1.72
		<i>For >250 To 500, Add</i>	0.74
09 97 13 23-0019	SF	Type 2 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation	4.41
		<i>For Up To 100, Add</i>	3.12
		<i>For >100 To 250, Add</i>	1.47
		<i>For >250 To 500, Add</i>	0.63
09 97 13 23-0020	SF	Type 3 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation	4.05
		<i>For Up To 100, Add</i>	2.85
		<i>For >100 To 250, Add</i>	1.34
		<i>For >250 To 500, Add</i>	0.58
09 97 13 23-0021	SF	Up To 14" Diameter Pipe SP5 White Metal Blast Cleaning Surface Preparation	6.22
		<i>For Up To 100, Add</i>	4.47
		<i>For >100 To 250, Add</i>	2.09
		<i>For >250 To 500, Add</i>	0.90
09 97 13 23-0022		SSPC SP10 Near White Metal Blast Cleaning Surface Preparation For Structural Steel	
		<i>(09 97 13 23-0001)</i>	
09 97 13 23-0023	SF	Type 1 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation	3.84
		<i>For Up To 100, Add</i>	2.72
		<i>For >100 To 250, Add</i>	1.28
		<i>For >250 To 500, Add</i>	0.55
09 97 13 23-0024	SF	Type 2 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation	3.27
		<i>For Up To 100, Add</i>	2.31
		<i>For >100 To 250, Add</i>	1.08
		<i>For >250 To 500, Add</i>	0.47
09 97 13 23-0025	SF	Type 3 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation	3.10
		<i>For Up To 100, Add</i>	2.18
		<i>For >100 To 250, Add</i>	1.03
		<i>For >250 To 500, Add</i>	0.44
09 97 13 23-0026	SF	Up To 14" Diameter Pipe SP10 Near White Metal Blast Cleaning Surface Preparation	4.52
		<i>For Up To 100, Add</i>	3.25
		<i>For >100 To 250, Add</i>	1.52
		<i>For >250 To 500, Add</i>	0.65



Finishes	09	09
Painting and Coating	09 90	
Special Coatings	09 97	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0027 Protective Coatings For Tanks And Structural Steel <small>(09 97 13 23)</small>		
Note: Type 1 structural steel - up to 2 SF per LF, Type 2 structural steel - over 2 SF to 5 SF per LF, Type 3 structural steel - over 5 SF per LF, and piping - under 14" diameter.		
09 97 13 23-0028 1.5 Mil Prime Coat For Structural Steel <small>(09 97 13 23-0027)</small>		
09 97 13 23-0029 SF Spray Type 1 Structural Steel 1.5 Mil Prime Coat.....	1.03	
For Up To 100, Add	0.69	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
09 97 13 23-0030 SF Spray Type 2 Structural Steel 1.5 Mil Prime Coat.....	0.76	
For Up To 100, Add	0.50	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.10	
09 97 13 23-0031 SF Spray Type 3 Structural Steel 1.5 Mil Prime Coat.....	0.68	
For Up To 100, Add	0.44	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
09 97 13 23-0032 SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime Coat.....	1.23	
For Up To 100, Add	0.84	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.17	
09 97 13 23-0033 SF Brush Type 1 Structural Steel 1.5 Mil Prime Coat.....	1.50	
For Up To 100, Add	1.04	
For >100 To 250, Add	0.49	
For >250 To 500, Add	0.21	
09 97 13 23-0034 SF Brush Type 2 Structural Steel 1.5 Mil Prime Coat.....	1.10	
For Up To 100, Add	0.76	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.15	
09 97 13 23-0035 SF Brush Type 3 Structural Steel 1.5 Mil Prime Coat.....	0.98	
For Up To 100, Add	0.67	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
09 97 13 23-0036 SF Brush Up To 14" Diameter Pipe 1.5 Mil Prime Coat.....	1.81	
For Up To 100, Add	1.28	
For >100 To 250, Add	0.60	
For >250 To 500, Add	0.26	
09 97 13 23-0037 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats For Structural Steel <small>(09 97 13 23-0027)</small>		
09 97 13 23-0038 SF Spray Type 1 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	3.02	
For Up To 100, Add	2.01	
For >100 To 250, Add	0.95	
For >250 To 500, Add	0.41	
09 97 13 23-0039 SF Spray Type 2 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	2.17	
For Up To 100, Add	1.39	
For >100 To 250, Add	0.66	
For >250 To 500, Add	0.29	
09 97 13 23-0040 SF Spray Type 3 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	2.01	
For Up To 100, Add	1.27	
For >100 To 250, Add	0.61	
For >250 To 500, Add	0.26	
09 97 13 23-0041 SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	3.68	
For Up To 100, Add	2.50	
For >100 To 250, Add	1.18	
For >250 To 500, Add	0.51	
09 97 13 23-0042 SF Spray Type 1 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.27	
For Up To 100, Add	1.51	
For >100 To 250, Add	0.71	
For >250 To 500, Add	0.31	
09 97 13 23-0043 SF Spray Type 2 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	1.63	
For Up To 100, Add	1.05	
For >100 To 250, Add	0.50	
For >250 To 500, Add	0.22	
09 97 13 23-0044 SF Spray Type 3 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	1.50	
For Up To 100, Add	0.95	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.20	
09 97 13 23-0045 SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.76	
For Up To 100, Add	1.87	
For >100 To 250, Add	0.88	
For >250 To 500, Add	0.38	
09 97 13 23-0046 SF Brush Type 1 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	4.76	
For Up To 100, Add	3.31	
For >100 To 250, Add	1.56	
For >250 To 500, Add	0.67	
09 97 13 23-0047 SF Brush Type 2 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	3.37	
For Up To 100, Add	2.29	
For >100 To 250, Add	1.08	
For >250 To 500, Add	0.47	
09 97 13 23-0048 SF Brush Type 3 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	3.10	
For Up To 100, Add	2.09	
For >100 To 250, Add	0.99	
For >250 To 500, Add	0.43	

09 Finishes
09 90 Painting and Coating
09 97 Special Coatings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0049	SF		Brush Up To 14" Diameter Pipe 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	5.85	
			For Up To 100, Add	4.12	
			For >100 To 250, Add	1.94	
			For >250 To 500, Add	0.83	
09 97 13 23-0050	SF		Brush Type 1 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	3.57	
			For Up To 100, Add	2.49	
			For >100 To 250, Add	1.17	
			For >250 To 500, Add	0.50	
09 97 13 23-0051	SF		Brush Type 2 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	2.52	
			For Up To 100, Add	1.72	
			For >100 To 250, Add	0.81	
			For >250 To 500, Add	0.35	
09 97 13 23-0052	SF		Brush Type 3 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	2.32	
			For Up To 100, Add	1.57	
			For >100 To 250, Add	0.74	
			For >250 To 500, Add	0.32	
09 97 13 23-0053	SF		Brush Up To 14" Diameter Pipe 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	4.38	
			For Up To 100, Add	3.09	
			For >100 To 250, Add	1.45	
			For >250 To 500, Add	0.62	
09 97 13 23-0054 Touch-Up And Two 1.5 Mil Alkyd Finish Coats For Structural Steel <small>(09 97 13 23-0027)</small>					
09 97 13 23-0055	SF		Spray Type 1 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.33	
			For Up To 100, Add	1.56	
			For >100 To 250, Add	0.74	
			For >250 To 500, Add	0.32	
09 97 13 23-0056	SF		Spray Type 2 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	1.90	
			For Up To 100, Add	1.26	
			For >100 To 250, Add	0.60	
			For >250 To 500, Add	0.26	
09 97 13 23-0057	SF		Spray Type 3 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	1.74	
			For Up To 100, Add	1.14	
			For >100 To 250, Add	0.54	
			For >250 To 500, Add	0.23	
09 97 13 23-0058	SF		Spray Up To 14" Diameter Pipe Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.91	
			For Up To 100, Add	1.99	
			For >100 To 250, Add	0.94	
			For >250 To 500, Add	0.40	
09 97 13 23-0059	SF		Spray Type 1 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.49	
			For Up To 100, Add	1.00	
			For >100 To 250, Add	0.47	
			For >250 To 500, Add	0.20	
09 97 13 23-0060	SF		Spray Type 2 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.22	
			For Up To 100, Add	0.81	
			For >100 To 250, Add	0.38	
			For >250 To 500, Add	0.17	
09 97 13 23-0061	SF		Spray Type 3 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.11	
			For Up To 100, Add	0.72	
			For >100 To 250, Add	0.34	
			For >250 To 500, Add	0.15	
09 97 13 23-0062	SF		Spray Up To 14" Diameter Pipe Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.86	
			For Up To 100, Add	1.28	
			For >100 To 250, Add	0.60	
			For >250 To 500, Add	0.26	
09 97 13 23-0063	SF		Brush Type 1 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	3.40	
			For Up To 100, Add	2.36	
			For >100 To 250, Add	1.11	
			For >250 To 500, Add	0.48	
09 97 13 23-0064	SF		Brush Type 2 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.74	
			For Up To 100, Add	1.89	
			For >100 To 250, Add	0.89	
			For >250 To 500, Add	0.38	
09 97 13 23-0065	SF		Brush Type 3 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.50	
			For Up To 100, Add	1.71	
			For >100 To 250, Add	0.81	
			For >250 To 500, Add	0.35	
09 97 13 23-0066	SF		Brush Up To 14" Diameter Pipe Touch-Up And Two 1.5 Mil Alkyd Finish Coats	4.27	
			For Up To 100, Add	3.01	
			For >100 To 250, Add	1.41	
			For >250 To 500, Add	0.61	
09 97 13 23-0067	SF		Brush Type 1 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat	2.17	
			For Up To 100, Add	1.51	
			For >100 To 250, Add	0.71	
			For >250 To 500, Add	0.31	
09 97 13 23-0068	SF		Brush Type 2 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.76	
			For Up To 100, Add	1.21	
			For >100 To 250, Add	0.57	
			For >250 To 500, Add	0.25	
09 97 13 23-0069	SF		Brush Type 3 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.60	
			For Up To 100, Add	1.09	
			For >100 To 250, Add	0.52	
			For >250 To 500, Add	0.22	



Finishes	09	09
Painting and Coating	09 90	
Special Coatings	09 97	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0070 SF Brush Up To 14" Diameter Pipe Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	2.73	
For Up To 100, Add	1.93	
For >100 To 250, Add	0.91	
For >250 To 500, Add	0.39	
09 97 13 23-0071 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats For Structural Steel <small>(09 97 13 23-0027)</small>		
09 97 13 23-0072 SF Spray Type 1 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	3.77	
For Up To 100, Add	2.31	
For >100 To 250, Add	1.10	
For >250 To 500, Add	0.48	
09 97 13 23-0073 SF Spray Type 2 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.73	
For Up To 100, Add	1.58	
For >100 To 250, Add	0.76	
For >250 To 500, Add	0.33	
09 97 13 23-0074 SF Spray Type 3 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.40	
For Up To 100, Add	1.33	
For >100 To 250, Add	0.65	
For >250 To 500, Add	0.28	
09 97 13 23-0075 SF Spray Up To 14" Diameter Pipe 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	4.29	
For Up To 100, Add	2.68	
For >100 To 250, Add	1.28	
For >250 To 500, Add	0.55	
09 97 13 23-0076 SF Spray Type 1 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	2.64	
For Up To 100, Add	1.62	
For >100 To 250, Add	0.77	
For >250 To 500, Add	0.34	
09 97 13 23-0077 SF Spray Type 2 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	1.91	
For Up To 100, Add	1.10	
For >100 To 250, Add	0.53	
For >250 To 500, Add	0.23	
09 97 13 23-0078 SF Spray Type 3 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	1.68	
For Up To 100, Add	0.93	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.20	
09 97 13 23-0079 SF Spray Up To 14" Diameter Pipe Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	3.00	
For Up To 100, Add	1.88	
For >100 To 250, Add	0.90	
For >250 To 500, Add	0.39	
09 97 13 23-0080 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats For Structural Steel <small>(09 97 13 23-0027)</small>		
09 97 13 23-0081 SF Spray Type 1 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats.....	4.01	
For Up To 100, Add	2.35	
For >100 To 250, Add	1.13	
For >250 To 500, Add	0.49	
09 97 13 23-0082 SF Spray Type 2 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats.....	2.95	
For Up To 100, Add	1.61	
For >100 To 250, Add	0.78	
For >250 To 500, Add	0.34	
09 97 13 23-0083 SF Spray Type 3 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	2.62	
For Up To 100, Add	1.37	
For >100 To 250, Add	0.67	
For >250 To 500, Add	0.29	
09 97 13 23-0084 SF Spray Up To 14" Diameter Pipe 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	4.54	
For Up To 100, Add	2.72	
For >100 To 250, Add	1.30	
For >250 To 500, Add	0.57	
09 97 13 23-0085 SF Spray Type 1 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	3.30	
For Up To 100, Add	1.93	
For >100 To 250, Add	0.93	
For >250 To 500, Add	0.40	
09 97 13 23-0086 SF Spray Type 2 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	2.41	
For Up To 100, Add	1.32	
For >100 To 250, Add	0.64	
For >250 To 500, Add	0.28	
09 97 13 23-0087 SF Spray Type 3 Structural Steel Two 6 Mil High Build Epoxy Finish Coats	2.15	
For Up To 100, Add	1.12	
For >100 To 250, Add	0.55	
For >250 To 500, Add	0.24	
09 97 13 23-0088 SF Spray Up To 14" Diameter Pipe Two 6 Mil High Build Epoxy Finish Coats.....	3.73	
For Up To 100, Add	2.23	
For >100 To 250, Add	1.07	
For >250 To 500, Add	0.47	
09 97 13 23-0089 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats For Structural Steel <small>(09 97 13 23-0027)</small>		
09 97 13 23-0090 SF Spray Type 1 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	8.44	
For Up To 100, Add	5.06	
For >100 To 250, Add	2.42	
For >250 To 500, Add	1.05	

09 Finishes
09 90 Painting and Coating
09 97 Special Coatings



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0091	SF	Spray Type 2 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	6.35	
		<i>For Up To 100, Add</i>	3.62	
		<i>For >100 To 250, Add</i>	1.75	
		<i>For >250 To 500, Add</i>	0.76	
09 97 13 23-0092	SF	Spray Type 3 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	6.11	
		<i>For Up To 100, Add</i>	3.44	
		<i>For >100 To 250, Add</i>	1.66	
		<i>For >250 To 500, Add</i>	0.73	
09 97 13 23-0093	SF	Spray Up To 14" Diameter Pipe 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	9.86	
		<i>For Up To 100, Add</i>	6.10	
		<i>For >100 To 250, Add</i>	2.91	
		<i>For >250 To 500, Add</i>	1.26	
09 97 13 23-0094 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats For Structural Steel <small>(09 97 13 23-0027)</small>				
09 97 13 23-0095	SF	Spray Type 1 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	4.39	
		<i>For Up To 100, Add</i>	2.45	
		<i>For >100 To 250, Add</i>	1.19	
		<i>For >250 To 500, Add</i>	0.52	
09 97 13 23-0096	SF	Spray Type 2 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	3.41	
		<i>For Up To 100, Add</i>	1.72	
		<i>For >100 To 250, Add</i>	0.85	
		<i>For >250 To 500, Add</i>	0.37	
09 97 13 23-0097	SF	Spray Type 3 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	3.25	
		<i>For Up To 100, Add</i>	1.60	
		<i>For >100 To 250, Add</i>	0.79	
		<i>For >250 To 500, Add</i>	0.35	
09 97 13 23-0098	SF	Spray Up To 14" Diameter Pipe 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	5.01	
		<i>For Up To 100, Add</i>	2.89	
		<i>For >100 To 250, Add</i>	1.39	
		<i>For >250 To 500, Add</i>	0.61	
09 97 13 23-0099	SF	Spray Type 1 Structural Steel Two 4 Mil High Build Vinyl Finish Coats	3.47	
		<i>For Up To 100, Add</i>	1.94	
		<i>For >100 To 250, Add</i>	0.94	
		<i>For >250 To 500, Add</i>	0.41	
09 97 13 23-0100	SF	Spray Type 2 Structural Steel Two 4 Mil High Build Vinyl Finish Coats	2.70	
		<i>For Up To 100, Add</i>	1.37	
		<i>For >100 To 250, Add</i>	0.67	
		<i>For >250 To 500, Add</i>	0.30	
09 97 13 23-0101	SF	Spray Type 3 Structural Steel Two 4 Mil High Build Vinyl Finish Coats	2.57	
		<i>For Up To 100, Add</i>	1.27	
		<i>For >100 To 250, Add</i>	0.62	
		<i>For >250 To 500, Add</i>	0.28	
09 97 13 23-0102	SF	Spray Up To 14" Diameter Pipe Two 4 Mil High Build Vinyl Finish Coats	3.96	
		<i>For Up To 100, Add</i>	2.29	
		<i>For >100 To 250, Add</i>	1.10	
		<i>For >250 To 500, Add</i>	0.48	
09 97 13 23-0103 Two 8 Mil Coal Tar Epoxy Coats For Structural Steel <small>(09 97 13 23-0027)</small>				
09 97 13 23-0104	SF	Spray Type 1 Structural Steel Two 8 Mil Coal Tar Epoxy Coats	3.78	
		<i>For Up To 100, Add</i>	2.36	
		<i>For >100 To 250, Add</i>	1.13	
		<i>For >250 To 500, Add</i>	0.49	
09 97 13 23-0105	SF	Spray Type 2 Structural Steel Two 8 Mil Coal Tar Epoxy Coats	3.07	
		<i>For Up To 100, Add</i>	1.87	
		<i>For >100 To 250, Add</i>	0.89	
		<i>For >250 To 500, Add</i>	0.39	
09 97 13 23-0106	SF	Spray Type 3 Structural Steel Two 8 Mil Coal Tar Epoxy Coats	2.82	
		<i>For Up To 100, Add</i>	1.68	
		<i>For >100 To 250, Add</i>	0.81	
		<i>For >250 To 500, Add</i>	0.35	
09 97 13 23-0107	SF	Spray Up To 14" Diameter Pipe Two 8 Mil Coal Tar Epoxy Coats	4.70	
		<i>For Up To 100, Add</i>	3.03	
		<i>For >100 To 250, Add</i>	1.44	
		<i>For >250 To 500, Add</i>	0.62	
09 97 13 23-0108 One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat For Structural Steel <small>(09 97 13 23-0027)</small>				
09 97 13 23-0109	SF	Spray Type 1 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat	3.68	
		<i>For Up To 100, Add</i>	2.40	
		<i>For >100 To 250, Add</i>	1.14	
		<i>For >250 To 500, Add</i>	0.49	
09 97 13 23-0110	SF	Spray Type 2 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat	2.59	
		<i>For Up To 100, Add</i>	1.60	
		<i>For >100 To 250, Add</i>	0.76	
		<i>For >250 To 500, Add</i>	0.33	



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09 97 13 23-0111 SF Spray Type 3 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	2.19	
For Up To 100, Add	1.30	
For >100 To 250, Add	0.62	
For >250 To 500, Add	0.27	
09 97 13 23-0112 SF Spray Up To 14" Diameter Pipe One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	4.20	
For Up To 100, Add	2.77	
For >100 To 250, Add	1.31	
For >250 To 500, Add	0.57	
09 97 13 23-0113 One 3 Mil High Zinc Silicate Coat For Structural Steel (09 97 13 23-0027)		
09 97 13 23-0114 SF Spray Type 1 Structural Steel One 3 Mil High Zinc Silicate Coat.....	1.92	
For Up To 100, Add	1.06	
For >100 To 250, Add	0.51	
For >250 To 500, Add	0.23	
09 97 13 23-0115 SF Spray Type 2 Structural Steel One 3 Mil High Zinc Silicate Coat.....	1.38	
For Up To 100, Add	0.69	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
09 97 13 23-0116 SF Spray Type 3 Structural Steel One 3 Mil High Zinc Silicate Coat.....	1.30	
For Up To 100, Add	0.63	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.14	
09 97 13 23-0117 SF Spray Up To 14" Diameter Pipe One 3 Mil High Zinc Silicate Coat.....	2.03	
For Up To 100, Add	1.13	
For >100 To 250, Add	0.55	
For >250 To 500, Add	0.24	
09 97 13 23-0118 Two 1.5 Mil Vinyl Enamel Finish Coats For Structural Steel (09 97 13 23-0027)		
Note: Installed over existing primer.		
09 97 13 23-0119 SF Spray Type 1 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats	3.00	
For Up To 100, Add	1.81	
For >100 To 250, Add	0.87	
For >250 To 500, Add	0.38	
09 97 13 23-0120 SF Spray Type 2 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats	2.44	
For Up To 100, Add	1.43	
For >100 To 250, Add	0.69	
For >250 To 500, Add	0.30	
09 97 13 23-0121 SF Spray Type 3 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats	2.12	
For Up To 100, Add	1.19	
For >100 To 250, Add	0.58	
For >250 To 500, Add	0.25	
09 97 13 23-0122 SF Spray Up To 14" Diameter Pipe Two 1.5 Mil Vinyl Enamel Finish Coats	3.50	
For Up To 100, Add	2.18	
For >100 To 250, Add	1.04	
For >250 To 500, Add	0.45	
09 97 13 24 Steel Water Storage Tank Painting (09 97 13)		
09 97 13 24-0001 Surface Preparation For Tanks (09 97 13 24)		
Note: Small pressure vessels and tanks - up to 12' diameter, large pressure vessels and tanks - over 12' diameter, tank interiors - over 6' diameter.		
09 97 13 24-0002 SSPC SP2 Or 3 Hand Or Power Tool Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0003 SF Small Vessel/Tank SP2/3 Hand Or Power Tool Cleaning Surface Preparation	1.56	
For Up To 100, Add	1.17	
For >100 To 250, Add	0.55	
For >250 To 500, Add	0.23	
09 97 13 24-0004 SF Large Vessel/Tank SP2/3 Hand Or Power Tool Cleaning Surface Preparation	1.38	
For Up To 100, Add	1.04	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	
09 97 13 24-0005 SF Vessel/Tank Interior SP2/3 Hand Or Power Tool Cleaning Surface Preparation	1.95	
For Up To 100, Add	1.46	
For >100 To 250, Add	0.68	
For >250 To 500, Add	0.29	
09 97 13 24-0006 SSPC SP7 Brush Off Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0007 SF Small Vessel/Tank SP7 Brush Off Blast Cleaning Surface Preparation.....	0.87	
For Up To 100, Add	0.60	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
09 97 13 24-0008 SF Large Vessel/Tank SP7 Brush Off Blast Cleaning Surface Preparation	0.70	
For Up To 100, Add	0.49	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	

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09 97 13 24-0009	SF		Vessel/Tank Interior SP7 Brush Off Blast Cleaning Surface Preparation.....	1.22	
			For Up To 100, Add	0.88	
			For >100 To 250, Add	0.41	
			For >250 To 500, Add	0.18	
09 97 13 24-0010			SSPC SP6 Commercial Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0011	SF		Small Vessel/Tank SP6 Commercial Blast Cleaning Surface Preparation.....	2.14	
			For Up To 100, Add	1.50	
			For >100 To 250, Add	0.70	
			For >250 To 500, Add	0.30	
09 97 13 24-0012	SF		Large Vessel/Tank SP6 Commercial Blast Cleaning Surface Preparation.....	1.96	
			For Up To 100, Add	1.36	
			For >100 To 250, Add	0.64	
			For >250 To 500, Add	0.28	
09 97 13 24-0013	SF		Vessel/Tank Interior SP6 Commercial Blast Cleaning Surface Preparation.....	2.85	
			For Up To 100, Add	2.03	
			For >100 To 250, Add	0.95	
			For >250 To 500, Add	0.41	
09 97 13 24-0014			SSPC SP5 White Metal Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0015	SF		Small Vessel/Tank SP5 White Metal Blast Cleaning Surface Preparation.....	3.87	
			For Up To 100, Add	2.72	
			For >100 To 250, Add	1.28	
			For >250 To 500, Add	0.55	
09 97 13 24-0016	SF		Large Vessel/Tank SP5 White Metal Blast Cleaning Surface Preparation.....	3.69	
			For Up To 100, Add	2.59	
			For >100 To 250, Add	1.22	
			For >250 To 500, Add	0.52	
09 97 13 24-0017	SF		Vessel/Tank Interior SP5 White Metal Blast Cleaning Surface Preparation.....	5.38	
			For Up To 100, Add	3.86	
			For >100 To 250, Add	1.81	
			For >250 To 500, Add	0.78	
09 97 13 24-0018			SSPC SP10 Near White Metal Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0019	SF		Small Vessel/Tank SP10 Near White Metal Blast Cleaning Surface Preparation.....	3.09	
			For Up To 100, Add	2.18	
			For >100 To 250, Add	1.02	
			For >250 To 500, Add	0.44	
09 97 13 24-0020	SF		Large Vessel/Tank SP10 Near White Metal Blast Cleaning Surface Preparation.....	3.09	
			For Up To 100, Add	2.18	
			For >100 To 250, Add	1.02	
			For >250 To 500, Add	0.44	
09 97 13 24-0021	SF		Vessel/Tank Interior SP10 Near White Metal Blast Cleaning Surface Preparation.....	4.51	
			For Up To 100, Add	3.24	
			For >100 To 250, Add	1.52	
			For >250 To 500, Add	0.65	
09 97 13 24-0022			Protective Coatings For Tanks (09 97 13 24)		
			Note: Small pressure vessels and tanks - up to 12' diameter, large pressure vessels and tanks - over 12' diameter, tank interiors - over 6' diameter.		
09 97 13 24-0023			1.5 Mil Prime Coat For Tanks (09 97 13 24-0022)		
09 97 13 24-0024	SF		Spray Small Vessel/Tank 1.5 Mil Prime Coat.....	0.60	
			For Up To 100, Add	0.38	
			For >100 To 250, Add	0.18	
			For >250 To 500, Add	0.08	
09 97 13 24-0025	SF		Spray Large Vessel/Tank 1.5 Mil Prime Coat.....	0.48	
			For Up To 100, Add	0.29	
			For >100 To 250, Add	0.14	
			For >250 To 500, Add	0.06	
09 97 13 24-0026	SF		Spray Tank Interior 1.5 Mil Prime Coat.....	1.17	
			For Up To 100, Add	0.81	
			For >100 To 250, Add	0.38	
			For >250 To 500, Add	0.16	
09 97 13 24-0027	SF		Brush Small Vessel/Tank 1.5 Mil Prime Coat.....	0.85	
			For Up To 100, Add	0.57	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
09 97 13 24-0028	SF		Brush Large Vessel/Tank 1.5 Mil Prime Coat.....	0.67	
			For Up To 100, Add	0.44	
			For >100 To 250, Add	0.21	
			For >250 To 500, Add	0.09	
09 97 13 24-0029	SF		Brush Tank Interior 1.5 Mil Prime Coat.....	1.72	
			For Up To 100, Add	1.22	
			For >100 To 250, Add	0.57	
			For >250 To 500, Add	0.25	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0030 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0031 SF Spray Small Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	1.76	
For Up To 100, Add	1.09	
For >100 To 250, Add	0.52	
For >250 To 500, Add	0.23	
09 97 13 24-0032 SF Spray Large Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	1.35	
For Up To 100, Add	0.78	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.16	
09 97 13 24-0033 SF Spray Tank Interior 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	3.29	
For Up To 100, Add	2.24	
For >100 To 250, Add	1.06	
For >250 To 500, Add	0.46	
09 97 13 24-0034 SF Spray Small Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	1.32	
For Up To 100, Add	0.82	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
09 97 13 24-0035 SF Spray Large Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	1.01	
For Up To 100, Add	0.59	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
09 97 13 24-0036 SF Spray Tank Interior 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	2.47	
For Up To 100, Add	1.68	
For >100 To 250, Add	0.79	
For >250 To 500, Add	0.34	
09 97 13 24-0037 SF Brush Small Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	2.68	
For Up To 100, Add	1.78	
For >100 To 250, Add	0.84	
For >250 To 500, Add	0.36	
09 97 13 24-0038 SF Brush Large Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	2.00	
For Up To 100, Add	1.27	
For >100 To 250, Add	0.61	
For >250 To 500, Add	0.26	
09 97 13 24-0039 SF Brush Tank Interior 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	5.25	
For Up To 100, Add	3.71	
For >100 To 250, Add	1.74	
For >250 To 500, Add	0.75	
09 97 13 24-0040 SF Brush Small Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.00	
For Up To 100, Add	1.33	
For >100 To 250, Add	0.63	
For >250 To 500, Add	0.27	
09 97 13 24-0041 SF Brush Large Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	1.50	
For Up To 100, Add	0.96	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.20	
09 97 13 24-0042 SF Brush Tank Interior 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	3.93	
For Up To 100, Add	2.78	
For >100 To 250, Add	1.31	
For >250 To 500, Add	0.56	
09 97 13 24-0043 Touch-Up And Two 1.5 Mil Alkyd Finish Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0044 SF Spray Small Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	1.56	
For Up To 100, Add	1.01	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	
09 97 13 24-0045 SF Spray Large Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	1.33	
For Up To 100, Add	0.84	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.17	
09 97 13 24-0046 SF Spray Tank Interior Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	3.43	
For Up To 100, Add	2.41	
For >100 To 250, Add	1.13	
For >250 To 500, Add	0.49	
09 97 13 24-0047 SF Spray Small Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.00	
For Up To 100, Add	0.65	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
09 97 13 24-0048 SF Spray Large Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	0.84	
For Up To 100, Add	0.53	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
09 97 13 24-0049 SF Spray Tank Interior Touch-Up And One 1.5 Mil Alkyd Finish Coats.....	2.19	
For Up To 100, Add	1.54	
For >100 To 250, Add	0.72	
For >250 To 500, Add	0.31	
09 97 13 24-0050 SF Brush Small Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.24	
For Up To 100, Add	1.52	
For >100 To 250, Add	0.72	
For >250 To 500, Add	0.31	
09 97 13 24-0051 SF Brush Large Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	1.88	
For Up To 100, Add	1.25	
For >100 To 250, Add	0.59	
For >250 To 500, Add	0.26	

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09 97 13 24-0052	SF		Brush Tank Interior Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	5.44	
			<i>For Up To 100, Add</i>	3.98	
			<i>For >100 To 250, Add</i>	1.86	
			<i>For >250 To 500, Add</i>	0.80	
09 97 13 24-0053	SF		Brush Small Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.44	
			<i>For Up To 100, Add</i>	0.98	
			<i>For >100 To 250, Add</i>	0.46	
			<i>For >250 To 500, Add</i>	0.20	
09 97 13 24-0054	SF		Brush Large Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.20	
			<i>For Up To 100, Add</i>	0.80	
			<i>For >100 To 250, Add</i>	0.38	
			<i>For >250 To 500, Add</i>	0.16	
09 97 13 24-0055	SF		Brush Tank Interior Touch-Up And One 1.5 Mil Alkyd Finish Coats.....	3.55	
			<i>For Up To 100, Add</i>	2.56	
			<i>For >100 To 250, Add</i>	1.20	
			<i>For >250 To 500, Add</i>	0.52	
09 97 13 24-0056 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats For Tanks <small>(09 97 13 24-0022)</small>					
09 97 13 24-0057	SF		Spray Small Vessel/Tank 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	2.22	
			<i>For Up To 100, Add</i>	1.21	
			<i>For >100 To 250, Add</i>	0.59	
			<i>For >250 To 500, Add</i>	0.26	
09 97 13 24-0058	SF		Spray Large Vessel/Tank 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	1.89	
			<i>For Up To 100, Add</i>	0.96	
			<i>For >100 To 250, Add</i>	0.47	
			<i>For >250 To 500, Add</i>	0.21	
09 97 13 24-0059	SF		Spray Small Vessel/Tank Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	1.55	
			<i>For Up To 100, Add</i>	0.84	
			<i>For >100 To 250, Add</i>	0.41	
			<i>For >250 To 500, Add</i>	0.18	
09 97 13 24-0060	SF		Spray Large Vessel/Tank Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	1.33	
			<i>For Up To 100, Add</i>	0.68	
			<i>For >100 To 250, Add</i>	0.33	
			<i>For >250 To 500, Add</i>	0.15	
09 97 13 24-0061 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats For Tanks <small>(09 97 13 24-0022)</small>					
09 97 13 24-0062	SF		Spray Small Vessel/Tank 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats.....	2.43	
			<i>For Up To 100, Add</i>	1.24	
			<i>For >100 To 250, Add</i>	0.61	
			<i>For >250 To 500, Add</i>	0.27	
09 97 13 24-0063	SF		Spray Large Vessel/Tank 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats.....	2.10	
			<i>For Up To 100, Add</i>	0.99	
			<i>For >100 To 250, Add</i>	0.49	
			<i>For >250 To 500, Add</i>	0.22	
09 97 13 24-0064	SF		Spray Small Vessel/Tank Two 6 Mil High Build Epoxy Finish Coats.....	1.99	
			<i>For Up To 100, Add</i>	1.01	
			<i>For >100 To 250, Add</i>	0.50	
			<i>For >250 To 500, Add</i>	0.22	
09 97 13 24-0065	SF		Spray Large Vessel/Tank Two 6 Mil High Build Epoxy Finish Coats.....	1.73	
			<i>For Up To 100, Add</i>	0.82	
			<i>For >100 To 250, Add</i>	0.41	
			<i>For >250 To 500, Add</i>	0.18	
09 97 13 24-0066 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats For Tanks <small>(09 97 13 24-0022)</small>					
09 97 13 24-0067	SF		Spray Small Vessel/Tank 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	5.89	
			<i>For Up To 100, Add</i>	3.31	
			<i>For >100 To 250, Add</i>	1.60	
			<i>For >250 To 500, Add</i>	0.70	
09 97 13 24-0068	SF		Spray Large Vessel/Tank 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	5.40	
			<i>For Up To 100, Add</i>	2.95	
			<i>For >100 To 250, Add</i>	1.43	
			<i>For >250 To 500, Add</i>	0.63	
09 97 13 24-0069	SF		Spray Tank Interior 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	9.13	
			<i>For Up To 100, Add</i>	5.74	
			<i>For >100 To 250, Add</i>	2.74	
			<i>For >250 To 500, Add</i>	1.19	
09 97 13 24-0070 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats For Tanks <small>(09 97 13 24-0022)</small>					
09 97 13 24-0071	SF		Spray Small Vessel/Tank 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	3.04	
			<i>For Up To 100, Add</i>	1.54	
			<i>For >100 To 250, Add</i>	0.76	
			<i>For >250 To 500, Add</i>	0.33	
09 97 13 24-0072	SF		Spray Large Vessel/Tank 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	2.69	
			<i>For Up To 100, Add</i>	1.28	
			<i>For >100 To 250, Add</i>	0.63	
			<i>For >250 To 500, Add</i>	0.28	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0073 SF Spray Tank Interior 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	4.63	
For Up To 100, Add	2.73	
For >100 To 250, Add	1.31	
For >250 To 500, Add	0.57	
09 97 13 24-0074 SF Spray Small Vessel/Tank Two 4 Mil High Build Vinyl Finish Coats	2.41	
For Up To 100, Add	1.22	
For >100 To 250, Add	0.60	
For >250 To 500, Add	0.26	
09 97 13 24-0075 SF Spray Large Vessel/Tank Two 4 Mil High Build Vinyl Finish Coats	2.13	
For Up To 100, Add	1.01	
For >100 To 250, Add	0.50	
For >250 To 500, Add	0.22	
09 97 13 24-0076 SF Spray Tank Interior Two 4 Mil High Build Vinyl Finish Coats	3.66	
For Up To 100, Add	2.16	
For >100 To 250, Add	1.04	
For >250 To 500, Add	0.45	
09 97 13 24-0077 Two 8 Mil Coal Tar Epoxy Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0078 SF Spray Small Vessel/Tank Two 8 Mil Coal Tar Epoxy Coats	2.80	
For Up To 100, Add	1.68	
For >100 To 250, Add	0.81	
For >250 To 500, Add	0.35	
09 97 13 24-0079 SF Spray Large Vessel/Tank Two 8 Mil Coal Tar Epoxy Coats	2.32	
For Up To 100, Add	1.32	
For >100 To 250, Add	0.64	
For >250 To 500, Add	0.28	
09 97 13 24-0080 SF Spray Tank Interior Two 8 Mil Coal Tar Epoxy Coats	3.61	
For Up To 100, Add	2.29	
For >100 To 250, Add	1.09	
For >250 To 500, Add	0.47	
09 97 13 24-0081 One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat For Tanks (09 97 13 24-0022)		
09 97 13 24-0082 SF Spray Small Vessel/Tank One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat	1.93	
For Up To 100, Add	1.12	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.23	
09 97 13 24-0083 SF Spray Large Vessel/Tank One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat	1.76	
For Up To 100, Add	0.99	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	
09 97 13 24-0084 SF Spray Tank Interior One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat	2.98	
For Up To 100, Add	1.91	
For >100 To 250, Add	0.91	
For >250 To 500, Add	0.39	
09 97 13 24-0085 Two 6 Mil High Build Epoxy Finish Coats For Tanks Interior (09 97 13 24-0022)		
09 97 13 24-0086 SF Spray Small Tank Interior Two 6 Mil High Build Epoxy Finish Coats	4.27	
For Up To 100, Add	2.58	
For >100 To 250, Add	1.24	
For >250 To 500, Add	0.54	
09 97 13 24-0087 SF Spray Large Tank Interior Two 6 Mil High Build Epoxy Finish Coats	2.56	
For Up To 100, Add	1.36	
For >100 To 250, Add	0.66	
For >250 To 500, Add	0.29	
09 97 13 24-0088 One 3 Mil High Zinc Silicate Coat For Tanks (09 97 13 24-0022)		
09 97 13 24-0089 SF Spray Small Vessel/Tank One 3 Mil High Zinc Silicate Coat	1.21	
For Up To 100, Add	0.57	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.13	
09 97 13 24-0090 SF Spray Large Vessel/Tank One 3 Mil High Zinc Silicate Coat	1.17	
For Up To 100, Add	0.54	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
09 97 13 24-0091 SF Spray Tank Interior One 3 Mil High Zinc Silicate Coat	1.94	
For Up To 100, Add	1.12	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.24	
09 97 13 24-0092 Two 1.5 Mil Vinyl Enamel Finish Coats For Tanks (09 97 13 24-0022)		
Note: Installed over existing primer.		
09 97 13 24-0093 SF Spray Small Vessel/Tank Two 1.5 Mil Vinyl Enamel Finish Coats	2.02	
For Up To 100, Add	1.13	
For >100 To 250, Add	0.55	
For >250 To 500, Add	0.24	

09 Finishes**09 90 Painting and Coating****09 97 Special Coatings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0094	SF		Spray Large Vessel/Tank Two 1.5 Mil Vinyl Enamel Finish Coats	1.77	
			<i>For Up To 100, Add</i>	0.94	
			<i>For >100 To 250, Add</i>	0.46	
			<i>For >250 To 500, Add</i>	0.20	
09 97 13 24-0095	SF		Spray Tank Interior Two 1.5 Mil Vinyl Enamel Finish Coats.....	2.83	
			<i>For Up To 100, Add</i>	1.74	
			<i>For >100 To 250, Add</i>	0.83	
			<i>For >250 To 500, Add</i>	0.36	
09 97 13 24-0096			One 1 Mil Primer And 95 Mil Hot Coal Tar Enamel Finish Coat For Tanks ⁽⁰⁹		
			^{97 13 24-0022)}		
09 97 13 24-0097	SF		Spray/Mop Large Vessel/Tank One 1 Mil Primer And 95 Mil Hot Coal Tar Enamel Finish Coat.....	7.47	
			<i>For Up To 100, Add</i>	4.81	
			<i>For >100 To 250, Add</i>	2.28	
			<i>For >250 To 500, Add</i>	0.99	
09 97 26			Cementitious Coatings ^(09 97)		
09 97 26 13			Interior Cementitious Coatings ^(09 97 26)		
09 97 26 13-0001			Ceramic-Like Glazed Coating ^(09 97 26 13)		
09 97 26 13-0002			Ceramic-Like Glazed Coating, Cementitious ^(09 97 26 13-0001)		
09 97 26 13-0003	SF		Ceramic-like Glazed Coating. - Cementitious	2.97	
09 97 26 13-0004			Ceramic-Like Glazed Coating, Resin Base ^(09 97 26 13-0001)		
09 97 26 13-0005	SF		Ceramic-like Glazed Coating - Resin	2.48	
09 97 63			Special Coatings and Protection Systems ^(09 97)		
09 97 63 00-0001			Acrylic Glazed Coating ^(09 97 63)		
09 97 63 00-0002	SF		Acrylic Glazed Coating.....	1.92	

END OF SECTION 09



Specialties	10	10
Information Specialties	10 10	
Signage	10 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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10 Specialties

10 10 Information Specialties ⁽¹⁰⁾

10 14 Signage ^(10 10)

Note: Where required, signage excludes electrical connection, disconnect, or terminations unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection wiring, 26 05 83 00-0130 for terminations.

10 14 53 Traffic Signage ^(10 14)

10 14 53 11 Traffic Signage ^(10 14 53)

10 14 53 11-0001 Traffic Signs (Monterey County) ^(10 14 53 11)

10 14 53 11-0002	EA	Roadside Sign-One Post (Monterey County).....	336.49		23.20
10 14 53 11-0003	EA	Install Roadside Sign Panel On Existing Post (Monterey County).....	169.22		

10 14 53 11-0004 Traffic Signs ^(10 14 53 11)

10 14 53 11-0005 Reflectorized Stop Signs And Other Traffic Signs ^(10 14 53 11-0004)

Note: Excludes posts.

10 14 53 11-0006 Aluminum Engineer Grade Stop Signs ^(10 14 53 11-0005)

10 14 53 11-0007	EA	18" x 18" Aluminum Engineer Grade Stop Sign	60.03		16.97
		<i>For Hi-Intensity Grade, Add</i>	7.83		
		<i>For Diamond Grade, Add</i>	14.88		
10 14 53 11-0008	EA	18" x 24" Aluminum Engineer Grade Stop Sign	69.95		17.94
		<i>For Hi-Intensity Grade, Add</i>	10.24		
		<i>For Diamond Grade, Add</i>	19.45		
10 14 53 11-0009	EA	24" x 24" Aluminum Engineer Grade Stop Sign	75.86		18.85
		<i>For Hi-Intensity Grade, Add</i>	15.64		
		<i>For Diamond Grade, Add</i>	24.80		
10 14 53 11-0010	EA	30" x 30" Aluminum Engineer Grade Stop Sign	88.44		19.83
		<i>For Hi-Intensity Grade, Add</i>	5.86		
		<i>For Diamond Grade, Add</i>	31.75		
10 14 53 11-0011	EA	36" x 36" Aluminum Engineer Grade Stop Sign	119.77		20.74
		<i>For Hi-Intensity Grade, Add</i>	17.23		
		<i>For Diamond Grade, Add</i>	54.03		

10 14 53 11-0012 Other Reflectorized Traffic Signs ^(10 14 53 11-0005)

Note: Other traffic signs includes reserve, handicap, visitor, no parking, property, speed limit, tow away, ADA, parking time limit, parking exclusive area, school, traffic/caution, etc. Excludes posts.

10 14 53 11-0013 Aluminum Engineer Grade Traffic Signs ^(10 14 53 11-0012)

10 14 53 11-0014	EA	6" x 12" Aluminum Engineer Grade Traffic Sign	36.64		15.08
		<i>For Hi-Intensity Grade, Add</i>	1.94		
10 14 53 11-0015	EA	6" x 18" Aluminum Engineer Grade Traffic Sign	39.87		15.08
		<i>For Hi-Intensity Grade, Add</i>	2.91		
10 14 53 11-0016	EA	9" x 12" Aluminum Engineer Grade Traffic Sign	39.87		15.08
		<i>For Hi-Intensity Grade, Add</i>	2.91		
10 14 53 11-0017	EA	9" x 15" Aluminum Engineer Grade Traffic Sign	42.29		15.08
		<i>For Hi-Intensity Grade, Add</i>	3.64		
10 14 53 11-0018	EA	9" x 18" Aluminum Engineer Grade Traffic Sign	44.72		15.08
		<i>For Hi-Intensity Grade, Add</i>	4.37		
10 14 53 11-0019	EA	9" x 24" Aluminum Engineer Grade Traffic Sign	51.44		16.03
		<i>For Hi-Intensity Grade, Add</i>	5.82		
10 14 53 11-0020	EA	9" x 48" Aluminum Engineer Grade Traffic Sign	70.83		16.03
		<i>For Hi-Intensity Grade, Add</i>	11.64		
10 14 53 11-0021	EA	12" x 12" Aluminum Engineer Grade Traffic Sign	43.10		15.08
		<i>For Hi-Intensity Grade, Add</i>	3.88		
10 14 53 11-0022	EA	12" x 18" Aluminum Engineer Grade Traffic Sign	51.44		16.03
		<i>For Hi-Intensity Grade, Add</i>	5.82		
10 14 53 11-0023	EA	12" x 24" Aluminum Engineer Grade Traffic Sign	57.90		16.03
		<i>For Hi-Intensity Grade, Add</i>	7.76		
10 14 53 11-0024	EA	12" x 30" Aluminum Engineer Grade Traffic Sign	64.37		16.03
		<i>For Hi-Intensity Grade, Add</i>	9.70		
10 14 53 11-0025	EA	12" x 36" Aluminum Engineer Grade Traffic Sign	70.83		16.03
		<i>For Hi-Intensity Grade, Add</i>	11.64		
10 14 53 11-0026	EA	18" x 18" Aluminum Engineer Grade Traffic Sign	61.14		16.03
		<i>For Hi-Intensity Grade, Add</i>	8.73		
10 14 53 11-0027	EA	18" x 24" Aluminum Engineer Grade Traffic Sign	70.83		16.03
		<i>For Hi-Intensity Grade, Add</i>	11.64		
10 14 53 11-0028	EA	18" x 30" Aluminum Engineer Grade Traffic Sign	82.42		16.97
		<i>For Hi-Intensity Grade, Add</i>	14.55		
10 14 53 11-0029	EA	18" x 36" Aluminum Engineer Grade Traffic Sign	92.12		16.97
		<i>For Hi-Intensity Grade, Add</i>	17.46		
10 14 53 11-0030	EA	18" x 48" Aluminum Engineer Grade Traffic Sign	119.06		20.74
		<i>For Hi-Intensity Grade, Add</i>	23.28		
10 14 53 11-0031	EA	18" x 54" Aluminum Engineer Grade Traffic Sign	128.76		20.74
		<i>For Hi-Intensity Grade, Add</i>	26.19		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0032 EA 24" x 24" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	85.65 15.52	16.97
10 14 53 11-0033 EA 24" x 30" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	98.59 19.40	16.97
10 14 53 11-0034 EA 24" x 36" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	111.52 23.28	16.97
10 14 53 11-0035 EA 24" x 42" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	131.99 27.16	20.74
10 14 53 11-0036 EA 24" x 48" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	144.92 31.04	20.74
10 14 53 11-0037 EA 24" x 54" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	157.85 34.91	20.74
10 14 53 11-0038 EA 24" x 60" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	170.78 38.79	20.74
10 14 53 11-0039 EA 30" x 30" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	114.75 24.25	16.97
10 14 53 11-0040 EA 30" x 36" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	138.45 29.09	20.74
10 14 53 11-0041 EA 30" x 42" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	154.62 33.95	20.74
10 14 53 11-0042 EA 30" x 48" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	178.32 38.79	24.51
10 14 53 11-0043 EA 30" x 60" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	218.20 48.49	28.28
10 14 53 11-0044 EA 36" x 36" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	157.85 34.91	20.74
10 14 53 11-0045 EA 36" x 42" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	184.79 40.73	24.51
10 14 53 11-0046 EA 36" x 48" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	211.73 46.55	28.28
10 14 53 11-0047 EA 36" x 54" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	231.13 52.37	28.28
10 14 53 11-0048 EA 36" x 60" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	258.07 58.19	32.04
10 14 53 11-0049 EA 36" x 73" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	307.63 70.80	35.82
10 14 53 11-0050 EA 36" x 78" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	323.80 75.65	35.82
10 14 53 11-0051 EA 36" x 108" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	432.09 104.74	41.47
10 14 53 11-0052 EA 42" x 42" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	214.97 47.52	28.28
10 14 53 11-0053 EA 48" x 48" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	271.00 62.07	32.04
10 14 53 11-0054 EA 48" x 54" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	304.40 69.83	35.82
10 14 53 11-0055 EA 48" x 60" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	330.26 77.59	35.82
10 14 53 11-0056 EA 48" x 66" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	367.44 85.35	41.47
10 14 53 11-0057 EA 48" x 72" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	393.30 93.11	41.47
10 14 53 11-0058 EA 48" x 84" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	452.56 108.62	45.25
10 14 53 11-0059 EA 48" x 96" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	504.29 124.14	45.25
10 14 53 11-0060 EA 48" x 102" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	530.15 131.90	45.25
10 14 53 11-0061 EA 48" x 108" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	559.78 139.66	47.13
10 14 53 11-0062 EA 60" x 72" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	478.43 116.38	45.25
10 14 53 11-0063 EA 72" x 144" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	1,051.69 279.31	60.33
10 14 53 11-0064 EA 78" x 96" Aluminum Engineer Grade Traffic Sign..... <i>For Hi-Intensity Grade, Add</i>	766.68 201.73	47.13
10 14 53 11-0065 Non-Reflectorized Traffic Signs <small>(10 14 53 11-0004)</small> Note: Includes reserved parking, handicap parking, visitor parking, no parking, tow away zones, etc. Excludes posts.		
10 14 53 11-0066 Steel Non-Reflectorized Traffic Signs <small>(10 14 53 11-0065)</small>		
10 14 53 11-0067 EA 6" x 12" Steel Non Reflectorized Traffic Sign	35.76	15.08
10 14 53 11-0068 EA 6" x 18" Steel Non Reflectorized Traffic Sign	38.55	15.08
10 14 53 11-0069 EA 9" x 12" Steel Non Reflectorized Traffic Sign	38.55	15.08
10 14 53 11-0070 EA 9" x 15" Steel Non Reflectorized Traffic Sign	40.65	15.08
10 14 53 11-0071 EA 9" x 18" Steel Non Reflectorized Traffic Sign	42.75	15.08
10 14 53 11-0072 EA 9" x 24" Steel Non Reflectorized Traffic Sign	48.81	16.03
10 14 53 11-0073 EA 9" x 48" Steel Non Reflectorized Traffic Sign	65.58	16.03
10 14 53 11-0074 EA 12" x 12" Steel Non Reflectorized Traffic Sign	41.35	15.08
10 14 53 11-0075 EA 12" x 18" Steel Non Reflectorized Traffic Sign	48.81	16.03
10 14 53 11-0076 EA 12" x 24" Steel Non Reflectorized Traffic Sign	54.40	16.03
10 14 53 11-0077 EA 12" x 30" Steel Non Reflectorized Traffic Sign	59.99	16.03



Specialties	10
Information Specialties	10 10
Signage	10 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0078 EA 12" x 36" Steel Non ReflectORIZED Traffic Sign.....	65.58	16.03
10 14 53 11-0079 EA 18" x 18" Steel Non ReflectORIZED Traffic Sign.....	57.19	16.03
10 14 53 11-0080 EA 18" x 24" Steel Non ReflectORIZED Traffic Sign.....	65.58	16.03
10 14 53 11-0081 EA 18" x 30" Steel Non ReflectORIZED Traffic Sign.....	75.85	16.97
10 14 53 11-0082 EA 18" x 36" Steel Non ReflectORIZED Traffic Sign.....	84.24	16.97
10 14 53 11-0083 EA 18" x 48" Steel Non ReflectORIZED Traffic Sign.....	108.54	20.74
10 14 53 11-0084 EA 18" x 54" Steel Non ReflectORIZED Traffic Sign.....	116.93	20.74
10 14 53 11-0085 EA 24" x 24" Steel Non ReflectORIZED Traffic Sign.....	78.65	16.97
10 14 53 11-0086 EA 24" x 30" Steel Non ReflectORIZED Traffic Sign.....	89.82	16.97
10 14 53 11-0087 EA 24" x 36" Steel Non ReflectORIZED Traffic Sign.....	101.00	16.97
10 14 53 11-0088 EA 24" x 42" Steel Non ReflectORIZED Traffic Sign.....	119.72	20.74
10 14 53 11-0089 EA 24" x 48" Steel Non ReflectORIZED Traffic Sign.....	130.90	20.74
10 14 53 11-0090 EA 24" x 54" Steel Non ReflectORIZED Traffic Sign.....	142.08	20.74
10 14 53 11-0091 EA 24" x 60" Steel Non ReflectORIZED Traffic Sign.....	153.26	20.74
10 14 53 11-0092 EA 30" x 30" Steel Non ReflectORIZED Traffic Sign.....	103.80	16.97
10 14 53 11-0093 EA 30" x 36" Steel Non ReflectORIZED Traffic Sign.....	125.31	20.74
10 14 53 11-0094 EA 30" x 42" Steel Non ReflectORIZED Traffic Sign.....	139.29	20.74
10 14 53 11-0095 EA 30" x 48" Steel Non ReflectORIZED Traffic Sign.....	160.80	24.51
10 14 53 11-0096 EA 30" x 60" Steel Non ReflectORIZED Traffic Sign.....	196.30	28.28
10 14 53 11-0097 EA 36" x 36" Steel Non ReflectORIZED Traffic Sign.....	142.08	20.74
10 14 53 11-0098 EA 36" x 42" Steel Non ReflectORIZED Traffic Sign.....	166.39	24.51
10 14 53 11-0099 EA 36" x 48" Steel Non ReflectORIZED Traffic Sign.....	190.71	28.28
10 14 53 11-0100 EA 36" x 54" Steel Non ReflectORIZED Traffic Sign.....	207.48	28.28
10 14 53 11-0101 EA 36" x 60" Steel Non ReflectORIZED Traffic Sign.....	231.78	32.04
10 14 53 11-0102 EA 36" x 73" Steel Non ReflectORIZED Traffic Sign.....	275.66	35.82
10 14 53 11-0103 EA 36" x 78" Steel Non ReflectORIZED Traffic Sign.....	289.63	35.82
10 14 53 11-0104 EA 36" x 108" Steel Non ReflectORIZED Traffic Sign.....	384.78	41.47
10 14 53 11-0105 EA 42" x 42" Steel Non ReflectORIZED Traffic Sign.....	193.50	28.28
10 14 53 11-0106 EA 48" x 48" Steel Non ReflectORIZED Traffic Sign.....	242.96	32.04
10 14 53 11-0107 EA 48" x 54" Steel Non ReflectORIZED Traffic Sign.....	272.86	35.82
10 14 53 11-0108 EA 48" x 60" Steel Non ReflectORIZED Traffic Sign.....	295.22	35.82
10 14 53 11-0109 EA 48" x 66" Steel Non ReflectORIZED Traffic Sign.....	328.89	41.47
10 14 53 11-0110 EA 48" x 72" Steel Non ReflectORIZED Traffic Sign.....	351.25	41.47
10 14 53 11-0111 EA 48" x 84" Steel Non ReflectORIZED Traffic Sign.....	403.50	45.25
10 14 53 11-0112 EA 48" x 96" Steel Non ReflectORIZED Traffic Sign.....	448.22	45.25
10 14 53 11-0113 EA 48" x 102" Steel Non ReflectORIZED Traffic Sign.....	470.58	45.25
10 14 53 11-0114 EA 48" x 108" Steel Non ReflectORIZED Traffic Sign.....	496.70	47.13
10 14 53 11-0115 EA 60" x 72" Steel Non ReflectORIZED Traffic Sign.....	425.86	45.25
10 14 53 11-0116 EA 72" x 144" Steel Non ReflectORIZED Traffic Sign.....	925.54	60.33
10 14 53 11-0117 EA 78" x 96" Steel Non ReflectORIZED Traffic Sign.....	675.57	47.13
10 14 53 11-0118 Aluminum Non-ReflectORIZED Traffic Signs (10 14 53 11-0065)		
10 14 53 11-0119 EA 6" x 12" Aluminum Non ReflectORIZED Traffic Sign.....	35.99	15.08
10 14 53 11-0120 EA 6" x 18" Aluminum Non ReflectORIZED Traffic Sign.....	38.90	15.08
10 14 53 11-0121 EA 9" x 12" Aluminum Non ReflectORIZED Traffic Sign.....	38.90	15.08
10 14 53 11-0122 EA 9" x 15" Aluminum Non ReflectORIZED Traffic Sign.....	41.08	15.08
10 14 53 11-0123 EA 9" x 18" Aluminum Non ReflectORIZED Traffic Sign.....	43.26	15.08
10 14 53 11-0124 EA 9" x 24" Aluminum Non ReflectORIZED Traffic Sign.....	49.49	16.03
10 14 53 11-0125 EA 9" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	66.94	16.03
10 14 53 11-0126 EA 12" x 12" Aluminum Non ReflectORIZED Traffic Sign.....	41.80	15.08
10 14 53 11-0127 EA 12" x 18" Aluminum Non ReflectORIZED Traffic Sign.....	49.49	16.03
10 14 53 11-0128 EA 12" x 24" Aluminum Non ReflectORIZED Traffic Sign.....	55.31	16.03
10 14 53 11-0129 EA 12" x 30" Aluminum Non ReflectORIZED Traffic Sign.....	61.13	16.03
10 14 53 11-0130 EA 12" x 36" Aluminum Non ReflectORIZED Traffic Sign.....	66.94	16.03
10 14 53 11-0131 EA 18" x 18" Aluminum Non ReflectORIZED Traffic Sign.....	58.22	16.03
10 14 53 11-0132 EA 18" x 24" Aluminum Non ReflectORIZED Traffic Sign.....	66.94	16.03
10 14 53 11-0133 EA 18" x 30" Aluminum Non ReflectORIZED Traffic Sign.....	77.56	16.97
10 14 53 11-0134 EA 18" x 36" Aluminum Non ReflectORIZED Traffic Sign.....	86.29	16.97
10 14 53 11-0135 EA 18" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	111.28	20.74
10 14 53 11-0136 EA 18" x 54" Aluminum Non ReflectORIZED Traffic Sign.....	120.00	20.74
10 14 53 11-0137 EA 24" x 24" Aluminum Non ReflectORIZED Traffic Sign.....	80.47	16.97
10 14 53 11-0138 EA 24" x 30" Aluminum Non ReflectORIZED Traffic Sign.....	92.10	16.97
10 14 53 11-0139 EA 24" x 36" Aluminum Non ReflectORIZED Traffic Sign.....	103.74	16.97
10 14 53 11-0140 EA 24" x 42" Aluminum Non ReflectORIZED Traffic Sign.....	122.91	20.74
10 14 53 11-0141 EA 24" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	134.55	20.74
10 14 53 11-0142 EA 24" x 54" Aluminum Non ReflectORIZED Traffic Sign.....	146.18	20.74
10 14 53 11-0143 EA 24" x 60" Aluminum Non ReflectORIZED Traffic Sign.....	157.82	20.74
10 14 53 11-0144 EA 30" x 30" Aluminum Non ReflectORIZED Traffic Sign.....	106.65	16.97
10 14 53 11-0145 EA 30" x 36" Aluminum Non ReflectORIZED Traffic Sign.....	128.73	20.74
10 14 53 11-0146 EA 30" x 42" Aluminum Non ReflectORIZED Traffic Sign.....	143.27	20.74
10 14 53 11-0147 EA 30" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	165.36	24.51
10 14 53 11-0148 EA 30" x 60" Aluminum Non ReflectORIZED Traffic Sign.....	201.99	28.28
10 14 53 11-0149 EA 36" x 36" Aluminum Non ReflectORIZED Traffic Sign.....	146.18	20.74
10 14 53 11-0150 EA 36" x 42" Aluminum Non ReflectORIZED Traffic Sign.....	171.17	24.51
10 14 53 11-0151 EA 36" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	196.17	28.28
10 14 53 11-0152 EA 36" x 54" Aluminum Non ReflectORIZED Traffic Sign.....	213.63	28.28
10 14 53 11-0153 EA 36" x 60" Aluminum Non ReflectORIZED Traffic Sign.....	238.62	32.04
10 14 53 11-0154 EA 36" x 73" Aluminum Non ReflectORIZED Traffic Sign.....	283.97	35.82
10 14 53 11-0155 EA 36" x 78" Aluminum Non ReflectORIZED Traffic Sign.....	298.51	35.82
10 14 53 11-0156 EA 36" x 108" Aluminum Non ReflectORIZED Traffic Sign.....	397.08	41.47



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0157 EA 42" x 42" Aluminum Non Reflectorized Traffic Sign	199.08	28.28
10 14 53 11-0158 EA 48" x 48" Aluminum Non Reflectorized Traffic Sign	250.25	32.04
10 14 53 11-0159 EA 48" x 54" Aluminum Non Reflectorized Traffic Sign	281.06	35.82
10 14 53 11-0160 EA 48" x 60" Aluminum Non Reflectorized Traffic Sign	304.33	35.82
10 14 53 11-0161 EA 48" x 66" Aluminum Non Reflectorized Traffic Sign	338.91	41.47
10 14 53 11-0162 EA 48" x 72" Aluminum Non Reflectorized Traffic Sign	362.18	41.47
10 14 53 11-0163 EA 48" x 84" Aluminum Non Reflectorized Traffic Sign	416.26	45.25
10 14 53 11-0164 EA 48" x 96" Aluminum Non Reflectorized Traffic Sign	462.80	45.25
10 14 53 11-0165 EA 48" x 102" Aluminum Non Reflectorized Traffic Sign	486.06	45.25
10 14 53 11-0166 EA 48" x 108" Aluminum Non Reflectorized Traffic Sign	513.10	47.13
10 14 53 11-0167 EA 60" x 72" Aluminum Non Reflectorized Traffic Sign	439.53	45.25
10 14 53 11-0168 EA 72" x 144" Aluminum Non Reflectorized Traffic Sign	958.34	60.33
10 14 53 11-0169 EA 78" x 96" Aluminum Non Reflectorized Traffic Sign	699.26	47.13
10 14 53 11-0170 Aluminum Street Signs (10 14 53 11-0004) Note: Excludes posts.		
10 14 53 11-0171 Aluminum Engineer Grade Street Signs (10 14 53 11-0170)		
10 14 53 11-0172 EA 6" High, Aluminum Engineer Grade Street Sign.....	68.55	7.54
10 14 53 11-0173 EA 8" High, Aluminum Engineer Grade Street Sign.....	77.99	7.54
10 14 53 11-0174 EA 9" High, Aluminum Engineer Grade Street Sign.....	85.02	7.54
10 14 53 11-0175 Street Sign Accessories (10 14 53 11-0170)		
10 14 53 11-0176 EA Single Bracket And Post Cap For Street Sign.....	20.40	3.77
10 14 53 11-0177 EA Double Bracket And Post Cap For Street Sign	20.40	3.77
10 14 53 11-0178 Sign Posts (10 14 53 11-0004) Note: Excludes sign. See CSI section 32 31 13 13-0001 for auguring of holes and backfill.		
10 14 53 11-0179 U-Channel Sign Posts (10 14 53 11-0178) Note: Excludes digging and concrete.		
10 14 53 11-0180 Baked Enamel U-Channel Sign Posts (10 14 53 11-0179)		
10 14 53 11-0181 EA 3' To 4' Baked Enamel U-Channel Sign Post Base.....	53.25	15.46
10 14 53 11-0182 EA 6' Baked Enamel U-Channel Sign Post.....	70.04	19.32
10 14 53 11-0183 EA 7' Baked Enamel U-Channel Sign Post.....	83.61	23.20
10 14 53 11-0184 EA 8' Baked Enamel U-Channel Sign Post.....	97.91	27.06
10 14 53 11-0185 EA 10' Baked Enamel U-Channel Sign Post.....	118.12	32.85
10 14 53 11-0186 EA 12' Baked Enamel U-Channel Sign Post.....	121.69	32.85
10 14 53 11-0187 Galvanized Steel U-Channel Sign Posts (10 14 53 11-0179)		
10 14 53 11-0188 EA 3' To 4' Galvanized Steel U-Channel Sign Post Base	57.85	15.46
10 14 53 11-0189 EA 6' Galvanized Steel U-Channel Sign Post.....	77.34	19.32
10 14 53 11-0190 EA 7' Galvanized Steel U-Channel Sign Post.....	100.12	23.20
10 14 53 11-0191 EA 8' Galvanized Steel U-Channel Sign Post.....	116.16	27.06
10 14 53 11-0192 EA 10' Galvanized Steel U-Channel Sign Post.....	131.40	32.85
10 14 53 11-0193 EA 12' Galvanized Steel U-Channel Sign Post.....	133.25	32.85
10 14 53 11-0194 Fiberglass Or Composite Plastic U-Channel Sign Posts (10 14 53 11-0179)		
10 14 53 11-0195 EA 3' To 4' Fiberglass Or Composite Plastic U-Channel Sign Post Base.....	52.16	15.46
10 14 53 11-0196 EA 6' Fiberglass Or Composite Plastic U-Channel Sign Post.....	67.68	19.32
10 14 53 11-0197 EA 7' Fiberglass Or Composite Plastic U-Channel Sign Post.....	80.76	23.20
10 14 53 11-0198 EA 8' Fiberglass Or Composite Plastic U-Channel Sign Post.....	94.52	27.06
10 14 53 11-0199 EA 10' Fiberglass Or Composite Plastic U-Channel Sign Post.....	111.96	32.85
10 14 53 11-0200 EA 12' Fiberglass Or Composite Plastic U-Channel Sign Post.....	118.04	32.85
10 14 53 11-0201 Tubular Sign Posts (10 14 53 11-0178) Note: Excludes digging and concrete.		
10 14 53 11-0202 2-3/8" Diameter, Galvanized Steel Tubular Sign Post (10 14 53 11-0201)		
10 14 53 11-0203 EA 6', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	78.10	19.32
10 14 53 11-0204 EA 7', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	92.63	23.20
10 14 53 11-0205 EA 8', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	109.47	27.06
10 14 53 11-0206 EA 10', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	141.39	32.85
10 14 53 11-0207 EA 12', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	153.93	32.85
10 14 53 11-0208 Square Sign Posts (10 14 53 11-0178) Note: Excludes digging and concrete.		
10 14 53 11-0209 Galvanized Steel Square Sign Posts (10 14 53 11-0208)		
10 14 53 11-0210 EA 3' To 4' Galvanized Steel Square Sign Post Base.....	58.87	15.46
10 14 53 11-0211 EA 6' Galvanized Steel Square Sign Post.....	94.63	19.32
10 14 53 11-0212 EA 7' Galvanized Steel Square Sign Post	110.88	23.20
10 14 53 11-0213 EA 8' Galvanized Steel Square Sign Post	129.33	27.06
10 14 53 11-0214 EA 10' Galvanized Steel Square Sign Post	157.97	32.85



Specialties	10	10
Information Specialties	10 10	
Signage	10 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0215 EA 12' Galvanized Steel Square Sign Post	166.71	32.85
10 14 53 11-0216 Other Sign Posts And Bases (10 14 53 11-0004) Note: For breakaway post systems, base posts are driven in, sign posts bolted to base post using lap splice hardware kit.		
10 14 53 11-0217 2.5 LB/FT Breakaway Sign Posts And Base Posts (10 14 53 11-0216)		
10 14 53 11-0218 Base Posts, 2.5 LB/LF, For Breakaway Sign Posts (10 14 53 11-0217)		
10 14 53 11-0219 EA Base Post for 2.5 LB/LF Breakaway Sign Post.....	73.19	18.85
10 14 53 11-0220 EA Lap Splice Hardware For 2.5 LB/LF Breakaway Sign Post.....	43.02	15.08
10 14 53 11-0221 Breakaway Sign Posts, 2.5 LB/LF (10 14 53 11-0217)		
10 14 53 11-0222 LF 2.5 LB/LF Breakaway Sign Post	8.78	1.89
10 14 53 11-0223 4 LB/FT Breakaway Sign Posts And Base Posts (10 14 53 11-0216)		
10 14 53 11-0224 Base Posts, 4 LB/LF, For Breakaway Sign Posts (10 14 53 11-0223)		
10 14 53 11-0225 EA Base Post For 4 LB/LF Breakaway Sign Post.....	76.30	22.62
10 14 53 11-0226 EA Lap Splice Hardware for 4 LB/LF Breakaway Sign Post.....	43.02	15.08
10 14 53 11-0227 Breakaway Sign Posts, 4 LB/LF (10 14 53 11-0223)		
10 14 53 11-0228 LF 4 LB/LF Breakaway Sign Post	10.71	1.89
10 14 53 11-0229 Driven Sign Posts (10 14 53 11-0216)		
10 14 53 11-0230 Driven Posts, 2.5 LB/LF (10 14 53 11-0229)		
10 14 53 11-0231 LF 2.5 LB/LF Driven Post.....	9.53	2.64
10 14 53 11-0232 Driven Posts, 4 LB/LF (10 14 53 11-0229)		
10 14 53 11-0233 LF 4 LB/LF Driven Post.....	11.83	3.01
10 14 53 11-0234 Omni-Directional Breakaway System For Sign Posts And Light Poles (10 14 53 11-0216)		
10 14 53 11-0235 Omni-Directional Breakaway Systems For Signs (10 14 53 11-0234) Note: Break-Safe as manufactured by Trampo Industries. Tasks are organized by post type and size. Includes hinges, anchors, all associated parts and drilling.		
10 14 53 11-0236 EA Omni-Directional Breakaway System For 6" To 8" Wide Flange (Trampo B525).....	1,002.71	
10 14 53 11-0237 EA Omni-Directional Breakaway System For 10" To 21" Wide Flange (Trampo B650).....	1,068.38	
10 14 53 11-0238 EA Omni-Directional Breakaway System For Standard I Beam Or W6x9 Flange (Trampo AI4 And AI6).....	732.46	
10 14 53 11-0239 EA Omni-Directional Breakaway System For 3" To 4.5" Outside Diameter Pipe (Trampo A3 And A4.5).....	641.53	
10 14 53 11-0240 EA Omni-Directional Breakaway System For Square Tube (Trampo AS3 And AS4).....	727.41	
10 14 53 11-0241 EA Omni-Directional Breakaway System For U-Channels (Trampo AU4 To AU6).....	692.05	
10 14 53 11-0242 EA Omni-Directional Breakaway System For U-Channels Embedded (Trampo AUX4 To AUX6).....	750.13	
10 14 53 11-0243 Omni-Directional Breakaway Systems For Poles (10 14 53 11-0234) Note: Pole-Safe as Manufactured by Trampo Industries. Tasks are organized by bolt size. Includes four couplings, all associated parts, drilling and can be for new or for retro-fitting existing poles.		
10 14 53 11-0244 EA Omni-Directional Breakaway System For Poles With 5/8" Couplings	343.41	
10 14 53 11-0245 EA Omni-Directional Breakaway System For Poles With 3/4" Couplings	360.02	
10 14 53 11-0246 EA Omni-Directional Breakaway System For Poles With 1" Couplings.....	373.86	
10 14 53 11-0247 EA Omni-Directional Breakaway System For Poles With 1 1/4" Couplings	567.72	
10 14 53 11-0248 EA Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 10" To Less Than 15".....	49.85	
10 14 53 11-0249 EA Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 15" To 20".....	66.46	
10 14 53 11-0250 Wood Posts (10 14 53 11-0216) Note: The quantity is the total length, including the buried portion. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
10 14 53 11-0251 LF 4" x 4" Pressure Treated Wood Sign Post	10.16	
10 14 53 11-0252 Sign Post Accessories (10 14 53 11-0004)		
10 14 53 11-0253 Sign Post Brackets (10 14 53 11-0252)		
10 14 53 11-0254 EA 2-3/8" Outside Diameter, Single Sign Bracket Set	26.75	5.65
10 14 53 11-0255 EA 2-3/8" Outside Diameter, Double Sign Bracket Set.....	48.41	9.43
10 14 53 11-0256 EA 10 cm - 37 cm Diameter, Buckle Bracket Set.....	41.84	7.54
10 14 53 11-0257 Sign Post Caps (10 14 53 11-0252)		
10 14 53 11-0258 EA Traffic Sign Post Cap	14.71	3.77

10	10	Specialties
	10 10	Information Specialties
	10 14	Signage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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10 14 53 11-0259	Sign Post Replacement Bolts <small>(10 14 53 11-0252)</small>		
10 14 53 11-0260	EA Signage Fasteners Replacement.....	9.96	
	Note: Includes two 5/16" x 2" long bolts, two 5/16" nuts And four 5/16" washers		
10 14 53 11-0261	Reflective Panels For "U" Channel Post <small>(10 14 53 11-0252)</small>		
10 14 53 11-0262	EA 3" x 72" Reflective Panel For "U-Channel" Post.....	54.31	
	Note: Diamond grade panel including mounting hardware.		
10 14 53 11-0263	Removal Of Signs <small>(10 14 53 11)</small>		
	Note: Includes structural supports.		
10 14 53 11-0264	EA >4 To 10 SF Sign Area, Sign Removal	150.82	
10 14 53 11-0265	EA >10 To 20 SF Sign Area, Sign Removal	361.96	
10 14 53 11-0266	EA >20 To 40 SF Sign Area, Sign Removal	542.93	
10 14 53 11-0267	EA >40 To 100 SF Sign Area, Sign Removal	910.54	
10 14 53 11-0268	Removal And Reinstallation Of Signs <small>(10 14 53 11)</small>		
	Note: Includes structural supports.		
10 14 53 11-0269	EA >4 To 10 SF Sign Area, Removal And Reinstallation Of Sign.....	230.24	
10 14 53 11-0270	EA >10 To 20 SF Sign Area, Removal And Reinstallation Of Sign.....	545.79	
10 14 53 11-0271	EA >20 SF To 40 SF Sign Area, Removal And Reinstallation Of Sign	816.84	
10 14 53 11-0272	EA >40 SF To 100 SF Sign Area, Removal And Reinstallation Of Sign	1,368.06	
10 14 53 11-0273	EA Removal And Reinstallation Of Street Sign On Post.....	86.72	
10 14 53 11-0274	EA Removal And Relocation Of Traffic Light	318.46	
	Note: Excludes electrical hookup.		

10 80 Other Specialties (10)

10 81 Pest Control Devices (10 80)

10 81 13 Bird Control Devices (10 81)

10 81 13 00-0001	Stainless Steel Spiked Bird Barrier <small>(10 81 13)</small>		
	Note: Stainless steel spikes with flexible polycarbonate base.		
10 81 13 00-0002	LF 2-1/2" To 3" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System	7.62	0.84
10 81 13 00-0003	LF 4-1/2" To 5" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System	9.20	0.84
10 81 13 00-0004	LF 8" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System	13.48	0.84
10 81 13 00-0005	Polycarbonate Spiked Bird Barrier <small>(10 81 13)</small>		
	Note: Polycarbonate spikes and base.		
10 81 13 00-0006	LF 3" Wide Polycarbonate Spikes And Base Bird Deterrent System	7.05	0.84
10 81 13 00-0007	LF 5" Wide Polycarbonate Spikes And Base Bird Deterrent System	8.54	0.84
10 81 13 00-0008	LF 8" Wide Polycarbonate Spikes And Base Bird Deterrent System	10.21	0.84
10 81 13 00-0009	Spiked Gutter Or Girder Bird Barrier <small>(10 81 13)</small>		
	Note: Stainless steel spikes with flexible polycarbonate base mounted to gutter or girder. Includes aluminum clamps.		
10 81 13 00-0010	LF Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System For Gutter Or Girder Application.....	8.00	0.84
10 81 13 00-0011	Coil Bird Barrier <small>(10 81 13)</small>		
	Note: Stainless steel coil.		
10 81 13 00-0012	LF 4" Diameter Stainless Steel Coil Bird Deterrent System	5.75	0.84
10 81 13 00-0013	LF 5" Diameter Stainless Steel Coil Bird Deterrent System	6.76	0.84
10 81 13 00-0014	Spider Bird Barrier <small>(10 81 13)</small>		
	Note: Stainless steel arms with various bases.		
10 81 13 00-0015	EA 2' Diameter Stainless Steel Spider Bird Deterrent System.....	103.99	0.84
10 81 13 00-0016	EA 4' Diameter Stainless Steel Spider Bird Deterrent System	151.92	0.84
10 81 13 00-0017	EA 8' Diameter Stainless Steel Spider Bird Deterrent System	190.35	0.84
10 81 13 00-0018	Oriented Flexible Flame-resistant Netting <small>(10 81 13)</small>		
	Note: Includes stainless steel rings and plastic ties.		
10 81 13 00-0019	SF 1/8" x 1/8" Mesh Flexible Polypropylene Netting.....	0.74	0.30
	Note: To control bird and marine predators.		
10 81 13 00-0020	SF 1/4" x 1/4" Mesh Flexible Polypropylene Netting	0.73	0.30
	Note: To control bird and marine predators.		
10 81 13 00-0021	SF 1/2" x 1/2" Mesh Flexible Polypropylene Netting	0.71	0.30
	Note: To control bird and marine predators.		
10 81 13 00-0022	SF 3/4" x 3/4" Mesh Flexible Polypropylene Netting	0.69	0.30
	Note: To control bird and marine predators.		
10 81 13 00-0023	SF 1" x 1" Mesh Flexible Polypropylene Netting.....	0.69	0.30
	Note: To control bird and marine predators.		



Specialties	10	10
Other Specialties	10 80	
Pest Control Devices	10 81	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 81 13 00-0024 SF 1-1/8" x 1-1/8" Mesh Flexible Polypropylene Netting Note: To control bird and marine predators.	0.68	0.30
10 81 13 00-0025 SF 2" x 2" Mesh Flexible Polypropylene Netting Note: To control bird and marine predators.	0.67	0.30
10 81 13 00-0026 SF 3" x 3" Mesh Flexible Polypropylene Netting Note: To control bird and marine predators.	0.67	0.30
10 81 13 00-0027 SF 4" x 4" Mesh Flexible Polypropylene Netting Note: To control bird and marine predators.	0.66	0.30
10 81 13 00-0028 SF 5/8" x 3/4" Mesh Flexible Polypropylene Netting Note: To control bird and marine predators.	0.70	0.30
10 81 13 00-0029 SF 1-1/4" x 1-1/2" Mesh Flexible Polypropylene Netting Note: To control bird and marine predators.	0.68	0.30
10 81 13 00-0030 EA Poly Clips For Flexible Netting	2.50	
10 81 13 00-0031 Netting Accessories (10 81 13)		
10 81 13 00-0032 EA 2' Zipper For Flexible Netting	6.29	
10 81 13 00-0033 EA 4' Zipper For Flexible Netting	9.48	
10 81 13 00-0034 EA 6' Zipper For Flexible Netting	11.15	
10 81 13 00-0035 EA 8' Zipper For Flexible Netting	15.85	
10 81 16 Insect Control Devices (10 81)		
10 81 16 00-0001 Insect Screening (10 81 16)		
10 81 16 00-0002 CSF 17/14 Mesh Insect Screening With Flat Screen Splines	99.04	

END OF SECTION 10

10	10	Specialties
	10 80	Other Specialties
	10 81	Pest Control Devices



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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Equipment	11	
Entertainment and Recreation Equipment	11 60	11
Play Field Equipment and Structures	11 68	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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11 Equipment

11 60 Entertainment and Recreation Equipment ⁽¹¹⁾

11 68 Play Field Equipment and Structures ^(11 60)

11 68 13 Playground Equipment ^(11 68)

See CSI section 32 31 13 13-0001 for augering holes and fill for posts.

11 68 13 00-0001	Standalone Playground Equipment ^(11 68 13)		
11 68 13 00-0002	Ground Socket For Movable Posts ^(11 68 13 00-0001)		
11 68 13 00-0003	PR Ground Socket For 2-3/8" Post For Playground Equipment.....	218.04	51.19
11 68 13 00-0004	PR Ground Socket For 3-1/2" Post For Playground Equipment.....	319.36	51.19
11 68 13 00-0005	See-Saws ^(11 68 13 00-0001)		
11 68 13 00-0006	Steel See-Saw ^(11 68 13 00-0005)		
11 68 13 00-0007	EA 2 Unit Steel See-Saw.....	1,771.58	315.04
11 68 13 00-0008	EA 4 Unit Steel See-Saw.....	2,791.89	372.29
11 68 13 00-0009	EA 6 Unit Steel See-Saw.....	3,836.67	455.04
11 68 13 00-0010	14' Long Laminated Beam ^(11 68 13 00-0005)		
11 68 13 00-0011	EA Beam Is Supported By Two 12 In x 12 In Stepping Column Posts.....	1,811.00	278.56
11 68 13 00-0012	EA Beam Is Supported By Two 8 In x 8 In Posts.....	1,277.85	248.15
11 68 13 00-0013	Slides ^(11 68 13 00-0001)		
11 68 13 00-0014	EA 8' Long x 4' High Slide With Stainless Steel Bed.....	1,876.55	360.24
11 68 13 00-0015	EA 12' Long x 6' High Slide With Stainless Steel Bed.....	2,648.72	511.92
11 68 13 00-0016	EA 16' Long x 8' High Slide With Stainless Steel Bed.....	2,935.32	568.80
11 68 13 00-0017	EA 20' Long x 10' High Slide With Stainless Steel Bed.....	3,602.33	630.08
11 68 13 00-0018	EA 6' High, 360 Degree One Piece Molded Polyethylene Slide.....	7,334.10	991.15
11 68 13 00-0019	EA 7' High, 360 Degree Slide, Stainless Steel Bed.....	10,117.66	1,022.48
11 68 13 00-0020	EA 9' High, 360 Degree Slide, Stainless Steel Bed.....	12,575.00	1,074.65
11 68 13 00-0021	Whirlers ^(11 68 13 00-0001)		
11 68 13 00-0022	EA 8' Diameter Whirler.....	4,675.64	682.56
11 68 13 00-0023	EA 10' Diameter Whirler.....	5,444.70	819.08
11 68 13 00-0024	Other Standalone Playground Equipment ^(11 68 13 00-0001)		
11 68 13 00-0025	Miscellaneous Standalone Playground Equipment ^(11 68 13 00-0024)		
11 68 13 00-0026	EA Horizontal Ladder.....	1,462.68	185.49
11 68 13 00-0027	EA Tether Ball Post.....	252.30	35.64
11 68 13 00-0028	PR 10'-6" Long Multiple Purpose Post.....	389.99	63.02
11 68 13 00-0029	EA 3-Person Fiberglass Golf Tee Shelter Turntable.....	2,707.49	178.07
11 68 13 00-0030	EA Horizontal Turning Bars, 1 Bar.....	480.77	96.79
11 68 13 00-0031	EA Horizontal Turning Bars, 2 Bars.....	643.25	115.69
11 68 13 00-0032	EA Horizontal Turning Bars, 3 Bars.....	866.51	154.24
11 68 13 00-0033	EA Horizontal Turning Bars, 5 Bars.....	1,261.19	212.09
11 68 13 00-0034	EA Top Goal Opening With 4 Exit Holes (One Each Side) And 8' Pole.....	1,262.20	88.31
11 68 13 00-0035	EA Top Goal Opening With 4 Exit Holes (One Each Side) And 10' Pole.....	1,388.85	95.33
11 68 13 00-0036	EA Coil Spring With Single Riding Aluminum Saddle Devices.....	1,362.85	102.19
11 68 13 00-0037	EA "C" Spring With Single Riding Aluminum Saddle Devices.....	1,357.96	87.92
11 68 13 00-0038	EA Rubber Spring With Single Riding Aluminum Saddle Devices.....	1,675.35	115.14
11 68 13 00-0039	EA Coil Spring Assembly Only.....	353.95	42.34
11 68 13 00-0040	EA "C" Spring Assembly Only.....	235.23	28.23
11 68 13 00-0041	EA Rubber Spring Assembly Only.....	219.62	55.06
11 68 13 00-0042	EA Footbuck Assembly Only.....	61.17	7.40
11 68 13 00-0043	EA Two Seat, Two Spring Action Cars (4'-8" x 2'-8").....	1,544.61	105.89
11 68 13 00-0044	Freestanding Panels ^(11 68 13 00-0024)		
Note: Rotomolded polyethylene.			
11 68 13 00-0045	EA Tic-Tac-Toe Panel.....	657.84	45.35
11 68 13 00-0046	EA 24" Bubble Panel.....	985.48	67.95
11 68 13 00-0047	EA Fire Engine Panel.....	1,446.21	99.72
11 68 13 00-0048	EA Flat Mirror Panel.....	1,156.98	79.82
11 68 13 00-0049	EA Wavy Mirror Panel.....	1,712.41	118.16
11 68 13 00-0050	EA Paint Time Panel.....	1,110.89	76.67
11 68 13 00-0051	EA Phone Time Panel.....	788.37	54.37
11 68 13 00-0052	EA Phone Time With Graphic Panel.....	788.37	54.37
11 68 13 00-0053	EA Race Time Panel.....	1,382.22	95.33
11 68 13 00-0054	EA Rescue 911 Panel.....	1,402.08	95.33

11 Equipment
11 60 Entertainment and Recreation Equipment
11 68 Play Field Equipment and Structures



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 68 13 00-0055	EA		Eastern/Central/Western States Panel.....	755.10	52.06
11 68 13 00-0056	EA		Career People Panel.....	857.48	59.16
11 68 13 00-0057	EA		Solar System Panel.....	857.48	59.16
11 68 13 00-0058	EA		Animals Panel.....	857.48	59.16
11 68 13 00-0059			Freestanding Panels Uprights <small>(11 68 13 00-0024)</small>		
11 68 13 00-0060	EA		3-1/2" Outside Diameter End Panel Upright.....	209.70	25.45
11 68 13 00-0061	EA		3-1/2" Outside Diameter 90 Degree Upright.....	227.19	27.53
11 68 13 00-0062	EA		3-1/2" Outside Diameter 180 Degree Upright.....	227.19	27.53
11 68 13 00-0063	EA		3-1/2" Outside Diameter "T-Shaped" Upright.....	241.75	29.31
11 68 13 00-0064			Coasters <small>(11 68 13 00-0024)</small>		
11 68 13 00-0065	EA		12' Single Metal Coaster With Four Posts.....	5,067.81	308.50
11 68 13 00-0066	EA		18' Single Metal Coaster With Four Posts.....	5,687.06	385.62
11 68 13 00-0067	EA		12' Double Metal Coaster With Four Posts.....	8,179.76	462.74
11 68 13 00-0068	EA		18' Double Metal Coaster With Four Posts.....	9,328.10	578.43
11 68 13 00-0069			Climbers <small>(11 68 13 00-0024)</small>		
11 68 13 00-0070	EA		Tower Climber, 3.17' Diameter x 7.25' High.....	1,002.84	206.08
11 68 13 00-0071	EA		Arch Climber, 2' x 12' x 4.5' High.....	922.74	252.35
11 68 13 00-0072	EA		Arch Climber, 2' x 15' x 5.83' High.....	993.55	206.08
11 68 13 00-0073	EA		Arch Climber, 2' x 17' x 6.58' High.....	1,060.60	252.35
11 68 13 00-0074	EA		Rainbow Climber, 2' x 10'-5" x 4' High.....	1,128.96	205.85
11 68 13 00-0075	EA		Rainbow Climber, 2' x 10'-5" x 5' High.....	1,253.07	205.92
11 68 13 00-0076	EA		Rainbow Climber, 2' x 12'-5" x 6' High.....	1,443.18	205.92
11 68 13 00-0077	EA		Rainbow Climber, 2' x 15'-4" x 7' High.....	1,567.50	205.85
11 68 13 00-0078	EA		Double Level Arch Climber, 6' Wide x 12'-6" x 6' High Upper Section / 5' High Lower Section.....	1,887.69	241.01
11 68 13 00-0079	EA		12' Long Horizontal Ladder Climber.....	1,523.09	176.93
11 68 13 00-0080	EA		14' Long Horizontal Ladder Climber.....	1,544.01	176.93
11 68 13 00-0081	EA		16' Long Horizontal Ladder Climber.....	1,682.52	176.93
11 68 13 00-0082	EA		Bell Climber, 7'-5" High With Double Bars.....	1,618.60	231.38
11 68 13 00-0083	EA		2-Way Climber.....	1,364.02	185.49
11 68 13 00-0084	EA		4-Way Climber.....	2,115.93	185.49
11 68 13 00-0085			Swings <small>(11 68 13 00-0001)</small>		
11 68 13 00-0086			Two-Leg-End Swings, 2-3/8" Diameter Galvanized Steel Top Rail <small>(11 68 13 00-0085)</small>		
			Note: Legs, 1-7/8" diameter, traditional.		
11 68 13 00-0087	EA		8' High Top Rail, One Section Two Seats.....	1,307.91	278.56
			For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	150.22	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	162.52	
11 68 13 00-0088	EA		8' High Top Rail, Two Sections Four Seats.....	2,076.55	398.61
			For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	239.66	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	263.85	
11 68 13 00-0089	EA		8' High Top Rail, Three Sections, Six Seats.....	2,876.64	586.55
			For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	331.64	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	363.71	
11 68 13 00-0090	EA		8' High Top Rail, Four Sections, Eight Seats.....	3,597.48	682.56
			For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	415.55	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	458.88	
11 68 13 00-0091	EA		10' High Top Rail, One Section Two Seats.....	1,388.04	278.56
			For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	160.23	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	176.55	
11 68 13 00-0092	EA		10' High Top Rail, Two Section Four Seats.....	2,178.52	424.55
			For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	250.51	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	272.20	
11 68 13 00-0093	EA		10' High Top Rail, Three Sections, Six Seats.....	3,019.00	659.27
			For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	345.97	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	371.30	
11 68 13 00-0094	EA		10' High Top Rail, Four Sections, Eight Seats.....	3,984.76	796.32
			For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	458.26	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	498.17	
11 68 13 00-0095			Three-Leg-End Swings, 2-3/8" Diameter Galvanized Steel Top Rail <small>(11 68 13 00-0085)</small>		
			Note: Legs, 1-7/8" diameter, traditional.		
11 68 13 00-0096	EA		8' High Top Rail, One Section, Two Seats.....	1,474.01	246.03
			For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	171.95	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	196.44	
11 68 13 00-0097	EA		8' High Top Rail, Two Sections, Four Seats.....	2,139.35	356.98
			For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	249.57	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	285.15	
11 68 13 00-0098	EA		8' High Top Rail, Three Sections, Six Seats.....	2,854.66	477.42
			For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	332.96	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	380.21	
11 68 13 00-0099	EA		8' High Top Rail, Four Sections, Eight Seats.....	3,555.81	568.80
			For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	416.03	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	480.05	



Equipment	11
Entertainment and Recreation Equipment	11 60
Play Field Equipment and Structures	11 68

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 68	13 00-0100	EA	10' High Top Rail, One Section, Two Seats <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	1,662.18 193.91 221.57	277.27
11 68	13 00-0101	EA	10' High Top Rail, One Section Three Seats <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	1,732.30 202.53 233.12	294.04
11 68	13 00-0102	EA	10' High Top Rail, Two Sections, Four Seats <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	2,320.95 270.71 309.12	388.15
11 68	13 00-0103	EA	10' High Top Rail, Two Sections, Six Seats <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	2,775.72 325.65 379.16	447.46
11 68	13 00-0104	EA	10' High Top Rail, Three Section, Six Seats <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	3,089.33 360.35 411.53	516.40
11 68	13 00-0105	EA	10' High Top Rail, Three Sections, Nine Seats <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	3,817.30 448.72 525.81	569.02
11 68	13 00-0106	EA	10' High Top Rail, Four Section, Eight Seats <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	3,929.63 457.07 517.01	682.56
11 68	13 00-0107	EA	12' High Top Rail, One Section Three Seats <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	1,809.37 211.82 244.90	301.16
11 68	13 00-0108	EA	12' High Top Rail, Two Sections, Six Seats <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	2,941.32 344.58 399.32	484.55
11 68	13 00-0109	EA	12' High Top Rail, Three Sections, Nine Seats <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	4,319.30 501.99 566.28	776.07
11 68 13 00-0110 Swing Accessories <small>(11 68 13 00-0085)</small>					
	11 68	13 00-0111	EA Enclosed Tot Seat With Chain And Hardware	412.01	22.83
	11 68	13 00-0112	EA Bucket Seat With Chain And Hardware	342.51	18.98
	11 68	13 00-0113	EA Belt Seat With Chain And Hardware	364.85	20.27
	11 68	13 00-0114	EA Seat With Chain And Hardware	359.89	19.97
	11 68	13 00-0115	EA Wide Seat With Chain And Hardware	379.88	21.09
	11 68	13 00-0116	EA Handi Seat With Chain And Hardware	1,134.26	62.91
	11 68	13 00-0117	LF 0.4 LB/LF Replacement Chain	4.82	0.45
	11 68	13 00-0118	LF 1 LB/LF Replacement Chain	8.96	0.90
	11 68	13 00-0119	EA Swing Hanger Replacement	52.39	5.20
11 68 23 Exterior Court Athletic Equipment <small>(11 68)</small>					
11 68 23 13 Exterior Basketball Equipment <small>(11 68 23)</small>					
11 68 23 13-0001 Basketball Systems <small>(11 68 23 13)</small>					
See CSI section 32 31 13 13-0001 for auguring holes and concrete.					
	11 68	23 13-0002	EA 4-1/2" Bent Post Galvanized Steel Pole With 4' Extension, Aluminum Backboard, Double Rim Goal And Steel Net Basketball System (Sportsplay 541-616)	1,830.81	221.28
	11 68	23 13-0003	EA 5-9/16" Bent Post Galvanized Steel Pole With 6' Extension Style, Aluminum Backboard, Double Rim Goal And Nylon Net Basketball System (Porter Athletic 00176-230)	3,422.54 -133.00 350.00	243.40
	11 68	23 13-0004	EA 4-1/2" Galvanized Steel Pole With 4' Extension, Aluminum Backboard, Double Rim Goal And Nylon Net Basketball System (Porter Athletic 00164-230)	2,444.18 -133.00 350.00	221.28
	11 68	23 13-0005	EA 5-9/16" Galvanized Steel Pole With 6' Extension, Aluminum Backboard, Double Rim Goal And Nylon Net Basketball System (Porter Athletic 00166-230)	3,024.45 -133.00 350.00	243.40
	11 68	23 13-0006	EA Back To Back 4-1/2" Galvanized Steel Pole With 4' Extensions, Aluminum Backboards, Double Rim Goals And Nylon Net Double Basketball System (Porter Athletic 00184-230)	3,863.35 -498.00 700.00	325.40
	11 68	23 13-0007	EA Back To Back 5-9/16" Galvanized Steel Pole With 6' Extensions, Aluminum Backboards, Double Rim Goals And Nylon Net Double Basketball System (Porter Athletic 00186-230)	5,036.01 -498.00 700.00	357.95
11 68 23 13-0008 Basketball Components <small>(11 68 23 13)</small>					
See CSI section 32 31 13 13-0001 for auguring holes and concrete.					
	11 68	23 13-0009	EA Anti-Whip, Nylon Cord Basketball Net (Porter Athletic 09608-120)	30.55	7.72
	11 68	23 13-0010	EA Chain Basketball Net (Porter Athletic 00161-000)	51.73	7.72
	11 68	23 13-0011	EA Heavy Duty Goal Ring (Porter Athletic 00235-000)	130.18	38.57
	11 68	23 13-0012	EA Goal Ring For Steel Net (Porter Athletic 00251-H00)	251.18	17.36
	11 68	23 13-0013	EA 42" x 72" Rectangular Fully Tempered Glass Basketball Backboard With Steel Frame (Porter Athletic 00204-000) Note: Includes perimeter and target markings. Excludes pole and goal.	1,081.12	32.78
	11 68	23 13-0014	EA 42" x 72" Rectangular 11 Gauge Perforated Steel Basketball Backboard (Porter Athletic 01207-300) Note: Includes perimeter and target markings. Excludes pole and goal.	1,153.76	32.78

11	11 Equipment
	11 60 Entertainment and Recreation Equipment
	11 68 Play Field Equipment and Structures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 68 23 13-0015 EA 54" x 39" Fan Shaped Cast Aluminum Basketball Backboard (Porter Athletic 00234-300).....	826.42	28.92
Note: Includes perimeter and target markings. Excludes pole and goal.		
11 68 23 13-0016 EA 54" x 39" Fan Shaped Fiberglass Basketball Backboard (Porter Athletic 00267-000)	623.01	28.92
Note: Includes perimeter and target markings. Excludes pole and goal.		
11 68 23 33 Tennis Equipment <small>(11 68 23)</small>		
11 68 23 33-0001 Tennis Court Net Posts <small>(11 68 23 33)</small>		
11 68 23 33-0002 PR Round, Powder Coated Steel, Tennis Court Net Posts With External Winder	891.46	128.92
11 68 23 33-0003 PR Round, Powder Coated Steel, Tennis Court Net Posts With Internal Brass Winder	1,105.05	128.92
11 68 23 33-0004 PR Square, Powder Coated Steel, Tennis Court Net Posts With Internal Brass Winder	1,140.64	128.92
11 68 23 33-0005 PR Round, Powder Coated Aluminum, Tennis Court Net Posts With External Winder	1,202.20	128.92
11 68 23 33-0006 PR Round, Powder Coated Aluminum, Tennis Court Net Posts With Internal Winder.....	1,421.39	128.92
11 68 23 33-0007 PR Polyvinyl Chloride (PVC) Ground Sleeves For Tennis Court Net Posts	221.10	
11 68 23 33-0008 PR Galvanized Steel Ground Sleeves For Tennis Court Net Posts	247.71	
11 68 23 33-0009 Tennis Court Nets <small>(11 68 23 33)</small>		
11 68 23 33-0010 EA 42' Length, Single Top, Vinyl Headband, Polyethylene Net Body, Tennis Court Net	461.93	127.41
11 68 23 33-0011 EA 42' Length, Double Top, Vinyl Headband, Polyethylene Net Body, Tennis Court Net.....	504.41	127.41
11 68 23 33-0012 EA 42' Length, Anti-Vandal, Aluminum Coated Flexible Steel Mesh, Tennis Court Net	1,072.55	196.05
11 68 23 33-0013 EA Galvanized Steel Anchor For Tennis Court Net Center Strap	60.73	
11 68 33 Athletic Field Equipment <small>(11 68)</small>		
11 68 33 13 Football Field Equipment <small>(11 68 33)</small>		
11 68 33 13-0001 Football Goal Posts <small>(11 68 33 13)</small>		
Note: Includes augering for post(s), set in concrete and backfill.		
11 68 33 13-0002 PR Double Steel Football Goal Posts, "H Shape".....	3,708.13	347.06
11 68 33 13-0003 PR Vertical Style Goal Post, Single In Ground Mounting, Steel With 20' Uprights.....	5,384.77	523.20
11 68 33 13-0004 PR Gooseneck (Offset) Style Goal Post, Single In Ground Mounting, Steel, With 20' Uprights.....	6,433.42	627.84
11 68 33 23 Soccer and Field Hockey Equipment <small>(11 68 33)</small>		
11 68 33 23-0001 Soccer Goal Posts <small>(11 68 33 23)</small>		
Note: Includes augering for post(s), set in concrete and backfill.		
11 68 33 23-0002 PR Regulation Soccer Goal Posts	3,550.55	227.52
11 68 33 23-0003 PR Combination Football/Soccer Goal Post	4,301.84	347.06
11 68 33 33 Baseball Field Equipment <small>(11 68 33)</small>		
11 68 33 33-0001 Bases <small>(11 68 33 33)</small>		
11 68 33 33-0002 SET Bases For Baseball Or Softball	415.93	
11 80 Facility Maintenance and Operation Equipment <small>(11)</small>		
11 82 Facility Solid Waste Handling Equipment <small>(11 80)</small>		
11 82 19 Packaged Incinerators <small>(11 82)</small>		
11 82 19 00-0001 Electric Incinerator <small>(11 82 19)</small>		
11 82 19 00-0002 EA Electric Package Incinerator, 100 LB/Hour	27,447.00	914.35
11 82 19 00-0003 EA Electric Package Incinerator, 400 LB/Hour	56,143.51	1,828.72
11 82 19 00-0004 EA Electric Package Incinerator, 1,000 LB/Hour	188,469.16	2,743.07
11 82 26 Facility Waste Compactors <small>(11 82)</small>		
11 82 26 00-0001 110 Volt Compactors <small>(11 82 26)</small>		
11 82 26 00-0002 EA Waste Compactor, 110 Volt At 75 LB/Hour.....	14,947.24	475.75
11 82 26 00-0003 EA Waste Compactor, 110 Volt At 250 LB/Hour.....	18,933.78	1,141.78
11 82 26 00-0004 230 Volt Compactors <small>(11 82 26)</small>		
11 82 26 00-0005 EA Waste Compactor, 230 Volt At 600 LB/Hour Hand Fed	19,028.94	1,522.38
11 82 26 00-0006 EA Waste Compactor, 230 Volt At 600 LB/Hour Chute Fed	21,556.11	1,998.12
11 82 26 00-0007 Trash Compactors <small>(11 82 26)</small>		
11 82 26 00-0008 EA Trash Compactor, Small	2,936.06	261.78
11 82 26 00-0009 EA Trash Compactor, Large	3,612.14	296.24



	Equipment	11	
	Facility Maintenance and Operation Equipment	11 80	11
	Facility Solid Waste Handling Equipment	11 82	

MINOR CSI	UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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END OF SECTION 11

11	11	Equipment
	11 80	Facility Maintenance and Operation Equipment
	11 82	Facility Solid Waste Handling Equipment



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST

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Special Construction	13	13
Integrated Construction	13 40	
Facility Protection	13 47	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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13 Special Construction

13 40 Integrated Construction ⁽¹³⁾

13 47 Facility Protection ^(13 40)

13 47 13 Cathodic Protection ^(13 47)

13 47 13 13 Cathodic Protection for Underground and Submerged Piping ^(13 47 13)

13 47 13 13-0001 Anodes ^(13 47 13 13)

13 47 13 13-0002 Magnesium Type, Conventional ^(13 47 13 13-0001)

13 47 13 13-0003	EA	9 LB Magnesium Type Anodes.....	335.60	148.09
13 47 13 13-0004	EA	17 LB Magnesium Type Anodes.....	497.04	214.03
13 47 13 13-0005	EA	32 LB Magnesium Type Anode.....	676.04	275.35
13 47 13 13-0006	EA	48 LB Magnesium Type Anode.....	961.60	385.26

13 47 13 13-0007 Graphite Type ^(13 47 13 13-0001) Note: Includes epoxy cap.

13 47 13 13-0008	EA	3" x 60" (32 LB) Graphite Type Anodes With Epoxy Cap.....	493.58	204.78
13 47 13 13-0009	EA	4" x 80" (68 LB) Graphite Type Anodes With Epoxy Cap.....	766.10	285.96
13 47 13 13-0010	EA	6" x 36" (45 LB) Graphite Type Anodes With Epoxy Cap.....	573.12	178.96
13 47 13 13-0011	EA	6" x 72" (80 LB) Graphite Type Anodes With Epoxy Cap.....	875.01	238.92

13 47 13 13-0012 High Silicon Cast Iron Type ^(13 47 13 13-0001)

13 47 13 13-0013	EA	2.66" x 84" High Silicon Cast Iron Anode, 70 LB.....	1,552.86	285.96
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13 47 13 13-0014 Metal Oxide Type ^(13 47 13 13-0001)

13 47 13 13-0015	EA	1" x 60" Mixed Metal Oxide Anode, 5 LB..... Note: Includes center connected #8 HMWPE/HALAR Lead wire.	789.27	148.09
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13 47 13 13-0016 Rectifiers ^(13 47 13 13)

13 47 13 13-0017 Air Cooled, Silicon Type ^(13 47 13 13-0016)

13 47 13 13-0018	EA	Air Cooled Rectifiers, 28 Volt, 10 Amperes, Silicon Type.....	1,734.17	290.82
13 47 13 13-0019	EA	Air Cooled Rectifiers, 20 Volt / 20 Amperes, Silicon Type.....	1,877.97	290.82

13 47 13 13-0020 Oil Immersed, Silicon Type ^(13 47 13 13-0016)

13 47 13 13-0021	EA	Oil Immersed Rectifiers, 28 Volt, 10 Amperes, Silicon Type.....	2,623.06	336.27
13 47 13 13-0022	EA	Oil Immersed Rectifiers, 20 Volt / 20 Amperes, Silicon Type.....	2,777.14	336.27

13 47 13 13-0023 Anode Backfill ^(13 47 13 13)

13 47 13 13-0024	LB	Anode Backfill, Coke Breeze.....	0.96	0.37
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13 47 13 13-0025 Cathodic Protection Cable ^(13 47 13 13)

13 47 13 13-0026	MLF	Cathodic Protection Cable, OR2 - No 8.....	1,791.56	715.83
13 47 13 13-0027	MLF	Cathodic Protection Cable, OR2 - No 6.....	1,950.96	715.83
13 47 13 13-0028	MLF	Cathodic Protection Cable, OR2 - No 4.....	2,190.07	715.83
13 47 13 13-0029	MLF	Cathodic Protection Cable, OR2 - No 2.....	2,588.58	715.83
13 47 13 13-0030	MLF	Cathodic Protection Cable, OR2 - No 1.....	3,168.65	788.70
13 47 13 13-0031	MLF	Cathodic Protection Cable, OR2-No 1/0.....	3,467.53	788.70
13 47 13 13-0032	MLF	Cathodic Protection Cable, OR2-No 2/0.....	3,965.67	788.70
13 47 13 13-0033	MLF	Cathodic Protection Cable, OR2-No 4/0.....	5,302.64	859.74

13 47 13 13-0034 Cathodic Test Stations ^(13 47 13 13)

13 47 13 13-0035 Flush Curb Box Type With Lockable Cover And Terminal Box ^(13 47 13 13-0034)

13 47 13 13-0036	EA	Cathodic Test Station, Flush Curb Type With Lockable Cover.....	251.78	83.81
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13 47 13 16 Cathodic Protection for Underground Storage Tanks ^(13 47 13)

See CSI section 13 47 13 13-0000 for cathodic protection for tanks.

END OF SECTION 13

13	13	Special Construction
	13 40	Integrated Construction
	13 47	Facility Protection



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 Plumbing

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise.

22 05 Common Work Results for Plumbing ⁽²²⁾

22 05 23 General-Duty Valves for Plumbing Piping ^(22 05)

22 05 23 00-0001 Earthquake-Sensitive Gas Shut-Off Valve ^(22 05 23)

22 05 23 00-0002 0.5 PSI Threaded Earthquake Gas Shutoff Valves ^(22 05 23 00-0001)

22 05 23 00-0003	EA	3/4" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve	156.97	11.62
22 05 23 00-0004	EA	1" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve	177.86	13.20

22 05 23 00-0005 7 PSI Threaded Earthquake Gas Shutoff Valves ^(22 05 23 00-0001)

22 05 23 00-0006	EA	1-1/4" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve	207.96	14.05
22 05 23 00-0007	EA	1-1/2" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve	279.92	16.26

22 05 23 00-0008 60 PSI Threaded Earthquake Gas Shutoff Valves ^(22 05 23 00-0001)

22 05 23 00-0009	EA	3/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	193.65	11.62
22 05 23 00-0010	EA	1" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	203.33	13.20
22 05 23 00-0011	EA	1-1/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	228.33	14.05
22 05 23 00-0012	EA	1-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	310.48	16.26
22 05 23 00-0013	EA	2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	707.31	19.22
22 05 23 00-0014	EA	2-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	842.40	25.88
22 05 23 00-0015	EA	3" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	1,092.05	30.15
22 05 23 00-0016	EA	4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	1,265.46	34.04

22 05 23 00-0017 60 PSI Flanged Earthquake Gas Shutoff Valves ^(22 05 23 00-0001)

22 05 23 00-0018	EA	2" Flanged, 60 PSI Earthquake Gas Shutoff Valve	991.09	140.81
22 05 23 00-0019	EA	3" Flanged, 60 PSI Earthquake Gas Shutoff Valve	1,220.69	165.38
22 05 23 00-0020	EA	4" Flanged, 60 PSI Earthquake Gas Shutoff Valve	1,722.81	277.24
22 05 23 00-0021	EA	6" Flanged, 60 PSI Earthquake Gas Shutoff Valve	2,805.77	328.10
22 05 23 00-0022	EA	8" Flanged, 60 PSI Earthquake Gas Shutoff Valve	7,550.50	419.24

22 05 23 00-0023 Regulators, Clay Valve ^(22 05 23)

22 05 23 00-0024	EA	4" Regulator - Clay Valve	1,701.90	
22 05 23 00-0025	EA	8" Regulator - Clay Valve	2,310.98	
22 05 23 00-0026	EA	10" Regulator - Clay Valve	3,178.54	
22 05 23 00-0027	EA	12" Regulator - Clay Valve	3,891.67	
22 05 23 00-0028	EA	18" Regulator - Clay Valve	6,613.60	
22 05 23 00-0029	EA	24" Regulator - Clay Valve	10,655.75	

22 05 76 Facility Drainage Piping Cleanouts ^(22 05)

22 05 76 00-0001 Cast Iron Cleanout With Plug And Cover ^(22 05 76)

Note: For floor installation.

22 05 76 00-0002 Cast Iron Cleanout With Plug And Round Or Square Cover ^(22 05 76 00-0001)

22 05 76 00-0003	EA	2" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	585.46	56.19
		<i>For Vandal Proof, Add</i>	19.50	
		<i>For Galvanized Ferrule, Add</i>	45.00	
		<i>For Carpet Marker, Add</i>	16.00	
		<i>For Carpet Flange, Add</i>	58.50	
		<i>For Wide Flange, Add</i>	97.00	
		<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0004	EA	3" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	633.58	70.46
		<i>For Vandal Proof, Add</i>	19.50	
		<i>For Galvanized Ferrule, Add</i>	45.00	
		<i>For Carpet Marker, Add</i>	16.00	
		<i>For Carpet Flange, Add</i>	58.50	
		<i>For Wide Flange, Add</i>	97.00	
		<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0005	EA	4" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	790.86	85.14
		<i>For Vandal Proof, Add</i>	19.50	
		<i>For Galvanized Ferrule, Add</i>	45.00	
		<i>For Carpet Marker, Add</i>	16.00	
		<i>For Carpet Flange, Add</i>	58.50	
		<i>For Wide Flange, Add</i>	97.00	
		<i>For Satin Bronze Top, Deduct</i>	-24.00	

22 Plumbing**22 05 Common Work Results for Plumbing****22 05 76 Facility Drainage Piping Cleanouts**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0006 EA 5" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	1,132.44	95.27
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0007 EA 6" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	1,392.57	103.20
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0008 Cast Iron Heavy Duty Cleanout With Plug And Round Cover (22 05 76 00-0001)		
22 05 76 00-0009 EA 2" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	673.90	56.19
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0010 EA 3" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	723.36	70.35
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0011 EA 4" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	880.70	85.14
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0012 EA 5" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	1,222.34	95.27
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0013 EA 6" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	1,482.38	103.20
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0014 Wall Cover For Cleanout (22 05 76)		
Note: Cover and screw only.		
22 05 76 00-0015 Round Access Cover, Bronze Polished Top (22 05 76 00-0014)		
Note: Cover and screw only.		
22 05 76 00-0016 EA 4-1/4" Diameter Wall Cover For Cleanout, Screwed	88.56	17.64
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0017 EA 5-1/2" Diameter Wall Cover For Cleanout, Screwed	95.60	21.13
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0018 EA 7" Diameter Wall Cover For Cleanout, Screwed	121.94	23.77
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0019 EA 9-1/4" Diameter Wall Cover For Cleanout, Screwed	205.84	26.41
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0020 EA 11-1/4" Diameter Wall Cover For Cleanout, Screwed	309.38	29.05
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0021 Square Wall Access Panel, Bronze Polished Top (22 05 76 00-0014)		
Note: Cover and screw only.		
22 05 76 00-0022 EA 7" x 7" Bronze Wall Or Floor Access Cover	421.36	17.64
For Vandal Proof Screws, Add	19.50	
For Nickel Bronze, Add	22.50	
22 05 76 00-0023 EA 9" x 9" Bronze Wall Or Floor Access Cover	605.47	18.49
For Vandal Proof Screws, Add	19.50	
For Nickel Bronze, Add	22.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0024 EA 10" x 10" Bronze Wall Or Floor Access Cover <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	646.92 19.50 22.50	19.54
22 05 76 00-0025 EA 14" x 14" Bronze Wall Or Floor Access Cover <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	723.70 19.50 22.50	22.19
22 05 76 00-0026 Secured Square Wall Access Panel, Bronze Polished Top <small>(22 05 76 00-0014)</small> Note: Cover and screw only.		
22 05 76 00-0027 EA 6" x 6" Bronze Secured Wall Access Panel <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	420.82 19.50 22.50	17.64
22 05 76 00-0028 EA 8" x 8" Bronze Secured Wall Access Panel <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	604.68 19.50 22.50	18.49
22 05 76 00-0029 EA 10" x 10" Bronze Secured Wall Access Panel <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	646.06 19.50 22.50	19.54
22 05 76 00-0030 EA 12" x 12" Bronze Secured Wall Access Panel <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	722.76 19.50 22.50	22.19
22 05 76 00-0031 Secure Square Hinged Access Panel, Bronze Polished Top, Scoriated <small>(22 05 76 00-0014)</small> Note: Cover and screw only.		
22 05 76 00-0032 EA 6" x 6" Bronze Secured Hinged Access Panel, Scoriated <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	408.33 19.50 22.50	17.64
22 05 76 00-0033 EA 8" x 8" Bronze Secured Hinged Access Panel, Scoriated <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	563.62 19.50 22.50	18.49
22 05 76 00-0034 EA 10" x 10" Bronze Secured Hinged Access Panel, Scoriated <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	797.81 19.50 22.50	19.54
22 05 76 00-0035 EA 12" x 12" Bronze Secured Hinged Access Panel, Scoriated <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	965.55 19.50 22.50	22.19
22 05 76 00-0036 Cast Iron Cleanout Tee <small>(22 05 76)</small>		
22 05 76 00-0037 Cast Iron Cleanout Tee And Round Access Cover <small>(22 05 76 00-0036)</small> Note: Satin smooth secured cover.		
22 05 76 00-0038 EA 2" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	426.36 19.50 88.80	56.19
22 05 76 00-0039 EA 3" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	487.50 19.50 88.80	70.35
22 05 76 00-0040 EA 4" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	636.15 19.50 88.80	85.14
22 05 76 00-0041 EA 6" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,514.37 19.50 88.80	103.20
22 05 76 00-0042 Cast Iron Cleanout Tee And Square Access Cover <small>(22 05 76 00-0036)</small> Note: Satin smooth secured cover.		
22 05 76 00-0043 EA 2" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	740.36 19.50 88.80	56.19
22 05 76 00-0044 EA 3" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	801.50 19.50 88.80	70.35
22 05 76 00-0045 EA 4" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	929.31 19.50 88.80	85.14
22 05 76 00-0046 EA 6" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,938.48 19.50 88.80	103.20
22 05 76 00-0047 Cast Iron Cleanout Tee With Brass Plug <small>(22 05 76 00-0036)</small>		
22 05 76 00-0048 EA 2" Cleanout Tee With Cast Bronze Screw Plug	349.37	45.94
22 05 76 00-0049 EA 3" Cleanout Tee With Cast Bronze Screw Plug	390.56	50.18
22 05 76 00-0050 EA 4" Cleanout Tee With Cast Bronze Screw Plug	520.47	66.02
22 05 76 00-0051 EA 5" Cleanout Tee With Cast Bronze Screw Plug	781.39	78.17
22 05 76 00-0052 EA 6" Cleanout Tee With Cast Bronze Screw Plug	1,330.79	92.42
22 05 76 00-0053 Removable Cleanout Plug <small>(22 05 76)</small>		

22 Plumbing**22 05 Common Work Results for Plumbing****22 05 76 Facility Drainage Piping Cleanouts**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0054 Threaded Bronze Plugs (22 05 76 00-0053)		
22 05 76 00-0055 EA 1-1/4", 1-1/2" Or 2" Threaded Bronze Plug .....69.77		13.20
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0056 EA 2-1/2" Threaded Bronze Plug .....83.69		14.37
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0057 EA 3" Threaded Bronze Plug .....143.86		15.85
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0058 EA 3-1/2" Threaded Bronze Plug .....160.96		18.49
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0059 EA 4" Threaded Bronze Plug .....181.98		21.13
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0060 EA 5" Threaded Bronze Plug .....256.11		23.77
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0061 EA 6" Threaded Bronze Plug .....377.44		26.41
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0062 EA 8" Threaded Bronze Plug .....638.34		29.05
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0063 EA 10" Threaded Bronze Plug .....918.98		31.69
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0064 Threaded Brass Plugs (22 05 76 00-0053)		
22 05 76 00-0065 EA 1-1/2" Threaded Brass Plug, Raised Head .....29.58		13.20
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0066 EA 2" Threaded Brass Plug, Raised Head .....30.13		13.20
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0067 EA 2-1/2" Threaded Brass Plug, Raised Head .....32.88		14.37
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0068 EA 3" Threaded Brass Plug, Raised Head .....37.24		15.84
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0069 EA 3-1/2" Threaded Brass Plug, Raised Head .....44.01		18.49
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0070 EA 4" Threaded Brass Plug, Raised Head .....51.79		21.13
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0071 EA 4-1/2" Threaded Brass Plug, Raised Head .....55.67		22.25
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0072 EA 5" Threaded Brass Plug, Raised Head .....59.89		23.77
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0073 EA 6" Threaded Brass Plug, Raised Head .....78.54		26.41
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0074 EA 1-1/2" Threaded Brass Plug, Countersunk Head .....29.15		13.20
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0075 EA 2" Threaded Brass Plug, Countersunk Head .....29.75		13.20
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0076 EA 2-1/2" Threaded Brass Plug, Countersunk Head .....34.07		14.37
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0077 EA 3" Threaded Brass Plug, Countersunk Head .....37.42		15.85
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0078 EA 3-1/2" Threaded Brass Plug, Countersunk Head .....43.50		18.49
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0079 EA 4" Threaded Brass Plug, Countersunk Head .....50.98		21.13
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0080 EA 5" Threaded Brass Plug, Countersunk Head .....59.44		23.77
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0081 EA 6" Threaded Brass Plug, Countersunk Head .....71.37		26.41
For Plug Tapped For Center Screw, Add	9.50	
22 07 Plumbing Insulation (22)		
22 07 19 Plumbing Piping Insulation (22 07)		
22 07 19 00-0001 Insulation Protective Jacketing (22 07 19)		
Note: Jacketing only and to be added to insulation prices when required.		
22 07 19 00-0002 Aluminum Insulation Protective Jacketing With Bands (22 07 19 00-0001)		
22 07 19 00-0003 Aluminum Roll, Insulation Protective Jacketing With Bands (22 07 19 00-0002)		
22 07 19 00-0004 SF 0.006" Aluminum Insulation Jacket With Bands .....15.80		6.77
22 07 19 00-0005 SF 0.016" Aluminum Insulation Jacket With Bands .....16.26		6.77
22 07 19 00-0006 16 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0002)		
22 07 19 00-0007 LF 1/2" ID, 0.016" Aluminum Insulation Jacketing .....8.05		1.92
For Stucco Embossed, Add	0.00	
For Corrugated, Add	0.01	
22 07 19 00-0008 LF 3/4" ID, 0.016" Aluminum Insulation Jacketing .....8.34		1.96
For Stucco Embossed, Add	0.00	
For Corrugated, Add	0.01	
22 07 19 00-0009 LF 1" ID, 0.016" Aluminum Insulation Jacketing .....8.64		2.02
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0010 LF 1-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	8.94 0.01 0.02	2.07
22 07 19 00-0011 LF 1-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.16 0.01 0.02	2.10
22 07 19 00-0012 LF 1-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.40 0.01 0.02	2.13
22 07 19 00-0013 LF 2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.68 0.01 0.03	2.17
22 07 19 00-0014 LF 2-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.98 0.01 0.03	2.22
22 07 19 00-0015 LF 2-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.29 0.01 0.03	2.26
22 07 19 00-0016 LF 2-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.55 0.01 0.03	2.30
22 07 19 00-0017 LF 3" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.87 0.01 0.04	2.35
22 07 19 00-0018 LF 3-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.18 0.02 0.04	2.41
22 07 19 00-0019 LF 3-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.51 0.02 0.04	2.46
22 07 19 00-0020 LF 3-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.81 0.02 0.04	2.50
22 07 19 00-0021 LF 4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.16 0.02 0.05	2.56
22 07 19 00-0022 LF 4-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.52 0.02 0.05	2.63
22 07 19 00-0023 LF 4-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.91 0.02 0.05	2.69
22 07 19 00-0024 LF 4-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.21 0.02 0.06	2.75
22 07 19 00-0025 LF 5" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.61 0.02 0.06	2.82
22 07 19 00-0026 LF 5-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.04 0.02 0.06	2.90
22 07 19 00-0027 LF 5-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.39 0.03 0.06	2.96
22 07 19 00-0028 LF 5-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.85 0.03 0.07	3.04
22 07 19 00-0029 LF 6" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.32 0.03 0.07	3.13
22 07 19 00-0030 LF 6-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.62 0.03 0.07	3.18
22 07 19 00-0031 LF 6-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.92 0.03 0.08	3.22
22 07 19 00-0032 LF 7" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.42 0.03 0.08	3.30
22 07 19 00-0033 LF 7-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.84 0.03 0.08	3.39
22 07 19 00-0034 LF 7-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.17 0.03 0.09	3.44
22 07 19 00-0035 LF 8" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.62 0.04 0.09	3.50
22 07 19 00-0036 LF 8-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.07 0.04 0.10	3.56
22 07 19 00-0037 LF 9" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.66 0.04 0.10	3.65

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0038 LF 9-1/2" ID, 0.016" Aluminum Insulation Jacketing.....	19.13	3.71
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.11	
22 07 19 00-0039 LF 10" ID, 0.016" Aluminum Insulation Jacketing.....	19.61	3.78
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.11	
22 07 19 00-0040 LF 10-1/2" ID, 0.016" Aluminum Insulation Jacketing.....	20.10	3.85
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.12	
22 07 19 00-0041 LF 11" ID, 0.0106 Aluminum Insulation Jacketing.....	20.75	3.95
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.12	
22 07 19 00-0042 LF 11-1/2" ID, 0.016" Aluminum Insulation Jacketing.....	21.28	4.03
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.13	
22 07 19 00-0043 LF 12" ID, 0.016" Aluminum Insulation Jacketing.....	21.80	4.11
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.13	
22 07 19 00-0044 LF 12-1/2" ID, 0.016" Aluminum Insulation Jacketing.....	22.52	4.23
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.14	
22 07 19 00-0045 LF 13" ID, 0.016" Aluminum Insulation Jacketing.....	22.91	4.27
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.15	
22 07 19 00-0046 LF 14" ID, 0.016" Aluminum Insulation Jacketing.....	23.52	4.31
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.16	
22 07 19 00-0047 LF 15" ID, 0.016" Aluminum Insulation Jacketing.....	24.31	4.40
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.17	
22 07 19 00-0048 LF 16" ID, 0.016" Aluminum Insulation Jacketing.....	24.94	4.45
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.18	
22 07 19 00-0049 LF 17" ID, 0.016" Aluminum Insulation Jacketing.....	25.77	4.54
For Stucco Embossed, Add	0.08	
For Corrugated, Add	0.19	
22 07 19 00-0050 LF 18" ID, 0.016" Aluminum Insulation Jacketing.....	26.25	4.59
For Stucco Embossed, Add	0.08	
For Corrugated, Add	0.20	
22 07 19 00-0051 LF 19" ID, 0.016" Aluminum Insulation Jacketing.....	27.24	4.70
For Stucco Embossed, Add	0.08	
For Corrugated, Add	0.21	
22 07 19 00-0052 LF 20" ID, 0.016" Aluminum Insulation Jacketing.....	27.89	4.76
For Stucco Embossed, Add	0.09	
For Corrugated, Add	0.22	
22 07 19 00-0053 LF 21" ID, 0.016" Aluminum Insulation Jacketing.....	28.77	4.87
For Stucco Embossed, Add	0.09	
For Corrugated, Add	0.23	
22 07 19 00-0054 LF 22" ID, 0.016" Aluminum Insulation Jacketing.....	29.43	4.92
For Stucco Embossed, Add	0.10	
For Corrugated, Add	0.24	
22 07 19 00-0055 LF 23" ID, 0.016" Aluminum Insulation Jacketing.....	30.33	5.04
For Stucco Embossed, Add	0.10	
For Corrugated, Add	0.25	
22 07 19 00-0056 LF 24" ID, 0.016" Aluminum Insulation Jacketing.....	31.00	5.10
For Stucco Embossed, Add	0.11	
For Corrugated, Add	0.27	
22 07 19 00-0057 20 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0002)		
22 07 19 00-0058 LF 1/2" ID, 0.020" Aluminum Insulation Jacketing.....	8.92	2.12
For Stucco Embossed, Add	0.00	
For Corrugated, Add	0.01	
22 07 19 00-0059 LF 3/4" ID, 0.020" Aluminum Insulation Jacketing.....	9.25	2.17
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0060 LF 1" ID, 0.020" Aluminum Insulation Jacketing.....	9.61	2.22
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0061 LF 1-1/4" ID, 0.020" Aluminum Insulation Jacketing.....	9.95	2.27
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0062 LF 1-1/2" ID, 0.020" Aluminum Insulation Jacketing.....	10.22	2.31
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0063 LF 1-3/4" ID, 0.020" Aluminum Insulation Jacketing.....	10.50	2.34
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0064 LF 2" ID, 0.020" Aluminum Insulation Jacketing.....	10.82	2.39
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0065 LF 2-1/4" ID, 0.020" Aluminum Insulation Jacketing.....	11.16	2.44
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0066 LF 2-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.52 0.02 0.04	2.49
22 07 19 00-0067 LF 2-3/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.83 0.02 0.04	2.53
22 07 19 00-0068 LF 3" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.20 0.02 0.05	2.59
22 07 19 00-0069 LF 3-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.57 0.02 0.05	2.64
22 07 19 00-0070 LF 3-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.96 0.02 0.05	2.70
22 07 19 00-0071 LF 3-3/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.28 0.02 0.06	2.75
22 07 19 00-0072 LF 4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.68 0.02 0.06	2.82
22 07 19 00-0073 LF 4-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.11 0.03 0.06	2.89
22 07 19 00-0074 LF 4-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.55 0.03 0.07	2.96
22 07 19 00-0075 LF 4-3/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.92 0.03 0.07	3.02
22 07 19 00-0076 LF 5" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.37 0.03 0.07	3.10
22 07 19 00-0077 LF 5-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.86 0.03 0.08	3.18
22 07 19 00-0078 LF 5-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.27 0.03 0.08	3.25
22 07 19 00-0079 LF 5-3/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.79 0.03 0.09	3.35
22 07 19 00-0080 LF 6" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.32 0.04 0.09	3.45
22 07 19 00-0081 LF 6-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.67 0.04 0.09	3.50
22 07 19 00-0082 LF 6-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.02 0.04 0.10	3.56
22 07 19 00-0083 LF 7" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.61 0.04 0.10	3.64
22 07 19 00-0084 LF 7-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.10 0.04 0.11	3.72
22 07 19 00-0085 LF 7-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.47 0.04 0.11	3.78
22 07 19 00-0086 LF 8" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.02 0.05 0.12	3.85
22 07 19 00-0087 LF 8-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.53 0.05 0.12	3.91
22 07 19 00-0088 LF 9" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.20 0.05 0.13	4.01
22 07 19 00-0089 LF 9-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.77 0.05 0.14	4.08
22 07 19 00-0090 LF 10" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.34 0.06 0.14	4.15
22 07 19 00-0091 LF 10-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.92 0.06 0.15	4.23
22 07 19 00-0092 LF 11" ID, 0.0106 Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.66 0.06 0.16	4.35
22 07 19 00-0093 LF 11-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.28 0.07 0.16	4.43

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0094	LF	12" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.91 0.07 0.17	4.51
22 07 19 00-0095	LF	12-1/2" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.72 0.07 0.18	4.65
22 07 19 00-0096	LF	13" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.19 0.07 0.18	4.70
22 07 19 00-0097	LF	14" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.94 0.08 0.20	4.75
22 07 19 00-0098	LF	15" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.89 0.09 0.21	4.85
22 07 19 00-0099	LF	16" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.65 0.09 0.23	4.90
22 07 19 00-0100	LF	17" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.62 0.10 0.24	5.01
22 07 19 00-0101	LF	18" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.21 0.10 0.25	5.06
22 07 19 00-0102	LF	19" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.39 0.11 0.27	5.17
22 07 19 00-0103	LF	20" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.19 0.11 0.28	5.23
22 07 19 00-0104	LF	21" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.22 0.12 0.30	5.35
22 07 19 00-0105	LF	22" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.02 0.12 0.31	5.41
22 07 19 00-0106	LF	23" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.10 0.13 0.32	5.54
22 07 19 00-0107	LF	24" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.91 0.13 0.34	5.60
22 07 19 00-0108		24 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands <small>(22 07 19 00-0002)</small>		
22 07 19 00-0109	LF	1/2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.78 0.01 0.01	2.31
22 07 19 00-0110	LF	3/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.16 0.01 0.02	2.36
22 07 19 00-0111	LF	1" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.55 0.01 0.02	2.42
22 07 19 00-0112	LF	1-1/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.94 0.01 0.03	2.48
22 07 19 00-0113	LF	1-1/2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.27 0.01 0.03	2.51
22 07 19 00-0114	LF	1-3/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.58 0.01 0.03	2.55
22 07 19 00-0115	LF	2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.94 0.02 0.04	2.60
22 07 19 00-0116	LF	2-1/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.33 0.02 0.04	2.66
22 07 19 00-0117	LF	2-1/2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.74 0.02 0.05	2.71
22 07 19 00-0118	LF	2-3/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.08 0.02 0.05	2.76
22 07 19 00-0119	LF	3" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.50 0.02 0.06	2.82
22 07 19 00-0120	LF	3-1/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.93 0.02 0.06	2.88
22 07 19 00-0121	LF	3-1/2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.36 0.03 0.06	2.95



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0122 LF 3-3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.73 0.03 0.07	3.00
22 07 19 00-0123 LF 4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.18 0.03 0.07	3.07
22 07 19 00-0124 LF 4-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.66 0.03 0.08	3.15
22 07 19 00-0125 LF 4-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.16 0.03 0.08	3.23
22 07 19 00-0126 LF 4-3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.58 0.03 0.09	3.29
22 07 19 00-0127 LF 5" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.09 0.04 0.09	3.39
22 07 19 00-0128 LF 5-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.62 0.04 0.09	3.48
22 07 19 00-0129 LF 5-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.09 0.04 0.10	3.55
22 07 19 00-0130 LF 5-3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.68 0.04 0.10	3.65
22 07 19 00-0131 LF 6" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.28 0.04 0.11	3.76
22 07 19 00-0132 LF 6-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.66 0.04 0.11	3.82
22 07 19 00-0133 LF 6-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.06 0.05 0.11	3.88
22 07 19 00-0134 LF 7" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.73 0.05 0.12	3.97
22 07 19 00-0135 LF 7-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.27 0.05 0.13	4.06
22 07 19 00-0136 LF 7-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.70 0.05 0.13	4.13
22 07 19 00-0137 LF 8" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.32 0.06 0.14	4.20
22 07 19 00-0138 LF 8-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.91 0.06 0.15	4.26
22 07 19 00-0139 LF 9" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.68 0.06 0.15	4.37
22 07 19 00-0140 LF 9-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.34 0.07 0.16	4.45
22 07 19 00-0141 LF 10" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.98 0.07 0.17	4.53
22 07 19 00-0142 LF 10-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.64 0.07 0.18	4.61
22 07 19 00-0143 LF 11" ID, 0.0106 Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.48 0.08 0.19	4.75
22 07 19 00-0144 LF 11-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.19 0.08 0.20	4.84
22 07 19 00-0145 LF 12" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.89 0.08 0.20	4.93
22 07 19 00-0146 LF 12-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.81 0.09 0.21	5.08
22 07 19 00-0147 LF 13" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.34 0.09 0.22	5.13
22 07 19 00-0148 LF 14" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.23 0.10 0.24	5.18
22 07 19 00-0149 LF 15" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.32 0.10 0.25	5.29

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0150	LF	16" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.21 0.11 0.27	5.34
22 07 19 00-0151	LF	17" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.33 0.12 0.29	5.46
22 07 19 00-0152	LF	18" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.02 0.12 0.30	5.52
22 07 19 00-0153	LF	19" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.39 0.13 0.32	5.64
22 07 19 00-0154	LF	20" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.31 0.14 0.34	5.70
22 07 19 00-0155	LF	21" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	37.49 0.14 0.35	5.83
22 07 19 00-0156	LF	22" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.42 0.15 0.37	5.90
22 07 19 00-0157	LF	23" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	39.66 0.15 0.39	6.05
22 07 19 00-0158	LF	24" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	40.60 0.16 0.40	6.12
22 07 19 00-0159		32 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0002)		
22 07 19 00-0160	LF	1/2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.97 0.01 0.02	2.56
22 07 19 00-0161	LF	3/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.43 0.01 0.02	2.62
22 07 19 00-0162	LF	1" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.89 0.01 0.03	2.68
22 07 19 00-0163	LF	1-1/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.37 0.01 0.04	2.74
22 07 19 00-0164	LF	1-1/2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.76 0.02 0.04	2.78
22 07 19 00-0165	LF	1-3/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.14 0.02 0.05	2.83
22 07 19 00-0166	LF	2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.60 0.02 0.05	2.88
22 07 19 00-0167	LF	2-1/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.06 0.02 0.06	2.94
22 07 19 00-0168	LF	2-1/2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.56 0.03 0.06	3.01
22 07 19 00-0169	LF	2-3/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.98 0.03 0.07	3.05
22 07 19 00-0170	LF	3" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.49 0.03 0.07	3.12
22 07 19 00-0171	LF	3-1/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.00 0.03 0.08	3.19
22 07 19 00-0172	LF	3-1/2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.51 0.03 0.09	3.27
22 07 19 00-0173	LF	3-3/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.96 0.04 0.09	3.32
22 07 19 00-0174	LF	4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.51 0.04 0.10	3.41
22 07 19 00-0175	LF	4-1/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.06 0.04 0.10	3.50
22 07 19 00-0176	LF	4-1/2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.67 0.04 0.11	3.59
22 07 19 00-0177	LF	4-3/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.17 0.05 0.11	3.66



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0178 LF 5" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.78 0.05 0.12	3.75
22 07 19 00-0179 LF 5-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.42 0.05 0.13	3.85
22 07 19 00-0180 LF 5-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.96 0.05 0.13	3.93
22 07 19 00-0181 LF 5-3/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.65 0.05 0.14	4.05
22 07 19 00-0182 LF 6" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.34 0.06 0.14	4.17
22 07 19 00-0183 LF 6-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.82 0.06 0.15	4.23
22 07 19 00-0184 LF 6-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.30 0.06 0.15	4.29
22 07 19 00-0185 LF 7" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.12 0.07 0.16	4.39
22 07 19 00-0186 LF 7-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.76 0.07 0.17	4.50
22 07 19 00-0187 LF 7-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.28 0.07 0.17	4.57
22 07 19 00-0188 LF 8" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.02 0.07 0.19	4.65
22 07 19 00-0189 LF 8-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.76 0.08 0.20	4.73
22 07 19 00-0190 LF 9" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.69 0.08 0.21	4.85
22 07 19 00-0191 LF 9-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.50 0.09 0.22	4.94
22 07 19 00-0192 LF 10" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.29 0.09 0.23	5.03
22 07 19 00-0193 LF 10-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.09 0.10 0.24	5.12
22 07 19 00-0194 LF 11" ID, 0.0106 Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.11 0.10 0.25	5.26
22 07 19 00-0195 LF 11-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.97 0.11 0.26	5.36
22 07 19 00-0196 LF 12" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.82 0.11 0.27	5.46
22 07 19 00-0197 LF 12-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.92 0.11 0.29	5.62
22 07 19 00-0198 LF 13" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.59 0.12 0.30	5.68
22 07 19 00-0199 LF 14" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.73 0.13 0.32	5.74
22 07 19 00-0200 LF 15" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	37.09 0.14 0.34	5.86
22 07 19 00-0201 LF 16" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.24 0.15 0.36	5.92
22 07 19 00-0202 LF 17" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	39.62 0.15 0.39	6.05
22 07 19 00-0203 LF 18" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	40.49 0.16 0.40	6.12
22 07 19 00-0204 LF 19" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	42.22 0.17 0.43	6.25
22 07 19 00-0205 LF 20" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	43.40 0.18 0.45	6.32

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0206 LF 21" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	44.86 0.19 0.48	6.47
22 07 19 00-0207 LF 22" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	46.05 0.20 0.50	6.54
22 07 19 00-0208 LF 23" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	47.58 0.21 0.52	6.70
22 07 19 00-0209 LF 24" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	48.78 0.22 0.54	6.78
22 07 19 00-0210 40 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands <small>(22 07 19 00-0002)</small>		
22 07 19 00-0211 LF 1/2" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.70 0.01 0.02	2.94
22 07 19 00-0212 LF 3/4" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.25 0.01 0.03	3.01
22 07 19 00-0213 LF 1" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.80 0.01 0.04	3.08
22 07 19 00-0214 LF 1-1/4" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.38 0.02 0.04	3.15
22 07 19 00-0215 LF 1-1/2" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.85 0.02 0.05	3.20
22 07 19 00-0216 LF 1-3/4" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.32 0.02 0.06	3.25
22 07 19 00-0217 LF 2" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.85 0.03 0.06	3.31
22 07 19 00-0218 LF 2-1/4" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.41 0.03 0.07	3.39
22 07 19 00-0219 LF 2-1/2" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.01 0.03 0.08	3.46
22 07 19 00-0220 LF 2-3/4" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.52 0.03 0.09	3.52
22 07 19 00-0221 LF 3" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.14 0.04 0.09	3.60
22 07 19 00-0222 LF 3-1/4" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.74 0.04 0.10	3.68
22 07 19 00-0223 LF 3-1/2" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.36 0.04 0.11	3.76
22 07 19 00-0224 LF 3-3/4" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.89 0.05 0.11	3.83
22 07 19 00-0225 LF 4" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.55 0.05 0.12	3.92
22 07 19 00-0226 LF 4-1/4" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.21 0.05 0.13	4.02
22 07 19 00-0227 LF 4-1/2" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.92 0.05 0.14	4.12
22 07 19 00-0228 LF 4-3/4" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.53 0.06 0.14	4.20
22 07 19 00-0229 LF 5" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.26 0.06 0.15	4.31
22 07 19 00-0230 LF 5-1/4" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.00 0.06 0.16	4.43
22 07 19 00-0231 LF 5-1/2" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.66 0.07 0.16	4.52
22 07 19 00-0232 LF 5-3/4" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.48 0.07 0.17	4.65
22 07 19 00-0233 LF 6" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.30 0.07 0.18	4.80



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0234 LF 6-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.88 0.07 0.19	4.87
22 07 19 00-0235 LF 6-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.44 0.08 0.19	4.94
22 07 19 00-0236 LF 7" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.42 0.08 0.21	5.06
22 07 19 00-0237 LF 7-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.19 0.08 0.21	5.18
22 07 19 00-0238 LF 7-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.80 0.09 0.22	5.26
22 07 19 00-0239 LF 8" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.71 0.09 0.23	5.35
22 07 19 00-0240 LF 8-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.61 0.10 0.25	5.44
22 07 19 00-0241 LF 9" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.73 0.10 0.26	5.58
22 07 19 00-0242 LF 9-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.70 0.11 0.27	5.67
22 07 19 00-0243 LF 10" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.65 0.12 0.29	5.77
22 07 19 00-0244 LF 10-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.64 0.12 0.30	5.88
22 07 19 00-0245 LF 11" ID, 0.0106 Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.84 0.13 0.32	6.05
22 07 19 00-0246 LF 11-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	37.88 0.13 0.33	6.17
22 07 19 00-0247 LF 12" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.91 0.14 0.34	6.29
22 07 19 00-0248 LF 12-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	40.22 0.14 0.36	6.47
22 07 19 00-0249 LF 13" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	41.04 0.15 0.37	6.54
22 07 19 00-0250 LF 14" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	42.44 0.16 0.40	6.60
22 07 19 00-0251 LF 15" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	44.09 0.17 0.43	6.74
22 07 19 00-0252 LF 16" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	45.50 0.18 0.46	6.81
22 07 19 00-0253 LF 17" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	47.20 0.19 0.48	6.96
22 07 19 00-0254 LF 18" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	48.25 0.20 0.50	7.03
22 07 19 00-0255 LF 19" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	50.38 0.22 0.54	7.19
22 07 19 00-0256 LF 20" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	51.83 0.23 0.57	7.27
22 07 19 00-0257 LF 21" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	53.60 0.24 0.60	7.44
22 07 19 00-0258 LF 22" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	55.05 0.25 0.62	7.53
22 07 19 00-0259 LF 23" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	56.91 0.26 0.65	7.71
22 07 19 00-0260 LF 24" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	58.37 0.27 0.68	7.80
22 07 19 00-0261 Aluminum Insulation Protective Jacketing For Fittings (22 07 19 00-0002)		
22 07 19 00-0262 EA 1-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	17.55	3.02



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0263 EA 1-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	18.00	3.13
22 07 19 00-0264 EA 2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	19.90	3.25
22 07 19 00-0265 EA 2-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	20.10	3.30
22 07 19 00-0266 EA 2-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	20.31	3.36
22 07 19 00-0267 EA 2-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	20.63	3.44
22 07 19 00-0268 EA 3" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	21.56	3.53
22 07 19 00-0269 EA 3-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	21.92	3.62
22 07 19 00-0270 EA 3-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	23.53	3.68
22 07 19 00-0271 EA 3-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	24.02	3.75
22 07 19 00-0272 EA 4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	24.84	3.85
22 07 19 00-0273 EA 4-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	25.40	3.92
22 07 19 00-0274 EA 4-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	25.69	3.99
22 07 19 00-0275 EA 4-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	26.00	4.07
22 07 19 00-0276 EA 5" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	27.55	4.15
22 07 19 00-0277 EA 5-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	29.57	4.23
22 07 19 00-0278 EA 5-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	33.20	4.36
22 07 19 00-0279 EA 5-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	33.57	4.45
22 07 19 00-0280 EA 6" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	31.84	4.59
22 07 19 00-0281 EA 6-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	32.25	4.70
22 07 19 00-0282 EA 6-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	35.64	4.87
22 07 19 00-0283 EA 7" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	39.56	4.98
22 07 19 00-0284 EA 7-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	39.79	5.04
22 07 19 00-0285 EA 7-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	49.28	5.10
22 07 19 00-0286 EA 8" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	42.18	5.16
22 07 19 00-0287 EA 8-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	60.97	5.29
22 07 19 00-0288 EA 9" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	61.51	5.42
22 07 19 00-0289 EA 9-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	51.26	5.49
22 07 19 00-0290 EA 10" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	51.55	5.56
22 07 19 00-0291 EA 10-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	52.48	5.64
22 07 19 00-0292 EA 11" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	52.78	5.71
22 07 19 00-0293 EA 11-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	57.52	5.87
22 07 19 00-0294 EA 12" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	57.85	5.95
22 07 19 00-0295 EA 12-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	85.07	6.13
22 07 19 00-0296 EA 13" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	85.43	6.22
22 07 19 00-0297 EA 14" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	106.83	6.41
22 07 19 00-0298 EA 15" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	111.33	6.61
22 07 19 00-0299 EA 16" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	119.45	6.71
22 07 19 00-0300 EA 2-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	19.11	3.36
22 07 19 00-0301 EA 2-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	19.43	3.44
22 07 19 00-0302 EA 3" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	20.52	3.53
22 07 19 00-0303 EA 3-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	20.88	3.62
22 07 19 00-0304 EA 3-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	22.03	3.68
22 07 19 00-0305 EA 3-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	22.29	3.75
22 07 19 00-0306 EA 4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	22.82	3.85
22 07 19 00-0307 EA 4-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	24.16	3.92
22 07 19 00-0308 EA 4-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	24.45	3.99
22 07 19 00-0309 EA 4-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	24.76	4.07
22 07 19 00-0310 EA 5" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	26.55	4.15
22 07 19 00-0311 EA 5-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	26.89	4.23
22 07 19 00-0312 EA 5-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	27.90	4.36
22 07 19 00-0313 EA 6" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	28.85	4.59
22 07 19 00-0314 EA 6-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	33.89	4.87
22 07 19 00-0315 EA 7" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	34.35	4.98
22 07 19 00-0316 EA 7-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	34.96	5.10
22 07 19 00-0317 EA 8" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	35.21	5.16
22 07 19 00-0318 EA 8-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	39.28	5.29
22 07 19 00-0319 EA 9" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	39.82	5.42
22 07 19 00-0320 EA 9-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	47.14	5.49
22 07 19 00-0321 EA 10" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	47.43	5.56
22 07 19 00-0322 EA 10-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	46.10	5.64
22 07 19 00-0323 EA 11" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	46.40	5.71
22 07 19 00-0324 EA 11-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	51.78	5.87
22 07 19 00-0325 EA 12" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	52.11	5.95
22 07 19 00-0326 EA 13" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	58.07	6.22
22 07 19 00-0327 EA 14" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	66.36	6.41
22 07 19 00-0328 EA 15" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	89.20	6.61
22 07 19 00-0329 EA 16" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	94.88	6.71
22 07 19 00-0330 EA 17" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	93.71	6.82
22 07 19 00-0331 EA 18" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	103.51	6.93
22 07 19 00-0332 EA 19" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	120.76	7.05
22 07 19 00-0333 EA 20" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	118.19	7.17
22 07 19 00-0334 EA 21" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	125.81	7.29
22 07 19 00-0335 EA 2-1/2" ID, Aluminum Tee Insulation Jacketing.....	58.23	4.81
22 07 19 00-0336 EA 2-3/4" ID, Aluminum Tee Insulation Jacketing.....	58.69	4.92
22 07 19 00-0337 EA 3" ID, Aluminum Tee Insulation Jacketing.....	64.21	5.04
22 07 19 00-0338 EA 3-1/4" ID, Aluminum Tee Insulation Jacketing.....	64.70	5.16
22 07 19 00-0339 EA 3-1/2" ID, Aluminum Tee Insulation Jacketing.....	67.33	5.29
22 07 19 00-0340 EA 4" ID, Aluminum Tee Insulation Jacketing.....	68.37	5.42
22 07 19 00-0341 EA 4-1/4" ID, Aluminum Tee Insulation Jacketing.....	71.63	5.56
22 07 19 00-0342 EA 4-1/2" ID, Aluminum Tee Insulation Jacketing.....	71.83	5.71
22 07 19 00-0343 EA 4-3/4" ID, Aluminum Tee Insulation Jacketing.....	72.47	5.87



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0344 EA 5" ID, Aluminum Tee Insulation Jacketing.....	74.97	6.05
22 07 19 00-0345 EA 5-1/4" ID, Aluminum Tee Insulation Jacketing.....	75.68	6.22
22 07 19 00-0346 EA 5-1/2" ID, Aluminum Tee Insulation Jacketing.....	78.68	6.41
22 07 19 00-0347 EA 6" ID, Aluminum Tee Insulation Jacketing.....	79.49	6.61
22 07 19 00-0348 EA 6-1/2" ID, Aluminum Tee Insulation Jacketing.....	86.47	7.05
22 07 19 00-0349 EA 7" ID, Aluminum Tee Insulation Jacketing.....	87.44	7.29
22 07 19 00-0350 EA 7-1/2" ID, Aluminum Tee Insulation Jacketing.....	95.01	7.56
22 07 19 00-0351 EA 8" ID, Aluminum Tee Insulation Jacketing.....	96.13	7.83
22 07 19 00-0352 EA 8-1/2" ID, Aluminum Tee Insulation Jacketing.....	99.04	8.13
22 07 19 00-0353 EA 9" ID, Aluminum Tee Insulation Jacketing.....	100.34	8.46
22 07 19 00-0354 EA 9-1/2" ID, Aluminum Tee Insulation Jacketing.....	83.89	8.63
22 07 19 00-0355 EA 10" ID, Aluminum Tee Insulation Jacketing.....	84.60	8.82
22 07 19 00-0356 EA 10-1/2" ID, Aluminum Tee Insulation Jacketing.....	88.58	9.00
22 07 19 00-0357 EA 11" ID, Aluminum Tee Insulation Jacketing.....	89.36	9.20
22 07 19 00-0358 EA 11-1/2" ID, Aluminum Tee Insulation Jacketing.....	93.05	9.40
22 07 19 00-0359 EA 12" ID, Aluminum Tee Insulation Jacketing.....	93.90	9.61
22 07 19 00-0360 EA 13" ID, Aluminum Tee Insulation Jacketing.....	97.55	9.83
22 07 19 00-0361 EA 14" ID, Aluminum Tee Insulation Jacketing.....	101.34	10.08
22 07 19 00-0362 EA 15" ID, Aluminum Tee Insulation Jacketing.....	107.31	10.32
22 07 19 00-0363 EA 16" ID, Aluminum Tee Insulation Jacketing.....	110.00	10.57
22 07 19 00-0364 EA 17" ID, Aluminum Tee Insulation Jacketing.....	121.21	10.84
22 07 19 00-0365 EA 18" ID, Aluminum Tee Insulation Jacketing.....	125.38	11.13
22 07 19 00-0366 EA 19" ID, Aluminum Tee Insulation Jacketing.....	135.14	11.44
22 07 19 00-0367 EA 20" ID, Aluminum Tee Insulation Jacketing.....	138.36	11.75
22 07 19 00-0368 EA 22" ID, Aluminum Tee Insulation Jacketing.....	164.58	12.08
22 07 19 00-0369 EA 23" ID, Aluminum Tee Insulation Jacketing.....	169.23	12.44
22 07 19 00-0370 EA 24" ID, Aluminum Tee Insulation Jacketing.....	177.16	13.64
22 07 19 00-0371	Stainless Steel Insulation Protective Jacketing With Bands (22 07 19 00-0001)	
22 07 19 00-0372	Type 304 Stainless Steel Roll, Insulation Protective Jacketing With Bands (22 07 19 00-0371)	
22 07 19 00-0373 SF 0.010" Stainless Steel Insulation Jacket With Bands.....	19.55	7.93
22 07 19 00-0374 SF 0.016" Stainless Steel Insulation Jacket With Bands.....	23.95	9.52
22 07 19 00-0375	10 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands (22 07 19 00-0371)	
22 07 19 00-0376 LF 2-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	10.58	1.69
22 07 19 00-0377 LF 2-3/4" ID, 0.010" Stainless Steel Insulation Jacketing.....	11.05	1.72
22 07 19 00-0378 LF 3" ID, 0.010" Stainless Steel Insulation Jacketing.....	11.53	1.76
22 07 19 00-0379 LF 3-1/4" ID, 0.010" Stainless Steel Insulation Jacketing.....	12.03	1.80
22 07 19 00-0380 LF 3-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	12.53	1.84
22 07 19 00-0381 LF 3-3/4" ID, 0.010" Stainless Steel Insulation Jacketing.....	13.03	1.88
22 07 19 00-0382 LF 4" ID, 0.010" Stainless Steel Insulation Jacketing.....	13.53	1.92
22 07 19 00-0383 LF 4-1/4" ID, 0.010" Stainless Steel Insulation Jacketing.....	14.05	1.96
22 07 19 00-0384 LF 4-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	14.58	2.02
22 07 19 00-0385 LF 5" ID, 0.010" Stainless Steel Insulation Jacketing.....	15.66	2.12
22 07 19 00-0386 LF 5-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	16.78	2.23
22 07 19 00-0387 LF 6" ID, 0.010" Stainless Steel Insulation Jacketing.....	17.95	2.35
22 07 19 00-0388 LF 6-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	18.89	2.42
22 07 19 00-0389 LF 7" ID, 0.010" Stainless Steel Insulation Jacketing.....	19.86	2.49
22 07 19 00-0390 LF 7-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	20.90	2.58
22 07 19 00-0391 LF 8" ID, 0.010" Stainless Steel Insulation Jacketing.....	21.76	2.63
22 07 19 00-0392 LF 8-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	22.64	2.68
22 07 19 00-0393 LF 9" ID, 0.010" Stainless Steel Insulation Jacketing.....	23.52	2.73
22 07 19 00-0394 LF 9-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	24.42	2.78
22 07 19 00-0395 LF 10" ID, 0.010" Stainless Steel Insulation Jacketing.....	25.32	2.84
22 07 19 00-0396 LF 10-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	26.24	2.90
22 07 19 00-0397 LF 11" ID, 0.010" Stainless Steel Insulation Jacketing.....	27.15	2.96
22 07 19 00-0398 LF 12" ID, 0.010" Stainless Steel Insulation Jacketing.....	29.01	3.08
22 07 19 00-0399 LF 13" ID, 0.010" Stainless Steel Insulation Jacketing.....	30.84	3.20
22 07 19 00-0400 LF 14" ID, 0.010" Stainless Steel Insulation Jacketing.....	32.39	3.25
22 07 19 00-0401	16 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands (22 07 19 00-0371)	
22 07 19 00-0402 LF 2-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	14.52	2.25
22 07 19 00-0403 LF 2-3/4" ID, 0.016" Stainless Steel Insulation Jacketing.....	15.20	2.30
22 07 19 00-0404 LF 3" ID, 0.016" Stainless Steel Insulation Jacketing.....	15.88	2.35
22 07 19 00-0405 LF 3-1/4" ID, 0.016" Stainless Steel Insulation Jacketing.....	16.58	2.40
22 07 19 00-0406 LF 3-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	17.28	2.45
22 07 19 00-0407 LF 3-3/4" ID, 0.016" Stainless Steel Insulation Jacketing.....	17.98	2.50
22 07 19 00-0408 LF 4" ID, 0.016" Stainless Steel Insulation Jacketing.....	18.70	2.56
22 07 19 00-0409 LF 4-1/4" ID, 0.016" Stainless Steel Insulation Jacketing.....	19.43	2.62
22 07 19 00-0410 LF 4-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	20.16	2.68
22 07 19 00-0411 LF 5" ID, 0.016" Stainless Steel Insulation Jacketing.....	21.69	2.81
22 07 19 00-0412 LF 5-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	23.26	2.96
22 07 19 00-0413 LF 6" ID, 0.016" Stainless Steel Insulation Jacketing.....	24.89	3.12
22 07 19 00-0414 LF 6-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	26.23	3.21

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0415 LF 7" ID, 0.016" Stainless Steel Insulation Jacketing	27.61	3.30
22 07 19 00-0416 LF 7-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	29.06	3.43
22 07 19 00-0417 LF 8" ID, 0.016" Stainless Steel Insulation Jacketing	30.29	3.50
22 07 19 00-0418 LF 8-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	31.54	3.56
22 07 19 00-0419 LF 9" ID, 0.016" Stainless Steel Insulation Jacketing	32.81	3.63
22 07 19 00-0420 LF 9-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	34.06	3.70
22 07 19 00-0421 LF 10" ID, 0.016" Stainless Steel Insulation Jacketing	35.34	3.78
22 07 19 00-0422 LF 10-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	36.66	3.85
22 07 19 00-0423 LF 11" ID, 0.0106 Stainless Steel Insulation Jacketing	37.95	3.93
22 07 19 00-0424 LF 12" ID, 0.016" Stainless Steel Insulation Jacketing	40.58	4.11
22 07 19 00-0425 LF 13" ID, 0.016" Stainless Steel Insulation Jacketing	43.19	4.26
22 07 19 00-0426 LF 14" ID, 0.016" Stainless Steel Insulation Jacketing	45.40	4.32

22 07 19 00-0427 Type 316 Stainless Steel Insulation Protective Jacketing For Fittings (22 07 19 00-

22 07 19 00-0428 EA 2-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	30.26	3.36
22 07 19 00-0429 EA 2-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	30.58	3.44
22 07 19 00-0430 EA 3" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	31.69	3.53
22 07 19 00-0431 EA 3-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	32.05	3.62
22 07 19 00-0432 EA 3-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	33.19	3.68
22 07 19 00-0433 EA 3-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	34.50	3.75
22 07 19 00-0434 EA 4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	36.85	3.85
22 07 19 00-0435 EA 4-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	44.21	3.92
22 07 19 00-0436 EA 4-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	44.50	3.99
22 07 19 00-0437 EA 5" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	45.78	4.15
22 07 19 00-0438 EA 5-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	60.96	4.36
22 07 19 00-0439 EA 6" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	66.16	4.59
22 07 19 00-0440 EA 6-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	85.21	4.87
22 07 19 00-0441 EA 7" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	85.67	4.98
22 07 19 00-0442 EA 7-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	97.16	5.10
22 07 19 00-0443 EA 8" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	97.93	5.29
22 07 19 00-0444 EA 8-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	100.54	5.29
22 07 19 00-0445 EA 9" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	142.45	5.42
22 07 19 00-0446 EA 9-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	140.63	5.49
22 07 19 00-0447 EA 10" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	140.92	5.56
22 07 19 00-0448 EA 10-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	164.53	5.64
22 07 19 00-0449 EA 11" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	158.39	5.71
22 07 19 00-0450 EA 12" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	177.69	5.95
22 07 19 00-0451 EA 13" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	238.05	6.22
22 07 19 00-0452 EA 14" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	240.24	6.41
22 07 19 00-0453 EA 2-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	27.46	3.36
22 07 19 00-0454 EA 2-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	27.78	3.44
22 07 19 00-0455 EA 3" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	29.19	3.53
22 07 19 00-0456 EA 3-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	29.55	3.62
22 07 19 00-0457 EA 3-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	29.99	3.68
22 07 19 00-0458 EA 3-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	30.25	3.75
22 07 19 00-0459 EA 4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	35.02	3.85
22 07 19 00-0460 EA 4-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	43.24	3.92
22 07 19 00-0461 EA 4-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	43.53	3.99
22 07 19 00-0462 EA 4-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	43.84	4.07
22 07 19 00-0463 EA 5" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	44.62	4.15
22 07 19 00-0464 EA 5-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	45.48	4.36
22 07 19 00-0465 EA 6" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	51.65	4.59
22 07 19 00-0466 EA 6-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	52.71	4.87
22 07 19 00-0467 EA 7" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	76.19	4.98
22 07 19 00-0468 EA 7-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	77.82	5.10
22 07 19 00-0469 EA 8" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	78.07	5.16
22 07 19 00-0470 EA 8-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	88.36	5.29
22 07 19 00-0471 EA 9" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	88.90	5.42
22 07 19 00-0472 EA 9-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	100.88	5.49
22 07 19 00-0473 EA 10" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	101.17	5.56
22 07 19 00-0474 EA 10-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	117.39	5.64
22 07 19 00-0475 EA 11" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	117.69	5.71
22 07 19 00-0476 EA 12" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	126.82	5.95
22 07 19 00-0477 EA 13" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	146.07	6.22

22 07 19 00-0478 Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0001)

22 07 19 00-0479 20 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0478)

22 07 19 00-0480 LF 1-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	6.59	1.56
22 07 19 00-0481 LF 2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	6.94	1.62
22 07 19 00-0482 LF 2-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	7.28	1.69
22 07 19 00-0483 LF 3" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	7.67	1.76
22 07 19 00-0484 LF 3-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	8.06	1.84
22 07 19 00-0485 LF 4" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	8.48	1.92
22 07 19 00-0486 LF 4-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	8.95	2.02
22 07 19 00-0487 LF 5" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	9.43	2.12
22 07 19 00-0488 LF 5-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	9.97	2.23
22 07 19 00-0489 LF 6" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	10.56	2.35
22 07 19 00-0490 LF 6-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	10.92	2.42



MINOR	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0491	LF	7" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	11.28	2.49
22 07 19 00-0492	LF	7-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	11.76	2.58
22 07 19 00-0493	LF	8" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	12.03	2.63
22 07 19 00-0494	LF	8-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	12.33	2.68
22 07 19 00-0495	LF	9" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	12.62	2.73
22 07 19 00-0496	LF	9-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	12.93	2.78
22 07 19 00-0497	LF	10" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	13.24	2.84
22 07 19 00-0498	LF	10-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	13.57	2.90
22 07 19 00-0499	LF	11" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	13.90	2.96
22 07 19 00-0500	LF	11-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	14.25	3.02
22 07 19 00-0501	LF	12" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	14.60	3.08
22 07 19 00-0502	LF	12-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	14.98	3.15
22 07 19 00-0503	LF	13" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	15.26	3.20
22 07 19 00-0504	LF	13-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	15.35	3.20
22 07 19 00-0505	LF	14" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	15.64	3.25
22 07 19 00-0506	LF	15" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	16.03	3.30
22 07 19 00-0507	LF	16" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	16.42	3.36
22 07 19 00-0508	LF	17" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	16.82	3.42
22 07 19 00-0509	LF	18" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	17.23	3.47
22 07 19 00-0510	LF	19" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	17.64	3.53
22 07 19 00-0511	LF	20" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	18.07	3.59
22 07 19 00-0512	LF	21" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	18.49	3.65
22 07 19 00-0513	LF	22" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	18.93	3.71
22 07 19 00-0514	LF	23" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	19.37	3.78
22 07 19 00-0515	LF	24" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	19.84	3.85
22 07 19 00-0516	LF	25" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	20.31	3.92
22 07 19 00-0517	LF	26" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	20.78	3.99
22 07 19 00-0518	LF	27" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	21.28	4.07
22 07 19 00-0519	LF	28" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	21.76	4.15
22 07 19 00-0520	LF	29" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	22.29	4.23
22 07 19 00-0521	LF	30" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	22.82	4.31
22 07 19 00-0522 30 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0478)				
22 07 19 00-0523	LF	2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	7.14	1.62
22 07 19 00-0524	LF	2-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	7.54	1.69
22 07 19 00-0525	LF	3" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	7.97	1.76
22 07 19 00-0526	LF	3-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	8.40	1.84
22 07 19 00-0527	LF	4" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	8.86	1.92
22 07 19 00-0528	LF	4-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	9.37	2.02
22 07 19 00-0529	LF	5" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	9.90	2.12
22 07 19 00-0530	LF	5-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	10.48	2.23
22 07 19 00-0531	LF	6" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	11.11	2.35
22 07 19 00-0532	LF	6-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	11.51	2.42
22 07 19 00-0533	LF	7" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	11.93	2.49
22 07 19 00-0534	LF	7-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	12.45	2.58
22 07 19 00-0535	LF	8" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	12.77	2.63
22 07 19 00-0536	LF	8-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	13.11	2.68
22 07 19 00-0537	LF	9" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	13.44	2.73
22 07 19 00-0538	LF	9-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	13.80	2.78
22 07 19 00-0539	LF	10" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	14.16	2.84
22 07 19 00-0540	LF	10-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	14.52	2.90
22 07 19 00-0541	LF	11" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	14.90	2.96
22 07 19 00-0542	LF	11-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	15.28	3.02
22 07 19 00-0543	LF	12" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	15.69	3.08
22 07 19 00-0544	LF	12-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	16.11	3.15
22 07 19 00-0545	LF	13" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	16.44	3.20
22 07 19 00-0546	LF	13-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	16.58	3.20
22 07 19 00-0547	LF	14" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	16.91	3.25
22 07 19 00-0548	LF	15" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	17.38	3.30
22 07 19 00-0549	LF	16" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	17.86	3.36
22 07 19 00-0550	LF	17" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	18.34	3.42
22 07 19 00-0551	LF	18" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	18.84	3.47
22 07 19 00-0552	LF	19" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	19.35	3.53
22 07 19 00-0553	LF	20" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	19.86	3.59
22 07 19 00-0554	LF	21" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	20.38	3.65
22 07 19 00-0555	LF	22" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	20.90	3.71
22 07 19 00-0556	LF	23" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	21.43	3.78
22 07 19 00-0557	LF	24" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	21.98	3.85
22 07 19 00-0558	LF	25" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	22.55	3.92
22 07 19 00-0559	LF	26" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	23.11	3.99
22 07 19 00-0560	LF	27" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	23.69	4.07
22 07 19 00-0561	LF	28" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	24.27	4.15
22 07 19 00-0562	LF	29" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	24.88	4.23
22 07 19 00-0563	LF	30" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	25.48	4.31
22 07 19 00-0564 Polyvinyl Chloride (PVC) Insulation Protective Jacketing For Fittings (22 07 19 00-0478)				
22 07 19 00-0565	EA	1-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	13.27	3.13
22 07 19 00-0566	EA	2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	13.94	3.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0567 EA 2-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	14.24	3.30
22 07 19 00-0568 EA 2-1/2"ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	14.56	3.36
22 07 19 00-0569 EA 2-3/4"ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	14.97	3.44
22 07 19 00-0570 EA 3" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	15.39	3.53
22 07 19 00-0571 EA 3-3/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	16.06	3.65
22 07 19 00-0572 EA 3-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	16.61	3.75
22 07 19 00-0573 EA 4-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	17.45	3.85
22 07 19 00-0574 EA 4-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	18.61	4.03
22 07 19 00-0575 EA 5-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	19.84	4.23
22 07 19 00-0576 EA 5-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	21.66	4.45
22 07 19 00-0577 EA 6-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	25.22	4.70
22 07 19 00-0578 EA 6-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	26.21	4.87
22 07 19 00-0579 EA 7-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	28.38	4.98
22 07 19 00-0580 EA 7-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	29.26	5.10
22 07 19 00-0581 EA 8-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	32.58	5.29
22 07 19 00-0582 EA 9-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	37.23	5.49
22 07 19 00-0583 EA 10-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	39.90	5.71
22 07 19 00-0584 EA 11-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	43.36	5.95
22 07 19 00-0585 EA 12-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	49.54	6.22
22 07 19 00-0586 EA 14-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	53.82	6.41
22 07 19 00-0587 EA 15-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	56.73	6.61
22 07 19 00-0588 EA 16-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	59.91	6.71
22 07 19 00-0589 EA 17-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	63.96	6.82
22 07 19 00-0590 EA 18-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	75.06	6.93
22 07 19 00-0591 EA 19-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	92.44	7.05
22 07 19 00-0592 EA 20-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	111.23	7.17
22 07 19 00-0593 EA 1-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	13.27	3.13
22 07 19 00-0594 EA 2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	13.94	3.25
22 07 19 00-0595 EA 2-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	14.24	3.30
22 07 19 00-0596 EA 2-1/2"ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	14.56	3.36
22 07 19 00-0597 EA 2-3/4"ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	14.97	3.44
22 07 19 00-0598 EA 3" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	15.39	3.53
22 07 19 00-0599 EA 3-3/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	16.06	3.65
22 07 19 00-0600 EA 3-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	16.61	3.75
22 07 19 00-0601 EA 4-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	17.45	3.85
22 07 19 00-0602 EA 4-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	18.61	4.03
22 07 19 00-0603 EA 5-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	19.84	4.23
22 07 19 00-0604 EA 5-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	21.66	4.45
22 07 19 00-0605 EA 6-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	25.22	4.70
22 07 19 00-0606 EA 6-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	26.21	4.87
22 07 19 00-0607 EA 7-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	28.38	4.98
22 07 19 00-0608 EA 7-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	29.26	5.10
22 07 19 00-0609 EA 8-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	32.58	5.29
22 07 19 00-0610 EA 9-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	37.23	5.49
22 07 19 00-0611 EA 10-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	39.89	5.71
22 07 19 00-0612 EA 11-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	42.61	5.95
22 07 19 00-0613 EA 12-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	45.84	6.22
22 07 19 00-0614 EA 14-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	49.58	6.41
22 07 19 00-0615 EA 15-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	52.14	6.61
22 07 19 00-0616 EA 16-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	56.19	6.71
22 07 19 00-0617 EA 17-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	60.33	6.82
22 07 19 00-0618 EA 18-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	68.12	6.93
22 07 19 00-0619 EA 19-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	83.28	7.05
22 07 19 00-0620 EA 20-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	91.06	7.17
22 07 19 00-0621 EA 1-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	19.02	4.40
22 07 19 00-0622 EA 2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	19.58	4.50
22 07 19 00-0623 EA 2-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	20.31	4.64
22 07 19 00-0624 EA 2-1/2"ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	21.10	4.81
22 07 19 00-0625 EA 2-3/4"ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	21.98	4.98
22 07 19 00-0626 EA 3" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	22.88	5.16
22 07 19 00-0627 EA 3-3/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	24.00	5.35
22 07 19 00-0628 EA 3-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	25.19	5.56
22 07 19 00-0629 EA 4-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	26.64	5.79
22 07 19 00-0630 EA 4-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	28.49	6.05
22 07 19 00-0631 EA 5-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	30.45	6.32
22 07 19 00-0632 EA 5-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	33.76	6.71
22 07 19 00-0633 EA 6-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	37.27	7.05
22 07 19 00-0634 EA 6-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	39.90	7.17
22 07 19 00-0635 EA 7-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	47.83	7.42
22 07 19 00-0636 EA 7-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	51.23	7.83
22 07 19 00-0637 EA 8-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	56.73	8.13
22 07 19 00-0638 EA 9-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	62.37	8.46
22 07 19 00-0639 EA 10-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	64.11	8.82
22 07 19 00-0640 EA 11-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	68.08	9.00
22 07 19 00-0641 EA 12-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	72.06	9.20
22 07 19 00-0642 EA 14-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	76.11	9.40
22 07 19 00-0643 EA 15-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	80.15	9.61
22 07 19 00-0644 EA 16-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	84.26	9.83
22 07 19 00-0645 EA 17-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	88.38	10.08
22 07 19 00-0646 EA 18-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	94.21	10.32
22 07 19 00-0647 EA 19-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	100.06	10.57



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0648 EA 20-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	107.02	10.84
22 07 19 00-0649 EA 3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	17.94	3.02
22 07 19 00-0650 EA 1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	17.94	3.02
22 07 19 00-0651 EA 1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	19.95	3.13
22 07 19 00-0652 EA 1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	19.95	3.13
22 07 19 00-0653 EA 2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	24.72	3.25
22 07 19 00-0654 EA 2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	26.52	3.39
22 07 19 00-0655 EA 3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	28.65	3.53
22 07 19 00-0656 EA 3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	31.55	3.68
22 07 19 00-0657 EA 4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	34.14	3.85
22 07 19 00-0658 EA 5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	40.25	4.23
22 07 19 00-0659 EA 6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	53.26	4.70
22 07 19 00-0660 EA 8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	58.68	5.29
22 07 19 00-0661 EA 10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	70.58	5.64
22 07 19 00-0662 EA 12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	93.93	6.22
22 07 19 00-0663 EA 14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	95.21	6.51
22 07 19 00-0664 EA 16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	120.93	6.71
22 07 19 00-0665 EA 18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	157.13	6.93
22 07 19 00-0666 EA 3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	17.29	3.02
22 07 19 00-0667 EA 1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	17.29	3.02
22 07 19 00-0668 EA 1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	19.17	3.13
22 07 19 00-0669 EA 1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	19.17	3.13
22 07 19 00-0670 EA 2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	23.44	3.25
22 07 19 00-0671 EA 2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	25.09	3.39
22 07 19 00-0672 EA 3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	27.09	3.53
22 07 19 00-0673 EA 3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	28.41	3.68
22 07 19 00-0674 EA 4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	32.07	3.85
22 07 19 00-0675 EA 5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	37.68	4.23
22 07 19 00-0676 EA 6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	49.48	4.70
22 07 19 00-0677 EA 8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	54.53	5.29
22 07 19 00-0678 EA 10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	65.30	5.64
22 07 19 00-0679 EA 12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	86.38	6.22
22 07 19 00-0680 EA 14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	106.03	6.51
22 07 19 00-0681 EA 16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	123.77	6.71
22 07 19 00-0682 EA 18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	142.13	6.93
22 07 19 00-0683 EA 3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	25.83	4.54
22 07 19 00-0684 EA 1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	25.83	4.54
22 07 19 00-0685 EA 1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	28.44	4.70
22 07 19 00-0686 EA 1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	28.44	4.70
22 07 19 00-0687 EA 2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	34.65	4.87
22 07 19 00-0688 EA 2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	37.05	5.04
22 07 19 00-0689 EA 3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	40.06	5.29
22 07 19 00-0690 EA 3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	42.01	5.49
22 07 19 00-0691 EA 4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	47.64	5.79
22 07 19 00-0692 EA 5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	52.21	6.32
22 07 19 00-0693 EA 6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	68.08	7.05
22 07 19 00-0694 EA 8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	74.57	7.83
22 07 19 00-0695 EA 10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	96.26	8.46
22 07 19 00-0696 EA 12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	126.52	9.20
22 07 19 00-0697 EA 14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	147.74	9.83
22 07 19 00-0698 EA 16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	170.31	10.08
22 07 19 00-0699 EA 18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	184.52	10.32
22 07 19 00-0700 Insulation Foam Rubber (22 07 19)		
22 07 19 00-0701 Covering 4x6 Sheet (22 07 19 00-0700)		
22 07 19 00-0702 SF 1" Thick Foam Rubber Sheet Insulation.....	19.71	7.51
22 07 19 00-0703 Fiberglass Pipe Insulation (22 07 19)		
Note: Includes factory applied All Service Jacket (ASJ), Self Sealing Lap (SSL) longitudinal seam, butt strip seals, and adhesive. Excludes insulation for fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.		
22 07 19 00-0704 1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)		
22 07 19 00-0705 LF 1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	7.92	2.33
For Single Layer Of Felt Finish, Add	0.17	
For Work In Restricted Working Space, Add	1.89	
22 07 19 00-0706 LF 3/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	8.10	2.33
For Single Layer Of Felt Finish, Add	0.19	
For Work In Restricted Working Space, Add	1.89	
22 07 19 00-0707 LF 1" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	8.60	2.43
For Single Layer Of Felt Finish, Add	0.20	
For Work In Restricted Working Space, Add	2.00	
22 07 19 00-0708 LF 1-1/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	8.93	2.54
For Single Layer Of Felt Finish, Add	0.22	
For Work In Restricted Working Space, Add	2.04	
22 07 19 00-0709 LF 1-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	9.18	2.54
For Single Layer Of Felt Finish, Add	0.24	
For Work In Restricted Working Space, Add	2.08	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0710 LF 2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	9.72	2.64
For Single Layer Of Felt Finish, Add	0.25	
For Work In Restricted Working Space, Add	2.19	
22 07 19 00-0711 LF 2-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.21	2.75
For Single Layer Of Felt Finish, Add	0.29	
For Work In Restricted Working Space, Add	2.23	
22 07 19 00-0712 LF 3" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.78	2.85
For Single Layer Of Felt Finish, Add	0.33	
For Work In Restricted Working Space, Add	2.30	
22 07 19 00-0713 LF 4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	12.28	3.06
For Single Layer Of Felt Finish, Add	0.42	
For Work In Restricted Working Space, Add	2.49	
22 07 19 00-0714 LF 6" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	14.50	3.60
For Single Layer Of Felt Finish, Add	0.51	
For Work In Restricted Working Space, Add	2.91	
22 07 19 00-0715 1" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)		
22 07 19 00-0716 LF 1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.62	3.17
For Single Layer Of Felt Finish, Add	0.20	
For Work In Restricted Working Space, Add	2.61	
22 07 19 00-0717 LF 3/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.90	3.17
For Single Layer Of Felt Finish, Add	0.23	
For Work In Restricted Working Space, Add	2.61	
22 07 19 00-0718 LF 1" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	11.08	3.17
For Single Layer Of Felt Finish, Add	0.24	
For Work In Restricted Working Space, Add	2.65	
22 07 19 00-0719 LF 1-1/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	11.49	3.27
For Single Layer Of Felt Finish, Add	0.27	
For Work In Restricted Working Space, Add	2.68	
22 07 19 00-0720 LF 1-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	11.82	3.27
For Single Layer Of Felt Finish, Add	0.29	
For Work In Restricted Working Space, Add	2.72	
22 07 19 00-0721 LF 2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	12.32	3.39
For Single Layer Of Felt Finish, Add	0.32	
For Work In Restricted Working Space, Add	2.80	
22 07 19 00-0722 LF 2-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	13.00	3.60
For Single Layer Of Felt Finish, Add	0.35	
For Work In Restricted Working Space, Add	2.91	
22 07 19 00-0723 LF 3" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	13.68	3.70
For Single Layer Of Felt Finish, Add	0.39	
For Work In Restricted Working Space, Add	2.98	
22 07 19 00-0724 LF 4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	15.51	3.91
For Single Layer Of Felt Finish, Add	0.51	
For Work In Restricted Working Space, Add	3.21	
22 07 19 00-0725 LF 6" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	17.96	4.54
For Single Layer Of Felt Finish, Add	0.62	
For Work In Restricted Working Space, Add	3.62	
22 07 19 00-0726 LF 8" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	22.26	5.08
For Single Layer Of Felt Finish, Add	0.88	
For Work In Restricted Working Space, Add	4.15	
22 07 19 00-0727 LF 10" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	26.18	6.03
For Single Layer Of Felt Finish, Add	1.03	
For Work In Restricted Working Space, Add	4.91	
22 07 19 00-0728 LF 12" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	30.03	6.87
For Single Layer Of Felt Finish, Add	1.17	
For Work In Restricted Working Space, Add	5.66	
22 07 19 00-0729 LF 14" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	32.47	7.51
For Single Layer Of Felt Finish, Add	1.36	
For Work In Restricted Working Space, Add	5.87	
22 07 19 00-0730 1-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)		
22 07 19 00-0731 LF 1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	12.98	3.26
For Single Layer Of Felt Finish, Add	0.41	
For Work In Restricted Working Space, Add	2.72	
22 07 19 00-0732 LF 3/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	13.15	3.26
For Single Layer Of Felt Finish, Add	0.43	
For Work In Restricted Working Space, Add	2.72	
22 07 19 00-0733 LF 1" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	13.90	3.46
For Single Layer Of Felt Finish, Add	0.45	
For Work In Restricted Working Space, Add	2.88	
22 07 19 00-0734 LF 1-1/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	14.41	3.54
For Single Layer Of Felt Finish, Add	0.49	
For Work In Restricted Working Space, Add	2.93	
22 07 19 00-0735 LF 1-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	14.84	3.60
For Single Layer Of Felt Finish, Add	0.51	
For Work In Restricted Working Space, Add	2.99	
22 07 19 00-0736 LF 2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	15.83	3.79
For Single Layer Of Felt Finish, Add	0.56	
For Work In Restricted Working Space, Add	3.15	
22 07 19 00-0737 LF 2-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	16.54	3.85
For Single Layer Of Felt Finish, Add	0.62	
For Work In Restricted Working Space, Add	3.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0738 LF 3" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.08	3.99
<i>For Single Layer Of Felt Finish, Add</i>	0.63	
<i>For Work In Restricted Working Space, Add</i>	3.31	
22 07 19 00-0739 LF 4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.86	4.31
<i>For Single Layer Of Felt Finish, Add</i>	0.73	
<i>For Work In Restricted Working Space, Add</i>	3.58	
22 07 19 00-0740 LF 6" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	21.83	5.04
<i>For Single Layer Of Felt Finish, Add</i>	0.83	
<i>For Work In Restricted Working Space, Add</i>	4.18	
22 07 19 00-0741 LF 8" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	24.60	5.31
<i>For Single Layer Of Felt Finish, Add</i>	1.04	
<i>For Work In Restricted Working Space, Add</i>	4.41	
22 07 19 00-0742 LF 10" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.08	6.36
<i>For Single Layer Of Felt Finish, Add</i>	1.31	
<i>For Work In Restricted Working Space, Add</i>	5.28	
22 07 19 00-0743 LF 12" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	34.08	7.41
<i>For Single Layer Of Felt Finish, Add</i>	1.43	
<i>For Work In Restricted Working Space, Add</i>	6.15	
22 07 19 00-0744 LF 14" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	38.19	8.11
<i>For Single Layer Of Felt Finish, Add</i>	1.65	
<i>For Work In Restricted Working Space, Add</i>	6.74	
22 07 19 00-0745 2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)		
22 07 19 00-0746 LF 1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.10	3.60
<i>For Single Layer Of Felt Finish, Add</i>	0.65	
<i>For Work In Restricted Working Space, Add</i>	2.98	
22 07 19 00-0747 LF 3/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.30	3.60
<i>For Single Layer Of Felt Finish, Add</i>	0.67	
<i>For Work In Restricted Working Space, Add</i>	2.98	
22 07 19 00-0748 LF 1" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.89	3.70
<i>For Single Layer Of Felt Finish, Add</i>	0.72	
<i>For Work In Restricted Working Space, Add</i>	3.02	
22 07 19 00-0749 LF 1-1/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.39	3.70
<i>For Single Layer Of Felt Finish, Add</i>	0.75	
<i>For Work In Restricted Working Space, Add</i>	3.06	
22 07 19 00-0750 LF 1-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.92	3.81
<i>For Single Layer Of Felt Finish, Add</i>	0.80	
<i>For Work In Restricted Working Space, Add</i>	3.10	
22 07 19 00-0751 LF 2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.60	3.91
<i>For Single Layer Of Felt Finish, Add</i>	0.83	
<i>For Work In Restricted Working Space, Add</i>	3.21	
22 07 19 00-0752 LF 2-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	19.56	4.02
<i>For Single Layer Of Felt Finish, Add</i>	0.89	
<i>For Work In Restricted Working Space, Add</i>	3.32	
22 07 19 00-0753 LF 3" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.61	4.23
<i>For Single Layer Of Felt Finish, Add</i>	0.96	
<i>For Work In Restricted Working Space, Add</i>	3.44	
22 07 19 00-0754 LF 4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	22.56	4.44
<i>For Single Layer Of Felt Finish, Add</i>	1.10	
<i>For Work In Restricted Working Space, Add</i>	3.62	
22 07 19 00-0755 LF 6" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.68	5.21
<i>For Single Layer Of Felt Finish, Add</i>	1.28	
<i>For Work In Restricted Working Space, Add</i>	4.35	
22 07 19 00-0756 LF 8" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.36	5.51
<i>For Single Layer Of Felt Finish, Add</i>	1.58	
<i>For Work In Restricted Working Space, Add</i>	4.59	
22 07 19 00-0757 LF 10" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	36.33	6.59
<i>For Single Layer Of Felt Finish, Add</i>	1.89	
<i>For Work In Restricted Working Space, Add</i>	5.50	
22 07 19 00-0758 LF 12" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	41.71	7.90
<i>For Single Layer Of Felt Finish, Add</i>	2.08	
<i>For Work In Restricted Working Space, Add</i>	6.58	
22 07 19 00-0759 LF 14" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	52.97	8.61
<i>For Single Layer Of Felt Finish, Add</i>	2.35	
<i>For Work In Restricted Working Space, Add</i>	9.18	
22 07 19 00-0760 LF 16" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	56.07	10.10
<i>For Single Layer Of Felt Finish, Add</i>	2.67	
<i>For Work In Restricted Working Space, Add</i>	9.18	
22 07 19 00-0761 LF 18" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	62.39	10.61
<i>For Single Layer Of Felt Finish, Add</i>	3.18	
<i>For Work In Restricted Working Space, Add</i>	9.64	
22 07 19 00-0762 LF 20" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	70.69	12.12
<i>For Single Layer Of Felt Finish, Add</i>	3.57	
<i>For Work In Restricted Working Space, Add</i>	11.02	
22 07 19 00-0763 LF 24" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	82.02	14.65
<i>For Single Layer Of Felt Finish, Add</i>	3.95	
<i>For Work In Restricted Working Space, Add</i>	13.31	
22 07 19 00-0764 2-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)		
22 07 19 00-0765 LF 1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.04	4.23
<i>For Single Layer Of Felt Finish, Add</i>	0.90	
<i>For Work In Restricted Working Space, Add</i>	3.44	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0766	LF		3/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	20.34	4.23
			<i>For Single Layer Of Felt Finish, Add</i>	0.93	
			<i>For Work In Restricted Working Space, Add</i>	3.44	
22 07 19 00-0767	LF		1" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	21.15	4.23
			<i>For Single Layer Of Felt Finish, Add</i>	1.00	
			<i>For Work In Restricted Working Space, Add</i>	3.50	
22 07 19 00-0768	LF		1-1/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	21.77	4.33
			<i>For Single Layer Of Felt Finish, Add</i>	1.05	
			<i>For Work In Restricted Working Space, Add</i>	3.52	
22 07 19 00-0769	LF		1-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	22.42	4.33
			<i>For Single Layer Of Felt Finish, Add</i>	1.11	
			<i>For Work In Restricted Working Space, Add</i>	3.55	
22 07 19 00-0770	LF		2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	23.35	4.54
			<i>For Single Layer Of Felt Finish, Add</i>	1.16	
			<i>For Work In Restricted Working Space, Add</i>	3.70	
22 07 19 00-0771	LF		2-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	24.68	4.65
			<i>For Single Layer Of Felt Finish, Add</i>	1.25	
			<i>For Work In Restricted Working Space, Add</i>	3.82	
22 07 19 00-0772	LF		3" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	25.89	4.87
			<i>For Single Layer Of Felt Finish, Add</i>	1.33	
			<i>For Work In Restricted Working Space, Add</i>	3.96	
22 07 19 00-0773	LF		4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	28.68	5.08
			<i>For Single Layer Of Felt Finish, Add</i>	1.55	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
22 07 19 00-0774	LF		6" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	32.91	5.39
			<i>For Single Layer Of Felt Finish, Add</i>	1.80	
			<i>For Work In Restricted Working Space, Add</i>	4.74	
22 07 19 00-0775	LF		8" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	44.22	6.45
			<i>For Single Layer Of Felt Finish, Add</i>	2.79	
			<i>For Work In Restricted Working Space, Add</i>	5.29	
22 07 19 00-0776	LF		10" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	52.87	7.41
			<i>For Single Layer Of Felt Finish, Add</i>	3.42	
			<i>For Work In Restricted Working Space, Add</i>	6.10	
22 07 19 00-0777	LF		12" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	59.92	9.20
			<i>For Single Layer Of Felt Finish, Add</i>	3.64	
			<i>For Work In Restricted Working Space, Add</i>	7.58	
22 07 19 00-0778	LF		14" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	67.84	10.16
			<i>For Single Layer Of Felt Finish, Add</i>	4.23	
			<i>For Work In Restricted Working Space, Add</i>	8.27	
22 07 19 00-0779	LF		16" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	79.60	12.90
			<i>For Single Layer Of Felt Finish, Add</i>	4.66	
			<i>For Work In Restricted Working Space, Add</i>	10.57	
22 07 19 00-0780	LF		18" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	85.69	13.53
			<i>For Single Layer Of Felt Finish, Add</i>	5.11	
			<i>For Work In Restricted Working Space, Add</i>	11.10	
22 07 19 00-0781	LF		20" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	97.22	15.44
			<i>For Single Layer Of Felt Finish, Add</i>	5.77	
			<i>For Work In Restricted Working Space, Add</i>	12.69	
22 07 19 00-0782	LF		24" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	114.24	18.65
			<i>For Single Layer Of Felt Finish, Add</i>	6.63	
			<i>For Work In Restricted Working Space, Add</i>	15.33	
22 07 19 00-0783			3" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)		
22 07 19 00-0784	LF		1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	22.09	4.68
			<i>For Single Layer Of Felt Finish, Add</i>	0.99	
			<i>For Work In Restricted Working Space, Add</i>	3.81	
22 07 19 00-0785	LF		3/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	22.41	4.68
			<i>For Single Layer Of Felt Finish, Add</i>	1.02	
			<i>For Work In Restricted Working Space, Add</i>	3.81	
22 07 19 00-0786	LF		1" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	23.26	4.72
			<i>For Single Layer Of Felt Finish, Add</i>	1.10	
			<i>For Work In Restricted Working Space, Add</i>	3.85	
22 07 19 00-0787	LF		1-1/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	23.92	4.75
			<i>For Single Layer Of Felt Finish, Add</i>	1.16	
			<i>For Work In Restricted Working Space, Add</i>	3.87	
22 07 19 00-0788	LF		1-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	24.67	4.80
			<i>For Single Layer Of Felt Finish, Add</i>	1.22	
			<i>For Work In Restricted Working Space, Add</i>	3.92	
22 07 19 00-0789	LF		2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	25.63	4.98
			<i>For Single Layer Of Felt Finish, Add</i>	1.27	
			<i>For Work In Restricted Working Space, Add</i>	4.06	
22 07 19 00-0790	LF		2-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	27.10	5.15
			<i>For Single Layer Of Felt Finish, Add</i>	1.38	
			<i>For Work In Restricted Working Space, Add</i>	4.20	
22 07 19 00-0791	LF		3" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	28.44	5.34
			<i>For Single Layer Of Felt Finish, Add</i>	1.46	
			<i>For Work In Restricted Working Space, Add</i>	4.35	
22 07 19 00-0792	LF		4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	31.53	5.63
			<i>For Single Layer Of Felt Finish, Add</i>	1.70	
			<i>For Work In Restricted Working Space, Add</i>	4.59	
22 07 19 00-0793	LF		6" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	36.14	6.40
			<i>For Single Layer Of Felt Finish, Add</i>	1.97	
			<i>For Work In Restricted Working Space, Add</i>	5.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0794 LF 8" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i>	48.57 3.06	7.12
<i>For Work In Restricted Working Space, Add</i>	5.81	
22 07 19 00-0795 LF 10" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i>	58.08 3.75	8.22
<i>For Work In Restricted Working Space, Add</i>	6.71	
22 07 19 00-0796 LF 12" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i>	65.83 3.99	10.23
<i>For Work In Restricted Working Space, Add</i>	8.34	
22 07 19 00-0797 LF 14" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i>	74.52 4.64	11.16
<i>For Work In Restricted Working Space, Add</i>	9.10	
22 07 19 00-0798 LF 16" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i>	87.45 5.11	14.27
<i>For Work In Restricted Working Space, Add</i>	11.63	
22 07 19 00-0799 LF 18" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i>	94.13 5.61	14.98
<i>For Work In Restricted Working Space, Add</i>	12.21	
22 07 19 00-0800 LF 20" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i>	106.83 6.33	17.13
<i>For Work In Restricted Working Space, Add</i>	13.97	
22 07 19 00-0801 LF 24" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i>	125.51 7.28	20.68
<i>For Work In Restricted Working Space, Add</i>	16.87	
22 07 19 00-0802 3-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)		
22 07 19 00-0803 LF 1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i>	23.80 1.04	5.08
<i>For Work In Restricted Working Space, Add</i>	4.17	
22 07 19 00-0804 LF 3/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i>	24.17 1.08	5.08
<i>For Work In Restricted Working Space, Add</i>	4.17	
22 07 19 00-0805 LF 1" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i>	25.40 1.20	5.08
<i>For Work In Restricted Working Space, Add</i>	4.20	
22 07 19 00-0806 LF 1-1/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i>	26.11 1.26	5.18
<i>For Work In Restricted Working Space, Add</i>	4.23	
22 07 19 00-0807 LF 1-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i>	26.97 1.33	5.18
<i>For Work In Restricted Working Space, Add</i>	4.28	
22 07 19 00-0808 LF 2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i>	27.97 1.39	5.39
<i>For Work In Restricted Working Space, Add</i>	4.43	
22 07 19 00-0809 LF 2-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i>	29.58 1.50	5.60
<i>For Work In Restricted Working Space, Add</i>	4.58	
22 07 19 00-0810 LF 3" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i>	30.94 1.59	5.81
<i>For Work In Restricted Working Space, Add</i>	4.74	
22 07 19 00-0811 LF 4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i>	34.45 1.86	6.14
<i>For Work In Restricted Working Space, Add</i>	5.01	
22 07 19 00-0812 LF 6" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i>	39.47 2.15	6.98
<i>For Work In Restricted Working Space, Add</i>	5.69	
22 07 19 00-0813 LF 8" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i>	53.03 3.35	7.72
<i>For Work In Restricted Working Space, Add</i>	6.34	
22 07 19 00-0814 LF 10" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i>	63.44 4.10	8.89
<i>For Work In Restricted Working Space, Add</i>	7.31	
22 07 19 00-0815 LF 12" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i>	71.89 4.37	11.10
<i>For Work In Restricted Working Space, Add</i>	9.09	
22 07 19 00-0816 LF 14" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i>	81.42 5.07	12.16
<i>For Work In Restricted Working Space, Add</i>	9.93	
22 07 19 00-0817 LF 16" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i>	95.55 5.59	15.44
<i>For Work In Restricted Working Space, Add</i>	12.69	
22 07 19 00-0818 LF 18" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i>	102.82 6.13	16.28
<i>For Work In Restricted Working Space, Add</i>	13.32	
22 07 19 00-0819 LF 20" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i>	116.71 6.92	18.61
<i>For Work In Restricted Working Space, Add</i>	15.24	
22 07 19 00-0820 LF 24" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i>	137.10 7.96	22.42
<i>For Work In Restricted Working Space, Add</i>	18.40	

22 07 19 00-0821 4" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0822	LF		1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....27.00 For Single Layer Of Felt Finish, Add 1.21 For Work In Restricted Working Space, Add 4.64	27.00	5.71
22 07 19 00-0823	LF		3/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....27.41 For Single Layer Of Felt Finish, Add 1.26 For Work In Restricted Working Space, Add 4.64	27.41	5.71
22 07 19 00-0824	LF		1" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....28.53 For Single Layer Of Felt Finish, Add 1.35 For Work In Restricted Working Space, Add 4.72	28.53	5.71
22 07 19 00-0825	LF		1-1/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....29.45 For Single Layer Of Felt Finish, Add 1.42 For Work In Restricted Working Space, Add 4.77	29.45	5.81
22 07 19 00-0826	LF		1-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....30.68 For Single Layer Of Felt Finish, Add 1.50 For Work In Restricted Working Space, Add 4.92	30.68	6.03
22 07 19 00-0827	LF		2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....31.81 For Single Layer Of Felt Finish, Add 1.56 For Work In Restricted Working Space, Add 5.07	31.81	6.24
22 07 19 00-0828	LF		2-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....33.27 For Single Layer Of Felt Finish, Add 1.69 For Work In Restricted Working Space, Add 5.15	33.27	6.24
22 07 19 00-0829	LF		3" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....34.95 For Single Layer Of Felt Finish, Add 1.80 For Work In Restricted Working Space, Add 5.34	34.95	6.56
22 07 19 00-0830	LF		4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....38.73 For Single Layer Of Felt Finish, Add 2.09 For Work In Restricted Working Space, Add 5.64	38.73	6.87
22 07 19 00-0831	LF		6" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....44.40 For Single Layer Of Felt Finish, Add 2.42 For Work In Restricted Working Space, Add 6.40	44.40	7.83
22 07 19 00-0832	LF		8" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....59.66 For Single Layer Of Felt Finish, Add 3.77 For Work In Restricted Working Space, Add 7.13	59.66	8.46
22 07 19 00-0833	LF		10" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....71.39 For Single Layer Of Felt Finish, Add 4.61 For Work In Restricted Working Space, Add 8.24	71.39	10.05
22 07 19 00-0834	LF		12" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....80.91 For Single Layer Of Felt Finish, Add 4.91 For Work In Restricted Working Space, Add 10.23	80.91	12.47
22 07 19 00-0835	LF		14" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....91.62 For Single Layer Of Felt Finish, Add 5.71 For Work In Restricted Working Space, Add 11.18	91.62	13.64
22 07 19 00-0836	LF		16" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....107.54 For Single Layer Of Felt Finish, Add 6.29 For Work In Restricted Working Space, Add 14.29	107.54	17.45
22 07 19 00-0837	LF		18" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....115.62 For Single Layer Of Felt Finish, Add 6.90 For Work In Restricted Working Space, Add 14.97	115.62	18.30
22 07 19 00-0838	LF		20" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....129.58 For Single Layer Of Felt Finish, Add 7.61 For Work In Restricted Working Space, Add 17.14	129.58	20.94
22 07 19 00-0839	LF		24" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....154.26 For Single Layer Of Felt Finish, Add 8.95 For Work In Restricted Working Space, Add 20.71	154.26	25.27
22 07 19 00-0840	LF		26" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....175.93 For Single Layer Of Felt Finish, Add 9.93 For Work In Restricted Working Space, Add 24.40	175.93	29.82
22 07 19 00-0841	LF		28" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....197.97 For Single Layer Of Felt Finish, Add 10.73 For Work In Restricted Working Space, Add 28.73	197.97	35.10
22 07 19 00-0842	LF		30" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....222.81 For Single Layer Of Felt Finish, Add 11.48 For Work In Restricted Working Space, Add 34.04	222.81	41.45
22 07 19 00-0843	LF		36" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....268.49 For Single Layer Of Felt Finish, Add 13.04 For Work In Restricted Working Space, Add 43.28	268.49	52.70
22 07 19 00-0844	LF		42" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....314.18 For Single Layer Of Felt Finish, Add 14.61 For Work In Restricted Working Space, Add 52.52	314.18	64.18
22 07 19 00-0845	LF		44" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....337.44 For Single Layer Of Felt Finish, Add 15.17 For Work In Restricted Working Space, Add 57.89	337.44	70.53
22 07 19 00-0846	LF		46" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....358.44 For Single Layer Of Felt Finish, Add 15.78 For Work In Restricted Working Space, Add 62.45	358.44	75.92

22 07 19 00-0847 **Foamglas Pipe Insulation, Rigid, Closed Cell** (22 07 19)
 Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.

22 07 19 00-0848			1" Thick Foamglas Pipe Insulation <small>(22 07 19 00-0847)</small>		
22 07 19 00-0849	LF		1/2" Diameter Pipe, 1" Thick Foamglas Insulation .....18.05 For Work In Restricted Working Space, Add 4.69	18.05	5.16



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0850 LF 3/4" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	18.66 4.69	5.16
22 07 19 00-0851 LF 1" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	19.51 4.76	5.23
22 07 19 00-0852 LF 1-1/4" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	19.94 4.82	5.31
22 07 19 00-0853 LF 1-1/2" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	20.58 4.89	5.38
22 07 19 00-0854 LF 2" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	21.82 5.03	5.53
22 07 19 00-0855 LF 2-1/2" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	23.39 5.24	5.76
22 07 19 00-0856 LF 3" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	25.04 5.37	5.91
22 07 19 00-0857 LF 4" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	28.66 5.78	6.36
22 07 19 00-0858 LF 6" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	35.95 6.52	7.17
22 07 19 00-0859 1-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0847)		
22 07 19 00-0860 LF 1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	21.04 5.03	5.72
22 07 19 00-0861 LF 3/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	21.43 5.03	5.72
22 07 19 00-0862 LF 1" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	22.05 5.10	5.79
22 07 19 00-0863 LF 1-1/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	22.55 5.17	5.86
22 07 19 00-0864 LF 1-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	23.02 5.24	5.95
22 07 19 00-0865 LF 2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	24.79 5.41	6.15
22 07 19 00-0866 LF 2-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	27.75 5.61	6.38
22 07 19 00-0867 LF 3" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	30.37 5.78	6.57
22 07 19 00-0868 LF 4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	34.15 6.15	6.99
22 07 19 00-0869 LF 6" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	40.04 6.97	7.92
22 07 19 00-0870 LF 8" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	44.75 7.77	8.83
22 07 19 00-0871 LF 10" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	54.01 8.96	10.19
22 07 19 00-0872 LF 12" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	64.40 11.13	12.65
22 07 19 00-0873 LF 14" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	71.39 12.10	13.31
22 07 19 00-0874 LF 16" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	78.71 13.52	14.87
22 07 19 00-0875 LF 18" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	89.62 15.99	17.58
22 07 19 00-0876 LF 20" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	100.02 17.70	19.47
22 07 19 00-0877 LF 24" Diameter Pipe, 1-1/2" Thick Fiberglass Insulation <i>For Work In Restricted Working Space, Add</i>	123.34 19.61	21.57
22 07 19 00-0878 2" Thick Foamglas Pipe Insulation (22 07 19 00-0847)		
22 07 19 00-0879 LF 1/2" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	23.48 5.37	5.91
22 07 19 00-0880 LF 3/4" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	24.09 5.37	5.91
22 07 19 00-0881 LF 1" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	24.90 5.44	5.97
22 07 19 00-0882 LF 1-1/4" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	26.07 5.51	6.06
22 07 19 00-0883 LF 1-1/2" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	27.26 5.57	6.14
22 07 19 00-0884 LF 2" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	30.19 5.78	6.36
22 07 19 00-0885 LF 2-1/2" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	31.61 5.98	6.59
22 07 19 00-0886 LF 3" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	33.77 6.18	6.80
22 07 19 00-0887 LF 4" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	37.77 6.53	7.18
22 07 19 00-0888 LF 6" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	44.93 7.41	8.15
22 07 19 00-0889 LF 8" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	50.03 8.27	9.10
22 07 19 00-0890 LF 10" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	60.57 9.53	10.48

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0891 LF 12" Diameter Pipe, 2" Thick Foamglas Insulation	75.05	13.03
<i>For Work In Restricted Working Space, Add</i>	11.84	
22 07 19 00-0892 LF 14" Diameter Pipe, 2" Thick Foamglas Insulation	80.34	14.23
<i>For Work In Restricted Working Space, Add</i>	12.93	
22 07 19 00-0893 LF 16" Diameter Pipe, 2" Thick Foamglas Insulation	95.73	18.18
<i>For Work In Restricted Working Space, Add</i>	16.52	
22 07 19 00-0894 LF 18" Diameter Pipe, 2" Thick Foamglas Insulation	103.97	19.08
<i>For Work In Restricted Working Space, Add</i>	17.35	
22 07 19 00-0895 LF 20" Diameter Pipe, 2" Thick Foamglas Insulation	115.40	21.81
<i>For Work In Restricted Working Space, Add</i>	19.83	
22 07 19 00-0896 LF 24" Diameter Pipe, 2" Thick Foamglas Insulation	144.20	26.35
<i>For Work In Restricted Working Space, Add</i>	23.96	
22 07 19 00-0897 2-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0847)		
22 07 19 00-0898 LF 1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	28.10	6.41
<i>For Work In Restricted Working Space, Add</i>	5.83	
22 07 19 00-0899 LF 3/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	29.11	6.40
<i>For Work In Restricted Working Space, Add</i>	5.82	
22 07 19 00-0900 LF 1" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	30.46	6.50
<i>For Work In Restricted Working Space, Add</i>	5.92	
22 07 19 00-0901 LF 1-1/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	31.64	6.56
<i>For Work In Restricted Working Space, Add</i>	5.96	
22 07 19 00-0902 LF 1-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	32.83	6.61
<i>For Work In Restricted Working Space, Add</i>	6.01	
22 07 19 00-0903 LF 2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	35.08	6.87
<i>For Work In Restricted Working Space, Add</i>	6.26	
22 07 19 00-0904 LF 2-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	37.22	7.11
<i>For Work In Restricted Working Space, Add</i>	6.47	
22 07 19 00-0905 LF 3" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	40.22	7.36
<i>For Work In Restricted Working Space, Add</i>	6.69	
22 07 19 00-0906 LF 4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	44.81	7.76
<i>For Work In Restricted Working Space, Add</i>	7.06	
22 07 19 00-0907 LF 6" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	53.34	8.83
<i>For Work In Restricted Working Space, Add</i>	8.03	
22 07 19 00-0908 LF 8" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	59.44	9.84
<i>For Work In Restricted Working Space, Add</i>	8.95	
22 07 19 00-0909 LF 10" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	67.88	11.34
<i>For Work In Restricted Working Space, Add</i>	10.32	
22 07 19 00-0910 LF 12" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	84.51	14.11
<i>For Work In Restricted Working Space, Add</i>	12.82	
22 07 19 00-0911 LF 14" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	88.48	15.40
<i>For Work In Restricted Working Space, Add</i>	14.00	
22 07 19 00-0912 LF 16" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	105.14	19.68
<i>For Work In Restricted Working Space, Add</i>	17.89	
22 07 19 00-0913 LF 18" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	113.94	20.66
<i>For Work In Restricted Working Space, Add</i>	18.79	
22 07 19 00-0914 LF 20" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	130.93	23.61
<i>For Work In Restricted Working Space, Add</i>	21.47	
22 07 19 00-0915 LF 24" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	163.43	28.54
<i>For Work In Restricted Working Space, Add</i>	25.94	
22 07 19 00-0916 3" Thick Foamglas Pipe Insulation (22 07 19 00-0847)		
22 07 19 00-0917 LF 1/2" Diameter Pipe, 3" Thick Foamglas Insulation	33.46	6.81
<i>For Work In Restricted Working Space, Add</i>	6.20	
22 07 19 00-0918 LF 3/4" Diameter Pipe, 3" Thick Foamglas Insulation	34.07	6.81
<i>For Work In Restricted Working Space, Add</i>	6.20	
22 07 19 00-0919 LF 1" Diameter Pipe, 3" Thick Foamglas Insulation	35.03	6.92
<i>For Work In Restricted Working Space, Add</i>	6.29	
22 07 19 00-0920 LF 1-1/4" Diameter Pipe, 3" Thick Foamglas Insulation	35.79	6.97
<i>For Work In Restricted Working Space, Add</i>	6.34	
22 07 19 00-0921 LF 1-1/2" Diameter Pipe, 3" Thick Foamglas Insulation	36.59	7.03
<i>For Work In Restricted Working Space, Add</i>	6.39	
22 07 19 00-0922 LF 2" Diameter Pipe, 3" Thick Foamglas Insulation	39.20	7.31
<i>For Work In Restricted Working Space, Add</i>	6.65	
22 07 19 00-0923 LF 2-1/2" Diameter Pipe, 3" Thick Foamglas Insulation	41.68	7.57
<i>For Work In Restricted Working Space, Add</i>	6.88	
22 07 19 00-0924 LF 3" Diameter Pipe, 3" Thick Foamglas Insulation	46.97	7.84
<i>For Work In Restricted Working Space, Add</i>	7.12	
22 07 19 00-0925 LF 4" Diameter Pipe, 3" Thick Foamglas Insulation	53.25	8.26
<i>For Work In Restricted Working Space, Add</i>	7.51	
22 07 19 00-0926 LF 6" Diameter Pipe, 3" Thick Foamglas Insulation	58.49	9.39
<i>For Work In Restricted Working Space, Add</i>	8.54	
22 07 19 00-0927 LF 8" Diameter Pipe, 3" Thick Foamglas Insulation	65.99	10.47
<i>For Work In Restricted Working Space, Add</i>	9.52	
22 07 19 00-0928 LF 10" Diameter Pipe, 3" Thick Foamglas Insulation	78.51	12.08
<i>For Work In Restricted Working Space, Add</i>	10.97	
22 07 19 00-0929 LF 12" Diameter Pipe, 3" Thick Foamglas Insulation	91.70	15.00
<i>For Work In Restricted Working Space, Add</i>	13.64	
22 07 19 00-0930 LF 14" Diameter Pipe, 3" Thick Foamglas Insulation	98.34	16.38
<i>For Work In Restricted Working Space, Add</i>	14.89	
22 07 19 00-0931 LF 16" Diameter Pipe, 3" Thick Foamglas Insulation	118.11	20.94
<i>For Work In Restricted Working Space, Add</i>	19.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0932 LF 18" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	126.22 19.99	21.98
22 07 19 00-0933 LF 20" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	147.59 22.84	25.13
22 07 19 00-0934 LF 24" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	180.25 27.59	30.36
22 07 19 00-0935 3-1/2" Thick Foamglas Pipe Insulation <small>(22 07 19 00-0847)</small>		
22 07 19 00-0936 LF 1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	40.32 7.51	8.26
22 07 19 00-0937 LF 3/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	41.09 7.51	8.26
22 07 19 00-0938 LF 1" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	42.04 7.56	8.31
22 07 19 00-0939 LF 1-1/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	42.97 7.61	8.36
22 07 19 00-0940 LF 1-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	44.06 7.70	8.47
22 07 19 00-0941 LF 2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	48.21 7.97	8.77
22 07 19 00-0942 LF 2-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	52.40 8.25	9.07
22 07 19 00-0943 LF 3" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	55.25 8.54	9.39
22 07 19 00-0944 LF 4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	59.11 9.02	9.92
22 07 19 00-0945 LF 6" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	67.97 10.25	11.27
22 07 19 00-0946 LF 8" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	77.15 11.41	12.55
22 07 19 00-0947 LF 10" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	92.03 13.17	14.49
22 07 19 00-0948 LF 12" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	109.17 16.37	18.00
22 07 19 00-0949 LF 14" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	114.31 17.87	19.66
22 07 19 00-0950 LF 16" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	137.77 22.84	25.13
22 07 19 00-0951 LF 18" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	150.84 23.98	26.38
22 07 19 00-0952 LF 20" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	171.80 27.43	30.17
22 07 19 00-0953 LF 24" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	210.68 33.12	36.42
22 07 19 00-0954 4" Thick Foamglas Pipe Insulation <small>(22 07 19 00-0847)</small>		
22 07 19 00-0955 LF 1/2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	49.14 9.23	10.16
22 07 19 00-0956 LF 3/4" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	50.14 9.23	10.16
22 07 19 00-0957 LF 1" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	51.66 9.38	10.32
22 07 19 00-0958 LF 1-1/4" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	53.03 9.50	10.45
22 07 19 00-0959 LF 1-1/2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	55.02 9.79	10.77
22 07 19 00-0960 LF 2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	59.18 10.10	11.10
22 07 19 00-0961 LF 2-1/2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	62.86 10.25	11.28
22 07 19 00-0962 LF 3" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	65.92 10.63	11.70
22 07 19 00-0963 LF 4" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	72.17 11.86	13.04
22 07 19 00-0964 LF 6" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	82.98 12.73	14.00
22 07 19 00-0965 LF 8" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	93.38 13.80	15.18
22 07 19 00-0966 LF 10" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	107.26 16.40	18.04
22 07 19 00-0967 LF 12" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	125.93 20.37	22.41
22 07 19 00-0968 LF 14" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	136.99 22.25	24.46
22 07 19 00-0969 LF 16" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	163.64 28.45	31.28
22 07 19 00-0970 LF 18" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	181.12 29.81	32.79
22 07 19 00-0971 LF 20" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	203.38 34.12	37.53
22 07 19 00-0972 LF 24" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	256.92 41.22	45.34



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0973			Flexible Polyethylene Tubing Closed Cell Foam Insulation (22 07 19) Note: UV resistant standard temperature (-90 Degree F To +212 Degree F). For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
22 07 19 00-0974			3/8" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0973)		
22 07 19 00-0975	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	6.68	3.16	
		<i>For Work In Restricted Working Space, Add</i>	1.90		
22 07 19 00-0976	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	6.69	3.16	
		<i>For Work In Restricted Working Space, Add</i>	1.91		
22 07 19 00-0977	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	6.95	3.27	
		<i>For Work In Restricted Working Space, Add</i>	1.97		
22 07 19 00-0978	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	7.22	3.39	
		<i>For Work In Restricted Working Space, Add</i>	2.03		
22 07 19 00-0979	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	7.45	3.45	
		<i>For Work In Restricted Working Space, Add</i>	2.06		
22 07 19 00-0980	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	7.73	3.50	
		<i>For Work In Restricted Working Space, Add</i>	2.10		
22 07 19 00-0981	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	7.84	3.50	
		<i>For Work In Restricted Working Space, Add</i>	2.11		
22 07 19 00-0982	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	8.13	3.50	
		<i>For Work In Restricted Working Space, Add</i>	2.12		
22 07 19 00-0983	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	8.72	3.61	
		<i>For Work In Restricted Working Space, Add</i>	2.18		
22 07 19 00-0984	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	9.00	3.67	
		<i>For Work In Restricted Working Space, Add</i>	2.22		
22 07 19 00-0985			1/2" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0973)		
22 07 19 00-0986	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	7.37	3.45	
		<i>For Work In Restricted Working Space, Add</i>	2.06		
22 07 19 00-0987	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	7.45	3.45	
		<i>For Work In Restricted Working Space, Add</i>	2.08		
22 07 19 00-0988	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	7.57	3.50	
		<i>For Work In Restricted Working Space, Add</i>	2.10		
22 07 19 00-0989	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	7.70	3.52	
		<i>For Work In Restricted Working Space, Add</i>	2.12		
22 07 19 00-0990	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	8.05	3.61	
		<i>For Work In Restricted Working Space, Add</i>	2.17		
22 07 19 00-0991	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	8.33	3.67	
		<i>For Work In Restricted Working Space, Add</i>	2.20		
22 07 19 00-0992	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	8.67	3.72	
		<i>For Work In Restricted Working Space, Add</i>	2.24		
22 07 19 00-0993	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	9.06	3.78	
		<i>For Work In Restricted Working Space, Add</i>	2.27		
22 07 19 00-0994	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	9.74	3.89	
		<i>For Work In Restricted Working Space, Add</i>	2.33		
22 07 19 00-0995	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	10.44	3.94	
		<i>For Work In Restricted Working Space, Add</i>	2.37		
22 07 19 00-0996	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	11.08	4.00	
		<i>For Work In Restricted Working Space, Add</i>	2.40		
22 07 19 00-0997	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	11.49	4.05	
		<i>For Work In Restricted Working Space, Add</i>	2.43		
22 07 19 00-0998			3/4" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0973)		
22 07 19 00-0999	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	8.18	3.72	
		<i>For Work In Restricted Working Space, Add</i>	2.24		
22 07 19 00-1000	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	8.28	3.78	
		<i>For Work In Restricted Working Space, Add</i>	2.27		
22 07 19 00-1001	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	8.76	3.89	
		<i>For Work In Restricted Working Space, Add</i>	2.33		
22 07 19 00-1002	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	8.98	3.94	
		<i>For Work In Restricted Working Space, Add</i>	2.37		
22 07 19 00-1003	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	9.56	4.05	
		<i>For Work In Restricted Working Space, Add</i>	2.43		
22 07 19 00-1004	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	10.13	4.11	
		<i>For Work In Restricted Working Space, Add</i>	2.46		
22 07 19 00-1005	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	10.40	4.13	
		<i>For Work In Restricted Working Space, Add</i>	2.48		
22 07 19 00-1006	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	11.42	4.17	
		<i>For Work In Restricted Working Space, Add</i>	2.50		
22 07 19 00-1007	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	12.86	4.27	
		<i>For Work In Restricted Working Space, Add</i>	2.57		
22 07 19 00-1008	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	12.97	4.33	
		<i>For Work In Restricted Working Space, Add</i>	2.60		
22 07 19 00-1009	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	14.00	4.39	
		<i>For Work In Restricted Working Space, Add</i>	2.63		
22 07 19 00-1010	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	14.45	4.44	
		<i>For Work In Restricted Working Space, Add</i>	2.67		
22 07 19 00-1011			1" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0973)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1012 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....9.25 <i>For Work In Restricted Working Space, Add</i>	2.46	4.11
22 07 19 00-1013 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....9.47 <i>For Work In Restricted Working Space, Add</i>	2.50	4.17
22 07 19 00-1014 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....10.13 <i>For Work In Restricted Working Space, Add</i>	2.57	4.27
22 07 19 00-1015 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....10.35 <i>For Work In Restricted Working Space, Add</i>	2.60	4.33
22 07 19 00-1016 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....11.33 <i>For Work In Restricted Working Space, Add</i>	2.67	4.44
22 07 19 00-1017 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....11.84 <i>For Work In Restricted Working Space, Add</i>	2.73	4.55
22 07 19 00-1018 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....12.04 <i>For Work In Restricted Working Space, Add</i>	2.76	4.61
22 07 19 00-1019 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....12.97 <i>For Work In Restricted Working Space, Add</i>	2.80	4.66
22 07 19 00-1020 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....13.65 <i>For Work In Restricted Working Space, Add</i>	2.87	4.78
22 07 19 00-1021 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation .....14.23 <i>For Work In Restricted Working Space, Add</i>	2.90	4.84
22 07 19 00-1022 Flexible Elastomeric Tubing Closed Cell Foam Insulation <small>(22 07 19)</small>		
<i>Note: For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.</i>		
22 07 19 00-1023 3/8" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-1022)</small>		
22 07 19 00-1024 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....7.12 <i>For Work In Restricted Working Space, Add</i>	1.90	3.16
22 07 19 00-1025 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....7.25 <i>For Work In Restricted Working Space, Add</i>	1.91	3.16
22 07 19 00-1026 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....7.54 <i>For Work In Restricted Working Space, Add</i>	1.97	3.27
22 07 19 00-1027 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....7.72 <i>For Work In Restricted Working Space, Add</i>	2.00	3.33
22 07 19 00-1028 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....7.91 <i>For Work In Restricted Working Space, Add</i>	2.03	3.39
22 07 19 00-1029 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....8.17 <i>For Work In Restricted Working Space, Add</i>	2.06	3.45
22 07 19 00-1030 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....8.40 <i>For Work In Restricted Working Space, Add</i>	2.10	3.50
22 07 19 00-1031 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....8.64 <i>For Work In Restricted Working Space, Add</i>	2.11	3.50
22 07 19 00-1032 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....8.84 <i>For Work In Restricted Working Space, Add</i>	2.12	3.50
22 07 19 00-1033 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....9.05 <i>For Work In Restricted Working Space, Add</i>	2.13	3.56
22 07 19 00-1034 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....9.36 <i>For Work In Restricted Working Space, Add</i>	2.17	3.61
22 07 19 00-1035 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....9.62 <i>For Work In Restricted Working Space, Add</i>	2.18	3.61
22 07 19 00-1036 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....9.80 <i>For Work In Restricted Working Space, Add</i>	2.20	3.67
22 07 19 00-1037 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....10.09 <i>For Work In Restricted Working Space, Add</i>	2.22	3.67
22 07 19 00-1038 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....10.68 <i>For Work In Restricted Working Space, Add</i>	2.24	3.72
22 07 19 00-1039 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....11.37 <i>For Work In Restricted Working Space, Add</i>	2.27	3.78
22 07 19 00-1040 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....12.15 <i>For Work In Restricted Working Space, Add</i>	2.28	3.80
22 07 19 00-1041 1/2" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-1022)</small>		
22 07 19 00-1042 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....8.07 <i>For Work In Restricted Working Space, Add</i>	2.06	3.45
22 07 19 00-1043 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....8.18 <i>For Work In Restricted Working Space, Add</i>	2.08	3.45
22 07 19 00-1044 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....8.32 <i>For Work In Restricted Working Space, Add</i>	2.10	3.50
22 07 19 00-1045 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....8.51 <i>For Work In Restricted Working Space, Add</i>	2.11	3.50
22 07 19 00-1046 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....8.66 <i>For Work In Restricted Working Space, Add</i>	2.12	3.50
22 07 19 00-1047 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....9.03 <i>For Work In Restricted Working Space, Add</i>	2.17	3.61
22 07 19 00-1048 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....9.37 <i>For Work In Restricted Working Space, Add</i>	2.20	3.67
22 07 19 00-1049 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....9.69 <i>For Work In Restricted Working Space, Add</i>	2.24	3.72
22 07 19 00-1050 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....10.01 <i>For Work In Restricted Working Space, Add</i>	2.25	3.76
22 07 19 00-1051 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....10.27 <i>For Work In Restricted Working Space, Add</i>	2.27	3.78

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1052	LF	2" IPS (2-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	11.27	3.84
		<i>For Work In Restricted Working Space, Add</i>	2.30	
22 07 19 00-1053	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	11.86	3.89
		<i>For Work In Restricted Working Space, Add</i>	2.33	
22 07 19 00-1054	LF	2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	12.32	3.92
		<i>For Work In Restricted Working Space, Add</i>	2.35	
22 07 19 00-1055	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	12.69	3.94
		<i>For Work In Restricted Working Space, Add</i>	2.37	
22 07 19 00-1056	LF	3" IPS (3-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	12.97	3.98
		<i>For Work In Restricted Working Space, Add</i>	2.38	
22 07 19 00-1057	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	13.20	4.00
		<i>For Work In Restricted Working Space, Add</i>	2.40	
22 07 19 00-1058	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	14.35	4.05
		<i>For Work In Restricted Working Space, Add</i>	2.43	
22 07 19 00-1059	LF	4" IPS (4-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	14.61	4.08
		<i>For Work In Restricted Working Space, Add</i>	2.45	
22 07 19 00-1060	LF	5" I.D. (5-9/16" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	15.73	4.11
		<i>For Work In Restricted Working Space, Add</i>	2.46	
22 07 19 00-1061	LF	6" IPS (6-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	17.04	4.22
		<i>For Work In Restricted Working Space, Add</i>	2.53	
22 07 19 00-1062	LF	8" IPS (8-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	18.52	4.33
		<i>For Work In Restricted Working Space, Add</i>	2.60	
22 07 19 00-1063		3/4" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-1022)</small>		
22 07 19 00-1064	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.35	3.72
		<i>For Work In Restricted Working Space, Add</i>	2.24	
22 07 19 00-1065	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.62	3.78
		<i>For Work In Restricted Working Space, Add</i>	2.27	
22 07 19 00-1066	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	10.02	3.89
		<i>For Work In Restricted Working Space, Add</i>	2.33	
22 07 19 00-1067	LF	5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	10.28	3.92
		<i>For Work In Restricted Working Space, Add</i>	2.35	
22 07 19 00-1068	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	10.38	3.94
		<i>For Work In Restricted Working Space, Add</i>	2.37	
22 07 19 00-1069	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	10.98	4.05
		<i>For Work In Restricted Working Space, Add</i>	2.43	
22 07 19 00-1070	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	11.47	4.11
		<i>For Work In Restricted Working Space, Add</i>	2.46	
22 07 19 00-1071	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	11.96	4.17
		<i>For Work In Restricted Working Space, Add</i>	2.50	
22 07 19 00-1072	LF	1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	12.09	4.17
		<i>For Work In Restricted Working Space, Add</i>	2.50	
22 07 19 00-1073	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	12.28	4.20
		<i>For Work In Restricted Working Space, Add</i>	2.52	
22 07 19 00-1074	LF	2" IPS (2-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	12.87	4.22
		<i>For Work In Restricted Working Space, Add</i>	2.54	
22 07 19 00-1075	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	13.17	4.27
		<i>For Work In Restricted Working Space, Add</i>	2.57	
22 07 19 00-1076	LF	2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	13.84	4.30
		<i>For Work In Restricted Working Space, Add</i>	2.58	
22 07 19 00-1077	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	14.31	4.33
		<i>For Work In Restricted Working Space, Add</i>	2.60	
22 07 19 00-1078	LF	3" IPS (3-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	15.02	4.36
		<i>For Work In Restricted Working Space, Add</i>	2.62	
22 07 19 00-1079	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	15.29	4.39
		<i>For Work In Restricted Working Space, Add</i>	2.63	
22 07 19 00-1080	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	16.35	4.44
		<i>For Work In Restricted Working Space, Add</i>	2.67	
22 07 19 00-1081	LF	4" IPS (4-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	17.20	4.47
		<i>For Work In Restricted Working Space, Add</i>	2.68	
22 07 19 00-1082	LF	5" IPS (5-9/16" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	18.63	4.49
		<i>For Work In Restricted Working Space, Add</i>	2.70	
22 07 19 00-1083	LF	6" IPS (6-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation	20.14	4.55
		<i>For Work In Restricted Working Space, Add</i>	2.73	
22 07 19 00-1084	LF	8" IPS (8-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation	21.96	4.66
		<i>For Work In Restricted Working Space, Add</i>	2.80	
22 07 19 00-1085		1" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-1022)</small>		
22 07 19 00-1086	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.00	4.10
		<i>For Work In Restricted Working Space, Add</i>	2.46	
22 07 19 00-1087	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	11.34	4.17
		<i>For Work In Restricted Working Space, Add</i>	2.50	
22 07 19 00-1088	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.77	4.27
		<i>For Work In Restricted Working Space, Add</i>	2.57	
22 07 19 00-1089	LF	5/8" I.D. (3/4" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	12.14	4.30
		<i>For Work In Restricted Working Space, Add</i>	2.58	
22 07 19 00-1090	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	12.48	4.33
		<i>For Work In Restricted Working Space, Add</i>	2.60	
22 07 19 00-1091	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	13.04	4.44
		<i>For Work In Restricted Working Space, Add</i>	2.67	
22 07 19 00-1092	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	13.92	4.55
		<i>For Work In Restricted Working Space, Add</i>	2.73	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1093 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.36 2.76	4.55
22 07 19 00-1094 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.96 2.78	4.61
22 07 19 00-1095 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.19 2.80	4.66
22 07 19 00-1096 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.50 2.83	4.73
22 07 19 00-1097 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.52 2.87	4.78
22 07 19 00-1098 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.82 2.88	4.82
22 07 19 00-1099 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.19 2.90	4.84
22 07 19 00-1100 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.87 2.91	4.87
22 07 19 00-1101 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.21 2.93	4.89
22 07 19 00-1102 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	22.69 3.00	5.00
22 07 19 00-1103 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	24.36 3.03	5.06
22 07 19 00-1104 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	26.85 3.07	5.11
22 07 19 00-1105 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	29.48 3.13	5.22
22 07 19 00-1106 1-1/2" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-1022)</small>		
22 07 19 00-1107 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.11 2.76	4.60
22 07 19 00-1108 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.55 2.82	4.70
22 07 19 00-1109 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.93 2.84	4.73
22 07 19 00-1110 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.31 2.85	4.77
22 07 19 00-1111 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.84 2.92	4.88
22 07 19 00-1112 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.69 3.03	5.06
22 07 19 00-1113 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.92 3.06	4.98
22 07 19 00-1114 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	21.97 3.09	5.10
22 07 19 00-1115 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	22.63 3.13	5.22
22 07 19 00-1116 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	24.67 3.17	5.29
22 07 19 00-1117 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	26.61 3.20	5.35
22 07 19 00-1118 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	27.52 3.22	5.37
22 07 19 00-1119 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	28.42 3.23	5.38
22 07 19 00-1120 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	29.49 3.25	5.41
22 07 19 00-1121 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	30.16 3.26	5.43
22 07 19 00-1122 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	33.78 3.37	5.63
22 07 19 00-1123 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	35.71 3.43	5.72
22 07 19 00-1124 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	40.42 3.48	5.80
22 07 19 00-1125 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	45.10 3.59	5.98
22 07 19 00-1126 2" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-1022)</small>		
22 07 19 00-1127 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	25.07 3.05	5.08
22 07 19 00-1128 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	26.07 3.11	5.15
22 07 19 00-1129 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	27.83 3.12	5.19
22 07 19 00-1130 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	28.43 3.13	5.23
22 07 19 00-1131 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	29.90 3.20	5.34
22 07 19 00-1132 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	31.69 3.35	5.59
22 07 19 00-1133 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	32.77 3.38	5.46



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1134 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....34.68 <i>For Work In Restricted Working Space, Add</i> 3.44	34.68	5.64
22 07 19 00-1135 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....36.51 <i>For Work In Restricted Working Space, Add</i> 3.51	36.51	5.83
22 07 19 00-1136 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....37.73 <i>For Work In Restricted Working Space, Add</i> 3.54	37.73	5.91
22 07 19 00-1137 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....40.26 <i>For Work In Restricted Working Space, Add</i> 3.57	40.26	5.98
22 07 19 00-1138 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....40.56 <i>For Work In Restricted Working Space, Add</i> 3.59	40.56	5.99
22 07 19 00-1139 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....42.93 <i>For Work In Restricted Working Space, Add</i> 3.61	42.93	6.00
22 07 19 00-1140 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....44.58 <i>For Work In Restricted Working Space, Add</i> 3.62	44.58	6.03
22 07 19 00-1141 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....46.33 <i>For Work In Restricted Working Space, Add</i> 3.63	46.33	6.06
22 07 19 00-1142 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....52.13 <i>For Work In Restricted Working Space, Add</i> 3.79	52.13	6.35
22 07 19 00-1143 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....55.50 <i>For Work In Restricted Working Space, Add</i> 3.88	55.50	6.47
22 07 19 00-1144 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....56.50 <i>For Work In Restricted Working Space, Add</i> 3.96	56.50	6.60
22 07 19 00-1145 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....63.50 <i>For Work In Restricted Working Space, Add</i> 4.11	63.50	6.86
22 07 19 00-1146 Flexible Polyolefin Tubing Closed Cell Foam Insulation (22 07 19) Note: UV stabilized, work temperature (-110 degree F to +210 degree F) 0 water vapor transmission. For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
22 07 19 00-1147 3/8" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-1146)		
22 07 19 00-1148 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....6.83 <i>For Work In Restricted Working Space, Add</i> 1.90	6.83	3.16
22 07 19 00-1149 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....6.91 <i>For Work In Restricted Working Space, Add</i> 1.91	6.91	3.16
22 07 19 00-1150 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....7.16 <i>For Work In Restricted Working Space, Add</i> 1.97	7.16	3.27
22 07 19 00-1151 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....7.47 <i>For Work In Restricted Working Space, Add</i> 2.03	7.47	3.39
22 07 19 00-1152 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....7.66 <i>For Work In Restricted Working Space, Add</i> 2.06	7.66	3.45
22 07 19 00-1153 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....8.01 <i>For Work In Restricted Working Space, Add</i> 2.10	8.01	3.50
22 07 19 00-1154 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....8.26 <i>For Work In Restricted Working Space, Add</i> 2.11	8.26	3.50
22 07 19 00-1155 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....8.45 <i>For Work In Restricted Working Space, Add</i> 2.12	8.45	3.61
22 07 19 00-1156 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....9.28 <i>For Work In Restricted Working Space, Add</i> 2.18	9.28	3.61
22 07 19 00-1157 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....10.03 <i>For Work In Restricted Working Space, Add</i> 2.22	10.03	3.67
22 07 19 00-1158 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....11.91 <i>For Work In Restricted Working Space, Add</i> 2.27	11.91	3.78
22 07 19 00-1159 1/2" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-1146)		
22 07 19 00-1160 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....7.64 <i>For Work In Restricted Working Space, Add</i> 2.06	7.64	3.45
22 07 19 00-1161 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....7.71 <i>For Work In Restricted Working Space, Add</i> 2.08	7.71	3.45
22 07 19 00-1162 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....7.87 <i>For Work In Restricted Working Space, Add</i> 2.10	7.87	3.50
22 07 19 00-1163 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....8.08 <i>For Work In Restricted Working Space, Add</i> 2.12	8.08	3.50
22 07 19 00-1164 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....8.34 <i>For Work In Restricted Working Space, Add</i> 2.17	8.34	3.61
22 07 19 00-1165 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....8.71 <i>For Work In Restricted Working Space, Add</i> 2.20	8.71	3.67
22 07 19 00-1166 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....9.13 <i>For Work In Restricted Working Space, Add</i> 2.24	9.13	3.72
22 07 19 00-1167 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....9.52 <i>For Work In Restricted Working Space, Add</i> 2.27	9.52	3.78
22 07 19 00-1168 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....10.41 <i>For Work In Restricted Working Space, Add</i> 2.33	10.41	3.89
22 07 19 00-1169 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....11.20 <i>For Work In Restricted Working Space, Add</i> 2.37	11.20	3.94
22 07 19 00-1170 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....12.69 <i>For Work In Restricted Working Space, Add</i> 2.43	12.69	4.05
22 07 19 00-1171 3/4" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-1146)		
22 07 19 00-1172 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation .....8.59 <i>For Work In Restricted Working Space, Add</i> 2.24	8.59	3.72



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1173 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	8.87	3.78
<i>For Work In Restricted Working Space, Add</i>	2.27	
22 07 19 00-1174 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.22	3.89
<i>For Work In Restricted Working Space, Add</i>	2.33	
22 07 19 00-1175 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.77	3.94
<i>For Work In Restricted Working Space, Add</i>	2.37	
22 07 19 00-1176 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.28	4.05
<i>For Work In Restricted Working Space, Add</i>	2.43	
22 07 19 00-1177 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	11.14	4.11
<i>For Work In Restricted Working Space, Add</i>	2.46	
22 07 19 00-1178 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	11.71	4.11
<i>For Work In Restricted Working Space, Add</i>	2.48	
22 07 19 00-1179 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	12.35	4.17
<i>For Work In Restricted Working Space, Add</i>	2.50	
22 07 19 00-1180 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	13.60	4.27
<i>For Work In Restricted Working Space, Add</i>	2.57	
22 07 19 00-1181 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	14.74	4.33
<i>For Work In Restricted Working Space, Add</i>	2.60	
22 07 19 00-1182 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	16.91	4.44
<i>For Work In Restricted Working Space, Add</i>	2.67	

22 07 19 00-1183 1" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-1146)

22 07 19 00-1184 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.20	4.11
<i>For Work In Restricted Working Space, Add</i>	2.46	
22 07 19 00-1185 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.36	4.17
<i>For Work In Restricted Working Space, Add</i>	2.50	
22 07 19 00-1186 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.72	4.27
<i>For Work In Restricted Working Space, Add</i>	2.57	
22 07 19 00-1187 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	11.50	4.33
<i>For Work In Restricted Working Space, Add</i>	2.60	
22 07 19 00-1188 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	12.15	4.44
<i>For Work In Restricted Working Space, Add</i>	2.67	
22 07 19 00-1189 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	12.82	4.55
<i>For Work In Restricted Working Space, Add</i>	2.73	
22 07 19 00-1190 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	13.46	4.55
<i>For Work In Restricted Working Space, Add</i>	2.76	
22 07 19 00-1191 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	14.90	4.66
<i>For Work In Restricted Working Space, Add</i>	2.80	
22 07 19 00-1192 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	16.81	4.78
<i>For Work In Restricted Working Space, Add</i>	2.87	
22 07 19 00-1193 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	18.18	4.84
<i>For Work In Restricted Working Space, Add</i>	2.90	

22 10 Plumbing Piping (22)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which do include the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

22 11 Facility Water Distribution (22 10)

22 11 16 Domestic Water Piping (22 11)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which do include the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

22 11 16 00-0001 Galvanized Steel Pipe Assemblies (22 11 16)

Note: (ASTM A-53) Threaded and coupled. Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.

22 11 16 00-0002 LF 1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	16.74	3.89
<i>Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</i>		
<i>For ASTM 120, Deduct</i>	-0.57	
<i>For Work In Restricted Working Space, Add</i>	3.87	
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	4.31	
22 11 16 00-0003 LF 3/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	18.32	4.18
<i>Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</i>		
<i>For ASTM 120, Deduct</i>	-0.70	
<i>For Work In Restricted Working Space, Add</i>	4.10	
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	4.83	
22 11 16 00-0004 LF 1" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	20.63	4.58
<i>Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</i>		
<i>For ASTM 120, Deduct</i>	-0.90	
<i>For Work In Restricted Working Space, Add</i>	4.38	
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	5.63	
22 11 16 00-0005 LF 1-1/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	24.17	4.77
<i>Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</i>		
<i>For ASTM 120, Deduct</i>	-1.30	
<i>For Work In Restricted Working Space, Add</i>	4.65	
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	7.00	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0006	LF		1-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....25.96 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For ASTM 120, Deduct -1.47 For Work In Restricted Working Space, Add 4.85 For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add 7.64		5.65
22 11 16 00-0007	LF		2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....31.25 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For ASTM 120, Deduct -1.93 For Work In Restricted Working Space, Add 5.52 For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add 9.46		6.80
22 11 16 00-0008	LF		2-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....45.79 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For ASTM 120, Deduct -3.63 For Work In Restricted Working Space, Add 6.47 For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add 15.22		8.07
22 11 16 00-0009	LF		3" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....56.25 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For ASTM 120, Deduct -4.52 For Work In Restricted Working Space, Add 7.84 For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add 18.78		10.80
22 11 16 00-0010	LF		4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....87.14 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For ASTM 120, Deduct -8.82 For Work In Restricted Working Space, Add 8.49 For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add 32.14		12.12
22 11 16 00-0011	LF		5" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....157.40 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For ASTM 120, Deduct -18.48 For Work In Restricted Working Space, Add 10.26 For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add 62.28		15.49
22 11 16 00-0012	LF		6" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....189.20 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For ASTM 120, Deduct -22.55 For Work In Restricted Working Space, Add 11.66 For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add 75.42		18.32
22 11 16 00-0013			Galvanized Steel Pipe And Threaded Fittings <small>(22 11 16)</small> Note: (ASTM A-53) Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.		
22 11 16 00-0014			Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe <small>(22 11 16 00-0013)</small> Note: ASTM A-53. Includes coupling. Welded pipe has a weld bead on the inside.		
22 11 16 00-0015	LF		1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....7.69 For ASTM 120, Deduct -0.27 For Work In Restricted Working Space, Add 1.77 For Schedule 80 Pipe, Add 1.45		3.89
22 11 16 00-0016	LF		3/4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....8.65 For ASTM 120, Deduct -0.36 For Work In Restricted Working Space, Add 1.88 For Schedule 80 Pipe, Add 1.77		4.18
22 11 16 00-0017	LF		1" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....10.32 For ASTM 120, Deduct -0.53 For Work In Restricted Working Space, Add 2.04 For Schedule 80 Pipe, Add 2.37		4.58
22 11 16 00-0018	LF		1-1/4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....11.97 For ASTM 120, Deduct -0.71 For Work In Restricted Working Space, Add 2.16 For Schedule 80 Pipe, Add 3.01		4.77
22 11 16 00-0019	LF		1-1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....14.15 For ASTM 120, Deduct -0.85 For Work In Restricted Working Space, Add 2.54 For Schedule 80 Pipe, Add 3.58		5.65
22 11 16 00-0020	LF		2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....17.89 For ASTM 120, Deduct -1.15 For Work In Restricted Working Space, Add 3.07 For Schedule 80 Pipe, Add 4.70		6.80
22 11 16 00-0021	LF		2-1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....24.29 For ASTM 120, Deduct -1.82 For Work In Restricted Working Space, Add 3.65 For Schedule 80 Pipe, Add 7.04		8.07
22 11 16 00-0022	LF		3" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....32.09 For ASTM 120, Deduct -2.38 For Work In Restricted Working Space, Add 4.86 For Schedule 80 Pipe, Add 9.24		10.80
22 11 16 00-0023	LF		4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....40.83 For ASTM 120, Deduct -3.39 For Work In Restricted Working Space, Add 5.47 For Schedule 80 Pipe, Add 12.67		12.12



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0024 LF 5" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....	53.51	15.49
<i>For ASTM 120, Deduct</i>	-4.55	
<i>For Work In Restricted Working Space, Add</i>	6.96	
<i>For Schedule 80 Pipe, Add</i>	16.87	
22 11 16 00-0025 LF 6" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....	66.77	18.32
<i>For ASTM 120, Deduct</i>	-5.90	
<i>For Work In Restricted Working Space, Add</i>	8.23	
<i>For Schedule 80 Pipe, Add</i>	21.62	
22 11 16 00-0026 LF 8" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....	75.63	22.14
<i>For ASTM 120, Deduct</i>	-6.37	
<i>For Work In Restricted Working Space, Add</i>	9.94	
<i>For Schedule 80 Pipe, Add</i>	23.71	
22 11 16 00-0027 Seamless, Threaded And Coupled, Galvanized Steel Pipe <small>(22 11 16 00-0013)</small>		
<small>Note: ASTM A-53. Includes coupling.</small>		
22 11 16 00-0028 LF 1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	9.87	3.89
<i>For ASTM 120, Deduct</i>	-0.60	
<i>For Work In Restricted Working Space, Add</i>	1.77	
<i>For Schedule 80 Pipe, Add</i>	2.50	
22 11 16 00-0029 LF 3/4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	11.04	4.18
<i>For ASTM 120, Deduct</i>	-0.71	
<i>For Work In Restricted Working Space, Add</i>	1.88	
<i>For Schedule 80 Pipe, Add</i>	2.91	
22 11 16 00-0030 LF 1" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	12.33	4.58
<i>For ASTM 120, Deduct</i>	-0.83	
<i>For Work In Restricted Working Space, Add</i>	2.04	
<i>For Schedule 80 Pipe, Add</i>	3.33	
22 11 16 00-0031 LF 1-1/4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	14.16	4.77
<i>For ASTM 120, Deduct</i>	-1.04	
<i>For Work In Restricted Working Space, Add</i>	2.16	
<i>For Schedule 80 Pipe, Add</i>	4.06	
22 11 16 00-0032 LF 1-1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	16.40	5.65
<i>For ASTM 120, Deduct</i>	-1.19	
<i>For Work In Restricted Working Space, Add</i>	2.54	
<i>For Schedule 80 Pipe, Add</i>	4.66	
22 11 16 00-0033 LF 2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	19.28	6.80
<i>For ASTM 120, Deduct</i>	-1.36	
<i>For Work In Restricted Working Space, Add</i>	3.07	
<i>For Schedule 80 Pipe, Add</i>	5.36	
22 11 16 00-0034 LF 2-1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	27.29	8.07
<i>For ASTM 120, Deduct</i>	-2.27	
<i>For Work In Restricted Working Space, Add</i>	3.65	
<i>For Schedule 80 Pipe, Add</i>	8.48	
22 11 16 00-0035 LF 3" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	34.71	10.80
<i>For ASTM 120, Deduct</i>	-2.78	
<i>For Work In Restricted Working Space, Add</i>	4.86	
<i>For Schedule 80 Pipe, Add</i>	10.50	
22 11 16 00-0036 LF 4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	44.68	12.12
<i>For ASTM 120, Deduct</i>	-3.97	
<i>For Work In Restricted Working Space, Add</i>	5.47	
<i>For Schedule 80 Pipe, Add</i>	14.52	
22 11 16 00-0037 LF 5" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	57.71	15.49
<i>For ASTM 120, Deduct</i>	-5.18	
<i>For Work In Restricted Working Space, Add</i>	6.96	
<i>For Schedule 80 Pipe, Add</i>	18.89	
22 11 16 00-0038 LF 6" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	71.60	18.32
<i>For ASTM 120, Deduct</i>	-6.62	
<i>For Work In Restricted Working Space, Add</i>	8.23	
<i>For Schedule 80 Pipe, Add</i>	23.94	
22 11 16 00-0039 Galvanized Malleable Iron 90 Degree Elbows <small>(22 11 16 00-0013)</small>		
22 11 16 00-0040 EA 1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	30.97	17.32
<i>For ASTM 120, Deduct</i>	-0.75	
<i>For Work In Restricted Working Space, Add</i>	7.78	
<i>For 300 LB Rating, Add</i>	18.66	
22 11 16 00-0041 EA 3/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	35.22	19.36
<i>For ASTM 120, Deduct</i>	-0.93	
<i>For Work In Restricted Working Space, Add</i>	8.71	
<i>For 300 LB Rating, Add</i>	22.75	
22 11 16 00-0042 EA 1", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	43.87	21.59
<i>For ASTM 120, Deduct</i>	-1.72	
<i>For Work In Restricted Working Space, Add</i>	9.73	
<i>For 300 LB Rating, Add</i>	40.84	
22 11 16 00-0043 EA 1-1/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	54.78	24.52
<i>For ASTM 120, Deduct</i>	-2.71	
<i>For Work In Restricted Working Space, Add</i>	11.01	
<i>For 300 LB Rating, Add</i>	63.67	
22 11 16 00-0044 EA 1-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	64.99	27.63
<i>For ASTM 120, Deduct</i>	-3.54	
<i>For Work In Restricted Working Space, Add</i>	12.42	
<i>For 300 LB Rating, Add</i>	82.72	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0045	EA		2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	91.24	35.12
			<i>For ASTM 120, Deduct</i>	-5.80	
			<i>For Work In Restricted Working Space, Add</i>	15.77	
			<i>For 300 LB Rating, Add</i>	134.60	
22 11 16 00-0046	EA		2-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	178.99	51.95
			<i>For ASTM 120, Deduct</i>	-15.18	
			<i>For Work In Restricted Working Space, Add</i>	23.35	
			<i>For 300 LB Rating, Add</i>	348.65	
22 11 16 00-0047	EA		3", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	269.20	68.29
			<i>For ASTM 120, Deduct</i>	-25.02	
			<i>For Work In Restricted Working Space, Add</i>	30.72	
			<i>For 300 LB Rating, Add</i>	573.26	
22 11 16 00-0048	EA		4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	400.52	70.90
			<i>For ASTM 120, Deduct</i>	-44.13	
			<i>For Work In Restricted Working Space, Add</i>	31.90	
			<i>For 300 LB Rating, Add</i>	1,006.63	
22 11 16 00-0049	EA		5", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	1,381.42	74.00
			<i>For ASTM 120, Deduct</i>	-190.57	
			<i>For Work In Restricted Working Space, Add</i>	33.29	
			<i>For 300 LB Rating, Add</i>	4,326.26	
22 11 16 00-0050	EA		6", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	1,287.23	77.37
			<i>For ASTM 120, Deduct</i>	-175.69	
			<i>For Work In Restricted Working Space, Add</i>	34.80	
			<i>For 300 LB Rating, Add</i>	3,989.18	
22 11 16 00-0051	EA		8", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	1,534.23	80.85
			<i>For ASTM 120, Deduct</i>	-211.95	
			<i>For Work In Restricted Working Space, Add</i>	36.36	
			<i>For 300 LB Rating, Add</i>	4,811.54	
22 11 16 00-0052			Galvanized Malleable Iron Reducing 90 Degree Elbows (22 11 16 00-0013)		
22 11 16 00-0053	EA		3/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	38.23	18.29
			<i>For ASTM 120, Deduct</i>	-1.61	
			<i>For Work In Restricted Working Space, Add</i>	8.25	
22 11 16 00-0054	EA		1" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	44.51	20.52
			<i>For ASTM 120, Deduct</i>	-2.07	
			<i>For Work In Restricted Working Space, Add</i>	9.22	
22 11 16 00-0055	EA		1" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	43.80	19.46
			<i>For ASTM 120, Deduct</i>	-2.19	
			<i>For Work In Restricted Working Space, Add</i>	8.75	
22 11 16 00-0056	EA		1-1/4" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	57.70	23.05
			<i>For ASTM 120, Deduct</i>	-3.47	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
22 11 16 00-0057	EA		1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	60.65	21.89
			<i>For ASTM 120, Deduct</i>	-4.17	
			<i>For Work In Restricted Working Space, Add</i>	9.86	
22 11 16 00-0058	EA		1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	60.75	20.92
			<i>For ASTM 120, Deduct</i>	-4.41	
			<i>For Work In Restricted Working Space, Add</i>	9.40	
22 11 16 00-0059	EA		1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	75.99	26.07
			<i>For ASTM 120, Deduct</i>	-5.54	
			<i>For Work In Restricted Working Space, Add</i>	11.71	
22 11 16 00-0060	EA		1-1/2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	73.86	24.61
			<i>For ASTM 120, Deduct</i>	-5.54	
			<i>For Work In Restricted Working Space, Add</i>	11.07	
22 11 16 00-0061	EA		1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	72.16	23.45
			<i>For ASTM 120, Deduct</i>	-5.54	
			<i>For Work In Restricted Working Space, Add</i>	10.56	
22 11 16 00-0062	EA		2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	90.16	31.32
			<i>For ASTM 120, Deduct</i>	-6.48	
			<i>For Work In Restricted Working Space, Add</i>	14.10	
22 11 16 00-0063	EA		2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	94.13	29.77
			<i>For ASTM 120, Deduct</i>	-7.42	
			<i>For Work In Restricted Working Space, Add</i>	13.39	
22 11 16 00-0064	EA		2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	93.86	28.31
			<i>For ASTM 120, Deduct</i>	-7.70	
			<i>For Work In Restricted Working Space, Add</i>	12.75	
22 11 16 00-0065	EA		2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	79.77	27.24
			<i>For ASTM 120, Deduct</i>	-5.84	
			<i>For Work In Restricted Working Space, Add</i>	12.24	
22 11 16 00-0066	EA		2-1/2" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	211.53	43.48
			<i>For ASTM 120, Deduct</i>	-21.95	
			<i>For Work In Restricted Working Space, Add</i>	19.56	
22 11 16 00-0067	EA		2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	222.64	39.79
			<i>For ASTM 120, Deduct</i>	-24.45	
			<i>For Work In Restricted Working Space, Add</i>	17.88	
22 11 16 00-0068	EA		3" x 2-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	356.08	60.12
			<i>For ASTM 120, Deduct</i>	-39.90	
			<i>For Work In Restricted Working Space, Add</i>	27.03	
22 11 16 00-0069	EA		3" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	308.49	51.65
			<i>For ASTM 120, Deduct</i>	-34.65	
			<i>For Work In Restricted Working Space, Add</i>	23.25	
22 11 16 00-0070	EA		4" x 3", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	702.98	67.44
			<i>For ASTM 120, Deduct</i>	-90.28	
			<i>For Work In Restricted Working Space, Add</i>	30.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 11 16 00-0071	Galvanized Malleable Iron 45 Degree Elbow <small>(22 11 16 00-0013)</small>		
22 11 16 00-0072	EA 1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	31.87	17.32
	For ASTM 120, Deduct	-0.89	
	For Work In Restricted Working Space, Add	7.78	
	For 300 LB Rating, Add	21.72	
22 11 16 00-0073	EA 3/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	37.56	19.36
	For ASTM 120, Deduct	-1.28	
	For Work In Restricted Working Space, Add	8.71	
	For 300 LB Rating, Add	30.71	
22 11 16 00-0074	EA 1", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	42.05	21.59
	For ASTM 120, Deduct	-1.44	
	For Work In Restricted Working Space, Add	9.73	
	For 300 LB Rating, Add	34.65	
22 11 16 00-0075	EA 1-1/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	54.67	24.52
	For ASTM 120, Deduct	-2.70	
	For Work In Restricted Working Space, Add	11.01	
	For 300 LB Rating, Add	63.30	
22 11 16 00-0076	EA 1-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	62.50	27.63
	For ASTM 120, Deduct	-3.17	
	For Work In Restricted Working Space, Add	12.42	
	For 300 LB Rating, Add	74.26	
22 11 16 00-0077	EA 2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	83.82	35.12
	For ASTM 120, Deduct	-4.69	
	For Work In Restricted Working Space, Add	15.77	
	For 300 LB Rating, Add	109.37	
22 11 16 00-0078	EA 2-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	186.52	51.95
	For ASTM 120, Deduct	-16.31	
	For Work In Restricted Working Space, Add	23.35	
	For 300 LB Rating, Add	374.25	
22 11 16 00-0079	EA 3", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	260.49	68.29
	For ASTM 120, Deduct	-23.71	
	For Work In Restricted Working Space, Add	30.72	
	For 300 LB Rating, Add	543.65	
22 11 16 00-0080	EA 4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	371.36	70.90
	For ASTM 120, Deduct	-39.75	
	For Work In Restricted Working Space, Add	31.90	
	For 300 LB Rating, Add	907.48	
22 11 16 00-0081	EA 5", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	1,181.89	74.00
	For ASTM 120, Deduct	-160.64	
	For Work In Restricted Working Space, Add	33.29	
	For 300 LB Rating, Add	3,647.85	
22 11 16 00-0082	EA 6", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	1,407.30	77.37
	For ASTM 120, Deduct	-193.70	
	For Work In Restricted Working Space, Add	34.80	
	For 300 LB Rating, Add	4,397.41	
22 11 16 00-0083	EA 8", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	1,676.86	80.85
	For ASTM 120, Deduct	-233.35	
	For Work In Restricted Working Space, Add	36.36	
	For 300 LB Rating, Add	5,296.48	
22 11 16 00-0084	Galvanized Malleable Iron Tees <small>(22 11 16 00-0013)</small>		
22 11 16 00-0085	EA 1/2", 150 LB, Galvanized Malleable Iron Tee.....	38.64	21.59
	For ASTM 120, Deduct	-0.93	
	For Work In Restricted Working Space, Add	9.73	
	For 300 LB Rating, Add	23.06	
22 11 16 00-0086	EA 3/4", 150 LB, Galvanized Malleable Iron Tee.....	47.65	25.00
	For ASTM 120, Deduct	-1.54	
	For Work In Restricted Working Space, Add	11.22	
	For 300 LB Rating, Add	37.06	
22 11 16 00-0087	EA 1", 150 LB, Galvanized Malleable Iron Tee.....	60.77	29.48
	For ASTM 120, Deduct	-2.48	
	For Work In Restricted Working Space, Add	13.26	
	For 300 LB Rating, Add	58.96	
22 11 16 00-0088	EA 1-1/4", 150 LB, Galvanized Malleable Iron Tee.....	78.86	35.12
	For ASTM 120, Deduct	-3.94	
	For Work In Restricted Working Space, Add	15.77	
	For 300 LB Rating, Add	92.51	
22 11 16 00-0089	EA 1-1/2", 150 LB, Galvanized Malleable Iron Tee.....	95.43	41.83
	For ASTM 120, Deduct	-4.90	
	For Work In Restricted Working Space, Add	18.83	
	For 300 LB Rating, Add	114.84	
22 11 16 00-0090	EA 2", 150 LB, Galvanized Malleable Iron Tee.....	130.92	51.95
	For ASTM 120, Deduct	-7.97	
	For Work In Restricted Working Space, Add	23.35	
	For 300 LB Rating, Add	185.21	
22 11 16 00-0091	EA 2-1/2", 150 LB, Galvanized Malleable Iron Tee.....	234.08	56.42
	For ASTM 120, Deduct	-22.42	
	For Work In Restricted Working Space, Add	25.38	
	For 300 LB Rating, Add	513.34	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0092	EA		3", 150 LB, Galvanized Malleable Iron Tee.....	277.71	68.29
			<i>For ASTM 120, Deduct</i>	-26.30	
			<i>For Work In Restricted Working Space, Add</i>	30.72	
			<i>For 300 LB Rating, Add</i>	602.20	
22 11 16 00-0093	EA		4", 150 LB, Galvanized Malleable Iron Tee.....	549.03	89.59
			<i>For ASTM 120, Deduct</i>	-62.21	
			<i>For Work In Restricted Working Space, Add</i>	40.29	
			<i>For 300 LB Rating, Add</i>	1,418.11	
22 11 16 00-0094	EA		5", 150 LB, Galvanized Malleable Iron Tee.....	1,463.10	106.36
			<i>For ASTM 120, Deduct</i>	-195.54	
			<i>For Work In Restricted Working Space, Add</i>	47.85	
			<i>For 300 LB Rating, Add</i>	4,441.84	
22 11 16 00-0095	EA		6", 150 LB, Galvanized Malleable Iron Tee.....	1,660.87	121.58
			<i>For ASTM 120, Deduct</i>	-221.79	
			<i>For Work In Restricted Working Space, Add</i>	54.68	
			<i>For 300 LB Rating, Add</i>	5,038.18	
22 11 16 00-0096	EA		8", 150 LB, Galvanized Malleable Iron Tee.....	1,975.58	144.36
			<i>For ASTM 120, Deduct</i>	-263.53	
			<i>For Work In Restricted Working Space, Add</i>	65.62	
			<i>For 300 LB Rating, Add</i>	5,986.41	
22 11 16 00-0097			Galvanized Malleable Iron Reducing Tee (22 11 16 00-0013)		
22 11 16 00-0098	EA		1/2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	46.87	21.59
			<i>For ASTM 120, Deduct</i>	-2.17	
			<i>For Work In Restricted Working Space, Add</i>	9.73	
			<i>For 300 LB Rating, Add</i>	51.04	
22 11 16 00-0099	EA		3/4", 150 LB, Galvanized Malleable Iron Reducing Tee.....	51.65	25.00
			<i>For ASTM 120, Deduct</i>	-2.14	
			<i>For Work In Restricted Working Space, Add</i>	11.22	
			<i>For 300 LB Rating, Add</i>	50.66	
22 11 16 00-0100	EA		1", 150 LB, Galvanized Malleable Iron Reducing Tee.....	64.22	29.48
			<i>For ASTM 120, Deduct</i>	-3.00	
			<i>For Work In Restricted Working Space, Add</i>	13.26	
			<i>For 300 LB Rating, Add</i>	70.69	
22 11 16 00-0101	EA		1-1/4", 150 LB, Galvanized Malleable Iron Reducing Tee.....	83.60	35.12
			<i>For ASTM 120, Deduct</i>	-4.65	
			<i>For Work In Restricted Working Space, Add</i>	15.77	
			<i>For 300 LB Rating, Add</i>	108.62	
22 11 16 00-0102	EA		1-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	101.07	41.83
			<i>For ASTM 120, Deduct</i>	-5.75	
			<i>For Work In Restricted Working Space, Add</i>	18.83	
			<i>For 300 LB Rating, Add</i>	134.02	
22 11 16 00-0103	EA		2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	133.76	51.95
			<i>For ASTM 120, Deduct</i>	-8.39	
			<i>For Work In Restricted Working Space, Add</i>	23.35	
			<i>For 300 LB Rating, Add</i>	194.87	
22 11 16 00-0104	EA		2-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	282.43	56.61
			<i>For ASTM 120, Deduct</i>	-29.64	
			<i>For Work In Restricted Working Space, Add</i>	25.46	
			<i>For 300 LB Rating, Add</i>	676.86	
22 11 16 00-0105	EA		3", 150 LB, Galvanized Malleable Iron Reducing Tee.....	360.26	69.36
			<i>For ASTM 120, Deduct</i>	-38.44	
			<i>For Work In Restricted Working Space, Add</i>	31.20	
			<i>For 300 LB Rating, Add</i>	877.49	
22 11 16 00-0106	EA		4", 150 LB, Galvanized Malleable Iron Reducing Tee.....	877.14	89.59
			<i>For ASTM 120, Deduct</i>	-111.42	
			<i>For Work In Restricted Working Space, Add</i>	40.29	
			<i>For 300 LB Rating, Add</i>	2,533.68	
22 11 16 00-0107	EA		5", 150 LB, Galvanized Malleable Iron Reducing Tee.....	1,966.82	106.36
			<i>For ASTM 120, Deduct</i>	-271.10	
			<i>For Work In Restricted Working Space, Add</i>	47.85	
			<i>For 300 LB Rating, Add</i>	6,154.49	
22 11 16 00-0108	EA		6", 150 LB, Galvanized Malleable Iron Reducing Tee.....	2,136.52	121.58
			<i>For ASTM 120, Deduct</i>	-293.14	
			<i>For Work In Restricted Working Space, Add</i>	54.68	
			<i>For 300 LB Rating, Add</i>	6,655.39	
22 11 16 00-0109	EA		8", 150 LB, Galvanized Malleable Iron Reducing Tee.....	2,565.93	139.61
			<i>For ASTM 120, Deduct</i>	-353.45	
			<i>For Work In Restricted Working Space, Add</i>	62.88	
			<i>For 300 LB Rating, Add</i>	8,024.06	
22 11 16 00-0110			Galvanized Malleable Iron Couplings (22 11 16 00-0013)		
22 11 16 00-0111	EA		1/2", 150 LB, Galvanized Malleable Iron Coupling.....	30.63	17.32
			<i>For ASTM 120, Deduct</i>	-0.70	
			<i>For Work In Restricted Working Space, Add</i>	7.78	
			<i>For 300 LB Rating, Add</i>	17.50	
22 11 16 00-0112	EA		3/4", 150 LB, Galvanized Malleable Iron Coupling.....	34.44	19.36
			<i>For ASTM 120, Deduct</i>	-0.81	
			<i>For Work In Restricted Working Space, Add</i>	8.71	
			<i>For 300 LB Rating, Add</i>	20.10	



	Plumbing	22
	Plumbing Piping	22 10
	Facility Water Distribution	22 11

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0113 EA 1", 150 LB, Galvanized Malleable Iron Coupling.....	41.28	21.59
For ASTM 120, Deduct	-1.33	
For Work In Restricted Working Space, Add	9.73	
For 300 LB Rating, Add	32.04	
22 11 16 00-0114 EA 1-1/4", 150 LB, Galvanized Malleable Iron Coupling.....	49.19	24.52
For ASTM 120, Deduct	-1.87	
For Work In Restricted Working Space, Add	11.01	
For 300 LB Rating, Add	44.67	
22 11 16 00-0115 EA 1-1/2", 150 LB, Galvanized Malleable Iron Coupling.....	55.58	27.63
For ASTM 120, Deduct	-2.13	
For Work In Restricted Working Space, Add	12.42	
For 300 LB Rating, Add	50.73	
22 11 16 00-0116 EA 2", 150 LB, Galvanized Malleable Iron Coupling.....	73.33	35.12
For ASTM 120, Deduct	-3.11	
For Work In Restricted Working Space, Add	15.77	
For 300 LB Rating, Add	73.70	
22 11 16 00-0117 EA 2-1/2", 150 LB, Galvanized Malleable Iron Coupling.....	141.34	51.95
For ASTM 120, Deduct	-9.53	
For Work In Restricted Working Space, Add	23.35	
For 300 LB Rating, Add	220.64	
22 11 16 00-0118 EA 3", 150 LB, Galvanized Malleable Iron Coupling.....	187.29	68.29
For ASTM 120, Deduct	-12.73	
For Work In Restricted Working Space, Add	30.72	
For 300 LB Rating, Add	294.77	
22 11 16 00-0119 EA 4", 150 LB, Galvanized Malleable Iron Coupling.....	286.63	70.90
For ASTM 120, Deduct	-27.05	
For Work In Restricted Working Space, Add	31.90	
For 300 LB Rating, Add	619.40	
22 11 16 00-0120 EA 5", 150 LB, Galvanized Malleable Iron Coupling.....	618.62	74.00
For ASTM 120, Deduct	-76.15	
For Work In Restricted Working Space, Add	33.29	
For 300 LB Rating, Add	1,732.74	
22 11 16 00-0121 EA 6", 150 LB, Galvanized Malleable Iron Coupling.....	694.37	77.37
For ASTM 120, Deduct	-86.76	
For Work In Restricted Working Space, Add	34.80	
For 300 LB Rating, Add	1,973.45	
22 11 16 00-0122 EA 8", 150 LB, Galvanized Malleable Iron Coupling.....	818.27	80.85
For ASTM 120, Deduct	-104.56	
For Work In Restricted Working Space, Add	36.36	
For 300 LB Rating, Add	2,377.28	
22 11 16 00-0123 Galvanized Malleable Iron Reducing Couplings (22 11 16 00-0013)		
22 11 16 00-0124 EA 1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	31.63	17.32
For ASTM 120, Deduct	-0.85	
For Work In Restricted Working Space, Add	7.78	
For 300 LB Rating, Add	20.90	
22 11 16 00-0125 EA 3/4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	35.12	19.36
For ASTM 120, Deduct	-0.91	
For Work In Restricted Working Space, Add	8.71	
For 300 LB Rating, Add	22.41	
22 11 16 00-0126 EA 1", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	42.56	21.59
For ASTM 120, Deduct	-1.52	
For Work In Restricted Working Space, Add	9.73	
For 300 LB Rating, Add	36.39	
22 11 16 00-0127 EA 1-1/4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	49.80	24.52
For ASTM 120, Deduct	-1.97	
For Work In Restricted Working Space, Add	11.01	
For 300 LB Rating, Add	46.74	
22 11 16 00-0128 EA 1-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	58.29	27.63
For ASTM 120, Deduct	-2.54	
For Work In Restricted Working Space, Add	12.42	
For 300 LB Rating, Add	59.94	
22 11 16 00-0129 EA 2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	75.63	35.12
For ASTM 120, Deduct	-3.46	
For Work In Restricted Working Space, Add	15.77	
For 300 LB Rating, Add	81.52	
22 11 16 00-0130 EA 2-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	142.14	51.95
For ASTM 120, Deduct	-9.65	
For Work In Restricted Working Space, Add	23.35	
For 300 LB Rating, Add	223.36	
22 11 16 00-0131 EA 3", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	184.89	68.29
For ASTM 120, Deduct	-12.37	
For Work In Restricted Working Space, Add	30.72	
For 300 LB Rating, Add	286.61	
22 11 16 00-0132 EA 4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	291.27	70.90
For ASTM 120, Deduct	-27.74	
For Work In Restricted Working Space, Add	31.90	
For 300 LB Rating, Add	635.18	
22 11 16 00-0133 EA 5", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	645.35	74.00
For ASTM 120, Deduct	-80.16	
For Work In Restricted Working Space, Add	33.29	
For 300 LB Rating, Add	1,823.62	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0134	EA		6", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	724.81	77.37
			<i>For ASTM 120, Deduct</i>	-91.32	
			<i>For Work In Restricted Working Space, Add</i>	34.80	
			<i>For 300 LB Rating, Add</i>	2,076.95	
22 11 16 00-0135	EA		8", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	855.24	80.85
			<i>For ASTM 120, Deduct</i>	-110.10	
			<i>For Work In Restricted Working Space, Add</i>	36.36	
			<i>For 300 LB Rating, Add</i>	2,502.97	
22 11 16 00-0136 Galvanized Malleable Iron Caps (22 11 16 00-0013)					
22 11 16 00-0137	EA		1/2", 150 LB, Galvanized Malleable Iron Cap.....	14.28	8.07
			<i>For ASTM 120, Deduct</i>	-0.32	
			<i>For Work In Restricted Working Space, Add</i>	3.65	
			<i>For 300 LB Rating, Add</i>	7.94	
22 11 16 00-0138	EA		3/4", 150 LB, Galvanized Malleable Iron Cap.....	15.91	8.66
			<i>For ASTM 120, Deduct</i>	-0.44	
			<i>For Work In Restricted Working Space, Add</i>	3.89	
			<i>For 300 LB Rating, Add</i>	10.77	
22 11 16 00-0139	EA		1", 150 LB, Galvanized Malleable Iron Cap.....	18.61	10.02
			<i>For ASTM 120, Deduct</i>	-0.55	
			<i>For Work In Restricted Working Space, Add</i>	4.49	
			<i>For 300 LB Rating, Add</i>	13.27	
22 11 16 00-0140	EA		1-1/4", 150 LB, Galvanized Malleable Iron Cap.....	20.49	10.50
			<i>For ASTM 120, Deduct</i>	-0.72	
			<i>For Work In Restricted Working Space, Add</i>	4.71	
			<i>For 300 LB Rating, Add</i>	17.26	
22 11 16 00-0141	EA		1-1/2", 150 LB, Galvanized Malleable Iron Cap.....	20.18	10.50
			<i>For ASTM 120, Deduct</i>	-0.67	
			<i>For Work In Restricted Working Space, Add</i>	4.71	
			<i>For 300 LB Rating, Add</i>	16.21	
22 11 16 00-0142	EA		2", 150 LB, Galvanized Malleable Iron Cap.....	30.53	13.91
			<i>For ASTM 120, Deduct</i>	-1.44	
			<i>For Work In Restricted Working Space, Add</i>	6.28	
			<i>For 300 LB Rating, Add</i>	33.93	
22 11 16 00-0143	EA		2-1/2", 150 LB, Galvanized Malleable Iron Cap.....	47.51	17.32
			<i>For ASTM 120, Deduct</i>	-3.24	
			<i>For Work In Restricted Working Space, Add</i>	7.78	
			<i>For 300 LB Rating, Add</i>	74.89	
22 11 16 00-0144	EA		3", 150 LB, Galvanized Malleable Iron Cap.....	62.09	20.92
			<i>For ASTM 120, Deduct</i>	-4.61	
			<i>For Work In Restricted Working Space, Add</i>	9.41	
			<i>For 300 LB Rating, Add</i>	106.30	
22 11 16 00-0145	EA		4", 150 LB, Galvanized Malleable Iron Cap.....	93.88	24.33
			<i>For ASTM 120, Deduct</i>	-8.61	
			<i>For Work In Restricted Working Space, Add</i>	10.94	
			<i>For 300 LB Rating, Add</i>	197.42	
22 11 16 00-0146	EA		5", 150 LB, Galvanized Malleable Iron Cap.....	236.18	30.44
			<i>For ASTM 120, Deduct</i>	-28.59	
			<i>For Work In Restricted Working Space, Add</i>	13.67	
			<i>For 300 LB Rating, Add</i>	650.81	
22 11 16 00-0147	EA		6", 150 LB, Galvanized Malleable Iron Cap.....	294.52	36.18
			<i>For ASTM 120, Deduct</i>	-36.03	
			<i>For Work In Restricted Working Space, Add</i>	16.29	
			<i>For 300 LB Rating, Add</i>	820.04	
22 11 16 00-0148	EA		8", 150 LB, Galvanized Malleable Iron Cap.....	371.94	40.43
			<i>For ASTM 120, Deduct</i>	-46.70	
			<i>For Work In Restricted Working Space, Add</i>	18.18	
			<i>For 300 LB Rating, Add</i>	1,062.16	
22 11 16 00-0149 Galvanized Malleable Iron FIP Threaded, Unions (22 11 16 00-0013)					
22 11 16 00-0150	EA		1/2", 150 LB, Galvanized Malleable Iron Union.....	48.76	21.59
			<i>For Work In Restricted Working Space, Add</i>	9.73	
22 11 16 00-0151	EA		3/4", 150 LB, Galvanized Malleable Iron Union.....	56.17	25.00
			<i>For Work In Restricted Working Space, Add</i>	11.22	
22 11 16 00-0152	EA		1", 150 LB, Galvanized Malleable Iron Union.....	68.78	29.48
			<i>For Work In Restricted Working Space, Add</i>	13.26	
22 11 16 00-0153	EA		1-1/4", 150 LB, Galvanized Malleable Iron Union.....	88.10	35.12
			<i>For Work In Restricted Working Space, Add</i>	15.77	
22 11 16 00-0154	EA		1-1/2", 150 LB, Galvanized Malleable Iron Union.....	105.80	41.83
			<i>For Work In Restricted Working Space, Add</i>	18.83	
22 11 16 00-0155	EA		2", 150 LB, Galvanized Malleable Iron Union.....	127.30	51.95
			<i>For Work In Restricted Working Space, Add</i>	23.35	
22 11 16 00-0156	EA		2-1/2", 150 LB, Galvanized Malleable Iron Union.....	286.75	76.55
			<i>For Work In Restricted Working Space, Add</i>	34.46	
22 11 16 00-0157	EA		3", 150 LB, Galvanized Malleable Iron Union.....	391.71	100.69
			<i>For Work In Restricted Working Space, Add</i>	45.35	
22 11 16 00-0158	EA		1/2", 250 LB, Galvanized Malleable Iron Union.....	65.62	21.59
			<i>For Work In Restricted Working Space, Add</i>	9.73	
22 11 16 00-0159	EA		3/4", 250 LB, Galvanized Malleable Iron Union.....	67.58	25.00
			<i>For Work In Restricted Working Space, Add</i>	11.22	
22 11 16 00-0160	EA		1", 250 LB, Galvanized Malleable Iron Union.....	81.61	29.48
			<i>For Work In Restricted Working Space, Add</i>	13.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0161 EA 1-1/4", 250 LB, Galvanized Malleable Iron Union.....	109.22	35.12
<i>For Work In Restricted Working Space, Add</i>	15.77	
22 11 16 00-0162 EA 1-1/2", 250 LB, Galvanized Malleable Iron Union.....	127.96	41.83
<i>For Work In Restricted Working Space, Add</i>	18.83	
22 11 16 00-0163 EA 2", 250 LB, Galvanized Malleable Iron Union.....	169.90	51.95
<i>For Work In Restricted Working Space, Add</i>	23.35	
22 11 16 00-0164 EA 2-1/2", 250 LB, Galvanized Malleable Iron Union.....	357.11	76.55
<i>For Work In Restricted Working Space, Add</i>	34.46	
22 11 16 00-0165 EA 3", 250 LB, Galvanized Malleable Iron Union.....	522.81	100.69
<i>For Work In Restricted Working Space, Add</i>	45.35	
22 11 16 00-0166 EA 4", 250 LB, Galvanized Malleable Iron Union.....	739.95	104.62
<i>For Work In Restricted Working Space, Add</i>	47.09	
22 11 16 00-0167 EA 1/2", 300 LB, Galvanized Malleable Iron Union.....	70.25	21.59
<i>For Work In Restricted Working Space, Add</i>	9.73	
22 11 16 00-0168 EA 3/4", 300 LB, Galvanized Malleable Iron Union.....	78.43	25.00
<i>For Work In Restricted Working Space, Add</i>	11.22	
22 11 16 00-0169 EA 1", 300 LB, Galvanized Malleable Iron Union.....	98.63	29.48
<i>For Work In Restricted Working Space, Add</i>	13.26	
22 11 16 00-0170 EA 1-1/4", 300 LB, Galvanized Malleable Iron Union.....	128.46	35.12
<i>For Work In Restricted Working Space, Add</i>	15.77	
22 11 16 00-0171 EA 1-1/2", 300 LB, Galvanized Malleable Iron Union.....	154.13	41.83
<i>For Work In Restricted Working Space, Add</i>	18.83	
22 11 16 00-0172 EA 2", 300 LB, Galvanized Malleable Iron Union.....	187.49	51.95
<i>For Work In Restricted Working Space, Add</i>	23.35	
22 11 16 00-0173 EA 2-1/2", 300 LB, Galvanized Malleable Iron Union.....	420.79	76.55
<i>For Work In Restricted Working Space, Add</i>	34.46	
22 11 16 00-0174 EA 3", 300 LB, Galvanized Malleable Iron Union.....	668.54	100.69
<i>For Work In Restricted Working Space, Add</i>	45.35	
22 11 16 00-0175 EA 4", 300 LB, Galvanized Malleable Iron Union.....	1,454.56	104.62
<i>For Work In Restricted Working Space, Add</i>	47.09	
22 11 16 00-0176 Galvanized Steel Nipples <small>(22 11 16 00-0013)</small>		
Note: ASTM A-53.		
22 11 16 00-0177 EA 3/8" x Close, Schedule 40 Galvanized Steel Nipple.....	15.84	9.24
<i>For ASTM 120, Deduct</i>	-0.29	
<i>For Work In Restricted Working Space, Add</i>	4.17	
<i>For Schedule 80 Nipples, Add</i>	2.21	
22 11 16 00-0178 EA 1/2" x Close, Schedule 40 Galvanized Steel Nipple.....	15.47	9.24
<i>For ASTM 120, Deduct</i>	-0.24	
<i>For Work In Restricted Working Space, Add</i>	4.17	
<i>For Schedule 80 Nipples, Add</i>	1.79	
22 11 16 00-0179 EA 3/4" x Close, Schedule 40 Galvanized Steel Nipple.....	15.80	9.24
<i>For ASTM 120, Deduct</i>	-0.29	
<i>For Work In Restricted Working Space, Add</i>	4.17	
<i>For Schedule 80 Nipples, Add</i>	2.17	
22 11 16 00-0180 EA 1" x Close, Schedule 40 Galvanized Steel Nipple.....	17.58	10.02
<i>For ASTM 120, Deduct</i>	-0.39	
<i>For Work In Restricted Working Space, Add</i>	4.49	
<i>For Schedule 80 Nipples, Add</i>	2.98	
22 11 16 00-0181 EA 1-1/4" x Close, Schedule 40 Galvanized Steel Nipple.....	19.72	10.80
<i>For ASTM 120, Deduct</i>	-0.53	
<i>For Work In Restricted Working Space, Add</i>	4.86	
<i>For Schedule 80 Nipples, Add</i>	4.00	
22 11 16 00-0182 EA 1-1/2" x Close, Schedule 40 Galvanized Steel Nipple.....	20.32	10.80
<i>For ASTM 120, Deduct</i>	-0.62	
<i>For Work In Restricted Working Space, Add</i>	4.86	
<i>For Schedule 80 Nipples, Add</i>	4.69	
22 11 16 00-0183 EA 2" x Close, Schedule 40 Galvanized Steel Nipple.....	26.72	13.91
<i>For ASTM 120, Deduct</i>	-0.87	
<i>For Work In Restricted Working Space, Add</i>	6.28	
<i>For Schedule 80 Nipples, Add</i>	6.61	
22 11 16 00-0184 EA 2-1/2" x Close, Schedule 40 Galvanized Steel Nipple.....	43.20	17.32
<i>For ASTM 120, Deduct</i>	-2.59	
<i>For Work In Restricted Working Space, Add</i>	7.78	
<i>For Schedule 80 Nipples, Add</i>	19.68	
22 11 16 00-0185 EA 3" x Close, Schedule 40 Galvanized Steel Nipple.....	52.06	20.92
<i>For ASTM 120, Deduct</i>	-3.10	
<i>For Work In Restricted Working Space, Add</i>	9.41	
<i>For Schedule 80 Nipples, Add</i>	23.58	
22 11 16 00-0186 EA 4" x Close, Schedule 40 Galvanized Steel Nipple.....	67.45	24.33
<i>For ASTM 120, Deduct</i>	-4.65	
<i>For Work In Restricted Working Space, Add</i>	10.94	
<i>For Schedule 80 Nipples, Add</i>	35.33	
22 11 16 00-0187 EA 3/8" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	16.12	9.24
<i>For ASTM 120, Deduct</i>	-0.33	
<i>For Work In Restricted Working Space, Add</i>	4.17	
<i>For Schedule 80 Nipples, Add</i>	2.53	
22 11 16 00-0188 EA 1/2" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	15.55	9.24
<i>For ASTM 120, Deduct</i>	-0.25	
<i>For Work In Restricted Working Space, Add</i>	4.17	
<i>For Schedule 80 Nipples, Add</i>	1.88	

22	Plumbing
22 10	Plumbing Piping
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0189	EA		3/4" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	15.97	9.24
			<i>For ASTM 120, Deduct</i>	-0.31	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	2.36	
22 11 16 00-0190	EA		3/8" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	16.12	9.24
			<i>For ASTM 120, Deduct</i>	-0.33	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	2.53	
22 11 16 00-0191	EA		1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	15.55	9.24
			<i>For ASTM 120, Deduct</i>	-0.25	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	1.88	
22 11 16 00-0192	EA		3/4" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	15.97	9.24
			<i>For ASTM 120, Deduct</i>	-0.31	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	2.36	
22 11 16 00-0193	EA		1" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	18.05	10.02
			<i>For ASTM 120, Deduct</i>	-0.46	
			<i>For Work In Restricted Working Space, Add</i>	4.49	
			<i>For Schedule 80 Nipples, Add</i>	3.51	
22 11 16 00-0194	EA		1-1/4" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	19.97	10.80
			<i>For ASTM 120, Deduct</i>	-0.56	
			<i>For Work In Restricted Working Space, Add</i>	4.86	
			<i>For Schedule 80 Nipples, Add</i>	4.29	
22 11 16 00-0195	EA		1-1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	20.63	10.80
			<i>For ASTM 120, Deduct</i>	-0.66	
			<i>For Work In Restricted Working Space, Add</i>	4.86	
			<i>For Schedule 80 Nipples, Add</i>	5.04	
22 11 16 00-0196	EA		3/8" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	16.87	9.24
			<i>For ASTM 120, Deduct</i>	-0.45	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	3.39	
22 11 16 00-0197	EA		1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	15.84	9.24
			<i>For ASTM 120, Deduct</i>	-0.29	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	2.21	
22 11 16 00-0198	EA		3/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	16.19	9.24
			<i>For ASTM 120, Deduct</i>	-0.34	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	2.61	
22 11 16 00-0199	EA		1" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	18.31	10.02
			<i>For ASTM 120, Deduct</i>	-0.50	
			<i>For Work In Restricted Working Space, Add</i>	4.49	
			<i>For Schedule 80 Nipples, Add</i>	3.81	
22 11 16 00-0200	EA		1-1/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	20.34	10.80
			<i>For ASTM 120, Deduct</i>	-0.62	
			<i>For Work In Restricted Working Space, Add</i>	4.86	
			<i>For Schedule 80 Nipples, Add</i>	4.71	
22 11 16 00-0201	EA		1-1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	21.13	10.80
			<i>For ASTM 120, Deduct</i>	-0.74	
			<i>For Work In Restricted Working Space, Add</i>	4.86	
			<i>For Schedule 80 Nipples, Add</i>	5.61	
22 11 16 00-0202	EA		2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	27.44	13.91
			<i>For ASTM 120, Deduct</i>	-0.98	
			<i>For Work In Restricted Working Space, Add</i>	6.28	
			<i>For Schedule 80 Nipples, Add</i>	7.43	
22 11 16 00-0203	EA		3/8" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	16.87	9.24
			<i>For ASTM 120, Deduct</i>	-0.45	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	3.39	
22 11 16 00-0204	EA		1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	15.84	9.24
			<i>For ASTM 120, Deduct</i>	-0.29	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	2.21	
22 11 16 00-0205	EA		3/4" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	16.19	9.24
			<i>For ASTM 120, Deduct</i>	-0.34	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	2.61	
22 11 16 00-0206	EA		1" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	18.31	10.02
			<i>For ASTM 120, Deduct</i>	-0.50	
			<i>For Work In Restricted Working Space, Add</i>	4.49	
			<i>For Schedule 80 Nipples, Add</i>	3.81	
22 11 16 00-0207	EA		1-1/4" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	20.34	10.80
			<i>For ASTM 120, Deduct</i>	-0.62	
			<i>For Work In Restricted Working Space, Add</i>	4.86	
			<i>For Schedule 80 Nipples, Add</i>	4.71	
22 11 16 00-0208	EA		1-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	21.13	10.80
			<i>For ASTM 120, Deduct</i>	-0.74	
			<i>For Work In Restricted Working Space, Add</i>	4.86	
			<i>For Schedule 80 Nipples, Add</i>	5.61	
22 11 16 00-0209	EA		2" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	27.44	13.91
			<i>For ASTM 120, Deduct</i>	-0.98	
			<i>For Work In Restricted Working Space, Add</i>	6.28	
			<i>For Schedule 80 Nipples, Add</i>	7.43	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0210	EA		2-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	43.85	17.32
			<i>For ASTM 120, Deduct</i>	-2.69	
			<i>For Work In Restricted Working Space, Add</i>	7.78	
			<i>For Schedule 80 Nipples, Add</i>	20.42	
22 11 16 00-0211	EA		3" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	54.91	20.92
			<i>For ASTM 120, Deduct</i>	-3.53	
			<i>For Work In Restricted Working Space, Add</i>	9.41	
			<i>For Schedule 80 Nipples, Add</i>	26.82	
22 11 16 00-0212	EA		3/8" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	17.42	9.24
			<i>For ASTM 120, Deduct</i>	-0.53	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	4.01	
22 11 16 00-0213	EA		1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	16.29	9.24
			<i>For ASTM 120, Deduct</i>	-0.36	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	2.72	
22 11 16 00-0214	EA		3/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	16.87	9.24
			<i>For ASTM 120, Deduct</i>	-0.45	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	3.39	
22 11 16 00-0215	EA		1" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	18.98	10.02
			<i>For ASTM 120, Deduct</i>	-0.60	
			<i>For Work In Restricted Working Space, Add</i>	4.49	
			<i>For Schedule 80 Nipples, Add</i>	4.57	
22 11 16 00-0216	EA		1-1/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	21.13	10.80
			<i>For ASTM 120, Deduct</i>	-0.74	
			<i>For Work In Restricted Working Space, Add</i>	4.86	
			<i>For Schedule 80 Nipples, Add</i>	5.61	
22 11 16 00-0217	EA		1-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	22.43	10.80
			<i>For ASTM 120, Deduct</i>	-0.93	
			<i>For Work In Restricted Working Space, Add</i>	4.86	
			<i>For Schedule 80 Nipples, Add</i>	7.09	
22 11 16 00-0218	EA		2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	28.84	13.91
			<i>For ASTM 120, Deduct</i>	-1.19	
			<i>For Work In Restricted Working Space, Add</i>	6.28	
			<i>For Schedule 80 Nipples, Add</i>	9.03	
22 11 16 00-0219	EA		2-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	46.74	17.32
			<i>For ASTM 120, Deduct</i>	-3.12	
			<i>For Work In Restricted Working Space, Add</i>	7.78	
			<i>For Schedule 80 Nipples, Add</i>	23.71	
22 11 16 00-0220	EA		3" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	58.98	20.92
			<i>For ASTM 120, Deduct</i>	-4.14	
			<i>For Work In Restricted Working Space, Add</i>	9.41	
			<i>For Schedule 80 Nipples, Add</i>	31.46	
22 11 16 00-0221	EA		3/8" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	17.42	9.24
			<i>For ASTM 120, Deduct</i>	-0.53	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	4.01	
22 11 16 00-0222	EA		1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	16.29	9.24
			<i>For ASTM 120, Deduct</i>	-0.36	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	2.72	
22 11 16 00-0223	EA		3/4" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	17.42	9.24
			<i>For ASTM 120, Deduct</i>	-0.53	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	4.01	
22 11 16 00-0224	EA		1" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	18.98	10.02
			<i>For ASTM 120, Deduct</i>	-0.60	
			<i>For Work In Restricted Working Space, Add</i>	4.49	
			<i>For Schedule 80 Nipples, Add</i>	4.57	
22 11 16 00-0225	EA		1-1/4" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	21.13	10.80
			<i>For ASTM 120, Deduct</i>	-0.74	
			<i>For Work In Restricted Working Space, Add</i>	4.86	
			<i>For Schedule 80 Nipples, Add</i>	5.61	
22 11 16 00-0226	EA		1-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	22.43	10.80
			<i>For ASTM 120, Deduct</i>	-0.93	
			<i>For Work In Restricted Working Space, Add</i>	4.86	
			<i>For Schedule 80 Nipples, Add</i>	7.09	
22 11 16 00-0227	EA		2" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	28.91	13.91
			<i>For ASTM 120, Deduct</i>	-1.20	
			<i>For Work In Restricted Working Space, Add</i>	6.28	
			<i>For Schedule 80 Nipples, Add</i>	9.11	
22 11 16 00-0228	EA		2-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	46.74	17.32
			<i>For ASTM 120, Deduct</i>	-3.12	
			<i>For Work In Restricted Working Space, Add</i>	7.78	
			<i>For Schedule 80 Nipples, Add</i>	23.71	
22 11 16 00-0229	EA		3" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	58.98	20.92
			<i>For ASTM 120, Deduct</i>	-4.14	
			<i>For Work In Restricted Working Space, Add</i>	9.41	
			<i>For Schedule 80 Nipples, Add</i>	31.46	
22 11 16 00-0230	EA		4" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	73.52	24.33
			<i>For ASTM 120, Deduct</i>	-5.56	
			<i>For Work In Restricted Working Space, Add</i>	10.94	
			<i>For Schedule 80 Nipples, Add</i>	42.25	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0231	EA		3/8" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	18.75	9.24
			<i>For ASTM 120, Deduct</i>	-0.73	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	5.53	
22 11 16 00-0232	EA		1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	16.78	9.24
			<i>For ASTM 120, Deduct</i>	-0.43	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	3.28	
22 11 16 00-0233	EA		3/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	17.44	9.24
			<i>For ASTM 120, Deduct</i>	-0.53	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	4.04	
22 11 16 00-0234	EA		1" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	19.89	10.02
			<i>For ASTM 120, Deduct</i>	-0.74	
			<i>For Work In Restricted Working Space, Add</i>	4.49	
			<i>For Schedule 80 Nipples, Add</i>	5.61	
22 11 16 00-0235	EA		1-1/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	22.29	10.80
			<i>For ASTM 120, Deduct</i>	-0.91	
			<i>For Work In Restricted Working Space, Add</i>	4.86	
			<i>For Schedule 80 Nipples, Add</i>	6.93	
22 11 16 00-0236	EA		1-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	23.73	10.80
			<i>For ASTM 120, Deduct</i>	-1.13	
			<i>For Work In Restricted Working Space, Add</i>	4.86	
			<i>For Schedule 80 Nipples, Add</i>	8.57	
22 11 16 00-0237	EA		2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	31.03	13.91
			<i>For ASTM 120, Deduct</i>	-1.52	
			<i>For Work In Restricted Working Space, Add</i>	6.28	
			<i>For Schedule 80 Nipples, Add</i>	11.53	
22 11 16 00-0238	EA		2-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	49.13	17.32
			<i>For ASTM 120, Deduct</i>	-3.48	
			<i>For Work In Restricted Working Space, Add</i>	7.78	
			<i>For Schedule 80 Nipples, Add</i>	26.44	
22 11 16 00-0239	EA		3" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	63.55	20.92
			<i>For ASTM 120, Deduct</i>	-4.83	
			<i>For Work In Restricted Working Space, Add</i>	9.41	
			<i>For Schedule 80 Nipples, Add</i>	36.67	
22 11 16 00-0240	EA		4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	78.02	24.33
			<i>For ASTM 120, Deduct</i>	-6.23	
			<i>For Work In Restricted Working Space, Add</i>	10.94	
			<i>For Schedule 80 Nipples, Add</i>	47.38	
22 11 16 00-0241	EA		3/8" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	18.75	9.24
			<i>For ASTM 120, Deduct</i>	-0.73	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	5.53	
22 11 16 00-0242	EA		1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	16.78	9.24
			<i>For ASTM 120, Deduct</i>	-0.43	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	3.28	
22 11 16 00-0243	EA		3/4" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	17.44	9.24
			<i>For ASTM 120, Deduct</i>	-0.53	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	4.04	
22 11 16 00-0244	EA		1" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	19.89	10.02
			<i>For ASTM 120, Deduct</i>	-0.74	
			<i>For Work In Restricted Working Space, Add</i>	4.49	
			<i>For Schedule 80 Nipples, Add</i>	5.61	
22 11 16 00-0245	EA		1-1/4" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	22.29	10.80
			<i>For ASTM 120, Deduct</i>	-0.91	
			<i>For Work In Restricted Working Space, Add</i>	4.86	
			<i>For Schedule 80 Nipples, Add</i>	6.93	
22 11 16 00-0246	EA		1-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	23.73	10.80
			<i>For ASTM 120, Deduct</i>	-1.13	
			<i>For Work In Restricted Working Space, Add</i>	4.86	
			<i>For Schedule 80 Nipples, Add</i>	8.57	
22 11 16 00-0247	EA		2" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	31.03	13.91
			<i>For ASTM 120, Deduct</i>	-1.52	
			<i>For Work In Restricted Working Space, Add</i>	6.28	
			<i>For Schedule 80 Nipples, Add</i>	11.53	
22 11 16 00-0248	EA		2-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	49.13	17.32
			<i>For ASTM 120, Deduct</i>	-3.48	
			<i>For Work In Restricted Working Space, Add</i>	7.78	
			<i>For Schedule 80 Nipples, Add</i>	26.44	
22 11 16 00-0249	EA		3" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	63.55	20.92
			<i>For ASTM 120, Deduct</i>	-4.83	
			<i>For Work In Restricted Working Space, Add</i>	9.41	
			<i>For Schedule 80 Nipples, Add</i>	36.67	
22 11 16 00-0250	EA		4" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	78.02	24.33
			<i>For ASTM 120, Deduct</i>	-6.23	
			<i>For Work In Restricted Working Space, Add</i>	10.94	
			<i>For Schedule 80 Nipples, Add</i>	47.38	
22 11 16 00-0251	EA		3/8" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	19.29	9.24
			<i>For ASTM 120, Deduct</i>	-0.81	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	6.14	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0252	EA		1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	17.17	9.24
			<i>For ASTM 120, Deduct</i>	-0.49	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	3.73	
22 11 16 00-0253	EA		3/4" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	18.15	9.24
			<i>For ASTM 120, Deduct</i>	-0.64	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	4.85	
22 11 16 00-0254	EA		1" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	20.55	10.02
			<i>For ASTM 120, Deduct</i>	-0.84	
			<i>For Work In Restricted Working Space, Add</i>	4.49	
			<i>For Schedule 80 Nipples, Add</i>	6.36	
22 11 16 00-0255	EA		1-1/4" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	23.27	10.80
			<i>For ASTM 120, Deduct</i>	-1.06	
			<i>For Work In Restricted Working Space, Add</i>	4.86	
			<i>For Schedule 80 Nipples, Add</i>	8.05	
22 11 16 00-0256	EA		1-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	24.67	10.80
			<i>For ASTM 120, Deduct</i>	-1.27	
			<i>For Work In Restricted Working Space, Add</i>	4.86	
			<i>For Schedule 80 Nipples, Add</i>	9.64	
22 11 16 00-0257	EA		2" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	32.67	13.91
			<i>For ASTM 120, Deduct</i>	-1.76	
			<i>For Work In Restricted Working Space, Add</i>	6.28	
			<i>For Schedule 80 Nipples, Add</i>	13.40	
22 11 16 00-0258	EA		2-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	51.42	17.32
			<i>For ASTM 120, Deduct</i>	-3.82	
			<i>For Work In Restricted Working Space, Add</i>	7.78	
			<i>For Schedule 80 Nipples, Add</i>	29.05	
22 11 16 00-0259	EA		3" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	65.41	20.92
			<i>For ASTM 120, Deduct</i>	-5.10	
			<i>For Work In Restricted Working Space, Add</i>	9.41	
			<i>For Schedule 80 Nipples, Add</i>	38.79	
22 11 16 00-0260	EA		4" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	82.40	24.33
			<i>For ASTM 120, Deduct</i>	-6.89	
			<i>For Work In Restricted Working Space, Add</i>	10.94	
			<i>For Schedule 80 Nipples, Add</i>	52.37	
22 11 16 00-0261	EA		3/8" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	35.45	9.24
			<i>For ASTM 120, Deduct</i>	-3.23	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	24.57	
22 11 16 00-0262	EA		1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	19.66	9.24
			<i>For ASTM 120, Deduct</i>	-0.86	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	6.57	
22 11 16 00-0263	EA		3/4" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	21.26	9.24
			<i>For ASTM 120, Deduct</i>	-1.10	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	8.39	
22 11 16 00-0264	EA		1" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	24.31	10.02
			<i>For ASTM 120, Deduct</i>	-1.40	
			<i>For Work In Restricted Working Space, Add</i>	4.49	
			<i>For Schedule 80 Nipples, Add</i>	10.65	
22 11 16 00-0265	EA		1-1/4" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	27.65	10.80
			<i>For ASTM 120, Deduct</i>	-1.72	
			<i>For Work In Restricted Working Space, Add</i>	4.86	
			<i>For Schedule 80 Nipples, Add</i>	13.04	
22 11 16 00-0266	EA		1-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	29.34	10.80
			<i>For ASTM 120, Deduct</i>	-1.97	
			<i>For Work In Restricted Working Space, Add</i>	4.86	
			<i>For Schedule 80 Nipples, Add</i>	14.97	
22 11 16 00-0267	EA		2" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	40.06	13.91
			<i>For ASTM 120, Deduct</i>	-2.87	
			<i>For Work In Restricted Working Space, Add</i>	6.28	
			<i>For Schedule 80 Nipples, Add</i>	21.82	
22 11 16 00-0268	EA		2-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	58.74	17.32
			<i>For ASTM 120, Deduct</i>	-4.92	
			<i>For Work In Restricted Working Space, Add</i>	7.78	
			<i>For Schedule 80 Nipples, Add</i>	37.39	
22 11 16 00-0269	EA		3" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	77.22	20.92
			<i>For ASTM 120, Deduct</i>	-6.88	
			<i>For Work In Restricted Working Space, Add</i>	9.41	
			<i>For Schedule 80 Nipples, Add</i>	52.26	
22 11 16 00-0270	EA		4" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	91.28	24.33
			<i>For ASTM 120, Deduct</i>	-8.22	
			<i>For Work In Restricted Working Space, Add</i>	10.94	
			<i>For Schedule 80 Nipples, Add</i>	62.49	
22 11 16 00-0271	EA		3/8" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	24.18	9.24
			<i>For ASTM 120, Deduct</i>	-1.54	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	11.72	
22 11 16 00-0272	EA		1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	20.74	9.24
			<i>For ASTM 120, Deduct</i>	-1.03	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	7.80	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0273	EA		3/4" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	22.07	9.24
			<i>For ASTM 120, Deduct</i>	-1.23	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	9.31	
22 11 16 00-0274	EA		1" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	25.64	10.02
			<i>For ASTM 120, Deduct</i>	-1.60	
			<i>For Work In Restricted Working Space, Add</i>	4.49	
			<i>For Schedule 80 Nipples, Add</i>	12.16	
22 11 16 00-0275	EA		1-1/4" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	29.89	10.80
			<i>For ASTM 120, Deduct</i>	-2.05	
			<i>For Work In Restricted Working Space, Add</i>	4.86	
			<i>For Schedule 80 Nipples, Add</i>	15.60	
22 11 16 00-0276	EA		1-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	31.51	10.80
			<i>For ASTM 120, Deduct</i>	-2.30	
			<i>For Work In Restricted Working Space, Add</i>	4.86	
			<i>For Schedule 80 Nipples, Add</i>	17.44	
22 11 16 00-0277	EA		2" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	43.32	13.91
			<i>For ASTM 120, Deduct</i>	-3.36	
			<i>For Work In Restricted Working Space, Add</i>	6.28	
			<i>For Schedule 80 Nipples, Add</i>	25.54	
22 11 16 00-0278	EA		2-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	63.32	17.32
			<i>For ASTM 120, Deduct</i>	-5.61	
			<i>For Work In Restricted Working Space, Add</i>	7.78	
			<i>For Schedule 80 Nipples, Add</i>	42.61	
22 11 16 00-0279	EA		3" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	83.67	20.92
			<i>For ASTM 120, Deduct</i>	-7.84	
			<i>For Work In Restricted Working Space, Add</i>	9.41	
			<i>For Schedule 80 Nipples, Add</i>	59.61	
22 11 16 00-0280	EA		4" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	100.00	24.33
			<i>For ASTM 120, Deduct</i>	-9.53	
			<i>For Work In Restricted Working Space, Add</i>	10.94	
			<i>For Schedule 80 Nipples, Add</i>	72.44	
22 11 16 00-0281	EA		3/8" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	25.29	9.24
			<i>For ASTM 120, Deduct</i>	-1.71	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	12.98	
22 11 16 00-0282	EA		1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	21.69	9.24
			<i>For ASTM 120, Deduct</i>	-1.17	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	8.88	
22 11 16 00-0283	EA		3/4" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	23.07	9.24
			<i>For ASTM 120, Deduct</i>	-1.38	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
			<i>For Schedule 80 Nipples, Add</i>	10.45	
22 11 16 00-0284	EA		1" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	27.39	10.02
			<i>For ASTM 120, Deduct</i>	-1.86	
			<i>For Work In Restricted Working Space, Add</i>	4.49	
			<i>For Schedule 80 Nipples, Add</i>	14.16	
22 11 16 00-0285	EA		1-1/4" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	32.64	10.80
			<i>For ASTM 120, Deduct</i>	-2.46	
			<i>For Work In Restricted Working Space, Add</i>	4.86	
			<i>For Schedule 80 Nipples, Add</i>	18.73	
22 11 16 00-0286	EA		1-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	33.72	10.80
			<i>For ASTM 120, Deduct</i>	-2.63	
			<i>For Work In Restricted Working Space, Add</i>	4.86	
			<i>For Schedule 80 Nipples, Add</i>	19.96	
22 11 16 00-0287	EA		2" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	46.62	13.91
			<i>For ASTM 120, Deduct</i>	-3.86	
			<i>For Work In Restricted Working Space, Add</i>	6.28	
			<i>For Schedule 80 Nipples, Add</i>	29.30	
22 11 16 00-0288	EA		2-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	67.77	17.32
			<i>For ASTM 120, Deduct</i>	-6.27	
			<i>For Work In Restricted Working Space, Add</i>	7.78	
			<i>For Schedule 80 Nipples, Add</i>	47.69	
22 11 16 00-0289	EA		3" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	90.18	20.92
			<i>For ASTM 120, Deduct</i>	-8.82	
			<i>For Work In Restricted Working Space, Add</i>	9.41	
			<i>For Schedule 80 Nipples, Add</i>	67.03	
22 11 16 00-0290	EA		4" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	108.79	24.33
			<i>For ASTM 120, Deduct</i>	-10.85	
			<i>For Work In Restricted Working Space, Add</i>	10.94	
			<i>For Schedule 80 Nipples, Add</i>	82.46	
22 11 16 00-0291			Galvanized Malleable Iron Square Head Plugs (22 11 16 00-0013)		
22 11 16 00-0292	EA		1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	15.88	6.91
			<i>For Work In Restricted Working Space, Add</i>	3.11	
			<i>For 300 LB Rating, Add</i>	19.32	
22 11 16 00-0293	EA		3/4", 150 LB, Galvanized Malleable Iron Square Head Plug.....	17.11	7.78
			<i>For Work In Restricted Working Space, Add</i>	3.48	
			<i>For 300 LB Rating, Add</i>	19.40	
22 11 16 00-0294	EA		1", 150 LB, Galvanized Malleable Iron Square Head Plug.....	19.00	8.66
			<i>For Work In Restricted Working Space, Add</i>	3.89	
			<i>For 300 LB Rating, Add</i>	21.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0295 EA 1-1/4", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	23.96 4.40 32.43	9.83
22 11 16 00-0296 EA 1-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	29.05 4.97 43.49	10.99
22 11 16 00-0297 EA 2", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	36.93 6.31 55.32	14.01
22 11 16 00-0298 EA 2-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	62.14 9.34 107.30	20.72
22 11 16 00-0299 EA 3", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	84.97 12.29 152.06	27.34
22 11 16 00-0300 EA 4", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	133.87 12.76 313.11	28.34
22 11 16 00-0301 EA 5", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	211.96 13.31 572.43	29.62
22 11 16 00-0302 EA 6", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	227.57 13.92 618.76	30.89
22 11 16 00-0303 Galvanized Malleable Iron Bushing <small>(22 11 16 00-0013)</small>		
22 11 16 00-0304 EA 3/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	39.66 8.25	18.29
22 11 16 00-0305 EA 1" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	43.75 8.75	19.46
22 11 16 00-0306 EA 1" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	44.53 9.22	20.52
22 11 16 00-0307 EA 1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	51.72 9.40	20.92
22 11 16 00-0308 EA 1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	51.42 9.86	21.89
22 11 16 00-0309 EA 1-1/4" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	53.12 10.37	23.05
22 11 16 00-0310 EA 1-1/2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	60.62 10.10	22.47
22 11 16 00-0311 EA 1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	62.16 10.56	23.45
22 11 16 00-0312 EA 1-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	61.21 11.07	24.61
22 11 16 00-0313 EA 1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	61.47 11.71	26.07
22 11 16 00-0314 EA 2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	72.93 11.78	26.17
22 11 16 00-0315 EA 2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	72.13 12.24	27.24
22 11 16 00-0316 EA 2" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	72.11 12.75	28.31
22 11 16 00-0317 EA 2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	74.25 13.39	29.77
22 11 16 00-0318 EA 2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	72.96 14.10	31.32
22 11 16 00-0319 EA 2-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	102.15 16.03	35.61
22 11 16 00-0320 EA 2-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	103.84 16.54	36.78
22 11 16 00-0321 EA 2-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	105.98 17.18	38.14
22 11 16 00-0322 EA 2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	107.42 17.88	39.79
22 11 16 00-0323 EA 2-1/2" x 2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	107.56 19.56	43.48
22 11 16 00-0324 EA 3" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	130.02 19.72	43.77
22 11 16 00-0325 EA 3" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	131.71 20.22	44.94
22 11 16 00-0326 EA 3" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	133.86 20.87	46.40
22 11 16 00-0327 EA 3" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	134.94 21.57	47.95
22 11 16 00-0328 EA 3" x 2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	134.64 23.25	51.65
22 11 16 00-0329 EA 3" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	150.58 27.03	60.12
22 11 16 00-0330 EA 4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	201.53 20.03	44.47
22 11 16 00-0331 EA 4" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	203.11 20.51	45.57



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0332 EA 4" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing	205.12	46.93
<i>For Work In Restricted Working Space, Add</i>	21.11	
22 11 16 00-0333 EA 4" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing	207.32	48.40
<i>For Work In Restricted Working Space, Add</i>	21.77	
22 11 16 00-0334 EA 4" x 2", 150 LB, Galvanized Malleable Iron Bushing	196.69	51.86
<i>For Work In Restricted Working Space, Add</i>	23.34	
22 11 16 00-0335 EA 4" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing	224.38	59.78
<i>For Work In Restricted Working Space, Add</i>	26.89	
22 11 16 00-0336 EA 4" x 3", 150 LB, Galvanized Malleable Iron Bushing	226.98	67.44
<i>For Work In Restricted Working Space, Add</i>	30.34	
22 11 16 00-0337 Galvanized Malleable Iron Floor Flange <small>(22 11 16 00-0013)</small>		
Note: Excludes fasteners to floor or wall. See CSI section 05 05 19 00-0001 for anchors.		
22 11 16 00-0338 EA 1/2", 150 LB, Galvanized Malleable Iron Floor Flange	59.15	35.55
22 11 16 00-0339 EA 3/4", 150 LB, Galvanized Malleable Iron Floor Flange	64.68	38.91
22 11 16 00-0340 EA 1", 150 LB, Galvanized Malleable Iron Floor Flange	74.15	43.97
22 11 16 00-0341 EA 1-1/4", 150 LB, Galvanized Malleable Iron Floor Flange	77.02	45.53
22 11 16 00-0342 EA 1-1/2", 150 LB, Galvanized Malleable Iron Floor Flange	83.83	49.52
22 11 16 00-0343 EA 2", 150 LB, Galvanized Malleable Iron Floor Flange	89.97	51.65
22 11 16 00-0344 Galvanized Cast Iron Flanges <small>(22 11 16 00-0013)</small>		
Note: Excludes bolt and gasket sets		
22 11 16 00-0345 EA 3/4", 125 LB, Galvanized Cast Iron Flange	107.56	38.91
<i>For Work In Restricted Working Space, Add</i>	17.51	
22 11 16 00-0346 EA 1", 125 LB, Galvanized Cast Iron Flange	104.03	43.97
<i>For Work In Restricted Working Space, Add</i>	19.78	
22 11 16 00-0347 EA 1-1/4", 125 LB, Galvanized Cast Iron Flange	88.39	45.53
<i>For Work In Restricted Working Space, Add</i>	20.48	
22 11 16 00-0348 EA 1-1/2", 125 LB, Galvanized Cast Iron Flange	119.00	49.52
<i>For Work In Restricted Working Space, Add</i>	22.28	
22 11 16 00-0349 EA 2", 125 LB, Galvanized Cast Iron Flange	116.84	51.65
<i>For Work In Restricted Working Space, Add</i>	23.25	
22 11 16 00-0350 EA 2-1/2", 125 LB, Galvanized Cast Iron Flange	135.66	59.83
<i>For Work In Restricted Working Space, Add</i>	26.89	
22 11 16 00-0351 EA 3", 125 LB, Galvanized Cast Iron Flange	238.04	75.88
<i>For Work In Restricted Working Space, Add</i>	34.13	
22 11 16 00-0352 EA 4", 125 LB, Galvanized Cast Iron Flange	315.06	97.25
<i>For Work In Restricted Working Space, Add</i>	43.73	
22 11 16 00-0353 EA 5", 125 LB, Galvanized Cast Iron Flange	439.31	115.75
<i>For Work In Restricted Working Space, Add</i>	52.07	
22 11 16 00-0354 EA 6", 125 LB, Galvanized Cast Iron Flange	483.42	132.97
<i>For Work In Restricted Working Space, Add</i>	59.81	
22 11 16 00-0355 EA 8", 125 LB, Galvanized Cast Iron Flange	449.93	151.97
<i>For Work In Restricted Working Space, Add</i>	68.35	
22 11 16 00-0356 Cut And Thread Existing In-Place Galvanized Steel Pipe <small>(22 11 16 00-0013)</small>		
Note: For use when connecting pipe to an existing in-place system.		
22 11 16 00-0357 EA 1/2", Cut And Thread Existing In Place Galvanized Steel Pipe	31.69	
<i>For Work In Restricted Working Space, Add</i>	9.51	
22 11 16 00-0358 EA 3/4", Cut And Thread Existing In Place Galvanized Steel Pipe	34.86	
<i>For Work In Restricted Working Space, Add</i>	10.46	
22 11 16 00-0359 EA 1", Cut And Thread Existing In Place Galvanized Steel Pipe	38.03	
<i>For Work In Restricted Working Space, Add</i>	11.41	
22 11 16 00-0360 EA 1-1/4", Cut And Thread Existing In Place Galvanized Steel Pipe	41.20	
<i>For Work In Restricted Working Space, Add</i>	12.36	
22 11 16 00-0361 EA 1-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe	43.30	
<i>For Work In Restricted Working Space, Add</i>	12.99	
22 11 16 00-0362 EA 2", Cut And Thread Existing In Place Galvanized Steel Pipe	45.42	
<i>For Work In Restricted Working Space, Add</i>	13.63	
22 11 16 00-0363 EA 2-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe	47.54	
<i>For Work In Restricted Working Space, Add</i>	14.26	
22 11 16 00-0364 EA 3", Cut And Thread Existing In Place Galvanized Steel Pipe	49.64	
<i>For Work In Restricted Working Space, Add</i>	14.89	
22 11 16 00-0365 EA 4", Cut And Thread Existing In Place Galvanized Steel Pipe	51.76	
<i>For Work In Restricted Working Space, Add</i>	15.53	
22 11 16 00-0366 EA 6", Cut And Thread Existing In Place Galvanized Steel Pipe	55.98	
<i>For Work In Restricted Working Space, Add</i>	16.79	
22 11 16 00-0367 EA 8", Cut And Thread Existing In Place Galvanized Steel Pipe	60.20	
<i>For Work In Restricted Working Space, Add</i>	18.06	
22 11 16 00-0368 Copper Pipe And Fittings <small>(22 11 16)</small>		
Note: Excludes hangers. See CSI section 22 11 16 00-0899 for pipe with fittings assembly.		
22 11 16 00-0369 Copper Tube/Pipe <small>(22 11 16 00-0368)</small>		
Note: Pipe based on inside diameter size. Excludes hangers and fittings (couplers, tees, elbows, etc).		
22 11 16 00-0370 Hard Drawn Type L Copper Tube/Pipe <small>(22 11 16 00-0369)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0371 LF 1/4" Hard Drawn Type L Copper Tube/Pipe.....	4.92	2.38
<i>For <20, Add</i>	0.14	
<i>For >150, Deduct</i>	-0.27	
<i>For Work In Restricted Working Space, Add</i>	1.07	
<i>For Medical/Oxygen Service Tubing, Add</i>	0.11	
22 11 16 00-0372 LF 3/8" Hard Drawn Type L Copper Tube/Pipe.....	5.69	2.47
<i>For <20, Add</i>	0.20	
<i>For >150, Deduct</i>	-0.40	
<i>For Work In Restricted Working Space, Add</i>	1.11	
<i>For Medical/Oxygen Service Tubing, Add</i>	0.16	
22 11 16 00-0373 LF 1/2" Hard Drawn Type L Copper Tube/Pipe.....	6.23	2.58
<i>For <20, Add</i>	0.24	
<i>For >150, Deduct</i>	-0.47	
<i>For Work In Restricted Working Space, Add</i>	1.16	
<i>For Medical/Oxygen Service Tubing, Add</i>	0.19	
22 11 16 00-0374 LF 3/4" Hard Drawn Type L Copper Tube/Pipe.....	7.94	2.74
<i>For <20, Add</i>	0.38	
<i>For >150, Deduct</i>	-0.77	
<i>For Work In Restricted Working Space, Add</i>	1.23	
<i>For Medical/Oxygen Service Tubing, Add</i>	0.31	
22 11 16 00-0375 LF 1" Hard Drawn Type L Copper Tube/Pipe.....	10.17	3.07
<i>For <20, Add</i>	0.56	
<i>For >150, Deduct</i>	-1.11	
<i>For Work In Restricted Working Space, Add</i>	1.38	
<i>For Medical/Oxygen Service Tubing, Add</i>	0.44	
22 11 16 00-0376 LF 1-1/4" Hard Drawn Type L Copper Tube/Pipe.....	14.51	4.57
<i>For <20, Add</i>	0.77	
<i>For >150, Deduct</i>	-1.53	
<i>For Work In Restricted Working Space, Add</i>	2.06	
<i>For Medical/Oxygen Service Tubing, Add</i>	0.61	
22 11 16 00-0377 LF 1-1/2" Hard Drawn Type L Copper Tube/Pipe.....	17.51	5.10
<i>For <20, Add</i>	0.99	
<i>For >150, Deduct</i>	-1.97	
<i>For Work In Restricted Working Space, Add</i>	2.30	
<i>For Medical/Oxygen Service Tubing, Add</i>	0.79	
22 11 16 00-0378 LF 2" Hard Drawn Type L Copper Tube/Pipe.....	25.02	6.30
<i>For <20, Add</i>	1.56	
<i>For >150, Deduct</i>	-3.12	
<i>For Work In Restricted Working Space, Add</i>	2.83	
<i>For Medical/Oxygen Service Tubing, Add</i>	1.25	
22 11 16 00-0379 LF 2-1/2" Hard Drawn Type L Copper Tube/Pipe.....	44.76	7.40
<i>For <20, Add</i>	2.25	
<i>For >150, Deduct</i>	-4.50	
<i>For Work In Restricted Working Space, Add</i>	6.67	
<i>For Medical/Oxygen Service Tubing, Add</i>	1.80	
22 11 16 00-0380 LF 3" Hard Drawn Type L Copper Tube/Pipe.....	56.19	8.73
<i>For <20, Add</i>	3.00	
<i>For >150, Deduct</i>	-6.01	
<i>For Work In Restricted Working Space, Add</i>	7.85	
<i>For Medical/Oxygen Service Tubing, Add</i>	2.40	
22 11 16 00-0381 LF 4" Hard Drawn Type L Copper Tube/Pipe.....	83.05	9.85
<i>For <20, Add</i>	5.35	
<i>For >150, Deduct</i>	-10.71	
<i>For Work In Restricted Working Space, Add</i>	8.86	
<i>For Medical/Oxygen Service Tubing, Add</i>	4.28	
22 11 16 00-0382 LF 5" Hard Drawn Type L Copper Tube/Pipe.....	128.45	11.30
<i>For <20, Add</i>	9.46	
<i>For >150, Deduct</i>	-18.91	
<i>For Work In Restricted Working Space, Add</i>	10.17	
<i>For Medical/Oxygen Service Tubing, Add</i>	7.56	
22 11 16 00-0383 LF 6" Hard Drawn Type L Copper Tube/Pipe.....	176.93	17.52
<i>For <20, Add</i>	12.44	
<i>For >150, Deduct</i>	-24.88	
<i>For Work In Restricted Working Space, Add</i>	15.76	
<i>For Medical/Oxygen Service Tubing, Add</i>	9.95	
22 11 16 00-0384 LF 8" Hard Drawn Type L Copper Tube/Pipe.....	292.85	19.48
<i>For <20, Add</i>	23.45	
<i>For >150, Deduct</i>	-46.89	
<i>For Work In Restricted Working Space, Add</i>	17.52	
<i>For Medical/Oxygen Service Tubing, Add</i>	18.76	
22 11 16 00-0385 Hard Drawn Type K Copper Tube/Pipe (22 11 16 00-0369)		
22 11 16 00-0386 LF 1/4" Hard Drawn Type K Copper Tube/Pipe.....	5.35	2.56
<i>For <20, Add</i>	0.15	
<i>For >150, Deduct</i>	-0.30	
<i>For Work In Restricted Working Space, Add</i>	1.15	
<i>For Medical/Oxygen Service Tubing, Add</i>	0.12	
22 11 16 00-0387 LF 3/8" Hard Drawn Type K Copper Tube/Pipe.....	7.12	2.66
<i>For <20, Add</i>	0.27	
<i>For >150, Deduct</i>	-0.55	
<i>For Work In Restricted Working Space, Add</i>	1.31	
<i>For Medical/Oxygen Service Tubing, Add</i>	0.22	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0388 LF 1/2" Hard Drawn Type K Copper Tube/Pipe	7.48	2.77
For <20, Add	0.32	
For >150, Deduct	-0.64	
For Work In Restricted Working Space, Add	1.28	
For Medical/Oxygen Service Tubing, Add	0.26	
22 11 16 00-0389 LF 3/4" Hard Drawn Type K Copper Tube/Pipe	10.74	2.93
For <20, Add	0.58	
For >150, Deduct	-1.16	
For Work In Restricted Working Space, Add	1.49	
For Medical/Oxygen Service Tubing, Add	0.46	
22 11 16 00-0390 LF 1" Hard Drawn Type K Copper Tube/Pipe	12.96	3.30
For <20, Add	0.77	
For >150, Deduct	-1.54	
For Work In Restricted Working Space, Add	1.58	
For Medical/Oxygen Service Tubing, Add	0.62	
22 11 16 00-0391 LF 1-1/4" Hard Drawn Type K Copper Tube/Pipe	17.04	4.91
For <20, Add	0.96	
For >150, Deduct	-1.92	
For Work In Restricted Working Space, Add	2.24	
For Medical/Oxygen Service Tubing, Add	0.77	
22 11 16 00-0392 LF 1-1/2" Hard Drawn Type K Copper Tube/Pipe	20.66	5.48
For <20, Add	1.23	
For >150, Deduct	-2.46	
For Work In Restricted Working Space, Add	2.51	
For Medical/Oxygen Service Tubing, Add	0.98	
22 11 16 00-0393 LF 2" Hard Drawn Type K Copper Tube/Pipe	29.14	6.77
For <20, Add	1.89	
For >150, Deduct	-3.77	
For Work In Restricted Working Space, Add	3.08	
For Medical/Oxygen Service Tubing, Add	1.51	
22 11 16 00-0394 LF 2-1/2" Hard Drawn Type K Copper Tube/Pipe	50.46	7.95
For <20, Add	2.81	
For >150, Deduct	-5.62	
For Work In Restricted Working Space, Add	6.70	
For Medical/Oxygen Service Tubing, Add	2.25	
22 11 16 00-0395 LF 3" Hard Drawn Type K Copper Tube/Pipe	67.22	9.38
For <20, Add	3.84	
For >150, Deduct	-7.69	
For Work In Restricted Working Space, Add	8.63	
For Medical/Oxygen Service Tubing, Add	3.08	
22 11 16 00-0396 LF 4" Hard Drawn Type K Copper Tube/Pipe	101.13	10.58
For <20, Add	6.85	
For >150, Deduct	-13.70	
For Work In Restricted Working Space, Add	9.78	
For Medical/Oxygen Service Tubing, Add	5.48	
22 11 16 00-0397 LF 5" Hard Drawn Type K Copper Tube/Pipe	164.06	12.15
For <20, Add	12.56	
For >150, Deduct	-25.11	
For Work In Restricted Working Space, Add	11.55	
For Medical/Oxygen Service Tubing, Add	10.04	
22 11 16 00-0398 LF 6" Hard Drawn Type K Copper Tube/Pipe	242.22	18.83
For <20, Add	18.02	
For >150, Deduct	-36.03	
For Work In Restricted Working Space, Add	18.62	
For Medical/Oxygen Service Tubing, Add	14.41	
22 11 16 00-0399 LF 8" Hard Drawn Type K Copper Tube/Pipe	405.73	20.94
For <20, Add	33.74	
For >150, Deduct	-67.47	
For Work In Restricted Working Space, Add	20.51	
For Medical/Oxygen Service Tubing, Add	26.99	
22 11 16 00-0400 Hard Drawn Type M Copper Tube/Pipe (22 11 16 00-0369)		
22 11 16 00-0401 LF 3/8" Hard Drawn Type M Copper Tube/Pipe	4.75	2.23
For <20, Add	0.15	
For >150, Deduct	-0.31	
For Work In Restricted Working Space, Add	0.96	
22 11 16 00-0402 LF 1/2" Hard Drawn Type M Copper Tube/Pipe	5.05	2.33
For <20, Add	0.17	
For >150, Deduct	-0.35	
For Work In Restricted Working Space, Add	0.99	
22 11 16 00-0403 LF 3/4" Hard Drawn Type M Copper Tube/Pipe	6.34	2.46
For <20, Add	0.28	
For >150, Deduct	-0.56	
For Work In Restricted Working Space, Add	1.06	
22 11 16 00-0404 LF 1" Hard Drawn Type M Copper Tube/Pipe	8.28	2.77
For <20, Add	0.43	
For >150, Deduct	-0.87	
For Work In Restricted Working Space, Add	1.18	
22 11 16 00-0405 LF 1-1/4" Hard Drawn Type M Copper Tube/Pipe	12.39	4.12
For <20, Add	0.63	
For >150, Deduct	-1.26	
For Work In Restricted Working Space, Add	1.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0406 LF 1-1/2" Hard Drawn Type M Copper Tube/Pipe.....	15.68	4.59
For <20, Add	0.87	
For >150, Deduct	-1.74	
For Work In Restricted Working Space, Add	2.09	
22 11 16 00-0407 LF 2" Hard Drawn Type M Copper Tube/Pipe.....	22.37	5.66
For <20, Add	1.37	
For >150, Deduct	-2.74	
For Work In Restricted Working Space, Add	2.60	
22 11 16 00-0408 LF 2-1/2" Hard Drawn Type M Copper Tube/Pipe.....	40.91	6.66
For <20, Add	1.99	
For >150, Deduct	-3.98	
For Work In Restricted Working Space, Add	6.30	
22 11 16 00-0409 LF 3" Hard Drawn Type M Copper Tube/Pipe.....	50.06	7.85
For <20, Add	2.65	
For >150, Deduct	-5.29	
For Work In Restricted Working Space, Add	7.08	
22 11 16 00-0410 LF 4" Hard Drawn Type M Copper Tube/Pipe.....	77.10	8.86
For <20, Add	4.96	
For >150, Deduct	-9.91	
For Work In Restricted Working Space, Add	8.26	
22 11 16 00-0411 LF 5" Hard Drawn Type M Copper Tube/Pipe.....	128.00	10.17
For <20, Add	9.62	
For >150, Deduct	-19.24	
For Work In Restricted Working Space, Add	9.54	
22 11 16 00-0412 LF 6" Hard Drawn Type M Copper Tube/Pipe.....	177.77	15.77
For <20, Add	12.85	
For >150, Deduct	-25.71	
For Work In Restricted Working Space, Add	14.77	
22 11 16 00-0413 LF 8" Hard Drawn Type M Copper Tube/Pipe.....	297.73	17.53
For <20, Add	24.36	
For >150, Deduct	-48.71	
For Work In Restricted Working Space, Add	16.25	
22 11 16 00-0414 Soft Drawn Type L Copper Tube (22 11 16 00-0369)		
22 11 16 00-0415 LF 1/4" Soft Drawn Type L Copper Tube	5.31	2.38
For <20, Add	0.18	
For >150, Deduct	-0.35	
For Work In Restricted Working Space, Add	1.07	
22 11 16 00-0416 LF 3/8" Soft Drawn Type L Copper Tube	6.43	2.47
For <20, Add	0.27	
For >150, Deduct	-0.54	
For Work In Restricted Working Space, Add	1.11	
22 11 16 00-0417 LF 1/2" Soft Drawn Type L Copper Tube	7.51	2.58
For <20, Add	0.36	
For >150, Deduct	-0.73	
For Work In Restricted Working Space, Add	1.16	
22 11 16 00-0418 LF 5/8" Soft Drawn Type L Copper Tube	8.67	2.66
For <20, Add	0.47	
For >150, Deduct	-0.94	
For Work In Restricted Working Space, Add	1.20	
22 11 16 00-0419 LF 3/4" Soft Drawn Type L Copper Tube	9.68	2.74
For <20, Add	0.56	
For >150, Deduct	-1.12	
For Work In Restricted Working Space, Add	1.23	
22 11 16 00-0420 LF 1" Soft Drawn Type L Copper Tube	12.34	3.07
For <20, Add	0.77	
For >150, Deduct	-1.55	
For Work In Restricted Working Space, Add	1.38	
22 11 16 00-0421 LF 1-1/4" Soft Drawn Type L Copper Tube	17.02	4.57
For <20, Add	1.02	
For >150, Deduct	-2.03	
For Work In Restricted Working Space, Add	2.06	
22 11 16 00-0422 LF 1-1/2" Soft Drawn Type L Copper Tube	21.43	5.10
For <20, Add	1.38	
For >150, Deduct	-2.76	
For Work In Restricted Working Space, Add	2.30	
22 11 16 00-0423 LF 2" Soft Drawn Type L Copper Tube	31.35	6.30
For <20, Add	2.19	
For >150, Deduct	-4.38	
For Work In Restricted Working Space, Add	2.83	
22 11 16 00-0424 Soft Drawn Type K Copper Tube (22 11 16 00-0369)		
22 11 16 00-0425 LF 1/4" Soft Drawn Type K Copper Tube	5.48	2.38
For <20, Add	0.19	
For >150, Deduct	-0.38	
For Work In Restricted Working Space, Add	1.07	
22 11 16 00-0426 LF 3/8" Soft Drawn Type K Copper Tube	6.99	2.47
For <20, Add	0.33	
For >150, Deduct	-0.66	
For Work In Restricted Working Space, Add	1.11	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0427	LF	1/2" Soft Drawn Type K Copper Tube	7.98	2.58
		For <20, Add	0.41	
		For >150, Deduct	-0.82	
		For Work In Restricted Working Space, Add	1.16	
22 11 16 00-0428	LF	5/8" Soft Drawn Type K Copper Tube	8.89	2.66
		For <20, Add	0.49	
		For >150, Deduct	-0.98	
		For Work In Restricted Working Space, Add	1.20	
22 11 16 00-0429	LF	3/4" Soft Drawn Type K Copper Tube	11.71	2.74
		For <20, Add	0.76	
		For >150, Deduct	-1.52	
		For Work In Restricted Working Space, Add	1.23	
22 11 16 00-0430	LF	1" Soft Drawn Type K Copper Tube	14.71	3.07
		For <20, Add	1.01	
		For >150, Deduct	-2.02	
		For Work In Restricted Working Space, Add	1.38	
22 11 16 00-0431	LF	1-1/4" Soft Drawn Type K Copper Tube	18.76	4.57
		For <20, Add	1.19	
		For >150, Deduct	-2.38	
		For Work In Restricted Working Space, Add	2.06	
22 11 16 00-0432	LF	1-1/2" Soft Drawn Type K Copper Tube	24.20	5.10
		For <20, Add	1.66	
		For >150, Deduct	-3.31	
		For Work In Restricted Working Space, Add	2.30	
22 11 16 00-0433	LF	2" Soft Drawn Type K Copper Tube	35.15	6.30
		For <20, Add	2.57	
		For >150, Deduct	-5.14	
		For Work In Restricted Working Space, Add	2.83	
22 11 16 00-0434	LF	2-1/2" Soft Drawn Type K Copper Tube	49.89	7.55
		For <20, Add	3.86	
		For >150, Deduct	-7.72	
		For Work In Restricted Working Space, Add	3.39	
22 11 16 00-0435	LF	3" Soft Drawn Type K Copper Tube	67.03	8.91
		For <20, Add	5.37	
		For >150, Deduct	-10.73	
		For Work In Restricted Working Space, Add	4.01	
22 11 16 00-0436		Copper And Brass Fittings (22 11 16 00-0368)		
		Note: All fittings are based on 95/5 solder.		
22 11 16 00-0437		90 Degree Copper Elbows (22 11 16 00-0436)		
22 11 16 00-0438	EA	1/4" 90 Degree Copper Elbow	25.22	14.10
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.32	
		For Brazed Fittings Instead Of 95/5 Solder, Add	3.17	
		For Street Fitting, Add	1.64	
		For Work In Restricted Working Space, Add	6.34	
		For Silver Solder Instead Of 95/5 Solder, Add	3.37	
22 11 16 00-0439	EA	3/8" 90 Degree Copper Elbow	29.67	16.90
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.75	
		For Brazed Fittings Instead Of 95/5 Solder, Add	3.80	
		For Street Fitting, Add	1.73	
		For Work In Restricted Working Space, Add	7.61	
		For Silver Solder Instead Of 95/5 Solder, Add	4.02	
22 11 16 00-0440	EA	1/2" 90 Degree Copper Elbow	36.26	23.23
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.56	
		For Brazed Fittings Instead Of 95/5 Solder, Add	5.23	
		For Street Fitting, Add	0.56	
		For Work In Restricted Working Space, Add	10.46	
		For Silver Solder Instead Of 95/5 Solder, Add	5.30	
22 11 16 00-0441	EA	3/4" 90 Degree Copper Elbow	46.45	28.95
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.49	
		For Brazed Fittings Instead Of 95/5 Solder, Add	6.50	
		For Street Fitting, Add	1.26	
		For Work In Restricted Working Space, Add	12.99	
		For Silver Solder Instead Of 95/5 Solder, Add	6.65	
22 11 16 00-0442	EA	1" 90 Degree Copper Elbow	59.47	34.54
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.56	
		For Brazed Fittings Instead Of 95/5 Solder, Add	7.76	
		For Street Fitting, Add	3.08	
		For Work In Restricted Working Space, Add	15.53	
		For Silver Solder Instead Of 95/5 Solder, Add	8.15	
22 11 16 00-0443	EA	1-1/4" 90 Degree Copper Elbow	67.51	37.39
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.17	
		For Brazed Fittings Instead Of 95/5 Solder, Add	8.40	
		For Street Fitting, Add	4.61	
		For Work In Restricted Working Space, Add	16.79	
		For Silver Solder Instead Of 95/5 Solder, Add	8.97	
22 11 16 00-0444	EA	1-1/2" 90 Degree Copper Elbow	79.30	40.88
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.03	
		For Brazed Fittings Instead Of 95/5 Solder, Add	9.19	
		For Street Fitting, Add	7.21	
		For Work In Restricted Working Space, Add	18.38	
		For Silver Solder Instead Of 95/5 Solder, Add	10.09	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0445	EA		2" 90 Degree Copper Elbow.....	101.51	45.84
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.51	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.30	
			<i>For Street Fitting, Add</i>	13.14	
			<i>For Work In Restricted Working Space, Add</i>	20.60	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.94	
22 11 16 00-0446	EA		2-1/2" 90 Degree Copper Elbow	134.48	46.69
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-10.23	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.51	
			<i>For Work In Restricted Working Space, Add</i>	21.01	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	13.73	
22 11 16 00-0447	EA		3" 90 Degree Copper Elbow.....	174.54	55.84
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-12.91	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.55	
			<i>For Work In Restricted Working Space, Add</i>	25.10	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	17.09	
22 11 16 00-0448	EA		4" 90 Degree Copper Elbow.....	339.19	79.19
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-22.89	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	17.80	
			<i>For Work In Restricted Working Space, Add</i>	35.60	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	28.83	
22 11 16 00-0449	EA		5" 90 Degree Copper Elbow.....	1,086.24	108.37
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-62.43	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	24.37	
			<i>For Work In Restricted Working Space, Add</i>	48.74	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	70.56	
22 11 16 00-0450	EA		6" 90 Degree Copper Elbow.....	1,467.87	157.69
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-85.21	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	35.46	
			<i>For Work In Restricted Working Space, Add</i>	70.92	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	97.03	
22 11 16 00-0451	EA		8" 90 Degree Copper Elbow.....	4,871.04	210.22
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-259.31	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	47.28	
			<i>For Work In Restricted Working Space, Add</i>	94.55	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	275.07	
22 11 16 00-0452			90 Degree Brass Elbows (22 11 16 00-0436)		
22 11 16 00-0453	EA		1/2" Drop Ear 90 Degree Brass Elbow.....	43.66	23.23
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.93	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.23	
			<i>For Work In Restricted Working Space, Add</i>	10.46	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.67	
22 11 16 00-0454	EA		3/4" Drop Ear 90 Degree Brass Elbow.....	68.96	28.95
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.61	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.50	
			<i>For Work In Restricted Working Space, Add</i>	12.99	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.78	
22 11 16 00-0455	EA		1/2" Flanged Sink 90 Degree Brass Elbow	50.90	23.23
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.29	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.23	
			<i>For Work In Restricted Working Space, Add</i>	10.46	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.03	
22 11 16 00-0456	EA		3/8" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	38.51	16.90
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.19	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	3.80	
			<i>For Work In Restricted Working Space, Add</i>	7.61	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.46	
22 11 16 00-0457	EA		1/2" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	44.28	23.23
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.96	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.23	
			<i>For Work In Restricted Working Space, Add</i>	10.46	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.70	
22 11 16 00-0458	EA		3/4" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	59.89	28.95
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.16	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.50	
			<i>For Work In Restricted Working Space, Add</i>	12.99	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.32	
22 11 16 00-0459	EA		1" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	104.72	34.54
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.82	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.76	
			<i>For Work In Restricted Working Space, Add</i>	15.53	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.41	
22 11 16 00-0460			Reducing 90 Degree Copper Elbows (22 11 16 00-0436)		
22 11 16 00-0461	EA		1/2" Reducing 90 Degree Copper Elbow	46.23	23.23
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.05	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.23	
			<i>For Work In Restricted Working Space, Add</i>	10.46	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.80	

22	Plumbing
22 10	Plumbing Piping
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0462 EA 3/4" Reducing 90 Degree Copper Elbow.....	51.36	28.95
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.73	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.50	
For Work In Restricted Working Space, Add	12.99	
For Silver Solder Instead Of 95/5 Solder, Add	6.90	
22 11 16 00-0463 EA 1" Reducing 90 Degree Copper Elbow.....	66.56	34.54
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.92	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.76	
For Work In Restricted Working Space, Add	15.53	
For Silver Solder Instead Of 95/5 Solder, Add	8.50	
22 11 16 00-0464 EA 1-1/4" Reducing 90 Degree Copper Elbow.....	93.67	37.39
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.48	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.40	
For Work In Restricted Working Space, Add	16.79	
For Silver Solder Instead Of 95/5 Solder, Add	10.28	
22 11 16 00-0465 EA 1-1/2" Reducing 90 Degree Copper Elbow.....	110.80	40.88
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.60	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.19	
For Work In Restricted Working Space, Add	18.38	
For Silver Solder Instead Of 95/5 Solder, Add	11.67	
22 11 16 00-0466 EA 2" Reducing 90 Degree Copper Elbow.....	135.31	45.84
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.20	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.30	
For Work In Restricted Working Space, Add	20.60	
For Silver Solder Instead Of 95/5 Solder, Add	13.63	
22 11 16 00-0467 45 Degree Copper Elbows (22 11 16 00-0436)		
22 11 16 00-0468 EA 1/4" 45 Degree Copper Elbow.....	28.76	14.10
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.49	
For Brazed Fittings Instead Of 95/5 Solder, Add	3.17	
For Street Fitting, Add	3.05	
For Work In Restricted Working Space, Add	6.34	
For Silver Solder Instead Of 95/5 Solder, Add	3.55	
22 11 16 00-0469 EA 3/8" 45 Degree Copper Elbow.....	31.89	16.90
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.86	
For Brazed Fittings Instead Of 95/5 Solder, Add	3.80	
For Street Fitting, Add	2.62	
For Work In Restricted Working Space, Add	7.61	
For Silver Solder Instead Of 95/5 Solder, Add	4.13	
22 11 16 00-0470 EA 1/2" 45 Degree Copper Elbow.....	37.43	23.23
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.61	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.23	
For Street Fitting, Add	1.03	
For Work In Restricted Working Space, Add	10.46	
For Silver Solder Instead Of 95/5 Solder, Add	5.36	
22 11 16 00-0471 EA 3/4" 45 Degree Copper Elbow.....	47.70	28.95
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.55	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.50	
For Street Fitting, Add	1.76	
For Work In Restricted Working Space, Add	12.99	
For Silver Solder Instead Of 95/5 Solder, Add	6.72	
22 11 16 00-0472 EA 1" 45 Degree Copper Elbow.....	62.74	34.54
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.73	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.76	
For Street Fitting, Add	4.39	
For Work In Restricted Working Space, Add	15.53	
For Silver Solder Instead Of 95/5 Solder, Add	8.31	
22 11 16 00-0473 EA 1-1/4" 45 Degree Copper Elbow.....	70.85	37.39
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.34	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.40	
For Street Fitting, Add	5.95	
For Work In Restricted Working Space, Add	16.79	
For Silver Solder Instead Of 95/5 Solder, Add	9.14	
22 11 16 00-0474 EA 1-1/2" 45 Degree Copper Elbow.....	79.53	40.88
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.04	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.19	
For Street Fitting, Add	7.30	
For Work In Restricted Working Space, Add	18.38	
For Silver Solder Instead Of 95/5 Solder, Add	10.10	
22 11 16 00-0475 EA 2" 45 Degree Copper Elbow.....	99.10	45.84
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.39	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.30	
For Work In Restricted Working Space, Add	20.60	
For Silver Solder Instead Of 95/5 Solder, Add	11.82	
22 11 16 00-0476 EA 2-1/2" 45 Degree Copper Elbow.....	133.71	46.69
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.19	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.51	
For Work In Restricted Working Space, Add	21.01	
For Silver Solder Instead Of 95/5 Solder, Add	13.69	
22 11 16 00-0477 EA 3" 45 Degree Copper Elbow.....	178.13	55.84
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.09	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.55	
For Work In Restricted Working Space, Add	25.10	
For Silver Solder Instead Of 95/5 Solder, Add	17.27	



	Plumbing	22
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	Facility Water Distribution	22 11

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0478 EA 4" 45 Degree Copper Elbow.....	320.11	79.19
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-21.94	
For Brazed Fittings Instead Of 95/5 Solder, Add	17.80	
For Work In Restricted Working Space, Add	35.60	
For Silver Solder Instead Of 95/5 Solder, Add	27.87	
22 11 16 00-0479 EA 5" 45 Degree Copper Elbow.....	942.55	108.37
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-55.25	
For Brazed Fittings Instead Of 95/5 Solder, Add	24.37	
For Work In Restricted Working Space, Add	48.74	
For Silver Solder Instead Of 95/5 Solder, Add	63.37	
22 11 16 00-0480 EA 6" 45 Degree Copper Elbow.....	1,465.77	157.69
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-85.11	
For Brazed Fittings Instead Of 95/5 Solder, Add	35.46	
For Work In Restricted Working Space, Add	70.92	
For Silver Solder Instead Of 95/5 Solder, Add	96.93	
22 11 16 00-0481 EA 8" 45 Degree Copper Elbow.....	4,492.56	210.22
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-240.39	
For Brazed Fittings Instead Of 95/5 Solder, Add	47.28	
For Work In Restricted Working Space, Add	94.55	
For Silver Solder Instead Of 95/5 Solder, Add	256.15	
22 11 16 00-0482 Straight Copper And Brass Tees (22 11 16 00-0436)		
22 11 16 00-0483 EA 1/4" Straight Copper Tee	40.26	21.13
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.60	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.75	
For Work In Restricted Working Space, Add	9.51	
For Silver Solder Instead Of 95/5 Solder, Add	5.18	
22 11 16 00-0484 EA 3/8" Straight Copper Tee	44.92	25.35
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.15	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.70	
For Work In Restricted Working Space, Add	11.41	
For Silver Solder Instead Of 95/5 Solder, Add	6.05	
22 11 16 00-0485 EA 1/2" Straight Copper Tee	55.23	35.28
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.40	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.92	
For Work In Restricted Working Space, Add	15.85	
For Silver Solder Instead Of 95/5 Solder, Add	8.04	
22 11 16 00-0486 EA 3/4" Straight Copper Tee	71.25	43.73
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.84	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.82	
For Work In Restricted Working Space, Add	19.65	
For Silver Solder Instead Of 95/5 Solder, Add	10.11	
22 11 16 00-0487 EA 1" Straight Copper Tee	95.50	52.18
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.68	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.73	
For Work In Restricted Working Space, Add	23.45	
For Silver Solder Instead Of 95/5 Solder, Add	12.59	
22 11 16 00-0488 EA 1-1/4" Straight Copper Tee	108.64	56.40
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.66	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.68	
For Work In Restricted Working Space, Add	25.35	
For Silver Solder Instead Of 95/5 Solder, Add	13.88	
22 11 16 00-0489 EA 1-1/2" Straight Copper Tee	128.42	61.27
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.02	
For Brazed Fittings Instead Of 95/5 Solder, Add	13.79	
For Work In Restricted Working Space, Add	27.57	
For Silver Solder Instead Of 95/5 Solder, Add	15.61	
22 11 16 00-0490 EA 2" Straight Copper Tee	161.58	69.08
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.26	
For Brazed Fittings Instead Of 95/5 Solder, Add	15.53	
For Work In Restricted Working Space, Add	31.06	
For Silver Solder Instead Of 95/5 Solder, Add	18.43	
22 11 16 00-0491 EA 2-1/2" Straight Copper Tee	219.93	70.04
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-16.25	
For Brazed Fittings Instead Of 95/5 Solder, Add	15.76	
For Work In Restricted Working Space, Add	31.52	
For Silver Solder Instead Of 95/5 Solder, Add	21.50	
22 11 16 00-0492 EA 3" Straight Copper Tee	301.96	84.34
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-21.42	
For Brazed Fittings Instead Of 95/5 Solder, Add	18.97	
For Work In Restricted Working Space, Add	37.94	
For Silver Solder Instead Of 95/5 Solder, Add	27.74	
22 11 16 00-0493 EA 4" Straight Copper Tee	601.80	118.10
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-38.94	
For Brazed Fittings Instead Of 95/5 Solder, Add	26.56	
For Work In Restricted Working Space, Add	53.12	
For Silver Solder Instead Of 95/5 Solder, Add	47.80	
22 11 16 00-0494 EA 5" Straight Copper Tee	1,630.71	161.58
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-93.65	
For Brazed Fittings Instead Of 95/5 Solder, Add	36.33	
For Work In Restricted Working Space, Add	72.67	
For Silver Solder Instead Of 95/5 Solder, Add	105.76	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0495 EA 6" Straight Copper Tee..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	2,253.11 -130.41 53.26 106.52 148.16	236.87
22 11 16 00-0496 EA 8" Straight Copper Tee..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7,794.39 -413.36 70.92 141.83 437.00	315.38
22 11 16 00-0497 EA 1/2" Cast Bronze Drop Ear Tee..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	67.66 -6.02 7.92 15.85 8.67	35.28
22 11 16 00-0498 Reducing Copper Tees (22 11 16 00-0436)		
22 11 16 00-0499 EA 3/8" Reducing Copper Tee..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	47.43 -4.06 5.07 10.14 5.75	22.50
22 11 16 00-0500 EA 1/2" Reducing Copper Tee..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	59.53 -5.35 7.13 14.26 7.73	31.69
22 11 16 00-0501 EA 3/4" Reducing Copper Tee..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	67.38 -6.43 9.19 18.38 9.50	40.88
22 11 16 00-0502 EA 1" Reducing Copper Tee..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	93.37 -8.37 11.09 22.18 12.06	49.33
22 11 16 00-0503 EA 1-1/4" Reducing Copper Tee..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	109.76 -9.50 12.04 24.08 13.52	53.55
22 11 16 00-0504 EA 1-1/2" Reducing Copper Tee..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	129.33 -10.85 13.15 26.30 15.23	58.52
22 11 16 00-0505 EA 2" Reducing Copper Tee..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	158.48 -12.84 14.74 29.47 17.75	65.49
22 11 16 00-0506 EA 2-1/2" Reducing Copper Tee..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	227.01 -16.41 15.18 30.35 21.47	67.51
22 11 16 00-0507 EA 3" Reducing Copper Tee..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	323.39 -22.01 17.51 35.02 27.84	77.82
22 11 16 00-0508 EA 4" Reducing Copper Tee..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	579.01 -36.15 21.60 43.19 43.35	96.01
22 11 16 00-0509 Copper Couplings (22 11 16 00-0436)		
22 11 16 00-0510 EA 1/4" Copper Coupling..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	21.95 -2.15 3.17 6.34 3.21	14.10
22 11 16 00-0511 EA 3/8" Copper Coupling..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	26.44 -2.59 3.80 7.61 3.86	16.90
22 11 16 00-0512 EA 1/2" Copper Coupling..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	35.76 -3.53 5.23 10.46 5.27	23.23



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0513 EA 3/4" Copper Coupling.....	45.13	28.95
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.42	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.50	
For Work In Restricted Working Space, Add	12.99	
For Silver Solder Instead Of 95/5 Solder, Add	6.59	
22 11 16 00-0514 EA 1" Copper Coupling.....	55.38	34.54
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.36	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.76	
For Work In Restricted Working Space, Add	15.53	
For Silver Solder Instead Of 95/5 Solder, Add	7.95	
22 11 16 00-0515 EA 1-1/4" Copper Coupling.....	62.37	37.39
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.92	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.40	
For Work In Restricted Working Space, Add	16.79	
For Silver Solder Instead Of 95/5 Solder, Add	8.72	
22 11 16 00-0516 EA 1-1/2" Copper Coupling.....	69.72	40.88
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.55	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.19	
For Work In Restricted Working Space, Add	18.38	
For Silver Solder Instead Of 95/5 Solder, Add	9.61	
22 11 16 00-0517 EA 2" Copper Coupling.....	82.71	45.42
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.57	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.30	
For Work In Restricted Working Space, Add	20.60	
For Silver Solder Instead Of 95/5 Solder, Add	11.00	
22 11 16 00-0518 EA 2-1/2" Copper Coupling.....	95.04	44.16
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.06	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.92	
For Work In Restricted Working Space, Add	19.85	
For Silver Solder Instead Of 95/5 Solder, Add	11.37	
22 11 16 00-0519 EA 3" Copper Coupling.....	119.10	53.50
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.94	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.97	
For Work In Restricted Working Space, Add	23.93	
For Silver Solder Instead Of 95/5 Solder, Add	13.93	
22 11 16 00-0520 EA 4" Copper Coupling.....	193.65	71.99
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-15.03	
For Brazed Fittings Instead Of 95/5 Solder, Add	16.05	
For Work In Restricted Working Space, Add	32.10	
For Silver Solder Instead Of 95/5 Solder, Add	20.38	
22 11 16 00-0521 EA 5" Copper Coupling.....	326.48	131.32
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-23.62	
For Brazed Fittings Instead Of 95/5 Solder, Add	21.89	
For Work In Restricted Working Space, Add	43.78	
For Silver Solder Instead Of 95/5 Solder, Add	30.92	
22 11 16 00-0522 EA 6" Copper Coupling.....	512.41	142.70
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-36.32	
For Brazed Fittings Instead Of 95/5 Solder, Add	32.10	
For Work In Restricted Working Space, Add	64.21	
For Silver Solder Instead Of 95/5 Solder, Add	47.02	
22 11 16 00-0523 EA 8" Copper Coupling.....	1,251.29	189.21
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-76.77	
For Brazed Fittings Instead Of 95/5 Solder, Add	42.61	
For Work In Restricted Working Space, Add	85.22	
For Silver Solder Instead Of 95/5 Solder, Add	90.97	
22 11 16 00-0524 Reducing Copper Couplings (22 11 16 00-0436)		
22 11 16 00-0525 EA 3/8" Reducing Copper Coupling.....	22.92	14.05
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.20	
For Brazed Fittings Instead Of 95/5 Solder, Add	3.17	
For Work In Restricted Working Space, Add	6.34	
For Silver Solder Instead Of 95/5 Solder, Add	3.26	
22 11 16 00-0526 EA 1/2" Reducing Copper Coupling.....	31.98	20.07
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.10	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.52	
For Work In Restricted Working Space, Add	9.03	
For Silver Solder Instead Of 95/5 Solder, Add	4.61	
22 11 16 00-0527 EA 3/4" Reducing Copper Coupling.....	42.31	26.09
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.07	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.86	
For Work In Restricted Working Space, Add	11.72	
For Silver Solder Instead Of 95/5 Solder, Add	6.02	
22 11 16 00-0528 EA 1" Reducing Copper Coupling.....	53.38	31.69
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.05	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.13	
For Work In Restricted Working Space, Add	14.26	
For Silver Solder Instead Of 95/5 Solder, Add	7.42	
22 11 16 00-0529 EA 1-1/4" Reducing Copper Coupling.....	62.01	35.91
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.79	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.08	
For Work In Restricted Working Space, Add	16.16	
For Silver Solder Instead Of 95/5 Solder, Add	8.49	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0530	EA		1-1/2" Reducing Copper Coupling.....	72.09	39.08
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.54	
			For Brazed Fittings Instead Of 95/5 Solder, Add	8.79	
			For Work In Restricted Working Space, Add	17.59	
			For Silver Solder Instead Of 95/5 Solder, Add	9.47	
22 11 16 00-0531	EA		2" Reducing Copper Coupling.....	85.79	43.30
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.54	
			For Brazed Fittings Instead Of 95/5 Solder, Add	9.74	
			For Work In Restricted Working Space, Add	19.49	
			For Silver Solder Instead Of 95/5 Solder, Add	10.79	
22 11 16 00-0532	EA		2-1/2" Reducing Copper Coupling.....	109.50	44.46
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.81	
			For Brazed Fittings Instead Of 95/5 Solder, Add	9.99	
			For Work In Restricted Working Space, Add	19.99	
			For Silver Solder Instead Of 95/5 Solder, Add	12.14	
22 11 16 00-0533	EA		3" Reducing Copper Coupling.....	129.85	51.55
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.34	
			For Brazed Fittings Instead Of 95/5 Solder, Add	11.53	
			For Work In Restricted Working Space, Add	23.06	
			For Silver Solder Instead Of 95/5 Solder, Add	14.18	
22 11 16 00-0534	EA		4" Reducing Copper Coupling.....	206.38	67.51
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-15.38	
			For Brazed Fittings Instead Of 95/5 Solder, Add	15.18	
			For Work In Restricted Working Space, Add	30.35	
			For Silver Solder Instead Of 95/5 Solder, Add	20.44	
22 11 16 00-0535	EA		5" Reducing Copper Coupling.....	552.48	94.06
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-34.68	
			For Brazed Fittings Instead Of 95/5 Solder, Add	21.16	
			For Work In Restricted Working Space, Add	42.32	
			For Silver Solder Instead Of 95/5 Solder, Add	41.73	
22 11 16 00-0536	EA		6" Reducing Copper Coupling.....	826.81	126.46
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-50.83	
			For Brazed Fittings Instead Of 95/5 Solder, Add	28.45	
			For Work In Restricted Working Space, Add	56.91	
			For Silver Solder Instead Of 95/5 Solder, Add	60.31	
22 11 16 00-0537	EA		8" Reducing Copper Coupling.....	1,626.91	184.28
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-95.16	
			For Brazed Fittings Instead Of 95/5 Solder, Add	41.44	
			For Work In Restricted Working Space, Add	82.88	
			For Silver Solder Instead Of 95/5 Solder, Add	108.97	
22 11 16 00-0538			Male Copper Adapters <small>(22 11 16 00-0436)</small>		
22 11 16 00-0539	EA		1/4" Male Copper Adapter.....	35.58	13.73
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.84	
			For Brazed Fittings Instead Of 95/5 Solder, Add	3.17	
			For Work In Restricted Working Space, Add	6.34	
			For Silver Solder Instead Of 95/5 Solder, Add	3.89	
22 11 16 00-0540	EA		3/8" Male Copper Adapter.....	32.55	16.90
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.90	
			For Brazed Fittings Instead Of 95/5 Solder, Add	3.80	
			For Work In Restricted Working Space, Add	7.61	
			For Silver Solder Instead Of 95/5 Solder, Add	4.16	
22 11 16 00-0541	EA		1/2" Male Copper Adapter.....	34.61	21.13
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.32	
			For Brazed Fittings Instead Of 95/5 Solder, Add	4.75	
			For Work In Restricted Working Space, Add	9.51	
			For Silver Solder Instead Of 95/5 Solder, Add	4.90	
22 11 16 00-0542	EA		3/4" Male Copper Adapter.....	44.03	26.41
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.16	
			For Brazed Fittings Instead Of 95/5 Solder, Add	5.86	
			For Work In Restricted Working Space, Add	11.72	
			For Silver Solder Instead Of 95/5 Solder, Add	6.11	
22 11 16 00-0543	EA		1" Male Copper Adapter.....	58.00	30.63
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.17	
			For Brazed Fittings Instead Of 95/5 Solder, Add	6.81	
			For Work In Restricted Working Space, Add	13.63	
			For Silver Solder Instead Of 95/5 Solder, Add	7.44	
22 11 16 00-0544	EA		1-1/4" Male Copper Adapter.....	71.12	34.86
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.20	
			For Brazed Fittings Instead Of 95/5 Solder, Add	7.92	
			For Work In Restricted Working Space, Add	15.85	
			For Silver Solder Instead Of 95/5 Solder, Add	8.84	
22 11 16 00-0545	EA		1-1/2" Male Copper Adapter.....	81.63	40.14
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.09	
			For Brazed Fittings Instead Of 95/5 Solder, Add	9.03	
			For Work In Restricted Working Space, Add	18.06	
			For Silver Solder Instead Of 95/5 Solder, Add	10.10	
22 11 16 00-0546	EA		2" Male Copper Adapter.....	113.36	51.23
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.52	
			For Brazed Fittings Instead Of 95/5 Solder, Add	11.57	
			For Work In Restricted Working Space, Add	23.13	
			For Silver Solder Instead Of 95/5 Solder, Add	13.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0547 EA 2-1/2" Male Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	214.59 -15.69 14.89 29.79 20.66	66.55
22 11 16 00-0548 EA 3" Male Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	284.94 -20.86 19.85 39.69 27.48	88.76
22 11 16 00-0549 EA 4" Male Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	430.89 -30.88 28.02 56.03 40.22	124.52
22 11 16 00-0550 Female Copper Adapters (22 11 16 00-0436)		
22 11 16 00-0551 EA 1/4" Female Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	30.36 -2.57 3.17 6.34 3.63	13.73
22 11 16 00-0552 EA 3/8" Female Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	35.01 -3.02 3.80 7.61 4.29	16.90
22 11 16 00-0553 EA 1/2" Female Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	36.36 -3.40 4.75 9.51 4.99	21.13
22 11 16 00-0554 EA 3/4" Female Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	45.47 -4.23 5.86 11.72 6.18	26.41
22 11 16 00-0555 EA 1" Female Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	60.02 -5.27 6.81 13.63 7.54	30.63
22 11 16 00-0556 EA 1-1/4" Female Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	74.24 -6.35 7.92 15.85 8.99	34.86
22 11 16 00-0557 EA 1-1/2" Female Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	93.74 -7.70 9.03 18.06 10.71	40.14
22 11 16 00-0558 EA 2" Female Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	122.59 -9.99 11.57 23.13 13.84	51.23
22 11 16 00-0559 EA 2-1/2" Female Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	254.13 -17.28 13.72 27.43 21.85	61.28
22 11 16 00-0560 EA 3" Female Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	406.35 -26.93 19.85 39.69 33.55	88.76
22 11 16 00-0561 Wrot Copper, Solder Union (22 11 16 00-0436)		
22 11 16 00-0562 EA 1/4" Wrot Copper, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	48.60 -3.70 3.80 7.61 4.97	16.90
22 11 16 00-0563 EA 3/8" Wrot Copper, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	54.59 -4.26 4.59 9.19 5.79	20.38
22 11 16 00-0564 EA 1/2" Wrot Copper, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	52.84 -4.54 5.70 11.41 6.45	25.35

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0565 EA 3/4" Wrot Copper, Solder Union.....	61.51	28.95
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.24	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.50	
For Work In Restricted Working Space, Add	12.99	
For Silver Solder Instead Of 95/5 Solder, Add	7.41	
22 11 16 00-0566 EA 1" Wrot Copper, Solder Union.....	83.06	34.54
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.74	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.76	
For Work In Restricted Working Space, Add	15.53	
For Silver Solder Instead Of 95/5 Solder, Add	9.33	
22 11 16 00-0567 EA 1-1/4" Wrot Copper, Solder Union.....	102.36	38.03
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.97	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.56	
For Work In Restricted Working Space, Add	17.11	
For Silver Solder Instead Of 95/5 Solder, Add	10.82	
22 11 16 00-0568 EA 1-1/2" Wrot Copper, Solder Union.....	127.28	42.25
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.53	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.51	
For Work In Restricted Working Space, Add	19.01	
For Silver Solder Instead Of 95/5 Solder, Add	12.70	
22 11 16 00-0569 EA 2" Wrot Copper, Solder Union.....	184.98	50.70
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.05	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.41	
For Work In Restricted Working Space, Add	22.82	
For Silver Solder Instead Of 95/5 Solder, Add	16.85	
22 11 16 00-0570 EA 2-1/2" Wrot Copper, Solder Union.....	380.72	55.84
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-23.22	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.55	
For Work In Restricted Working Space, Add	25.10	
For Silver Solder Instead Of 95/5 Solder, Add	27.40	
22 11 16 00-0571 EA 3" Wrot Copper, Solder Union.....	887.39	79.19
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-50.30	
For Brazed Fittings Instead Of 95/5 Solder, Add	17.80	
For Work In Restricted Working Space, Add	35.60	
For Silver Solder Instead Of 95/5 Solder, Add	56.24	
22 11 16 00-0572 Cast Bronze, Solder Union (22 11 16 00-0436)		
22 11 16 00-0573 EA 1/4" Cast Bronze, Solder Union.....	57.18	16.90
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.13	
For Brazed Fittings Instead Of 95/5 Solder, Add	3.80	
For Work In Restricted Working Space, Add	7.61	
For Silver Solder Instead Of 95/5 Solder, Add	5.39	
22 11 16 00-0574 EA 3/8" Cast Bronze, Solder Union.....	62.68	20.38
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.67	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.59	
For Work In Restricted Working Space, Add	9.19	
For Silver Solder Instead Of 95/5 Solder, Add	6.20	
22 11 16 00-0575 EA 1/2" Cast Bronze, Solder Union.....	55.09	25.35
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.66	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.70	
For Work In Restricted Working Space, Add	11.41	
For Silver Solder Instead Of 95/5 Solder, Add	6.56	
22 11 16 00-0576 EA 3/4" Cast Bronze, Solder Union.....	64.70	28.95
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.40	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.50	
For Work In Restricted Working Space, Add	12.99	
For Silver Solder Instead Of 95/5 Solder, Add	7.57	
22 11 16 00-0577 EA 1" Cast Bronze, Solder Union.....	88.59	34.54
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.02	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.76	
For Work In Restricted Working Space, Add	15.53	
For Silver Solder Instead Of 95/5 Solder, Add	9.61	
22 11 16 00-0578 EA 1-1/4" Cast Bronze, Solder Union.....	117.47	38.03
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.73	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.56	
For Work In Restricted Working Space, Add	17.11	
For Silver Solder Instead Of 95/5 Solder, Add	11.58	
22 11 16 00-0579 EA 1-1/2" Cast Bronze, Solder Union.....	143.04	42.25
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.32	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.51	
For Work In Restricted Working Space, Add	19.01	
For Silver Solder Instead Of 95/5 Solder, Add	13.49	
22 11 16 00-0580 EA 2" Cast Bronze, Solder Union.....	211.82	50.70
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-14.39	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.41	
For Work In Restricted Working Space, Add	22.82	
For Silver Solder Instead Of 95/5 Solder, Add	18.20	
22 11 16 00-0581 EA 2-1/2" Cast Bronze, Solder Union.....	380.70	55.84
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-23.22	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.55	
For Work In Restricted Working Space, Add	25.10	
For Silver Solder Instead Of 95/5 Solder, Add	27.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0582 EA 3" Cast Bronze, Solder Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	887.39 -50.30 17.80 35.60 56.24	79.19
22 11 16 00-0583 Cast Bronze, Solder X Female Threaded Union (22 11 16 00-0436)		
22 11 16 00-0584 EA 1/4" Cast Bronze, Solder X Female Threaded Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	68.76 -4.71 3.80 7.61 5.97	16.90
22 11 16 00-0585 EA 3/8" Cast Bronze, Solder X Female Threaded Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	75.55 -5.31 4.59 9.19 6.84	20.38
22 11 16 00-0586 EA 1/2" Cast Bronze, Solder X Female Threaded Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	73.71 -5.59 5.70 11.41 7.49	25.35
22 11 16 00-0587 EA 3/4" Cast Bronze, Solder X Female Threaded Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	91.93 -6.76 6.50 12.99 8.93	28.95
22 11 16 00-0588 EA 1" Cast Bronze, Solder X Female Threaded Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	152.91 -10.23 7.76 15.53 12.82	34.54
22 11 16 00-0589 EA 1-1/4" Cast Bronze, Solder X Female Threaded Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	245.55 -15.13 8.56 17.11 17.98	38.03
22 11 16 00-0590 EA 1-1/2" Cast Bronze, Solder X Female Threaded Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	302.20 -18.28 9.51 19.01 21.45	42.25
22 11 16 00-0591 EA 2" Cast Bronze, Solder X Female Threaded Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	480.30 -27.82 11.41 22.82 31.62	50.70
22 11 16 00-0592 EA 2-1/2" Cast Bronze, Solder X Female Threaded Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	849.98 -46.68 12.55 25.10 50.87	55.84
22 11 16 00-0593 Cast Bronze, Solder X Male Threaded Union (22 11 16 00-0436)		
22 11 16 00-0594 EA 1/4" Cast Bronze, Solder X Male Threaded Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	58.42 -4.19 3.80 7.61 5.46	16.90
22 11 16 00-0595 EA 3/8" Cast Bronze, Solder X Male Threaded Union <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	69.22 -4.99 4.59 9.19 6.52	20.38
22 11 16 00-0596 EA 1/2" Cast Bronze, Solder X Male Threaded Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	66.19 -5.21 5.70 11.41 7.11	25.35
22 11 16 00-0597 EA 3/4" Cast Bronze, Solder X Male Threaded Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	85.56 -6.44 6.50 12.99 8.61	28.95
22 11 16 00-0598 EA 1" Cast Bronze, Solder X Male Threaded Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	155.83 -10.38 7.76 15.53 12.97	34.54
22 11 16 00-0599 EA 1-1/4" Cast Bronze, Solder X Male Threaded Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	186.13 -12.16 8.56 17.11 15.01	38.03

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0600	EA	1-1/2"	Cast Bronze, Solder X Male Threaded Union.....	198.97	42.25
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-13.12	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.51	
			<i>For Work In Restricted Working Space, Add</i>	19.01	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	16.29	
22 11 16 00-0601	EA	2"	Cast Bronze, Solder X Male Threaded Union.....	284.32	50.70
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-18.02	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.41	
			<i>For Work In Restricted Working Space, Add</i>	22.82	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	21.82	
22 11 16 00-0602	EA	2-1/2"	Cast Bronze, Solder X Male Threaded Union.....	694.01	55.84
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-38.88	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.55	
			<i>For Work In Restricted Working Space, Add</i>	25.10	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	43.07	
22 11 16 00-0603			Copper Caps (22 11 16 00-0436)		
22 11 16 00-0604	EA	1/4"	Copper Cap.....	8.22	4.64
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-0.76	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	1.05	
			<i>For Work In Restricted Working Space, Add</i>	2.09	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	1.11	
22 11 16 00-0605	EA	3/8"	Copper Cap.....	10.35	5.49
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-0.94	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	1.25	
			<i>For Work In Restricted Working Space, Add</i>	2.51	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	1.35	
22 11 16 00-0606	EA	1/2"	Copper Cap.....	12.52	7.61
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-1.20	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	1.73	
			<i>For Work In Restricted Working Space, Add</i>	3.45	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	1.78	
22 11 16 00-0607	EA	3/4"	Copper Cap.....	16.20	9.40
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-1.52	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	2.14	
			<i>For Work In Restricted Working Space, Add</i>	4.29	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	2.24	
22 11 16 00-0608	EA	1"	Copper Cap.....	21.56	11.30
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-1.93	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	2.56	
			<i>For Work In Restricted Working Space, Add</i>	5.12	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	2.79	
22 11 16 00-0609	EA	1-1/4"	Copper Cap.....	24.48	12.15
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.15	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	2.77	
			<i>For Work In Restricted Working Space, Add</i>	5.54	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.07	
22 11 16 00-0610	EA	1-1/2"	Copper Cap.....	28.94	13.31
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.46	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	3.03	
			<i>For Work In Restricted Working Space, Add</i>	6.07	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.47	
22 11 16 00-0611	EA	2"	Copper Cap.....	36.99	13.81
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.89	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	3.13	
			<i>For Work In Restricted Working Space, Add</i>	6.26	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.94	
22 11 16 00-0612	EA	2-1/2"	Copper Cap.....	72.80	16.15
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.87	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	3.68	
			<i>For Work In Restricted Working Space, Add</i>	7.36	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.09	
22 11 16 00-0613	EA	3"	Copper Cap.....	100.53	20.72
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.60	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.71	
			<i>For Work In Restricted Working Space, Add</i>	9.41	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.16	
22 11 16 00-0614	EA	4"	Copper Cap.....	177.99	31.32
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-11.27	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.12	
			<i>For Work In Restricted Working Space, Add</i>	14.24	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	13.65	
22 11 16 00-0615	EA	5"	Cast Bronze Cap.....	990.59	48.25
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-53.19	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.97	
			<i>For Work In Restricted Working Space, Add</i>	21.93	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	56.84	
22 11 16 00-0616	EA	6"	Cast Bronze Cap.....	1,934.32	70.23
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-102.03	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	15.96	
			<i>For Work In Restricted Working Space, Add</i>	31.91	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	107.35	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0617 EA 8" Cast Bronze Cap	2,461.78	93.58
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-130.18	
For Brazed Fittings Instead Of 95/5 Solder, Add	21.27	
For Work In Restricted Working Space, Add	42.55	
For Silver Solder Instead Of 95/5 Solder, Add	137.27	
22 11 16 00-0618 Copper Crosses (22 11 16 00-0436)		
22 11 16 00-0619 EA 1/2" Copper Cross.....	80.27	42.80
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.22	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.63	
For Work In Restricted Working Space, Add	19.26	
For Silver Solder Instead Of 95/5 Solder, Add	10.43	
22 11 16 00-0620 EA 3/4" Copper Cross.....	110.99	53.21
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.54	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.97	
For Work In Restricted Working Space, Add	23.93	
For Silver Solder Instead Of 95/5 Solder, Add	13.53	
22 11 16 00-0621 EA 1" Copper Cross.....	148.36	63.52
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.18	
For Brazed Fittings Instead Of 95/5 Solder, Add	14.30	
For Work In Restricted Working Space, Add	28.60	
For Silver Solder Instead Of 95/5 Solder, Add	16.95	
22 11 16 00-0622 EA 1-1/4" Copper Cross	179.34	68.77
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-14.12	
For Brazed Fittings Instead Of 95/5 Solder, Add	15.47	
For Work In Restricted Working Space, Add	30.94	
For Silver Solder Instead Of 95/5 Solder, Add	19.28	
22 11 16 00-0623 EA 1-1/2" Copper Cross	221.49	75.19
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-16.72	
For Brazed Fittings Instead Of 95/5 Solder, Add	16.93	
For Work In Restricted Working Space, Add	33.86	
For Silver Solder Instead Of 95/5 Solder, Add	22.36	
22 11 16 00-0624 EA 2" Copper Cross.....	331.71	84.34
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-22.91	
For Brazed Fittings Instead Of 95/5 Solder, Add	18.97	
For Work In Restricted Working Space, Add	37.94	
For Silver Solder Instead Of 95/5 Solder, Add	29.23	
22 11 16 00-0625 EA 2-1/2" Copper Cross	613.19	93.39
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-37.66	
For Brazed Fittings Instead Of 95/5 Solder, Add	21.01	
For Work In Restricted Working Space, Add	42.02	
For Silver Solder Instead Of 95/5 Solder, Add	44.67	
22 11 16 00-0626 Cast Bronze Crosses (22 11 16 00-0436)		
22 11 16 00-0627 EA 3/8" Cast Bronze Cross.....	68.11	31.13
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.74	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.00	
For Work In Restricted Working Space, Add	14.01	
For Silver Solder Instead Of 95/5 Solder, Add	8.07	
22 11 16 00-0628 EA 1/2" Cast Bronze Cross.....	83.48	42.80
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.38	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.63	
For Work In Restricted Working Space, Add	19.26	
For Silver Solder Instead Of 95/5 Solder, Add	10.60	
22 11 16 00-0629 EA 3/4" Cast Bronze Cross.....	117.23	53.21
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.85	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.97	
For Work In Restricted Working Space, Add	23.93	
For Silver Solder Instead Of 95/5 Solder, Add	13.84	
22 11 16 00-0630 EA 1" Cast Bronze Cross.....	158.96	63.52
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.71	
For Brazed Fittings Instead Of 95/5 Solder, Add	14.30	
For Work In Restricted Working Space, Add	28.60	
For Silver Solder Instead Of 95/5 Solder, Add	17.48	
22 11 16 00-0631 EA 1-1/4" Cast Bronze Cross	194.59	68.77
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-14.89	
For Brazed Fittings Instead Of 95/5 Solder, Add	15.47	
For Work In Restricted Working Space, Add	30.94	
For Silver Solder Instead Of 95/5 Solder, Add	20.04	
22 11 16 00-0632 EA 1-1/2" Cast Bronze Cross	243.22	75.19
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-17.80	
For Brazed Fittings Instead Of 95/5 Solder, Add	16.93	
For Work In Restricted Working Space, Add	33.86	
For Silver Solder Instead Of 95/5 Solder, Add	23.45	
22 11 16 00-0633 EA 2" Cast Bronze Cross.....	372.75	84.34
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-24.96	
For Brazed Fittings Instead Of 95/5 Solder, Add	18.97	
For Work In Restricted Working Space, Add	37.94	
For Silver Solder Instead Of 95/5 Solder, Add	31.28	
22 11 16 00-0634 EA 2-1/2" Cast Bronze Cross	707.81	93.39
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-42.39	
For Brazed Fittings Instead Of 95/5 Solder, Add	21.01	
For Work In Restricted Working Space, Add	42.02	
For Silver Solder Instead Of 95/5 Solder, Add	49.40	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 11 16 00-0635	Flexible Corrugated Copper Supply Line (22 11 16 00-0436)		
22 11 16 00-0636	EA 3/4" Threaded x 3/4" Solder x 18" Long, Flexible Corrugated Copper Supply Line.....	98.43	28.95
22 11 16 00-0637	EA 3/4" Threaded x 3/4" Solder x 24" Long, Flexible Corrugated Copper Supply Line.....	105.06	28.95
22 11 16 00-0638	EA 3/4" Threaded x 3/4" Threaded x 12" Long, Flexible Corrugated Copper Supply Line.....	86.49	28.95
22 11 16 00-0639	EA 3/4" Threaded x 3/4" Threaded x 15" Long, Flexible Corrugated Copper Supply Line.....	94.01	28.95
22 11 16 00-0640	EA 3/4" Threaded x 3/4" Threaded x 18" Long, Flexible Corrugated Copper Supply Line.....	100.64	28.95
22 11 16 00-0641	EA 3/4" Threaded x 3/4" Threaded x 24" Long, Flexible Corrugated Copper Supply Line.....	105.06	28.95
22 11 16 00-0642	Crimped Copper Fittings (22 11 16 00-0366)		
	Note: Viega ProPress type. Includes factory installed ethylene propylene diene monomer (EPDM) sealing elements.		
22 11 16 00-0643	Crimped Copper 90 Degree Elbows (22 11 16 00-0642)		
22 11 16 00-0644	EA 1/2" Crimped Copper 90 Degree Elbow	21.37	12.68
22 11 16 00-0645	EA 3/4" Crimped Copper 90 Degree Elbow	25.65	14.47
22 11 16 00-0646	EA 1" Crimped Copper 90 Degree Elbow	33.89	17.22
22 11 16 00-0647	EA 1-1/4" Crimped Copper 90 Degree Elbow	44.70	19.01
22 11 16 00-0648	EA 1-1/2" Crimped Copper 90 Degree Elbow	62.32	21.13
22 11 16 00-0649	EA 2" Crimped Copper 90 Degree Elbow	80.60	25.35
22 11 16 00-0650	EA 2-1/2" Crimped Copper 90 Degree Elbow	168.01	29.57
22 11 16 00-0651	EA 3" Crimped Copper 90 Degree Elbow	208.39	35.17
22 11 16 00-0652	EA 4" Crimped Copper 90 Degree Elbow	262.18	46.48
22 11 16 00-0653	Crimped Copper 45 Degree Elbows (22 11 16 00-0642)		
22 11 16 00-0654	EA 1/2" Crimped Copper 45 Degree Elbow	21.76	12.68
22 11 16 00-0655	EA 3/4" Crimped Copper 45 Degree Elbow	25.02	14.47
22 11 16 00-0656	EA 1" Crimped Copper 45 Degree Elbow	36.72	17.22
22 11 16 00-0657	EA 1-1/4" Crimped Copper 45 Degree Elbow	44.07	19.01
22 11 16 00-0658	EA 1-1/2" Crimped Copper 45 Degree Elbow	56.90	21.13
22 11 16 00-0659	EA 2" Crimped Copper 45 Degree Elbow	73.30	25.35
22 11 16 00-0660	EA 2-1/2" Crimped Copper 45 Degree Elbow	126.04	29.57
22 11 16 00-0661	EA 3" Crimped Copper 45 Degree Elbow	169.52	35.17
22 11 16 00-0662	EA 4" Crimped Copper 45 Degree Elbow	231.78	46.48
22 11 16 00-0663	Crimped Copper Straight Tees (22 11 16 00-0642)		
22 11 16 00-0664	EA 1/2" Crimped Copper Straight Tee	32.13	19.01
22 11 16 00-0665	EA 3/4" Crimped Copper Straight Tee	43.86	25.04
22 11 16 00-0666	EA 1" Crimped Copper Straight Tee	53.19	27.78
22 11 16 00-0667	EA 1-1/4" Crimped Copper Straight Tee	62.18	28.52
22 11 16 00-0668	EA 1-1/2" Crimped Copper Straight Tee	86.28	32.42
22 11 16 00-0669	EA 2" Crimped Copper Straight Tee	103.61	38.03
22 11 16 00-0670	EA 2-1/2" Crimped Copper Straight Tee	219.32	44.36
22 11 16 00-0671	EA 3" Crimped Copper Straight Tee	270.18	52.82
22 11 16 00-0672	EA 4" Crimped Copper Straight Tee	372.52	69.71
22 11 16 00-0673	Crimped Copper Reducing Tees (22 11 16 00-0642)		
22 11 16 00-0674	EA 3/4" Crimped Copper Reducing Tee	36.96	18.07
22 11 16 00-0675	EA 1" Crimped Copper Reducing Tee	53.04	23.77
22 11 16 00-0676	EA 1-1/4" Crimped Copper Reducing Tee	57.36	26.41
22 11 16 00-0677	EA 1-1/2" Crimped Copper Reducing Tee	74.12	27.14
22 11 16 00-0678	EA 2" Crimped Copper Reducing Tee	88.49	30.74
22 11 16 00-0679	EA 2-1/2" Crimped Copper Reducing Tee	232.28	34.86
22 11 16 00-0680	EA 3" Crimped Copper Reducing Tee	283.07	42.25
22 11 16 00-0681	EA 4" Crimped Copper Reducing Tee	334.45	56.30
22 11 16 00-0682	Crimped Copper Couplings (22 11 16 00-0642)		
22 11 16 00-0683	EA 1/2" Crimped Copper Coupling	21.13	12.68
22 11 16 00-0684	EA 3/4" Crimped Copper Coupling	24.87	14.47
22 11 16 00-0685	EA 1" Crimped Copper Coupling	32.39	17.22
22 11 16 00-0686	EA 1-1/4" Crimped Copper Coupling	36.61	19.01
22 11 16 00-0687	EA 1-1/2" Crimped Copper Coupling	46.77	21.13
22 11 16 00-0688	EA 2" Crimped Copper Coupling	57.27	25.35
22 11 16 00-0689	EA 2-1/2" Crimped Copper Coupling	105.94	29.57
22 11 16 00-0690	EA 3" Crimped Copper Coupling	131.25	35.17
22 11 16 00-0691	EA 4" Crimped Copper Coupling	178.61	46.48
22 11 16 00-0692	Crimped Copper Reducing Couplings (22 11 16 00-0642)		
22 11 16 00-0693	EA 3/4" Crimped Copper Reducing Coupling	27.73	12.04
22 11 16 00-0694	EA 1" Crimped Copper Reducing Coupling	31.67	13.73
22 11 16 00-0695	EA 1-1/4" Crimped Copper Reducing Coupling	40.71	16.37
22 11 16 00-0696	EA 1-1/2" Crimped Copper Reducing Coupling	50.86	18.07
22 11 16 00-0697	EA 2" Crimped Copper Reducing Coupling	56.81	20.07



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0698	EA		2-1/2" Crimped Copper FTG x C Reducing Coupling.....	108.66	23.98
22 11 16 00-0699	EA		3" Crimped Copper FTG x C Reducing Coupling.....	135.04	28.20
22 11 16 00-0700	EA		4" Crimped Copper FTG x C Reducing Coupling.....	175.70	37.29
22 11 16 00-0701			Crimped Copper Male Adapters (22 11 16 00-0642)		
22 11 16 00-0702	EA		1/2" Crimped Copper Male Adapter.....	21.61	12.68
22 11 16 00-0703	EA		3/4" Crimped Copper Male Adapter.....	26.36	14.47
22 11 16 00-0704	EA		1" Crimped Copper Male Adapter.....	34.52	17.22
22 11 16 00-0705	EA		1-1/4" Crimped Copper Male Adapter.....	47.45	19.01
22 11 16 00-0706	EA		1-1/2" Crimped Copper Male Adapter.....	58.24	21.13
22 11 16 00-0707	EA		2" Crimped Copper Male Adapter.....	89.15	25.35
22 11 16 00-0708	EA		2-1/2" Crimped Copper Male Adapter.....	168.01	29.57
22 11 16 00-0709	EA		3" Crimped Copper Male Adapter.....	208.39	35.17
22 11 16 00-0710	EA		4" Crimped Copper Male Adapter.....	249.78	46.48
22 11 16 00-0711			Crimped Copper Female Adapters (22 11 16 00-0642)		
22 11 16 00-0712	EA		1/2" Crimped Copper Female Adapter.....	22.15	12.68
22 11 16 00-0713	EA		3/4" Crimped Copper Female Adapter.....	26.76	14.47
22 11 16 00-0714	EA		1" Crimped Copper Female Adapter.....	35.31	17.22
22 11 16 00-0715	EA		1-1/4" Crimped Copper Female Adapter.....	49.80	19.01
22 11 16 00-0716	EA		1-1/2" Crimped Copper Female Adapter.....	62.64	21.13
22 11 16 00-0717	EA		2" Crimped Copper Female Adapter.....	90.57	25.35
22 11 16 00-0718			Crimped Copper Caps (22 11 16 00-0642)		
22 11 16 00-0719	EA		1/2" Crimped Copper Cap.....	14.06	6.34
22 11 16 00-0720	EA		3/4" Crimped Copper Cap.....	18.78	7.40
22 11 16 00-0721	EA		1" Crimped Copper Cap.....	24.54	8.45
22 11 16 00-0722	EA		1-1/4" Crimped Copper Cap.....	27.69	9.51
22 11 16 00-0723	EA		1-1/2" Crimped Copper Cap.....	37.18	10.88
22 11 16 00-0724	EA		2" Crimped Copper Cap.....	44.30	12.68
22 11 16 00-0725	EA		2-1/2" Crimped Copper Cap.....	103.04	14.79
22 11 16 00-0726	EA		3" Crimped Copper Cap.....	128.73	17.64
22 11 16 00-0727	EA		4" Crimped Copper Cap.....	171.21	23.23
22 11 16 00-0728			C x F NPT Crimped Bronze Unions (22 11 16 00-0642)		
22 11 16 00-0729	EA		1/2" C x F NPT Crimped Bronze Union.....	39.24	17.22
22 11 16 00-0730	EA		3/4" C x F NPT Crimped Bronze Union.....	48.92	21.23
22 11 16 00-0731	EA		1" C x F NPT Crimped Bronze Union.....	66.57	25.46
22 11 16 00-0732	EA		1-1/4" C x F NPT Crimped Bronze Union.....	80.12	29.36
22 11 16 00-0733	EA		1-1/2" C x F NPT Crimped Bronze Union.....	99.64	28.74
22 11 16 00-0734	EA		2" C x F NPT Crimped Bronze Union.....	137.24	41.62
22 11 16 00-0735			C x C Crimped Bronze Unions (22 11 16 00-0642)		
22 11 16 00-0736	EA		1/2" C x C Bronze Crimped Union.....	35.66	12.68
22 11 16 00-0737	EA		3/4" C x C Bronze Crimped Union.....	43.48	14.47
22 11 16 00-0738	EA		1" C x C Bronze Crimped Union.....	60.75	17.22
22 11 16 00-0739	EA		1-1/4" C x C Bronze Crimped Union.....	78.31	19.01
22 11 16 00-0740	EA		1-1/2" C x C Bronze Crimped Union.....	99.31	21.13
22 11 16 00-0741	EA		2" C x C Bronze Crimped Union.....	148.46	25.35
22 11 16 00-0742			C x Flange Crimped Bronze Flange (22 11 16 00-0642)		
22 11 16 00-0743	EA		2-1/2" C x Flange Crimped Bronze Flange.....	280.80	29.57
22 11 16 00-0744	EA		3" C x Flange Crimped Bronze Flange.....	307.30	35.17
22 11 16 00-0745	EA		4" C x Flange Crimped Bronze Flange.....	354.60	46.48
22 11 16 00-0746			Field Installed FKM Seals (22 11 16 00-0642)		
Note: For vacuum systems. Includes removing factory installed ethylene propylene diene monomer (EPDM) seal and installing FKM seal.					
22 11 16 00-0747	EA		1/2" Field Installed FKM Seal.....	6.09	
Note: To be used in conjunction with fittings.					
22 11 16 00-0748	EA		3/4" Field Installed FKM Seal.....	7.58	
Note: To be used in conjunction with fittings.					
22 11 16 00-0749	EA		1" Field Installed FKM Seal.....	8.70	
Note: To be used in conjunction with fittings.					
22 11 16 00-0750	EA		1-1/4" Field Installed FKM Seal.....	9.96	
Note: To be used in conjunction with fittings.					
22 11 16 00-0751	EA		1-1/2" Field Installed FKM Seal.....	13.52	
Note: To be used in conjunction with fittings.					
22 11 16 00-0752	EA		2" Field Installed FKM Seal.....	15.16	
Note: To be used in conjunction with fittings.					
22 11 16 00-0753	EA		2-1/2" Field Installed FKM Seal.....	21.85	
Note: To be used in conjunction with fittings.					
22 11 16 00-0754	EA		3" Field Installed FKM Seal.....	25.21	
Note: To be used in conjunction with fittings.					

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0755	EA	4" Field Installed FKM Seal Note: To be used in conjunction with fittings.	34.23	
22 11 16 00-0756		Cut And Prepare Existing In-Place Copper Pipe (22 11 16 00-0368)		
22 11 16 00-0757	EA	Up To 1/2", Cut And Prepare Existing In Place Copper Pipe	10.56	
22 11 16 00-0758	EA	3/4", Cut And Prepare Existing In Place Copper Pipe	11.41	
22 11 16 00-0759	EA	1", Cut And Prepare Existing In Place Copper Pipe	12.84	
22 11 16 00-0760	EA	1-1/4", Cut And Prepare Existing In Place Copper Pipe	13.47	
22 11 16 00-0761	EA	1-1/2", Cut And Prepare Existing In Place Copper Pipe	14.26	
22 11 16 00-0762	EA	2", Cut And Prepare Existing In Place Copper Pipe	15.69	
22 11 16 00-0763	EA	2-1/2", Cut And Prepare Existing In Place Copper Pipe	16.91	
22 11 16 00-0764	EA	3", Cut And Prepare Existing In Place Copper Pipe	19.96	
22 11 16 00-0765	EA	4", Cut And Prepare Existing In Place Copper Pipe	26.93	
22 11 16 00-0766	EA	6", Cut And Prepare Existing In Place Copper Pipe	38.50	
22 11 16 00-0767	EA	8", Cut And Prepare Existing In Place Copper Pipe	51.33	
22 11 16 00-0768		Sweat Brass Companion Flanges (22 11 16 00-0368) Note: Excludes bolt and gasket sets		
22 11 16 00-0769	EA	1" Sweat Brass Companion Flange	68.64	16.25
22 11 16 00-0770	EA	1-1/4" Sweat Brass Companion Flange	74.87	17.90
22 11 16 00-0771	EA	1-1/2" Sweat Brass Companion Flange	109.41	19.46
22 11 16 00-0772	EA	2" Sweat Brass Companion Flange	148.13	21.59
22 11 16 00-0773	EA	2-1/2" Sweat Brass Companion Flange	187.82	25.97
22 11 16 00-0774	EA	3" Sweat Brass Companion Flange	205.17	34.04
22 11 16 00-0775	EA	4" Sweat Brass Companion Flange	275.84	40.57
22 11 16 00-0776	EA	5" Sweat Brass Companion Flange	516.02	47.56
22 11 16 00-0777	EA	6" Sweat Brass Companion Flange	586.47	69.11
22 11 16 00-0778	EA	8" Copper Companion Flange	1,390.22	98.58
22 11 16 00-0779		Brass Compression Fittings (22 11 16 00-0368)		
22 11 16 00-0780		Brass Compression Unions (22 11 16 00-0779)		
22 11 16 00-0781	EA	1/4" Brass Compression Union	18.18	11.41
22 11 16 00-0782	EA	3/8" Brass Compression Union	18.47	11.41
22 11 16 00-0783	EA	1/2" Brass Compression Union	19.36	11.41
22 11 16 00-0784	EA	5/8" Brass Compression Union	19.78	11.41
22 11 16 00-0785	EA	3/4" Brass Compression Union	25.65	11.41
22 11 16 00-0786	EA	3/8" x 1/4" Brass Compression Union	18.67	11.41
22 11 16 00-0787	EA	1/2" x 3/8" Brass Compression Union	19.43	11.41
22 11 16 00-0788	EA	5/8" x 3/8" Brass Compression Union	19.95	11.41
22 11 16 00-0789	EA	5/8" x 1/2" Brass Compression Union	20.79	11.41
22 11 16 00-0790		Brass Compression Union Elbows (22 11 16 00-0779)		
22 11 16 00-0791	EA	1/4" Brass Compression Union Elbow	19.36	11.41
22 11 16 00-0792	EA	3/8" Brass Compression Union Elbow	19.83	11.41
22 11 16 00-0793	EA	1/2" Brass Compression Union Elbow	20.88	11.41
22 11 16 00-0794	EA	5/8" Brass Compression Union Elbow	22.51	11.41
22 11 16 00-0795	EA	3/4" Brass Compression Union Elbow	28.86	11.41
22 11 16 00-0796	EA	3/8" x 1/4" Brass Compression Union Elbow	19.83	11.41
22 11 16 00-0797	EA	1/2" x 3/8" Brass Compression Union Elbow	20.88	11.41
22 11 16 00-0798	EA	5/8" x 3/8" Brass Compression Union Elbow	21.17	11.41
22 11 16 00-0799	EA	5/8" x 1/2" Brass Compression Union Elbow	25.95	11.41
22 11 16 00-0800		Brass Compression Union Tees (22 11 16 00-0779)		
22 11 16 00-0801	EA	1/4" Brass Compression Union Tee	19.72	11.41
22 11 16 00-0802	EA	3/8" Brass Compression Union Tee	20.71	11.41
22 11 16 00-0803	EA	1/2" Brass Compression Union Tee	21.76	11.41
22 11 16 00-0804	EA	5/8" Brass Compression Union Tee	25.07	11.41
22 11 16 00-0805	EA	3/4" Brass Compression Union Tee	36.54	11.41
22 11 16 00-0806	EA	3/8" x 3/8" x 1/4" Brass Compression Union Tee	21.41	11.41
22 11 16 00-0807	EA	1/2" x 1/2" x 3/8" Brass Compression Union Tee	26.79	11.41
22 11 16 00-0808	EA	5/8" x 5/8" x 3/8" Brass Compression Union Tee	26.27	11.41
22 11 16 00-0809	EA	5/8" x 5/8" x 1/2" Brass Compression Union Tee	26.88	11.41
22 11 16 00-0810		Brass Compression Male Connectors (22 11 16 00-0779)		
22 11 16 00-0811	EA	1/4" Brass Compression Male Connector	17.97	11.41
22 11 16 00-0812	EA	3/8" Brass Compression Male Connector	18.36	11.41
22 11 16 00-0813	EA	1/2" Brass Compression Male Connector	19.02	11.41
22 11 16 00-0814	EA	5/8" Brass Compression Male Connector	20.01	11.41
22 11 16 00-0815	EA	3/4" Brass Compression Male Connector	23.08	11.30
22 11 16 00-0816		Brass Compression Female Connectors (22 11 16 00-0779)		
22 11 16 00-0817	EA	1/4" Brass Compression Female Connector	18.39	11.41



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0818	EA		3/8" Brass Compression Female Connector	18.89	11.41
22 11 16 00-0819	EA		1/2" Brass Compression Female Connector	19.73	11.41
22 11 16 00-0820	EA		5/8" Brass Compression Female Connector	20.32	11.41
22 11 16 00-0821	EA		3/4" Brass Compression Female Connector	29.04	11.19
22 11 16 00-0822			Dielectric Fittings <small>(22 11 16 00-0368)</small>		
22 11 16 00-0823			Copper x Female Iron Pipe Thread Dielectric Unions <small>(22 11 16 00-0822)</small>		
22 11 16 00-0824	EA		1/2" Copper x Female Iron Pipe Thread Dielectric Union	45.33	25.35
22 11 16 00-0825	EA		3/4" Copper x Female Iron Pipe Thread Dielectric Union	50.60	28.95
22 11 16 00-0826	EA		1" Copper x Female Iron Pipe Thread Dielectric Union	60.36	31.81
22 11 16 00-0827	EA		1-1/4" Copper x Female Iron Pipe Thread Dielectric Union	73.34	35.02
22 11 16 00-0828	EA		1-1/2" Copper x Female Iron Pipe Thread Dielectric Union	88.87	38.91
22 11 16 00-0829	EA		2" Copper x Female Iron Pipe Thread Dielectric Union	113.03	46.69
22 11 16 00-0830			Female Brass Thread x Iron Pipe Thread Dielectric Unions <small>(22 11 16 00-0822)</small>		
22 11 16 00-0831	EA		1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union	49.94	25.35
22 11 16 00-0832	EA		3/4" Female Brass Thread x Iron Pipe Thread Dielectric Union	58.19	28.95
22 11 16 00-0833	EA		1" Female Brass Thread x Iron Pipe Thread Dielectric Union	70.37	31.81
22 11 16 00-0834	EA		1-1/4" Female Brass Thread x Iron Pipe Thread Dielectric Union	86.62	35.02
22 11 16 00-0835	EA		1-1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union	105.30	38.91
22 11 16 00-0836	EA		2" Female Brass Thread x Iron Pipe Thread Dielectric Union	132.30	46.69
22 11 16 00-0837			Female Iron Pipe Thread x Iron Pipe Thread Dielectric Unions <small>(22 11 16 00-0822)</small>		
22 11 16 00-0838	EA		1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	47.02	25.35
22 11 16 00-0839	EA		3/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	53.37	28.95
22 11 16 00-0840	EA		1" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	61.09	31.81
22 11 16 00-0841	EA		1-1/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	70.77	35.02
22 11 16 00-0842	EA		1-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	86.33	38.91
22 11 16 00-0843	EA		2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	110.99	46.69
22 11 16 00-0844			Copper x Female Iron Pipe Thread Dielectric Flanges <small>(22 11 16 00-0822)</small>		
22 11 16 00-0845	EA		2-1/2" Copper x Female Iron Pipe Thread Dielectric Flange	274.82	120.04
22 11 16 00-0846	EA		3" Copper x Female Iron Pipe Thread Dielectric Flange	344.00	151.17
22 11 16 00-0847	EA		4" Copper x Female Iron Pipe Thread Dielectric Flange	485.43	205.74
22 11 16 00-0848			Copper x Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flanges <small>(22 11 16 00-0822)</small>		
22 11 16 00-0849	EA		2-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange	276.72	120.04
22 11 16 00-0850	EA		3" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange	359.11	151.17
22 11 16 00-0851	EA		4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange	659.79	205.74
22 11 16 00-0852			Brass Push-Fit Fittings <small>(22 11 16)</small>		
22 11 16 00-0853	EA		1/4" x 1/4" Brass Push-Fit Coupling	21.48	10.56
			Note: (Sharkbite)		
22 11 16 00-0854	EA		3/8" x 3/8" Brass Push-Fit Coupling	26.16	11.27
			Note: (Sharkbite)		
22 11 16 00-0855	EA		1/2" x 1/2" Brass Push-Fit Coupling	27.38	12.68
			Note: (Sharkbite)		
22 11 16 00-0856	EA		5/8" x 5/8" Brass Push-Fit Coupling	31.23	13.52
			Note: (Sharkbite)		
22 11 16 00-0857	EA		3/4" x 3/4" Brass Push-Fit Coupling	32.00	14.44
			Note: (Sharkbite)		
22 11 16 00-0858	EA		1" x 1" Brass Push-Fit Coupling	44.17	17.25
			Note: (Sharkbite)		
22 11 16 00-0859	EA		1/2" x 3/8" Brass Push-Fit Reducing Coupling	26.76	11.97
			Note: (Sharkbite)		
22 11 16 00-0860	EA		3/4" x 5/8" Brass Push-Fit Reducing Coupling	30.79	13.10
			Note: (Sharkbite)		
22 11 16 00-0861	EA		1" x 3/4" Brass Push-Fit Reducing Coupling	44.88	15.85
			Note: (Sharkbite)		
22 11 16 00-0862	EA		1/4" x 1/4" Brass Push-Fit Elbow	22.29	10.56
			Note: (Sharkbite)		
22 11 16 00-0863	EA		3/8" x 3/8" Brass Push-Fit Elbow	29.62	11.27
			Note: (Sharkbite)		
22 11 16 00-0864	EA		1/2" x 1/2" Brass Push-Fit Elbow	27.82	12.68
			Note: (Sharkbite)		
22 11 16 00-0865	EA		5/8" x 5/8" Brass Push-Fit Elbow	33.24	13.52
			Note: (Sharkbite)		
22 11 16 00-0866	EA		3/4" x 3/4" Brass Push-Fit Elbow	31.43	14.44
			Note: (Sharkbite)		
22 11 16 00-0867	EA		1" x 1" Brass Push-Fit Elbow	44.62	17.25
			Note: (Sharkbite)		
22 11 16 00-0868	EA		1/2" x 3/8" Brass Push-Fit Reducing Elbow	26.39	11.97
			Note: (Sharkbite)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0869 EA 3/4" x 1/2" Brass Push-Fit Reducing Elbow Note: (Sharkbite)	29.35	13.10
22 11 16 00-0870 EA 1" x 3/4" Brass Push-Fit Reducing Elbow Note: (Sharkbite)	54.80	15.85
22 11 16 00-0871 EA 1/4" x 1/4" x 1/4" Brass Push-Fit Tee Note: (Sharkbite)	33.77	15.85
22 11 16 00-0872 EA 3/8" x 3/8" x 3/8" Brass Push-Fit Tee Note: (Sharkbite)	41.91	16.90
22 11 16 00-0873 EA 1/2" x 1/2" x 1/2" Brass Push-Fit Tee Note: (Sharkbite)	39.33	19.01
22 11 16 00-0874 EA 5/8" x 5/8" x 5/8" Brass Push-Fit Tee Note: (Sharkbite)	49.01	20.28
22 11 16 00-0875 EA 3/4" x 3/4" x 3/4" Brass Push-Fit Tee Note: (Sharkbite)	45.74	21.65
22 11 16 00-0876 EA 1" x 1" x 1" Brass Push-Fit Tee Note: (Sharkbite)	61.53	25.88
22 11 16 00-0877 EA 1/2" x 1/2" x 1/4" Brass Push-Fit Reducing Tee Note: (Sharkbite)	43.22	17.95
22 11 16 00-0878 EA 1/2" x 1/2" x 3/8" Brass Push-Fit Reducing Tee Note: (Sharkbite)	43.54	18.31
22 11 16 00-0879 EA 3/4" x 3/4" x 1/2" Brass Push-Fit Reducing Tee Note: (Sharkbite)	44.12	20.78
22 11 16 00-0880 EA 1" x 1" x 3/4" Brass Push-Fit Reducing Tee Note: (Sharkbite)	59.52	24.47
22 11 16 00-0881 EA 1/4" x 1/2" Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	25.31	11.62
22 11 16 00-0882 EA 3/8" x 1/2" Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	25.13	11.97
22 11 16 00-0883 EA 1/2" x 1/2" Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	25.07	12.68
22 11 16 00-0884 EA 3/4" x 3/4" Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	28.69	14.44
22 11 16 00-0885 EA 1" x 1" Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	39.51	17.25
22 11 16 00-0886 EA 1/4" x 1/2" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	22.53	11.62
22 11 16 00-0887 EA 3/8" x 1/2" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	25.13	11.97
22 11 16 00-0888 EA 1/2" x 1/2" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	25.13	12.68
22 11 16 00-0889 EA 3/4" x 3/4" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	28.43	14.44
22 11 16 00-0890 EA 5/8" x 3/4" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	30.45	13.97
22 11 16 00-0891 EA 1" x 3/4" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	36.29	15.85
22 11 16 00-0892 EA 1" x 1" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	40.02	17.25
22 11 16 00-0893 EA 1/2" Brass Push-Fit Ball Valve Note: (Sharkbite)	34.69	12.68
22 11 16 00-0894 EA 3/4" Brass Push-Fit Ball Valve Note: (Sharkbite)	40.46	14.44
22 11 16 00-0895 EA 1" Brass Push-Fit Ball Valve Note: (Sharkbite)	52.97	17.25
22 11 16 00-0896 EA 1/2" Brass Push-Fit Check Valve Note: (Sharkbite)	36.93	12.68
22 11 16 00-0897 EA 3/4" Brass Push-Fit Check Valve Note: (Sharkbite)	44.24	14.44
22 11 16 00-0898 EA 1" Brass Push-Fit Check Valve Note: (Sharkbite)	72.61	17.25
22 11 16 00-0899 Copper Pipe Assemblies ^(22 11 16) Note: Includes hangers and all coupling, elbow, tee and reducer fittings. All fittings are based on 95/5 solder. All hangers are complete assemblies installed in accordance with MSS SP 58 and 69. Excludes insulation. Not for use where detail is available.		
22 11 16 00-0900 LF 1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	21.27	2.96
For Type K Tubing Instead Of Type L, Add	1.49	
For Type M Tubing Instead Of Type L, Deduct	-1.23	
For Silver Solder Instead Of 95/5 Solder, Add	2.72	
For For Brazed Fittings, Add	0.66	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-1.89	
For Work In Restricted Working Space, Add	4.96	
22 11 16 00-0901 LF 3/4" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	24.70	3.80
For Type K Tubing Instead Of Type L, Add	1.79	
For Type M Tubing Instead Of Type L, Deduct	-1.47	
For Silver Solder Instead Of 95/5 Solder, Add	3.11	
For For Brazed Fittings, Add	0.75	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.17	
For Work In Restricted Working Space, Add	5.62	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0902	LF		1" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	27.50 2.16 -1.73 3.34 0.78 -2.36 5.89	4.54
22 11 16 00-0903	LF		1-1/4" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	31.30 2.72 -2.12 3.60 0.82 -2.58 6.12 -1.09	5.28
22 11 16 00-0904	LF		1-1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	35.09 3.20 -2.47 3.93 0.87 -2.84 6.52 -1.34	6.03
22 11 16 00-0905	LF		2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	44.81 4.45 -3.38 4.74 1.00 -3.49 7.51 -1.98	7.50
22 11 16 00-0906	LF		2-1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	56.22 6.20 -4.60 5.50 1.07 -4.15 8.05 -2.94	9.04
22 11 16 00-0907	LF		3" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	69.34 8.19 -6.00 6.37 1.16 -4.92 8.72 -4.03	10.50
22 11 16 00-0908	LF		4" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	110.20 14.17 -10.22 9.27 1.50 -7.39 11.28 -7.26	13.91
22 11 16 00-0909	LF		5" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	204.20 29.13 -20.64 15.04 1.93 -12.62 14.48 -15.60	17.32



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0910	LF		6" Inside Diameter Copper Pipe/Tubing Type L Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	267.50	20.92
			<i>For Type K Tubing Instead Of Type L, Add</i>	38.42	
			<i>For Type M Tubing Instead Of Type L, Deduct</i>	-27.20	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	19.50	
			<i>For For Brazed Fittings, Add</i>	2.45	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-16.44	
			<i>For Work In Restricted Working Space, Add</i>	18.38	
			<i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	-20.62	
22 11 16 00-0911	LF		8" Inside Diameter Copper Pipe/Tubing Type L Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	612.36	25.00
			<i>For Type K Tubing Instead Of Type L, Add</i>	96.56	
			<i>For Type M Tubing Instead Of Type L, Deduct</i>	-67.39	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	38.23	
			<i>For For Brazed Fittings, Add</i>	3.05	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-34.43	
			<i>For Work In Restricted Working Space, Add</i>	22.85	
			<i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	-53.62	
22 11 16 00-0912			Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16) Note: Socket weld.		
22 11 16 00-0913			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16 00-0912)		
22 11 16 00-0914			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pipe (22 11 16 00-0913)		
22 11 16 00-0915	LF		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe.....	6.67	1.55
			<i>For Work In Restricted Working Space, Add</i>	1.16	
22 11 16 00-0916	LF		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe.....	7.88	1.63
			<i>For Work In Restricted Working Space, Add</i>	1.22	
22 11 16 00-0917	LF		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe.....	9.98	1.76
			<i>For Work In Restricted Working Space, Add</i>	1.32	
22 11 16 00-0918	LF		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	12.52	1.92
			<i>For Work In Restricted Working Space, Add</i>	1.44	
22 11 16 00-0919	LF		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	14.64	2.12
			<i>For Work In Restricted Working Space, Add</i>	1.59	
22 11 16 00-0920	LF		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe.....	18.87	2.37
			<i>For Work In Restricted Working Space, Add</i>	1.78	
22 11 16 00-0921	LF		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	26.53	2.69
			<i>For Work In Restricted Working Space, Add</i>	2.02	
22 11 16 00-0922	LF		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe.....	34.39	3.20
			<i>For Work In Restricted Working Space, Add</i>	2.39	
22 11 16 00-0923	LF		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe.....	48.57	3.92
			<i>For Work In Restricted Working Space, Add</i>	2.94	
22 11 16 00-0924	LF		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe.....	87.44	4.98
			<i>For Work In Restricted Working Space, Add</i>	3.74	
22 11 16 00-0925	LF		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe.....	126.94	6.53
			<i>For Work In Restricted Working Space, Add</i>	4.90	
22 11 16 00-0926			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows (22 11 16 00-0913)		
22 11 16 00-0927	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow.....	22.83	7.39
			<i>For Work In Restricted Working Space, Add</i>	5.54	
22 11 16 00-0928	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow.....	30.11	9.33
			<i>For Work In Restricted Working Space, Add</i>	7.01	
22 11 16 00-0929	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow.....	39.97	11.67
			<i>For Work In Restricted Working Space, Add</i>	8.78	
22 11 16 00-0930	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	57.16	14.59
			<i>For Work In Restricted Working Space, Add</i>	10.97	
22 11 16 00-0931	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	63.70	16.15
			<i>For Work In Restricted Working Space, Add</i>	12.14	
22 11 16 00-0932	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow.....	76.47	16.15
			<i>For Work In Restricted Working Space, Add</i>	13.54	
22 11 16 00-0933	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	132.97	20.52
			<i>For Work In Restricted Working Space, Add</i>	15.41	
22 11 16 00-0934	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow.....	149.38	24.32
			<i>For Work In Restricted Working Space, Add</i>	18.21	
22 11 16 00-0935	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow.....	222.60	29.86
			<i>For Work In Restricted Working Space, Add</i>	22.41	
22 11 16 00-0936	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow.....	280.32	37.93
			<i>For Work In Restricted Working Space, Add</i>	28.48	
22 11 16 00-0937	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow.....	578.21	49.81
			<i>For Work In Restricted Working Space, Add</i>	37.36	
22 11 16 00-0938			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows (22 11 16 00-0913)		
22 11 16 00-0939	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow.....	25.00	7.39
			<i>For Work In Restricted Working Space, Add</i>	5.54	
22 11 16 00-0940	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow.....	32.71	9.33
			<i>For Work In Restricted Working Space, Add</i>	7.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0941 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	44.19 8.78	11.67
22 11 16 00-0942 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	62.71 10.97	14.59
22 11 16 00-0943 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	70.46 12.14	16.15
22 11 16 00-0944 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	78.77 13.54	18.10
22 11 16 00-0945 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	134.42 15.41	20.52
22 11 16 00-0946 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	149.19 18.21	24.32
22 11 16 00-0947 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	196.10 22.41	29.86
22 11 16 00-0948 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	329.99 28.48	37.93
22 11 16 00-0949 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	613.40 37.36	49.81
22 11 16 00-0950 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tees (22 11 16 00-0913)		
22 11 16 00-0951 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	35.63 8.32	11.09
22 11 16 00-0952 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	47.64 10.51	14.01
22 11 16 00-0953 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	59.49 13.19	17.61
22 11 16 00-0954 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	87.58 16.46	21.99
22 11 16 00-0955 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	98.19 18.21	24.32
22 11 16 00-0956 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	123.62 20.31	27.05
22 11 16 00-0957 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	168.91 23.12	30.84
22 11 16 00-0958 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	191.00 27.32	36.38
22 11 16 00-0959 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	230.14 33.62	44.85
22 11 16 00-0960 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	373.12 42.72	57.01
22 11 16 00-0961 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	847.27 56.03	74.71
22 11 16 00-0962 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Crosses (22 11 16 00-0913)		
22 11 16 00-0963 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross..... <i>For Work In Restricted Working Space, Add</i>	43.78 11.09	14.79
22 11 16 00-0964 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross..... <i>For Work In Restricted Working Space, Add</i>	57.56 14.01	18.68
22 11 16 00-0965 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross..... <i>For Work In Restricted Working Space, Add</i>	71.93 17.57	23.45
22 11 16 00-0966 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	101.34 21.95	29.28
22 11 16 00-0967 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	113.23 24.28	32.39
22 11 16 00-0968 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross..... <i>For Work In Restricted Working Space, Add</i>	138.43 27.08	36.09
22 11 16 00-0969 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	181.84 30.82	41.05
22 11 16 00-0970 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross..... <i>For Work In Restricted Working Space, Add</i>	207.49 36.42	48.54
22 11 16 00-0971 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross..... <i>For Work In Restricted Working Space, Add</i>	251.11 44.83	59.73
22 11 16 00-0972 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross..... <i>For Work In Restricted Working Space, Add</i>	388.59 56.96	75.97
22 11 16 00-0973 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross..... <i>For Work In Restricted Working Space, Add</i>	817.94 74.71	99.61
22 11 16 00-0974 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld Reducing Inserts (22 11 16 00-0913)		
22 11 16 00-0975 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	19.72 5.14	6.80
22 11 16 00-0976 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	28.12 6.92	9.24
22 11 16 00-0977 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	53.33 9.05	12.07
22 11 16 00-0978 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	60.72 10.01	13.33
22 11 16 00-0979 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	73.18 11.18	14.88

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0980	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	78.33 12.72	16.93
22 11 16 00-0981	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	96.10 15.03	20.04
22 11 16 00-0982	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	135.38 18.50	24.61
22 11 16 00-0983	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	235.32 23.49	31.32
22 11 16 00-0984	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	575.12 30.82	41.05
22 11 16 00-0985 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Thread Reducing Inserts <small>(22 11 16 00-0913)</small>					
22 11 16 00-0986	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	29.18 3.65	4.86
22 11 16 00-0987	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	35.47 5.14	6.80
22 11 16 00-0988	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	42.73 6.92	9.24
22 11 16 00-0989	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	52.06 9.05	12.07
22 11 16 00-0990	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	62.59 10.01	13.33
22 11 16 00-0991	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	82.48 11.18	14.88
22 11 16 00-0992	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	139.05 12.72	16.93
22 11 16 00-0993	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	302.54 15.03	20.04
22 11 16 00-0994	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	459.53 18.50	24.61
22 11 16 00-0995 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <small>(22 11 16 00-0913)</small>					
22 11 16 00-0996	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	18.68 3.65	4.86
22 11 16 00-0997	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	25.93 5.14	6.80
22 11 16 00-0998	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	37.90 6.92	9.24
22 11 16 00-0999	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	52.06 9.05	12.07
22 11 16 00-1000	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	63.01 10.01	13.33
22 11 16 00-1001	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	77.34 11.18	14.88
22 11 16 00-1002	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	118.29 12.72	16.93
22 11 16 00-1003	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	141.85 15.03	20.04
22 11 16 00-1004	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	216.80 18.50	24.61
22 11 16 00-1005 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters <small>(22 11 16 00-0913)</small>					
22 11 16 00-1006	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	21.16 3.65	4.86
22 11 16 00-1007	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	26.72 5.14	6.80
22 11 16 00-1008	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	38.11 6.92	9.24
22 11 16 00-1009	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	52.79 9.05	12.07
22 11 16 00-1010	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	59.69 10.01	13.33
22 11 16 00-1011	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	74.63 11.18	14.88
22 11 16 00-1012	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	119.86 12.72	16.93
22 11 16 00-1013	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	169.26 15.03	20.04
22 11 16 00-1014	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	263.40 18.50	24.61



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1015 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings <small>(22 11 16 00-0913)</small>		
22 11 16 00-1016 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings <i>For Work In Restricted Working Space, Add</i>	16.64 3.33	4.48
22 11 16 00-1017 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings <i>For Work In Restricted Working Space, Add</i>	23.41 4.67	6.23
22 11 16 00-1018 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings <i>For Work In Restricted Working Space, Add</i>	31.49 6.28	8.37
22 11 16 00-1019 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings <i>For Work In Restricted Working Space, Add</i>	43.19 8.23	10.99
22 11 16 00-1020 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings <i>For Work In Restricted Working Space, Add</i>	50.21 9.11	12.16
22 11 16 00-1021 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings <i>For Work In Restricted Working Space, Add</i>	56.91 10.16	13.52
22 11 16 00-1022 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings <i>For Work In Restricted Working Space, Add</i>	93.81 11.56	15.37
22 11 16 00-1023 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings <i>For Work In Restricted Working Space, Add</i>	101.37 13.66	18.20
22 11 16 00-1024 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings <i>For Work In Restricted Working Space, Add</i>	129.19 16.81	22.37
22 11 16 00-1025 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings <i>For Work In Restricted Working Space, Add</i>	215.54 21.36	28.50
22 11 16 00-1026 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings <i>For Work In Restricted Working Space, Add</i>	385.85 28.02	37.36
22 11 16 00-1027 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <small>(22 11 16 00-0913)</small>		
22 11 16 00-1028 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	36.99 4.00	5.35
22 11 16 00-1029 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	43.49 5.60	7.49
22 11 16 00-1030 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	50.69 7.53	10.02
22 11 16 00-1031 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	93.07 9.86	13.14
22 11 16 00-1032 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	97.65 10.91	14.59
22 11 16 00-1033 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	142.32 12.20	16.25
22 11 16 00-1034 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	257.00 13.86	18.48
22 11 16 00-1035 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	373.21 16.40	21.89
22 11 16 00-1036 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	608.74 20.17	26.85
22 11 16 00-1037 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	816.78 25.63	34.14
22 11 16 00-1038 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	1,005.44 33.62	44.85
22 11 16 00-1039 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Caps <small>(22 11 16 00-0913)</small>		
22 11 16 00-1040 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	15.70 2.08	4.58
22 11 16 00-1041 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	21.18 2.63	5.74
22 11 16 00-1042 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	32.95 3.29	7.20
22 11 16 00-1043 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	37.81 4.12	5.44
22 11 16 00-1044 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	39.74 4.55	6.03
22 11 16 00-1045 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	56.49 5.08	6.80
22 11 16 00-1046 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	90.49 5.78	7.68
22 11 16 00-1047 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	95.62 6.83	9.14
22 11 16 00-1048 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	150.91 8.40	11.19
22 11 16 00-1049 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	341.41 10.68	14.20
22 11 16 00-1050 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	439.36 14.01	18.68
22 11 16 00-1051 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <small>(22 11 16 00-0913)</small>		
22 11 16 00-1052 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	29.98 2.66	3.50
22 11 16 00-1053 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	35.09 3.74	4.96
22 11 16 00-1054 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	41.96 5.02	6.71



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1055	EA	1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	47.95 6.60	8.75
22 11 16 00-1056	EA	1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	50.88 7.30	9.73
22 11 16 00-1057	EA	2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	62.37 8.12	10.80
22 11 16 00-1058	EA	2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	85.96 9.25	12.36
22 11 16 00-1059	EA	3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	96.50 10.91	14.59
22 11 16 00-1060	EA	4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	121.03 13.46	17.90
22 11 16 00-1061	EA	6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	176.77 17.10	22.76
22 11 16 00-1062	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	344.90 22.41	29.86
22 11 19 Domestic Water Piping Specialties (22 11)				
22 11 19 00-0001		Rubber Hose And Clamps (22 11 19)		
22 11 19 00-0002		General Purpose Hose (22 11 19 00-0001) Note: For medium pressure (up to 200/250 psi) applications requiring excellent resistance to air, oil and heat.		
22 11 19 00-0003	LF	3/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	5.13	2.10
22 11 19 00-0004	LF	1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	5.77	2.10
22 11 19 00-0005	LF	5/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	6.62	2.10
22 11 19 00-0006	LF	3/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	6.66	2.10
22 11 19 00-0007	LF	1" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	8.32	3.16
22 11 19 00-0008	LF	1-1/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	12.18	3.16
22 11 19 00-0009	LF	1-1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	13.33	4.20
22 11 19 00-0010	LF	2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	22.72	4.20
22 11 19 00-0011		Reinforced EPDM Water Hose Assembly (22 11 19 00-0001) Note: Includes male/female camlock, 150 psi, synthetic fiber with steel wire helix reinforcement.		
22 11 19 00-0012	LF	1-1/2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement	28.62	4.20
22 11 19 00-0013	LF	2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement	33.46	4.20
22 11 19 00-0014	LF	3" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement	46.90	5.16
22 11 19 00-0015	LF	4" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement	64.98	6.98
22 11 19 00-0016		Chemical Resistant Rubber Hoses (22 11 19 00-0001)		
22 11 19 00-0017	EA	50' x 6" Brown Gum Rubber, Chemical Resistant Flexible Hose	1,144.95	254.56
22 11 19 00-0018	EA	50' x 6" Nitrile Rubber, Low pH Resistance, Flexible Hose	1,561.53	254.56
22 11 19 00-0019		Water Pump Hose (22 11 19 00-0001)		
22 11 19 00-0020	EA	2" Inside Diameter, 20' Rubber Discharge Hose	291.15	64.17
22 11 19 00-0021	EA	2" Inside Diameter, 20' Rubber Intake Hose	303.75	64.17
22 11 19 00-0022		Barbed Hose x Threaded Male Pipe, Steel Coupling (22 11 19 00-0001)		
22 11 19 00-0023	EA	3/8" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling	25.21	8.82
22 11 19 00-0024	EA	1/2" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling	26.79	9.46
22 11 19 00-0025	EA	5/8" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling	28.66	10.08
22 11 19 00-0026	EA	3/4" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling	32.70	11.34
22 11 19 00-0027	EA	1" Inside Diameter Barbed Hose x 1" Threaded Male Pipe, Steel Coupling	39.09	13.87
22 11 19 00-0028	EA	1-1/4" Inside Diameter Barbed Hose x 1-1/4" Threaded Male Pipe, Steel Coupling	46.44	16.59
22 11 19 00-0029	EA	1-1/2" Inside Diameter Barbed Hose x 1-1/2" Threaded Male Pipe, Steel Coupling	60.09	21.84
22 11 19 00-0030	EA	2" Inside Diameter Barbed Hose x 2" Threaded Male Pipe, Steel Coupling	75.53	27.30
22 11 19 00-0031		Worm-Drive Hose Clamp (22 11 19 00-0001)		
22 11 19 00-0032	EA	3/8" To 1" Diameter Worm Drive Hose Clamp	10.73	3.16
22 11 19 00-0033	EA	1/2" To 1-1/6" Diameter Worm Drive Hose Clamp	11.35	3.16
22 11 19 00-0034	EA	5/8" To 1-1/2" Diameter Worm Drive Hose Clamp	12.04	3.16
22 11 19 00-0035	EA	3/4" To 2" Diameter Worm Drive Hose Clamp	12.82	3.16
22 11 19 00-0036	EA	1" To 2-1/2" Diameter Worm Drive Hose Clamp	13.71	3.16
22 11 19 00-0037	EA	1-1/4" To 2-3/4" Diameter Worm Drive Hose Clamp	14.82	4.20
22 11 19 00-0038	EA	1-1/2" To 3" Diameter Worm Drive Hose Clamp	16.01	4.20
22 11 19 00-0039		Trap Primer And Accessories (22 11 19)		
22 11 19 00-0040		Trap Primer (22 11 19 00-0039)		
22 11 19 00-0041	EA	1/2" Inlet/Outlet, Flow Through Automatic Trap Primer (JR Smith 2699)	253.97	15.85
22 11 19 00-0042	EA	1/2" Inlet/Outlet, Automatic Trap Primer, Up To Two Floor Drains (PPP PR-500)	155.96	10.56



Plumbing	22	22
Plumbing Piping	22 10	
Facility Water Distribution	22 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0043 EA 1/2" Inlet/Outlet, Automatic Trap Primer, Up To Four Floor Drains (PPP PO-500)	151.11	10.56
22 11 19 00-0044 Trap Primer Distribution Unit (22 11 19 00-0039)		
22 11 19 00-0045 EA Molded Plastic Four Opening Trap Primer Distribution Unit (PPP DU-U) Note: Can be used for two, three or four drains.	133.54	21.13
22 11 19 00-0046 EA Copper Four Opening Trap Primer Distribution Unit (PPP DU-4) Note: Can be used for two, three or four drains.	146.58	21.13
22 11 19 00-0047 Trap Primer Manifold (22 11 19 00-0039)		
22 11 19 00-0048 EA Two Outlet Manifold	204.26	28.41
22 11 19 00-0049 EA Four Outlet Manifold	307.95	32.32
22 11 19 00-0050 EA Six Outlet Manifold	409.04	34.23
22 11 19 00-0051 EA Eight Outlet Manifold	514.26	40.14
22 11 19 00-0052 Brass, Anti Siphon Vacuum Breakers (22 11 19)		
Note: Watts 288A		
22 11 19 00-0053 EA 1/2" Brass, Anti Siphon Vacuum Breaker	94.10	26.41
22 11 19 00-0054 EA 3/4" Brass, Anti Siphon Vacuum Breaker	107.96	29.57
22 11 19 00-0055 EA 1" Brass, Anti Siphon Vacuum Breaker	217.29	33.80
22 11 19 00-0056 EA 1-1/4" Brass, Anti Siphon Vacuum Breaker	343.49	39.08
22 11 19 00-0057 EA 1-1/2" Brass, Anti Siphon Vacuum Breaker	410.13	43.30
22 11 19 00-0058 EA 2" Brass, Anti Siphon Vacuum Breaker	598.57	52.82
22 11 19 00-0059 EA 2-1/2" Brass, Anti Siphon Vacuum Breaker	1,559.19	66.02
22 11 19 00-0060 Anti Siphon Pressure Vacuum Breakers (22 11 19)		
Note: Watts 800M4QT		
22 11 19 00-0061 EA 1/2" Anti Siphon Pressure Type Vacuum Breaker	268.96	26.41
22 11 19 00-0062 EA 3/4" Anti Siphon Pressure Type Vacuum Breaker	236.03	29.57
22 11 19 00-0063 EA 1" Anti Siphon Pressure Type Vacuum Breaker	336.22	33.80
22 11 19 00-0064 EA 1-1/4" Anti Siphon Pressure Type Vacuum Breaker	605.16	39.08
22 11 19 00-0065 EA 1-1/2" Anti Siphon Pressure Type Vacuum Breaker	736.66	43.30
22 11 19 00-0066 EA 2" Anti Siphon Pressure Type Vacuum Breaker	744.84	52.82
22 11 19 00-0067 Bellows Type Water Hammer Arrestors (22 11 19)		
22 11 19 00-0068 EA Up To 11 Fixture Unit Capacity, 3/4" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5005)	244.85	12.63
22 11 19 00-0069 EA >11 To 32 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5010)	477.42	15.28
22 11 19 00-0070 EA >32 To 60 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5020)	698.93	15.28
22 11 19 00-0071 EA >60 To 113 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5030)	1,706.24	15.28
22 11 19 00-0072 EA >113 To 154 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5040)	1,922.00	15.28
22 11 19 00-0073 EA >154 To 330 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5050)	2,354.80	15.28
22 11 19 00-0074 Piston Type Water Hammer Arrestors (22 11 19)		
22 11 19 00-0075 Threaded Piston Type Water Hammer Arrestors (22 11 19 00-0074)		
22 11 19 00-0076 EA Up To 11 Fixture Unit Capacity, 1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-A)	147.77	7.04
22 11 19 00-0077 EA >11 To 32 Fixture Unit Capacity, 3/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-B)	283.62	8.12
22 11 19 00-0078 EA >32 To 60 Fixture Unit Capacity, 1" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-C)	421.38	8.81
22 11 19 00-0079 EA >60 To 113 Fixture Unit Capacity, 1-1/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-D)	1,036.23	11.36
22 11 19 00-0080 EA >113 To 154 Fixture Unit Capacity, 1-1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-E)	1,262.10	14.09
22 11 19 00-0081 EA >154 To 330 Fixture Unit Capacity, 2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-F)	1,436.14	15.28
22 11 19 00-0082 Escutcheons (22 11 19)		
22 11 19 00-0083 Brass Escutcheons (22 11 19 00-0082)		
22 11 19 00-0084 Shallow Brass Escutcheons (22 11 19 00-0083)		
22 11 19 00-0085 EA 3/8" IPS, Antique Or Polished Brass Shallow Escutcheon	11.61	2.64
22 11 19 00-0086 EA 1/2" IPS, Antique Or Polished Brass Shallow Escutcheon	12.48	2.64
22 11 19 00-0087 Deep Bell Brass Escutcheons (22 11 19 00-0083)		
22 11 19 00-0088 EA 3/8" IPS, Antique Or Polished Deep Bell Brass Escutcheon	13.62	2.96
22 11 19 00-0089 EA 1/2" IPS, Antique Or Polished Deep Bell Brass Escutcheon	13.65	2.96

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

22 11 19 00-0090	Chrome Plated Brass Escutcheons With Setscrew (22 11 19 00-0083)		
22 11 19 00-0091	EA 3/8" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	22.68	2.64
22 11 19 00-0092	EA 1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	22.93	2.64
22 11 19 00-0093	EA 5/8" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	23.30	2.64
22 11 19 00-0094	EA 3/4" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	24.65	2.64
22 11 19 00-0095	EA 7/8" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	24.99	3.17
22 11 19 00-0096	EA 1" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	26.30	3.17
22 11 19 00-0097	EA 1-1/4" IPS, Chrome Plated Brass Escutcheon With Setscrew	27.19	3.49
22 11 19 00-0098	EA 1-1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew	28.40	3.70
22 11 19 00-0099	EA 2" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	41.17	4.22
22 11 19 00-0100	Plastic Escutcheons (22 11 19 00-0082)		
22 11 19 00-0101	Split-Ring White Plastic Escutcheons (22 11 19 00-0100)		
22 11 19 00-0102	EA 3/8" IPS, Split-Ring White Plastic Escutcheon	6.15	2.62
22 11 19 00-0103	EA 1/2" IPS, Split-Ring White Plastic Escutcheon	6.15	2.62
22 11 19 00-0104	EA 3/4" IPS, Split-Ring White Plastic Escutcheon	7.09	2.94
22 11 19 00-0105	EA 1" IPS, Split-Ring White Plastic Escutcheon	7.69	3.16
22 11 19 00-0106	EA 1-1/4" IPS, Split-Ring White Plastic Escutcheon	8.29	3.47
22 11 19 00-0107	EA 1-1/2" IPS, Split-Ring White Plastic Escutcheon	8.88	3.68
22 11 19 00-0108	EA 2" IPS, Split-Ring White Plastic Escutcheon	10.03	4.20
22 11 19 00-0109	EA 2-1/2" IPS, Split-Ring White Plastic Escutcheon	12.42	4.51
22 11 19 00-0110	EA 3" IPS, Split-Ring White Plastic Escutcheon	14.83	4.72
22 11 19 00-0111	EA 4" IPS, Split-Ring White Plastic Escutcheon	17.75	5.26
22 11 19 00-0112	Chrome Plate Plastic Escutcheons (22 11 19 00-0100)		
22 11 19 00-0113	EA 1/2" IPS, Chrome Plate Plastic Escutcheon	7.69	2.62
22 11 19 00-0114	EA 3/4" IPS, Chrome Plate Plastic Escutcheon	8.41	2.94
22 11 19 00-0115	EA 1" IPS, Chrome Plate Plastic Escutcheon	9.38	3.16
22 11 19 00-0116	EA 1-1/4" IPS, Chrome Plate Plastic Escutcheon	10.36	3.47
22 11 19 00-0117	EA 1-1/2" IPS, Chrome Plate Plastic Escutcheon	10.97	3.68
22 11 19 00-0118	EA 2" IPS, Chrome Plate Plastic Escutcheon	13.58	4.20
22 11 19 00-0119	EA 2-1/2" IPS, Chrome Plate Plastic Escutcheon	18.83	4.51
22 11 19 00-0120	EA 3" IPS, Chrome Plate Plastic Escutcheon	19.57	4.72
22 11 19 00-0121	EA 4" IPS, Chrome Plate Plastic Escutcheon	21.00	5.26
22 11 19 00-0122	Stainless Steel Escutcheons (22 11 19 00-0082)		
22 11 19 00-0123	Shallow Stainless Steel Escutcheons (22 11 19 00-0122)		
22 11 19 00-0124	EA 3/8" IPS, Shallow Stainless Steel Escutcheon	14.24	2.64
22 11 19 00-0125	EA 1/2" IPS, Shallow Stainless Steel Escutcheon	14.24	2.64
22 11 19 00-0126	EA 3/4" IPS, Shallow Stainless Steel Escutcheon	19.74	2.96
22 11 19 00-0127	Chrome Plated Steel Escutcheons (22 11 19 00-0082)		
22 11 19 00-0128	Split-Ring Chrome Plated Steel Escutcheons (22 11 19 00-0127)		
22 11 19 00-0129	EA 1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon	6.03	2.62
22 11 19 00-0130	EA 3/4" IPS, Split-Ring Chrome Plated Steel Escutcheon	6.55	2.94
22 11 19 00-0131	EA 1" IPS, Split-Ring Chrome Plated Steel Escutcheon	7.21	3.16
22 11 19 00-0132	EA 1-1/4" IPS, Split-Ring Chrome Plated Steel Escutcheon	7.73	3.47
22 11 19 00-0133	EA 1-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon	8.27	3.68
22 11 19 00-0134	EA 2" IPS, Split-Ring Chrome Plated Steel Escutcheon	9.54	4.20
22 11 19 00-0135	EA 2-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon	15.20	4.51
22 11 19 00-0136	EA 3" IPS, Split-Ring Chrome Plated Steel Escutcheon	16.16	4.72
22 11 19 00-0137	EA 3-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon	20.26	5.04
22 11 19 00-0138	EA 4" IPS, Split-Ring Chrome Plated Steel Escutcheon	17.57	5.26
22 11 19 00-0139	EA 5" IPS, Split-Ring Chrome Plated Steel Escutcheon	23.10	5.78
22 11 19 00-0140	EA 6" IPS, Split-Ring Chrome Plated Steel Escutcheon	27.13	6.30
22 11 19 00-0141	Split-Ring/Springs Chrome Plated Steel Escutcheons (22 11 19 00-0127)		
22 11 19 00-0142	EA 3/8" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	10.33	2.62
22 11 19 00-0143	EA 1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	10.33	2.62
22 11 19 00-0144	EA 3/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	11.01	2.94
22 11 19 00-0145	EA 1" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	9.97	3.16
22 11 19 00-0146	EA 1-1/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	13.17	3.47
22 11 19 00-0147	EA 1-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	13.93	3.68
22 11 19 00-0148	EA 2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	16.57	4.20
22 11 19 00-0149	EA 2-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	19.22	4.51
22 11 19 00-0150	EA 3" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	23.82	4.72
22 11 19 00-0151	EA 3-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	29.62	5.04
22 11 19 00-0152	EA 4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	29.98	5.26
22 11 19 00-0153	EA 5" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	50.79	5.78
22 11 19 00-0154	EA 6" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	52.90	6.30



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0155 Deep Bell Chrome Plated Steel Escutcheons <small>(22 11 19 00-0127)</small>		
22 11 19 00-0156 EA 3/8" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	7.47	2.96
22 11 19 00-0157 EA 1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	7.34	2.96
22 11 19 00-0158 EA 3/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	7.08	2.96
22 11 19 00-0159 EA 1" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	7.94	3.17
22 11 19 00-0160 EA 1-1/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	8.62	3.49
22 11 19 00-0161 EA 1-1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	9.53	3.70
22 11 19 00-0162 Shallow Chrome Plated Steel Escutcheons <small>(22 11 19 00-0127)</small>		
22 11 19 00-0163 EA 3/8" IPS, Shallow Chrome Plated Steel Escutcheon.....	6.58	2.64
22 11 19 00-0164 EA 1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	6.58	2.64
22 11 19 00-0165 EA 3/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	6.70	2.64
22 11 19 00-0166 EA 1" IPS, Shallow Chrome Plated Steel Escutcheon.....	7.19	3.17
22 11 19 00-0167 EA 1-1/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	7.77	3.49
22 11 19 00-0168 EA 1-1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	8.67	3.70
22 11 19 00-0169 EA 2" IPS, Shallow Chrome Plated Steel Escutcheon.....	9.81	4.22
22 11 19 00-0170 Wall Hydrants <small>(22 11 19)</small>		
Note: Female inlet connection, 3/4" hose thread outlet.		
22 11 19 00-0171 Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants <small>(22 11 19 00-0170)</small>		
Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0172 EA 6" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	750.65	26.41
For Cast Bronze Box, Add	38.41	
For 1" NPT Outlet, Add	90.52	
22 11 19 00-0173 EA 12" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	790.89	31.69
For Cast Bronze Box, Add	38.41	
For 1" NPT Outlet, Add	90.52	
22 11 19 00-0174 EA 18" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	812.52	38.14
For Cast Bronze Box, Add	38.41	
For 1" NPT Outlet, Add	90.52	
22 11 19 00-0175 Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants <small>(22 11 19 00-0170)</small>		
Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0176 EA Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	753.59	44.36
For Cast Bronze Box, Add	38.41	
For 1" NPT Outlet, Add	90.52	
22 11 19 00-0177 Cast Bronze Non-Freezing Wall Hydrant <small>(22 11 19 00-0170)</small>		
Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0178 EA 3" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	405.94	32.75
For 1" NPT Outlet, Add	90.52	
22 11 19 00-0179 EA 4" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	503.19	32.75
For 1" NPT Outlet, Add	90.52	
22 11 19 00-0180 EA 6" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	503.19	32.75
For 1" NPT Outlet, Add	90.52	
22 11 19 00-0181 EA 8" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	503.19	32.75
For 1" NPT Outlet, Add	90.52	
22 11 19 00-0182 EA 10" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	525.82	66.02
For 1" NPT Outlet, Add	90.52	
22 11 19 00-0183 EA 12" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	525.82	66.02
For 1" NPT Outlet, Add	90.52	
22 11 19 00-0184 EA 18" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	593.51	66.02
For 1" NPT Outlet, Add	90.52	
22 11 19 00-0185 Stainless Steel Box Type Wall Hydrants <small>(22 11 19 00-0170)</small>		
Note: With 3/4" NPT female and 3/4" NPT male inlet connection.		
22 11 19 00-0186 EA Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8140).....	373.31	26.41
22 11 19 00-0187 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8141).....	407.24	26.41
22 11 19 00-0188 EA Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8150).....	411.86	26.41
22 11 19 00-0189 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8151).....	462.75	26.41
22 11 19 00-0190 EA Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8145).....	651.53	36.97
Note: Includes hot and cold hose connections.		
22 11 19 00-0191 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8146).....	671.58	36.97
Note: Includes hot and cold hose connections.		
22 11 19 00-0192 EA Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8155).....	671.58	36.97
Note: Includes hot and cold hose connections.		
22 11 19 00-0193 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8156).....	719.39	36.97
Note: Includes hot and cold hose connections.		
22 11 19 00-0194 Washer Boxes And Dryer Outlets <small>(22 11 19)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0195	Dryer Vent Kit <small>(22 11 19 00-0194)</small> Note: Includes 4" flexible tubing plastic hood clamps and tailpipe.	
22 11 19 00-0196 EA Dryer Vent Kit With Hood, 4" x 5' Flexible Vent And Clamps	76.47	13.73
22 11 19 00-0197	Washer Boxes And Dryer Vents <small>(22 11 19 00-0194)</small> Note: Includes 1/2" supply valves and mounting brackets.	
22 11 19 00-0198 EA 2" Washing Machine Outlet Box, Plastic, Two 1/2" Supply Valves.....	251.59	21.13
22 11 19 00-0199	Ice Maker Outlet Box <small>(22 11 19)</small> Note: Includes one 1/2" quarter turn ball valve and connections wall mount.	
22 11 19 00-0200 EA Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount.....	134.79	21.13
22 11 19 00-0201 EA Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve With Water Hammer Arrestor, Wall Mount.....	168.99	21.13
22 11 19 00-0202 EA Steel Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount	187.82	21.13
22 11 19 00-0203	Tempering Controllers For Potable Hot Water <small>(22 11 19)</small>	
22 11 19 00-0204	Point-Of-Use Thermostatic Mixing Valves (Bradley) <small>(22 11 19 00-0203)</small> Note: Point-of-Use Water Tempering Valves: ASSE 1016, or 1070, with piston-control mechanism, positive shutoff of hot water when cold water supply is lost, bronze body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner.	
22 11 19 00-0205 EA 1/2" Inlets, 1/2" Outlet Sink/Faucet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-2007)	408.62	25.74
22 11 19 00-0206 EA 1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4004)	131.07	25.74
22 11 19 00-0207 EA 1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4008)	234.99	25.74
22 11 19 00-0208 EA 3/4" Inlets, 3/4" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4016)	270.85	34.67
22 11 19 00-0209	Thermostatic Mixing Valves (Bradley) <small>(22 11 19 00-0203)</small> Note: Standard Thermostatic, Water Mixing Valves: ASSE 1017, liquid-filled motor and piston control mechanism with positive shutoff of hot water when coldwater supply is lost. Water flow is shut off in event of thermostat failure. Bronze valve body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner. Equipped with integral check stops and removable strainers.	
22 11 19 00-0210 EA 3/4" Inlets, 3/4" Outlet, 25 GPM Thermostatic Mixing Valve (Bradley S59-2025).....	1,102.79	37.12
22 11 19 00-0211 EA 3/4" Inlets, 1" Outlet, 45 GPM Thermostatic Mixing Valve (Bradley S59-2045)	1,238.67	45.72
22 11 19 00-0212 EA 1" Inlets, 1-1/4" Outlet, 80 GPM Thermostatic Mixing Valve (Bradley S59-2080)	1,488.75	53.18
22 11 19 00-0213 EA 1-1/4" Inlets, 1-1/2" Outlet, 130 GPM Thermostatic Mixing Valve (Bradley S59-2130)	1,927.13	55.89
22 11 19 00-0214 EA 2" Inlets, 2" Outlet, 220 GPM Thermostatic Mixing Valve (Bradley S59-2200)	2,586.74	72.52
22 11 19 00-0215	High Low Temperature Thermostatic Mixing Valves (Bradley) <small>(22 11 19 00-0203)</small> Note: High Low Temperature Thermostatic Mixing Valves: ASSE 1017, liquid-filled thermal motor and piston control mechanism with positive shutoff of hot water when cold water supply is lost, and allowing restricted cold flow in event of loss or interruption of hot water supply. Flow is shut off in the event of thermostat failure. Equipped with integral check stops, thermometer, and removable strainers.	
22 11 19 00-0216 EA 3/4" Inlets, 1" Outlet, 45 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3045)	2,803.51	57.17
22 11 19 00-0217 EA 1" Inlets, 1-1/4" Outlet, 80 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3080)	3,647.25	69.87
22 11 19 00-0218 EA 1-1/4" Inlets, 1-1/2" Outlet, 130 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3130)	4,252.00	90.64
22 11 19 00-0219 EA 2" Inlets, 2" Outlet, 220 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3200)	4,713.35	
22 11 19 00-0220	Thermostatic Mixing Valves (Leonard) <small>(22 11 19 00-0203)</small> Note: Thermostatic Water Mixing Valve with Integral combination checkstops with strainers, 125 PSI (8.6 BAR) maximum operating pressure, Copper encapsulated thermostatic assembly with Teflon coated brass shuttle, Locking temperature regulating handle, Top or bottom supply/outlet connections, Integral circulation port connection	
22 11 19 00-0221 EA 3/4" In x 3/4" Out Thermostatic Mixing Valve (Leonard LV-981-RF)	802.25	37.12
22 11 19 00-0222 EA 1" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-982-RF)	944.97	45.71
22 11 19 00-0223 EA 1-1/4" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-983-RF)	1,160.72	53.18
22 11 19 00-0224 EA 1-1/4" In x 1-1/2" Out Thermostatic Mixing Valve (Leonard LV-984-RF)	1,417.18	55.91
22 11 19 00-0225 EA 2" In x 2" Out Thermostatic Mixing Valve (Leonard LV-985-RF)	2,103.14	72.52
22 11 19 00-0226	Water Mixing/Self Operating Temperature Regulator <small>(22 11 19 00-0203)</small> Note: Includes high rate spring, temperature adjustment screw, temperature dial and remote bulb with 8' capillary tube.	
22 11 19 00-0227 EA 3/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	3,084.68	52.82
22 11 19 00-0228 EA 1" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	3,263.35	66.55
22 11 19 00-0229 EA 1-1/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	3,590.71	80.28
22 11 19 00-0230 EA 1-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	3,949.46	94.00
22 11 19 00-0231 EA 2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	4,702.91	123.59
22 11 19 00-0232 EA 2-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	5,561.77	140.96
22 11 19 00-0233	Thermostatic Mixing Valves (Holby) <small>(22 11 19 00-0203)</small>	
22 11 19 00-0234 EA 2-1/2" Thermostatic Mixing Valve (Holby HOLBY2500)	3,735.95	72.54



		MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0235		Backflow Preventer Valves <small>(22 11 19)</small>		
22 11 19 00-0236		Double Check Valve Backflow Preventer Assemblies <small>(22 11 19 00-0235)</small>		
22 11 19 00-0237		Threaded Double Check Valve Assemblies <small>(22 11 19 00-0236)</small>		
22 11 19 00-0238		Double Check Valve Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0237)</small>		
		Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and two epoxy coated bronze body check valves (Watts 007 QT or 719 QT series).		
22 11 19 00-0239	EA	1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series).....	333.76	28.31
		<i>For Work In Restricted Working Space, Add</i>	21.23	
		<i>For Owner Furnished Material, Deduct</i>	-262.99	
22 11 19 00-0240	EA	3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	397.24	40.14
		<i>For Work In Restricted Working Space, Add</i>	30.11	
		<i>For Owner Furnished Material, Deduct</i>	-296.89	
22 11 19 00-0241	EA	1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	459.37	49.01
		<i>For Work In Restricted Working Space, Add</i>	36.76	
		<i>For Owner Furnished Material, Deduct</i>	-336.84	
22 11 19 00-0242	EA	1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	637.48	57.04
		<i>For Work In Restricted Working Space, Add</i>	42.78	
		<i>For Owner Furnished Material, Deduct</i>	-494.88	
22 11 19 00-0243	EA	1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	786.68	65.49
		<i>For Work In Restricted Working Space, Add</i>	48.80	
		<i>For Owner Furnished Material, Deduct</i>	-624.01	
22 11 19 00-0244	EA	2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	910.84	84.50
		<i>For Work In Restricted Working Space, Add</i>	63.38	
		<i>For Owner Furnished Material, Deduct</i>	-699.59	
22 11 19 00-0245		Double Check Valve Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0237)</small>		
		Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, two epoxy coated bronze body check valves, and bronze strainer (Watts 007 QT-S or 719 QT-S series).		
22 11 19 00-0246	EA	1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	409.01	28.31
		<i>For Work In Restricted Working Space, Add</i>	21.23	
		<i>For Owner Furnished Material, Deduct</i>	-338.24	
22 11 19 00-0247	EA	3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	507.45	40.14
		<i>For Work In Restricted Working Space, Add</i>	30.11	
		<i>For Owner Furnished Material, Deduct</i>	-407.10	
22 11 19 00-0248	EA	1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	594.50	49.01
		<i>For Work In Restricted Working Space, Add</i>	36.76	
		<i>For Owner Furnished Material, Deduct</i>	-471.97	
22 11 19 00-0249	EA	1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	830.01	57.04
		<i>For Work In Restricted Working Space, Add</i>	42.78	
		<i>For Owner Furnished Material, Deduct</i>	-687.41	
22 11 19 00-0250	EA	1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	1,013.44	65.49
		<i>For Work In Restricted Working Space, Add</i>	48.80	
		<i>For Owner Furnished Material, Deduct</i>	-850.77	
22 11 19 00-0251	EA	2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	1,223.91	84.50
		<i>For Work In Restricted Working Space, Add</i>	63.38	
		<i>For Owner Furnished Material, Deduct</i>	-1,012.66	
22 11 19 00-0252		Flanged Double Check Valve Assemblies <small>(22 11 19 00-0236)</small>		
22 11 19 00-0253		Double Check Valve Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0252)</small>		
		Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 NRS series).		
22 11 19 00-0254	EA	2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS).....	4,253.36	233.47
		<i>For Work In Restricted Working Space, Add</i>	93.39	
		<i>For Owner Furnished Material, Deduct</i>	-3,942.07	
22 11 19 00-0255	EA	3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS).....	4,674.14	262.65
		<i>For Work In Restricted Working Space, Add</i>	103.60	
		<i>For Owner Furnished Material, Deduct</i>	-4,328.80	
22 11 19 00-0256		Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0252)</small>		
		Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 OSY series).		
22 11 19 00-0257	EA	2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF007 OSY).....	4,654.04	233.47
		<i>For Work In Restricted Working Space, Add</i>	93.39	
		<i>For Owner Furnished Material, Deduct</i>	-4,342.75	
22 11 19 00-0258	EA	3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 007 OSY).....	5,341.95	262.65
		<i>For Work In Restricted Working Space, Add</i>	103.60	
		<i>For Owner Furnished Material, Deduct</i>	-4,996.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0259 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0252)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 NRS series).		
22 11 19 00-0260 EA 2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series) .....4,282.24	233.47	
<i>For Work In Restricted Working Space, Add</i>	93.38	
<i>For Owner Furnished Material, Deduct</i>	-3,970.97	
22 11 19 00-0261 EA 3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series) .....3,289.04	262.65	
<i>For Work In Restricted Working Space, Add</i>	103.61	
<i>For Owner Furnished Material, Deduct</i>	-2,943.69	
22 11 19 00-0262 EA 4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series) .....5,144.36	389.11	
<i>For Work In Restricted Working Space, Add</i>	155.56	
<i>For Owner Furnished Material, Deduct</i>	-4,625.82	
22 11 19 00-0263 EA 6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series).....7,856.79	565.05	
<i>For Work In Restricted Working Space, Add</i>	306.22	
<i>For Owner Furnished Material, Deduct</i>	-6,836.06	
22 11 19 00-0264 EA 8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series).....17,787.82	847.58	
<i>For Work In Restricted Working Space, Add</i>	459.41	
<i>For Owner Furnished Material, Deduct</i>	-16,256.47	
22 11 19 00-0265 EA 10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series).....22,817.62	1,002.50	
<i>For Work In Restricted Working Space, Add</i>	546.83	
<i>For Owner Furnished Material, Deduct</i>	-20,994.87	
22 11 19 00-0266 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs And Strainer <small>(22 11 19 00-0252)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, two epoxy coated iron body check valves, and iron body strainer (Watts 709 NRS-S series).		
22 11 19 00-0267 EA 4" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series) .....5,990.54	389.11	
<i>For Work In Restricted Working Space, Add</i>	155.55	
<i>For Owner Furnished Material, Deduct</i>	-5,472.05	
22 11 19 00-0268 EA 6" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series) .....9,983.33	565.05	
<i>For Work In Restricted Working Space, Add</i>	306.22	
<i>For Owner Furnished Material, Deduct</i>	-8,962.60	
22 11 19 00-0269 EA 10" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series) .....26,445.50	1,002.50	
<i>For Work In Restricted Working Space, Add</i>	546.83	
<i>For Owner Furnished Material, Deduct</i>	-24,622.75	
22 11 19 00-0270 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0252)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 OSY series).		
22 11 19 00-0271 EA 2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series) .....4,544.38	233.47	
<i>For Work In Restricted Working Space, Add</i>	93.38	
<i>For Owner Furnished Material, Deduct</i>	-4,233.11	
22 11 19 00-0272 EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series) .....4,994.09	262.65	
<i>For Work In Restricted Working Space, Add</i>	103.60	
<i>For Owner Furnished Material, Deduct</i>	-4,648.75	
22 11 19 00-0273 EA 4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series) .....5,451.31	389.11	
<i>For Work In Restricted Working Space, Add</i>	155.55	
<i>For Owner Furnished Material, Deduct</i>	-4,932.82	
22 11 19 00-0274 EA 6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series) .....9,162.02	565.05	
<i>For Work In Restricted Working Space, Add</i>	306.22	
<i>For Owner Furnished Material, Deduct</i>	-8,141.29	
22 11 19 00-0275 EA 8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series) .....18,871.55	847.58	
<i>For Work In Restricted Working Space, Add</i>	459.33	
<i>For Owner Furnished Material, Deduct</i>	-17,340.44	
22 11 19 00-0276 EA 10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series) .....24,216.26	1,002.50	
<i>For Work In Restricted Working Space, Add</i>	546.83	
<i>For Owner Furnished Material, Deduct</i>	-22,393.51	
22 11 19 00-0277 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0252)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 OSY series).		
22 11 19 00-0278 EA 2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series) .....2,733.42	233.47	
<i>For Work In Restricted Working Space, Add</i>	93.38	
<i>For Owner Furnished Material, Deduct</i>	-2,422.15	
22 11 19 00-0279 EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series) .....3,009.85	262.65	
<i>For Work In Restricted Working Space, Add</i>	103.60	
<i>For Owner Furnished Material, Deduct</i>	-2,664.51	
22 11 19 00-0280 EA 4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series) .....3,425.35	389.11	
<i>For Work In Restricted Working Space, Add</i>	155.55	
<i>For Owner Furnished Material, Deduct</i>	-2,906.86	
22 11 19 00-0281 EA 6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series) .....5,566.02	565.05	
<i>For Work In Restricted Working Space, Add</i>	306.22	
<i>For Owner Furnished Material, Deduct</i>	-4,545.29	
22 11 19 00-0282 EA 8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series) .....10,517.53	847.58	
<i>For Work In Restricted Working Space, Add</i>	459.33	
<i>For Owner Furnished Material, Deduct</i>	-8,986.42	
22 11 19 00-0283 EA 10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series) .....11,438.85	1,002.50	
<i>For Work In Restricted Working Space, Add</i>	546.83	
<i>For Owner Furnished Material, Deduct</i>	-9,616.10	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 11 19 00-0284			N-Pattern Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0282)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N OSY series).		
22 11 19 00-0285	EA		2-1/2" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	3,592.85	233.47
			For Work In Restricted Working Space, Add	93.38	
			For Owner Furnished Material, Deduct	-3,261.58	
22 11 19 00-0286	EA		3" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	3,869.28	262.65
			For Work In Restricted Working Space, Add	103.60	
			For Owner Furnished Material, Deduct	-3,523.94	
22 11 19 00-0287	EA		4" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757 OSY Series).....	4,861.49	389.11
			For Work In Restricted Working Space, Add	155.55	
			For Owner Furnished Material, Deduct	-4,343.00	
22 11 19 00-0288	EA		6" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	7,970.18	565.05
			For Work In Restricted Working Space, Add	306.22	
			For Owner Furnished Material, Deduct	-6,949.45	
22 11 19 00-0289	EA		8" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	14,080.74	847.58
			For Work In Restricted Working Space, Add	459.33	
			For Owner Furnished Material, Deduct	-12,549.63	
22 11 19 00-0290	EA		10" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	16,756.06	1,002.50
			For Work In Restricted Working Space, Add	546.83	
			For Owner Furnished Material, Deduct	-14,933.31	

22 11 19 00-0291			Double Check Valve Assemblies With Non-Rising Stem Shut-Off Valves <small>(22 11 19 00-0292)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 NRS series).		
22 11 19 00-0292	EA		2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	2,562.48	233.47
			For Work In Restricted Working Space, Add	93.38	
			For Owner Furnished Material, Deduct	-2,251.21	
22 11 19 00-0293	EA		3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	2,846.68	262.65
			For Work In Restricted Working Space, Add	103.60	
			For Owner Furnished Material, Deduct	-2,501.34	
22 11 19 00-0294	EA		4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	3,269.86	389.11
			For Work In Restricted Working Space, Add	155.55	
			For Owner Furnished Material, Deduct	-2,751.37	
22 11 19 00-0295	EA		6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	5,443.87	565.05
			For Work In Restricted Working Space, Add	306.22	
			For Owner Furnished Material, Deduct	-4,423.14	
22 11 19 00-0296	EA		8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	10,399.81	847.58
			For Work In Restricted Working Space, Add	459.33	
			For Owner Furnished Material, Deduct	-8,868.70	
22 11 19 00-0297	EA		10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	11,767.52	1,002.50
			For Work In Restricted Working Space, Add	546.83	
			For Owner Furnished Material, Deduct	-9,944.77	

22 11 19 00-0298			N-Pattern Double Check Valve Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0292)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N NRS series).		
22 11 19 00-0299	EA		2-1/2" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	3,349.85	233.47
			For Work In Restricted Working Space, Add	93.38	
			For Owner Furnished Material, Deduct	-3,038.58	
22 11 19 00-0300	EA		3" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	3,626.28	262.65
			For Work In Restricted Working Space, Add	103.60	
			For Owner Furnished Material, Deduct	-3,280.94	
22 11 19 00-0301	EA		4" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	4,618.79	389.11
			For Work In Restricted Working Space, Add	155.55	
			For Owner Furnished Material, Deduct	-4,100.30	
22 11 19 00-0302	EA		6" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	7,711.68	565.05
			For Work In Restricted Working Space, Add	306.22	
			For Owner Furnished Material, Deduct	-6,690.95	
22 11 19 00-0303	EA		8" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	13,689.47	847.58
			For Work In Restricted Working Space, Add	459.33	
			For Owner Furnished Material, Deduct	-12,158.36	
22 11 19 00-0304	EA		10" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	16,363.65	1,002.50
			For Work In Restricted Working Space, Add	546.83	
			For Owner Furnished Material, Deduct	-14,540.90	

22 11 19 00-0305			Double Check Valve Assemblies With Butterfly Shut-Off Valves <small>(22 11 19 00-0292)</small> Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757 BFG series).		
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0306 EA 2-1/2" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	2,966.76	233.47
For Work In Restricted Working Space, Add	93.38	
For Owner Furnished Material, Deduct	-2,655.49	
22 11 19 00-0307 EA 3" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	3,243.18	262.65
For Work In Restricted Working Space, Add	103.60	
For Owner Furnished Material, Deduct	-2,897.84	
22 11 19 00-0308 EA 4" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	3,658.69	389.11
For Work In Restricted Working Space, Add	155.55	
For Owner Furnished Material, Deduct	-3,140.20	
22 11 19 00-0309 EA 6" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	5,805.23	565.05
For Work In Restricted Working Space, Add	306.22	
For Owner Furnished Material, Deduct	-4,784.50	
22 11 19 00-0310 EA 8" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	10,756.74	847.58
For Work In Restricted Working Space, Add	459.33	
For Owner Furnished Material, Deduct	-9,225.63	
22 11 19 00-0311 N-Pattern Double Check Valve Assemblies With Butterfly Shut-Offs (22 11 19 00-0252)		
Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757N BFG series).		
22 11 19 00-0312 EA 2-1/2" N-Pattern Flanged Double Check Assembly With Butterfly Valves (Watts 757 BFG series).....	3,826.19	233.47
For Work In Restricted Working Space, Add	93.38	
For Owner Furnished Material, Deduct	-3,514.92	
22 11 19 00-0313 EA 3" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	4,102.61	262.65
For Work In Restricted Working Space, Add	103.60	
For Owner Furnished Material, Deduct	-3,757.27	
22 11 19 00-0314 EA 4" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	5,094.83	389.11
For Work In Restricted Working Space, Add	155.55	
For Owner Furnished Material, Deduct	-4,576.34	
22 11 19 00-0315 EA 6" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	8,209.45	565.05
For Work In Restricted Working Space, Add	306.22	
For Owner Furnished Material, Deduct	-7,188.72	
22 11 19 00-0316 EA 8" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	10,756.74	847.58
For Work In Restricted Working Space, Add	459.33	
For Owner Furnished Material, Deduct	-9,225.63	
22 11 19 00-0317 Grooved Double Check Valve Assemblies (22 11 19 00-0236)		
22 11 19 00-0318 Double Check Valve Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0317)		
Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757 QT series).		
22 11 19 00-0319 EA 2-1/2" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series).....	2,562.48	124.52
For Work In Restricted Working Space, Add	93.38	
For Owner Furnished Material, Deduct	-2,251.21	
22 11 19 00-0320 EA 3" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series).....	2,846.68	138.14
For Work In Restricted Working Space, Add	103.60	
For Owner Furnished Material, Deduct	-2,501.34	
22 11 19 00-0321 N-Patten Double Check Valve Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0317)		
Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757N QT series).		
22 11 19 00-0322 EA 2-1/2" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series).....	3,349.85	124.52
For Work In Restricted Working Space, Add	93.38	
For Owner Furnished Material, Deduct	-3,038.58	
22 11 19 00-0323 EA 3" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series).....	3,626.28	138.14
For Work In Restricted Working Space, Add	103.60	
For Owner Furnished Material, Deduct	-3,280.94	
22 11 19 00-0324 Reduced Pressure Zone Backflow Preventer Assemblies (22 11 19 00-0235)		
22 11 19 00-0325 Threaded Reduced Pressure Zone Assemblies (22 11 19 00-0324)		
22 11 19 00-0326 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0325)		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).		
22 11 19 00-0327 EA 1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series).....	367.15	24.50
For Work In Restricted Working Space, Add	18.38	
For Owner Furnished Material, Deduct	-305.88	
22 11 19 00-0328 EA 3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series).....	388.34	27.04
For Work In Restricted Working Space, Add	20.28	
For Owner Furnished Material, Deduct	-320.73	
22 11 19 00-0329 EA 1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series).....	450.70	28.31
For Work In Restricted Working Space, Add	21.23	
For Owner Furnished Material, Deduct	-379.93	
22 11 19 00-0330 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series).....	606.35	40.14
For Work In Restricted Working Space, Add	30.11	
For Owner Furnished Material, Deduct	-506.00	
22 11 19 00-0331 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	720.10	49.01
For Work In Restricted Working Space, Add	36.76	
For Owner Furnished Material, Deduct	-597.57	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0332	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,080.01 42.78 -937.41	57.04
22 11 19 00-0333	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,144.17 48.80 -981.50	65.49
22 11 19 00-0334	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,375.95 63.38 -1,164.70	84.50
22 11 19 00-0335	Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0325)</small>				
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 009 QT-S series).					
22 11 19 00-0336	EA		1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	404.17 18.38 -342.90	24.50
22 11 19 00-0337	EA		3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	427.36 20.28 -359.75	27.04
22 11 19 00-0338	EA		1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	504.18 21.23 -433.41	40.14
22 11 19 00-0339	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	690.39 30.11 -590.04	40.14
22 11 19 00-0340	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	825.19 36.76 -702.66	49.01
22 11 19 00-0341	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,223.32 42.78 -1,080.72	57.04
22 11 19 00-0342	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,346.42 48.80 -1,183.75	65.49
22 11 19 00-0343	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,624.09 63.38 -1,412.84	84.50
22 11 19 00-0344	Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0325)</small>				
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 919 QT series).					
22 11 19 00-0345	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	606.35 30.11 -506.00	40.14
22 11 19 00-0346	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	720.10 36.76 -597.57	49.01
22 11 19 00-0347	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,080.01 42.78 -937.41	57.04
22 11 19 00-0348	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,144.17 48.80 -981.50	65.49
22 11 19 00-0349	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,375.95 63.38 -1,164.70	84.50
22 11 19 00-0350	Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0325)</small>				
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 919 QT-S series).					
22 11 19 00-0351	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	690.39 30.11 -590.04	40.14
22 11 19 00-0352	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	825.19 36.76 -702.66	49.01



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0353 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,223.32	57.04
For Work In Restricted Working Space, Add	42.78	
For Owner Furnished Material, Deduct	-1,080.72	
22 11 19 00-0354 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,346.42	65.49
For Work In Restricted Working Space, Add	48.80	
For Owner Furnished Material, Deduct	-1,183.75	
22 11 19 00-0355 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,624.09	84.50
For Work In Restricted Working Space, Add	63.38	
For Owner Furnished Material, Deduct	-1,412.84	
22 11 19 00-0356 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0325)		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 909 QT series).		
22 11 19 00-0357 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT).....	1,230.58	40.14
For Work In Restricted Working Space, Add	30.11	
For Owner Furnished Material, Deduct	-1,130.23	
22 11 19 00-0358 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT).....	1,457.31	49.01
For Work In Restricted Working Space, Add	36.76	
For Owner Furnished Material, Deduct	-1,334.78	
22 11 19 00-0359 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT).....	2,233.72	57.04
For Work In Restricted Working Space, Add	42.78	
For Owner Furnished Material, Deduct	-2,091.12	
22 11 19 00-0360 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT).....	2,416.48	65.49
For Work In Restricted Working Space, Add	48.80	
For Owner Furnished Material, Deduct	-2,253.81	
22 11 19 00-0361 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 909M1QT).....	2,807.55	84.50
For Work In Restricted Working Space, Add	63.38	
For Owner Furnished Material, Deduct	-2,596.30	
22 11 19 00-0362 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer (22 11 19 00-0325)		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts LF909 QT-S series).		
22 11 19 00-0363 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S).....	1,650.71	40.14
For Work In Restricted Working Space, Add	30.11	
For Owner Furnished Material, Deduct	-1,550.36	
22 11 19 00-0364 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S).....	1,962.87	49.01
For Work In Restricted Working Space, Add	36.76	
For Owner Furnished Material, Deduct	-1,840.34	
22 11 19 00-0365 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	2,984.17	57.04
For Work In Restricted Working Space, Add	42.78	
For Owner Furnished Material, Deduct	-2,841.57	
22 11 19 00-0366 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	3,261.11	65.49
For Work In Restricted Working Space, Add	48.80	
For Owner Furnished Material, Deduct	-3,098.44	
22 11 19 00-0367 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	3,877.09	84.50
For Work In Restricted Working Space, Add	63.38	
For Owner Furnished Material, Deduct	-3,665.84	
22 11 19 00-0368 Flanged Reduced Pressure Zone Assemblies (22 11 19 00-0324)		
22 11 19 00-0369 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs (22 11 19 00-0368)		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 NRS series).		
22 11 19 00-0370 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series).....	3,917.46	233.47
For Work In Restricted Working Space, Add	93.39	
For Owner Furnished Material, Deduct	-3,606.17	
22 11 19 00-0371 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series).....	4,413.00	262.65
For Work In Restricted Working Space, Add	103.60	
For Owner Furnished Material, Deduct	-4,067.66	
22 11 19 00-0372 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Strainer (22 11 19 00-0368)		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF009 NRS-S-FDA series).		
22 11 19 00-0373 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series).....	4,657.03	233.47
For Work In Restricted Working Space, Add	93.39	
For Owner Furnished Material, Deduct	-4,345.74	
22 11 19 00-0374 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series).....	5,272.18	262.65
For Work In Restricted Working Space, Add	103.60	
For Owner Furnished Material, Deduct	-4,926.84	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0375			Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0368)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 OSY series).		
22 11 19 00-0376	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series).....	4,200.53	233.47
			<i>For Work In Restricted Working Space, Add</i>	93.39	
			<i>For Owner Furnished Material, Deduct</i>	-3,889.24	
22 11 19 00-0377	EA		3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series).....	4,883.45	262.65
			<i>For Work In Restricted Working Space, Add</i>	103.60	
			<i>For Owner Furnished Material, Deduct</i>	-4,538.11	
22 11 19 00-0378			Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs And Strainer <small>(22 11 19 00-0368)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies. (Watts LF009 OSY-S-FDA Series)		
22 11 19 00-0379	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series).....	4,657.03	233.47
			<i>For Work In Restricted Working Space, Add</i>	93.39	
			<i>For Owner Furnished Material, Deduct</i>	-4,345.74	
22 11 19 00-0380	EA		3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series).....	5,272.18	262.65
			<i>For Work In Restricted Working Space, Add</i>	103.60	
			<i>For Owner Furnished Material, Deduct</i>	-4,926.84	
22 11 19 00-0381			Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0368)</small> Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and captured spring assemblies (Watts LF009 QT-FDA series).		
22 11 19 00-0382	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series).....	5,162.37	233.47
			<i>For Work In Restricted Working Space, Add</i>	93.39	
			<i>For Owner Furnished Material, Deduct</i>	-4,851.08	
22 11 19 00-0383	EA		3" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series).....	5,970.88	262.65
			<i>For Work In Restricted Working Space, Add</i>	103.60	
			<i>For Owner Furnished Material, Deduct</i>	-5,625.54	
22 11 19 00-0384			Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0368)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 NRS series).		
22 11 19 00-0385	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	6,679.38	233.47
			<i>For Work In Restricted Working Space, Add</i>	93.38	
			<i>For Owner Furnished Material, Deduct</i>	-6,368.11	
22 11 19 00-0386	EA		3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	7,586.59	262.65
			<i>For Work In Restricted Working Space, Add</i>	103.61	
			<i>For Owner Furnished Material, Deduct</i>	-7,241.24	
22 11 19 00-0387	EA		4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	9,570.84	389.11
			<i>For Work In Restricted Working Space, Add</i>	155.56	
			<i>For Owner Furnished Material, Deduct</i>	-9,052.30	
22 11 19 00-0388	EA		6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	14,581.82	565.05
			<i>For Work In Restricted Working Space, Add</i>	428.74	
			<i>For Owner Furnished Material, Deduct</i>	-13,152.70	
22 11 19 00-0389	EA		8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....	24,139.78	847.58
			<i>For Work In Restricted Working Space, Add</i>	643.11	
			<i>For Owner Furnished Material, Deduct</i>	-21,996.09	
22 11 19 00-0390	EA		10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....	30,956.07	1,002.50
			<i>For Work In Restricted Working Space, Add</i>	546.83	
			<i>For Owner Furnished Material, Deduct</i>	-29,133.32	
22 11 19 00-0391			Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Epoxy Coated Strainer <small>(22 11 19 00-0368)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF909 NRS-S-FDA series).		
22 11 19 00-0392	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	7,192.69	233.47
			<i>For Work In Restricted Working Space, Add</i>	93.38	
			<i>For Owner Furnished Material, Deduct</i>	-6,881.42	
22 11 19 00-0393	EA		3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	8,126.81	262.65
			<i>For Work In Restricted Working Space, Add</i>	103.60	
			<i>For Owner Furnished Material, Deduct</i>	-7,781.47	
22 11 19 00-0394	EA		4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	10,399.07	389.11
			<i>For Work In Restricted Working Space, Add</i>	155.55	
			<i>For Owner Furnished Material, Deduct</i>	-9,880.58	
22 11 19 00-0395	EA		6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	15,732.46	565.05
			<i>For Work In Restricted Working Space, Add</i>	306.22	
			<i>For Owner Furnished Material, Deduct</i>	-14,711.73	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0396 EA 8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	25,451.98	847.58
For Work In Restricted Working Space, Add	459.33	
For Owner Furnished Material, Deduct	-23,920.87	
22 11 19 00-0397 EA 10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	34,489.96	1,002.50
For Work In Restricted Working Space, Add	546.83	
For Owner Furnished Material, Deduct	-32,667.21	
22 11 19 00-0398 Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs (22 11 19 00-0368)		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 OSY series).		
22 11 19 00-0399 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	7,101.99	233.47
For Work In Restricted Working Space, Add	93.38	
For Owner Furnished Material, Deduct	-6,790.72	
22 11 19 00-0400 EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	8,071.00	262.65
For Work In Restricted Working Space, Add	103.61	
For Owner Furnished Material, Deduct	-7,725.65	
22 11 19 00-0401 EA 4" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	10,172.87	389.11
For Work In Restricted Working Space, Add	155.56	
For Owner Furnished Material, Deduct	-9,654.33	
22 11 19 00-0402 EA 6" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	15,051.03	565.05
For Work In Restricted Working Space, Add	306.22	
For Owner Furnished Material, Deduct	-14,030.30	
22 11 19 00-0403 EA 8" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series).....	24,994.28	847.58
For Work In Restricted Working Space, Add	459.33	
For Owner Furnished Material, Deduct	-23,463.17	
22 11 19 00-0404 EA 10" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series).....	32,897.20	1,002.50
For Work In Restricted Working Space, Add	546.83	
For Owner Furnished Material, Deduct	-31,074.45	
22 11 19 00-0405 Double Check Detector Assemblies (22 11 19 00-0235)		
22 11 19 00-0406 Flanged Double Check Detector Assemblies With Meter (22 11 19 00-0405)		
22 11 19 00-0407 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter (22 11 19 00-0406)		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, two epoxy coated iron body check valves, and meter (Watts 709 DCDA OSY series).		
22 11 19 00-0408 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	5,351.96	262.65
For Work In Restricted Working Space, Add	103.60	
For Owner Furnished Material, Deduct	-5,006.62	
22 11 19 00-0409 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	5,641.28	389.11
For Work In Restricted Working Space, Add	155.55	
For Owner Furnished Material, Deduct	-5,122.79	
22 11 19 00-0410 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	7,672.86	565.05
For Work In Restricted Working Space, Add	306.22	
For Owner Furnished Material, Deduct	-6,652.13	
22 11 19 00-0411 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	13,555.21	847.58
For Work In Restricted Working Space, Add	459.33	
For Owner Furnished Material, Deduct	-12,024.10	
22 11 19 00-0412 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	18,255.64	1,002.50
For Work In Restricted Working Space, Add	546.83	
For Owner Furnished Material, Deduct	-16,432.89	
22 11 19 00-0413 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter (22 11 19 00-0406)		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA OSY series).		
22 11 19 00-0414 EA 2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	4,020.37	233.47
For Work In Restricted Working Space, Add	93.39	
For Owner Furnished Material, Deduct	-3,709.08	
22 11 19 00-0415 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	4,296.53	262.65
For Work In Restricted Working Space, Add	103.60	
For Owner Furnished Material, Deduct	-3,951.19	
22 11 19 00-0416 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	4,717.76	389.11
For Work In Restricted Working Space, Add	155.55	
For Owner Furnished Material, Deduct	-4,199.27	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0417	EA			6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	6,473.44 306.22 -5,452.71	565.05
22 11 19 00-0418	EA			8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	11,387.37 459.33 -9,856.26	847.58
22 11 19 00-0419	EA			10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	13,432.11 546.83 -11,609.36	1,002.50
22 11 19 00-0420				Double Check Detector Assembly With Butterfly Valves And Meter <small>(22 11 19 00-0406)</small> Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA BFG series).		
22 11 19 00-0421	EA			2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,253.76 93.39 -3,942.47	233.47
22 11 19 00-0422	EA			3" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,529.91 103.60 -4,184.57	262.65
22 11 19 00-0423	EA			4" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,951.10 155.55 -4,432.61	389.11
22 11 19 00-0424	EA			6" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	6,712.66 306.22 -5,691.93	565.05
22 11 19 00-0425	EA			8" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	11,100.37 459.33 -9,569.26	847.58
22 11 19 00-0426				Flanged Double Check Detector Assemblies Without Meter <small>(22 11 19 00-0405)</small>		
22 11 19 00-0427				Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs Less Meter <small>(22 11 19 00-0426)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA OSY LM series).		
22 11 19 00-0428	EA			2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) <i>For Work In Restricted Working Space, Add</i>	3,946.68 93.39	233.47
22 11 19 00-0429	EA			3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) <i>For Work In Restricted Working Space, Add</i>	4,222.87 103.60	262.65
22 11 19 00-0430	EA			4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) <i>For Work In Restricted Working Space, Add</i>	4,644.11 155.55	389.11
22 11 19 00-0431	EA			6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) <i>For Work In Restricted Working Space, Add</i>	6,399.78 306.22	565.05
22 11 19 00-0432	EA			8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) <i>For Work In Restricted Working Space, Add</i>	11,313.77 459.33	847.58
22 11 19 00-0433	EA			10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) <i>For Work In Restricted Working Space, Add</i>	13,358.40 546.83	1,002.50
22 11 19 00-0434				Double Check Detector Assembly With Butterfly Valves Less Meter <small>(22 11 19 00-0426)</small> Note: Includes ball type test cocks, two butterfly resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA BFG LM series).		
22 11 19 00-0435	EA			2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) <i>For Work In Restricted Working Space, Add</i>	4,180.05 93.39	233.47
22 11 19 00-0436	EA			3" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) <i>For Work In Restricted Working Space, Add</i>	4,456.20 103.60	262.65
22 11 19 00-0437	EA			4" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) <i>For Work In Restricted Working Space, Add</i>	4,877.44 155.55	389.11
22 11 19 00-0438	EA			6" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) <i>For Work In Restricted Working Space, Add</i>	6,638.95 306.22	565.05
22 11 19 00-0439	EA			8" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) <i>For Work In Restricted Working Space, Add</i>	11,552.98 459.33	847.58
22 11 19 00-0440				Backflow Preventer Accessories <small>(22 11 19 00-0235)</small>		
22 11 19 00-0441				Air Gap <small>(22 11 19 00-0440)</small>		
22 11 19 00-0442	EA			Up To 1" Diameter Air Gap For Backflow Preventer	96.39	13.20
22 11 19 00-0443	EA			1-1/4" To 2" Diameter Air Gap For Backflow Preventer	118.46	15.85
22 11 19 00-0444	EA			2-1/2" To 3" Diameter Air Gap For Backflow Preventer	218.86	21.13
22 11 19 00-0445	EA			4" To 6" Diameter Air Gap For Backflow Preventer	430.93	36.97
22 11 19 00-0446	EA			8" To 10" Diameter Air Gap For Backflow Preventer	462.62	52.82



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 11 19 00-0447	Brass Test Cocks (22 11 19 00-0440)		
22 11 19 00-0448	EA 1/8" Or 1/4" Brass Test Cock	39.20	5.28
22 11 19 00-0449	Backflow Valve Enclosures (22 11 19 00-0235)		
22 11 19 00-0450	Flip-Top, Insulated Fiberglass Valve Enclosures (22 11 19 00-0449)		
	Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0451	EA 19" Length x 11" Width x 22" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	810.24	95.06
	For Heated Enclosure, Add	97.77	
22 11 19 00-0452	EA 27" Length x 13" Width x 23" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	992.62	95.06
	For Heated Enclosure, Add	125.13	
22 11 19 00-0453	EA 27" Length x 13" Width x 35" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	1,252.86	87.55
	For Heated Enclosure, Add	166.04	
22 11 19 00-0454	EA 33" Length x 21" Width x 25" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	1,306.25	116.74
	For Heated Enclosure, Add	166.75	
22 11 19 00-0455	EA 39" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	1,368.10	116.74
	For Heated Enclosure, Add	176.03	
22 11 19 00-0456	EA 47" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	1,609.16	116.74
	For Heated Enclosure, Add	212.19	
22 11 19 00-0457	EA 39" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	1,615.50	116.74
	For Heated Enclosure, Add	213.14	
22 11 19 00-0458	EA 47" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	2,028.24	116.74
	For Heated Enclosure, Add	274.75	
22 11 19 00-0459	EA 70" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	4,651.39	175.10
	For Heated Enclosure, Add	653.93	
22 11 19 00-0460	EA 83" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	6,724.12	175.10
	For Heated Enclosure, Add	964.84	
22 11 19 00-0461	EA 70" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	6,391.09	175.10
	For Heated Enclosure, Add	914.89	
22 11 19 00-0462	EA 83" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	7,694.15	204.29
	For Heated Enclosure, Add	1,103.05	
22 11 19 00-0463	One-Piece Drop Over, Insulated Fiberglass Valve Enclosures (22 11 19 00-0449)		
	Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0464	EA 20" Length x 6-1/2" Width x 22" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	438.72	25.35
	For Heated Enclosure, Add	79.29	
22 11 19 00-0465	EA 27" Length x 14" Width x 26" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	606.82	25.35
	For Heated Enclosure, Add	112.91	
22 11 19 00-0466	EA 38-1/2" Length x 12" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	758.89	23.35
	For Heated Enclosure, Add	144.00	
22 11 19 00-0467	EA 47" Length x 13" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	1,142.68	23.35
	For Heated Enclosure, Add	220.75	
22 11 19 00-0468	EA 70" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	2,952.90	43.77
	For Heated Enclosure, Add	575.99	
22 11 19 00-0469	EA 83" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	4,026.53	43.77
	For Heated Enclosure, Add	790.71	
22 11 19 00-0470	EA 45" Length x 35" Width x 35" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	2,686.47	43.77
	For Heated Enclosure, Add	522.70	
22 11 19 00-0471	EA 53" Length x 44" Width x 44" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	3,038.54	43.77
	For Heated Enclosure, Add	593.12	
22 11 19 00-0472	EA 61" Length x 52" Width x 50" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	4,746.52	43.77
	For Heated Enclosure, Add	934.71	
22 11 19 00-0473	Sectional, Insulated Aluminum Valve Enclosures (22 11 19 00-0449)		
	Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0474	EA 70" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure	6,045.05	190.14
	For Heated Enclosure, Add	859.22	
	For One 24" Fluorescent Light Fixture, Add	570.25	
	For Two 24" Fluorescent Light Fixture, Add	1,020.45	
22 11 19 00-0475	EA 83" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure	6,658.78	190.14
	For Heated Enclosure, Add	951.28	
	For One 24" Fluorescent Light Fixture, Add	570.25	
	For Two 24" Fluorescent Light Fixture, Add	1,020.45	
22 11 19 00-0476	EA 53" Length x 33" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure	4,725.92	175.10
	For Heated Enclosure, Add	665.11	
	For One 24" Fluorescent Light Fixture, Add	570.25	
	For Two 24" Fluorescent Light Fixture, Add	1,020.45	
22 11 19 00-0477	EA 53" Length x 44" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure	5,179.48	175.10
	For Heated Enclosure, Add	733.15	
	For One 24" Fluorescent Light Fixture, Add	570.25	
	For Two 24" Fluorescent Light Fixture, Add	1,020.45	
22 11 19 00-0478	EA 90" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure	6,033.22	233.47
	For Heated Enclosure, Add	846.62	
	For One 24" Fluorescent Light Fixture, Add	570.25	
	For Two 24" Fluorescent Light Fixture, Add	1,020.45	
22 11 19 00-0479	EA 102" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure	6,759.55	233.47
	For Heated Enclosure, Add	955.57	
	For One 24" Fluorescent Light Fixture, Add	570.25	
	For Two 24" Fluorescent Light Fixture, Add	1,020.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0480 EA 90" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	6,759.55 955.57 570.25 1,020.45	233.47
22 11 19 00-0481 EA 102" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	7,463.68 1,061.19 570.25 1,020.45	233.47
22 11 19 00-0482 EA 62" Length x 39" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	5,610.32 790.48 570.25 1,020.45	204.29
22 11 19 00-0483 EA 62" Length x 53" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	6,567.66 926.78 570.25 1,020.45	233.47
22 11 19 00-0484 EA 105" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	7,666.67 1,091.63 570.25 1,020.45	233.47
22 11 19 00-0485 EA 125" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	8,414.15 1,200.11 570.25 1,020.45	248.06
22 11 19 00-0486 EA 105" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	8,632.02 1,227.46 570.25 1,020.45	269.35
22 11 19 00-0487 EA 125" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	9,565.54 1,363.53 570.25 1,020.45	285.20
22 11 19 00-0488 EA 105" Length x 36" Width x 80" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	9,891.12 1,418.01 570.25 1,020.45	262.65
22 11 19 00-0489 EA 72" Length x 45" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	7,190.91 1,020.27 570.25 1,020.45	233.47
22 11 19 00-0490 EA 72" Length x 45" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	7,661.91 1,090.92 570.25 1,020.45	233.47
22 11 19 00-0491 EA 72" Length x 65" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	8,666.31 1,237.93 570.25 1,020.45	248.06
22 11 19 00-0492 EA 72" Length x 65" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	10,495.34 1,508.64 570.25 1,020.45	262.65
22 11 19 00-0493 EA 118" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	9,164.79 1,309.06 570.25 1,020.45	116.74
22 11 19 00-0494 EA 142" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	11,004.94 1,581.43 570.25 1,020.45	116.74
22 11 19 00-0495 EA 118" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	10,641.78 1,526.96 570.25 1,020.45	175.10
22 11 19 00-0496 EA 142" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	12,344.47 1,775.06 570.25 1,020.45	175.10
22 11 19 00-0497 EA 142" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	11,392.42 1,635.90 570.25 1,020.45	175.10
22 11 19 00-0498 EA 172" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	13,310.80 1,916.37 570.25 1,020.45	204.29
22 11 19 00-0499 EA 142" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	13,359.44 1,916.37 570.25 1,020.45	175.10
22 11 19 00-0500 EA 172" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	15,842.39 2,281.51 570.25 1,020.45	175.10

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 11 19 00-0501	Faucets (Hose Bibbs) (22 11 19)		
22 11 19 00-0502	Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends (22 11 19 00-0501)		
22 11 19 00-0503 EA	1/2", 125 LB Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends.....	55.47	10.56
22 11 19 00-0504 EA	3/4" Faucet, Bronze Garden Hose Valve With Screwed Ends, 125#	64.35	11.62
22 11 19 00-0505 EA	3/4" Hose Valve With Screwed Ends And Vacuum Breaker, 125#	22.15	7.92

22 11 19 00-0506	Chrome Plated Brass Hose Valves, Screwed Ends (22 11 19 00-0501)		
22 11 19 00-0507 EA	3/4" Hose Valve With Screwed Ends (Chicago Faucets #387-CP)	206.63	32.32

22 11 19 00-0508	Antisiphon Freezeless Wall Faucet (22 11 19 00-0501)		
22 11 19 00-0509 EA	4" Long, 1/2" Antisiphon Freezeless Wall Faucet.....	150.52	26.41
22 11 19 00-0510 EA	6" Long, 1/2" Antisiphon Freezeless Wall Faucet.....	162.15	29.26
22 11 19 00-0511 EA	8" Long, 1/2" Antisiphon Freezeless Wall Faucet.....	171.13	30.95
22 11 19 00-0512 EA	10" Long, 1/2" Antisiphon Freezeless Wall Faucet.....	180.10	33.17
22 11 19 00-0513 EA	12" Long, 1/2" Antisiphon Freezeless Wall Faucet.....	189.19	35.17

22 11 19 00-0514	Keyed, Recessed Valve Boxes (22 11 19)		
22 11 19 00-0515 EA	8" x 8" x 4" Painted Steel, Keyed, Recessed Valve Box	220.43	31.50
22 11 19 00-0516 EA	8" x 8" x 6" Painted Steel, Keyed, Recessed Valve Box	242.92	31.50
22 11 19 00-0517 EA	8" x 8" x 8" Painted Steel, Keyed, Recessed Valve Box	276.65	31.50
22 11 19 00-0518 EA	12" x 12" x 4" Painted Steel, Keyed, Recessed Valve Box	275.16	42.00
22 11 19 00-0519 EA	12" x 12" x 6" Painted Steel, Keyed, Recessed Valve Box	308.90	42.00
22 11 19 00-0520 EA	12" x 12" x 8" Painted Steel, Keyed, Recessed Valve Box	319.02	42.00
22 11 19 00-0521 EA	8" x 8" x 4" Stainless Steel, Keyed, Recessed Valve Box	256.41	31.50
22 11 19 00-0522 EA	8" x 8" x 6" Stainless Steel, Keyed, Recessed Valve Box	305.89	31.50
22 11 19 00-0523 EA	8" x 8" x 8" Stainless Steel, Keyed, Recessed Valve Box	349.75	31.50
22 11 19 00-0524 EA	12" x 12" x 4" Stainless Steel, Keyed, Recessed Valve Box	338.14	42.00
22 11 19 00-0525 EA	12" x 12" x 6" Stainless Steel, Keyed, Recessed Valve Box	381.99	42.00
22 11 19 00-0526 EA	12" x 12" x 8" Stainless Steel, Keyed, Recessed Valve Box	398.86	42.00

22 11 23 Domestic Water Pumps (22 11)

22 11 23 13 Domestic Water Packaged Booster Pumps And Tanks (22 11 23)

Note: Includes motor starter and controls.

22 11 23 13-0001	Simplex Domestic Water Packaged Booster Pumps And Tank (22 11 23 13)		
22 11 23 13-0002 EA	1 HP Simplex Domestic Water Packaged Booster Pump And Tank	8,075.71	311.29
22 11 23 13-0003 EA	1.5 HP Simplex Domestic Water Packaged Booster Pump And Tank	8,454.64	418.30
22 11 23 13-0004 EA	2 HP Simplex Domestic Water Packaged Booster Pump And Tank	8,889.28	525.30
22 11 23 13-0005 EA	3 HP Simplex Domestic Water Packaged Booster Pump And Tank	9,296.05	632.31
22 11 23 13-0006 EA	5 HP Simplex Domestic Water Packaged Booster Pump And Tank	10,315.60	739.32
22 11 23 13-0007 EA	7.5 HP Simplex Domestic Water Packaged Booster Pump And Tank	11,474.42	846.32
22 11 23 13-0008 EA	10 HP Simplex Domestic Water Packaged Booster Pump And Tank	12,298.99	953.33

22 11 23 13-0009 Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator (22 11 23 13)

22 11 23 13-0010 EA	100 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	22,011.53	1,261.74
22 11 23 13-0011 EA	200 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	26,399.15	1,340.60
22 11 23 13-0012 EA	300 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	30,804.55	1,419.46

22 11 23 13-0013 Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator (22 11 23 13)

22 11 23 13-0014 EA	200 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	28,773.62	1,340.60
22 11 23 13-0015 EA	300 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	35,667.34	1,419.46
22 11 23 13-0016 EA	500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	44,214.20	1,577.18
22 11 23 13-0017 EA	750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	55,848.22	1,734.90
22 11 23 13-0018 EA	1,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	67,482.25	1,892.61
22 11 23 13-0019 EA	1,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	78,567.65	2,129.19
22 11 23 13-0020 EA	2,500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	89,653.06	2,365.76
22 11 23 13-0021 EA	3,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	100,738.47	2,602.34
22 11 23 13-0022 EA	5,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	112,021.02	2,917.77

22 11 23 23 Domestic-Water In-Line Pumps (22 11 23)

22 11 23 23-0001	Bronze In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)		
	Note: ODP motor.		
22 11 23 23-0002 EA	1/12 HP, 3/4" To 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL30B)	737.33	175.10
22 11 23 23-0003 EA	1/6 HP, 3/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL36B)	753.45	175.10
22 11 23 23-0004 EA	1/6 HP, 1" To 1-1/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL45B)	785.18	178.50
22 11 23 23-0005 EA	1/6 HP, 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL50B)	857.38	185.80
22 11 23 23-0006 EA	1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL75B)	1,437.75	193.97
22 11 23 23-0007 EA	1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2AB)	1,524.21	193.97
22 11 23 23-0008 EA	1/4 HP, 2-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2AB).....	2,222.17	213.57
22 11 23 23-0009 EA	1/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G LD3 AB)	2,325.98	234.63



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 23 23-0010 EA 1/3 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G HD3 AB).....	2,797.12	258.14
22 11 23 23-0011 EA 1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB35S).....	2,873.67	284.10
22 11 23 23-0012 EA 3/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB37S).....	3,143.62	312.02
22 11 23 23-0013 EA 1 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB38S).....	4,429.02	343.38
22 11 23 23-0014 EA 1-1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB40S).....	5,076.19	360.03
22 11 23 23-0015 Cast Iron In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)		
Note: ODP motor.		
22 11 23 23-0016 EA 1/12 HP, 3/4" To 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL30).....	762.72	175.10
22 11 23 23-0017 EA 1/6 HP, 3/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL36).....	1,190.45	175.10
22 11 23 23-0018 EA 1/6 HP, 1" To 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45).....	1,197.48	178.50
22 11 23 23-0019 EA 1/6 HP, 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45).....	1,218.77	182.39
22 11 23 23-0020 EA 1/6 HP, 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL50).....	1,225.56	185.80
22 11 23 23-0021 EA 1/6 HP, 2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL75).....	1,253.66	193.97
22 11 23 23-0022 EA 1/4 HP, 2-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2).....	1,515.22	213.57
22 11 23 23-0023 EA 1/3 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G HD30).....	1,942.38	258.14
22 11 23 23-0024 EA 1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD35S).....	2,055.10	284.10
22 11 23 23-0025 EA 3/4 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD37S).....	2,384.13	312.02
22 11 23 23-0026 EA 1 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD38S).....	3,160.98	343.38
22 11 23 23-0027 EA 1-1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD40S).....	3,665.81	360.03
22 11 23 23-0028 EA 2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF).....	3,330.84	378.16
22 11 23 23-0029 EA 3 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF).....	3,587.43	415.68
22 11 23 23-0030 EA 5 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF).....	3,941.33	440.85
22 11 23 23-0031 EA 7-1/2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF).....	4,928.52	489.83
22 11 23 23-0032 EA 10 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF).....	5,277.56	587.90
22 11 23 23-0033 EA 15 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF).....	6,685.44	686.06
22 12 Facility Potable-Water Storage Tanks (22 10)		
22 12 19 Facility Ground-Mounted, Potable-Water Storage Tanks (22 12)		
22 12 19 00-0001 Steel, Horizontal, Ground-Mounted Water Tanks (22 12 19)		
22 12 19 00-0002 EA 5,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	27,703.15	8,369.25
22 12 19 00-0003 EA 10,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	30,496.03	8,369.25
22 12 19 00-0004 EA 20,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	53,139.21	12,915.53
22 12 19 00-0005 EA 35,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	68,646.63	16,738.50
22 12 19 00-0006 Galvanized Steel, Flat Bottom, Vertical Storage Tanks (22 12 19)		
22 12 19 00-0007 EA 5,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	31,840.75	8,369.25
22 12 19 00-0008 EA 10,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	41,564.12	8,369.25
22 12 19 00-0009 EA 20,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	62,461.38	12,915.53
22 12 19 00-0010 EA 35,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	87,591.92	16,738.50
22 12 23 Facility Indoor Potable-Water Storage Tanks (22 12)		
22 12 23 13 Facility Steel, Indoor Potable-Water Storage Pressure Tanks (22 12 23)		
22 12 23 13-0001 Insulated Glass Lined Storage Tank (A.O. Smith TJ, TJV And TJH) (22 12 23 13)		
22 12 23 13-0002 EA 80 Gallon ASME Rated Tank, 150PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJ-80A).....	2,169.62	389.11
22 12 23 13-0003 EA 119 Gallon 150 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-120M).....	2,688.50	486.39
22 12 23 13-0004 EA 140 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-140A).....	4,908.23	535.03
22 12 23 13-0005 EA 200 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-200A).....	5,426.77	583.67
22 12 23 13-0006 EA 250 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-250A).....	10,701.37	632.31
22 12 23 13-0007 EA 350 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-350A).....	9,241.27	680.95
22 12 23 13-0008 EA 400 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-400A).....	15,798.17	729.59
22 12 23 13-0009 EA 500 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-500A).....	14,574.29	778.22
22 12 23 13-0010 EA 750 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-750A).....	15,830.03	826.86
22 12 23 13-0011 EA 1,000 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-1000A).....	18,844.96	875.50
22 12 23 13-0012 Uninsulated Glass Lined Storage Tank (A.O. Smith T) (22 12 23 13)		
22 12 23 13-0013 EA 80 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-80S).....	1,865.03	389.11
22 12 23 13-0014 EA 120 Gallon 150 PSA, Uninsulated, Glass Lined Water Storage Tank (T-120S).....	3,546.39	486.39
22 12 23 13-0015 EA 140 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-140A).....	4,423.81	535.03
22 12 23 13-0016 EA 200 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200S).....	5,456.75	583.67
22 12 23 13-0017 EA 200 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200A).....	4,647.42	583.67
22 12 23 13-0018 EA 250 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-250A).....	7,147.25	632.31
22 12 23 13-0019 EA 325 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-325A).....	7,734.75	680.95
22 12 23 13-0020 EA 350 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350S).....	7,367.08	680.95
22 12 23 13-0021 EA 350 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350A).....	6,731.08	680.95

22 Plumbing
22 10 Plumbing Piping
22 12 Facility Potable-Water Storage Tanks



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 12 23 13-0022 EA 400 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-400A).....	9,180.15	729.59
22 12 23 13-0023 EA 500 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-500A).....	9,956.77	778.22
22 12 23 13-0024 EA 750 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-750A).....	11,548.38	826.86
22 12 23 13-0025 EA 1,000 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-1000A).....	21,568.25	875.50

22 12 23 26 Facility Plastic, Indoor Potable-Water Storage Non-Pressure Tanks (22 12 23)

22 12 23 26-0001 Horizontal Non-Pressurized Polyethylene Tanks (22 12 23 26)
 Note: Excludes excavation and backfill.

22 12 23 26-0002 EA 100 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	570.41	218.88
<i>For Saddle Assembly, Add</i>	629.97	
22 12 23 26-0003 EA 150 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	667.92	255.36
<i>For Saddle Assembly, Add</i>	629.97	
22 12 23 26-0004 EA 200 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	789.88	291.83
<i>For Saddle Assembly, Add</i>	713.06	
22 12 23 26-0005 EA 300 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	955.82	328.31
<i>For Saddle Assembly, Add</i>	1,037.27	
22 12 23 26-0006 EA 335 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	1,139.69	364.80
<i>For Two Tie Down Bands, Add</i>	366.74	
22 12 23 26-0007 EA 535 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	1,468.97	489.67
<i>For Two Tie Down Bands, Add</i>	389.55	
22 12 23 26-0008 EA 1,035 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	2,159.85	571.28
<i>For Three Tie Down Bands, Add</i>	657.63	
22 12 23 26-0009 EA 1,335 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	3,078.08	652.90
<i>For Three Tie Down Bands, Add</i>	662.52	
22 12 23 26-0010 EA 1,635 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	3,823.92	734.51
<i>For Four Tie Down Bands, Add</i>	896.40	
22 12 23 26-0011 EA 2,035 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	4,469.49	816.11
<i>For Four Tie Down Bands, Add</i>	1,228.76	
22 12 23 26-0012 EA 2,635 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	6,328.97	897.73
<i>For Four Tie Down Bands, Add</i>	1,593.70	
22 12 23 26-0013 EA 3,135 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	7,317.55	979.34
<i>For Four Tie Down Bands, Add</i>	1,717.52	
22 12 23 26-0014 EA 4,035 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	10,488.41	1,305.78
<i>For Four Tie Down Bands, Add</i>	1,932.58	
22 12 23 26-0015 EA 5,025 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	13,482.75	1,305.78
<i>For Five Tie Down Bands, Add</i>	3,010.38	

22 12 23 26-0016 Vertical Non-Pressurized Polyethylene Tanks (22 12 23 26)

22 12 23 26-0017 EA 100 Gallon Vertical Non-Pressurized Polyethylene Tank.....	635.10	291.83
22 12 23 26-0018 EA 160 Gallon Vertical Non-Pressurized Polyethylene Tank.....	755.56	310.08
22 12 23 26-0019 EA 210 Gallon Vertical Non-Pressurized Polyethylene Tank.....	827.11	328.31
22 12 23 26-0020 EA 300 Gallon Vertical Non-Pressurized Polyethylene Tank.....	994.69	364.80
22 12 23 26-0021 EA 405 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,139.21	437.75
22 12 23 26-0022 EA 500 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,344.02	510.71
22 12 23 26-0023 EA 800 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,854.55	652.90
22 12 23 26-0024 EA 1,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	2,394.76	816.11
22 12 23 26-0025 EA 2,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	3,192.39	979.34
22 12 23 26-0026 EA 3,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	4,143.17	1,142.57
22 12 23 26-0027 EA 4,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	6,011.19	1,305.78
22 12 23 26-0028 EA 5,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	8,071.46	1,469.01
22 12 23 26-0029 EA 6,250 Gallon Vertical Non-Pressurized Polyethylene Tank.....	9,142.80	1,632.24
22 12 23 26-0030 EA 7,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	10,074.02	1,795.45
22 12 23 26-0031 EA 8,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	11,581.98	1,958.68
22 12 23 26-0032 EA 9,150 Gallon Vertical Non-Pressurized Polyethylene Tank.....	13,062.25	2,121.90
22 12 23 26-0033 EA 10,500 Gallon Vertical Non-Pressurized Polyethylene Tank.....	16,090.27	2,285.12
22 12 23 26-0034 EA 12,500 Gallon Vertical Non-Pressurized Polyethylene Tank.....	19,327.78	2,611.57

22 13 Facility Sanitary Sewerage (22 10)

22 13 16 Sanitary Waste and Vent Piping (22 13)

22 13 16 00-0001 Cast Iron Soil Pipe Assemblies (22 13 16)

22 13 16 00-0002 Underground Bell And Spigot Cast Iron Soil Pipe Assemblies (22 13 16 00-0001)
 Note: Includes fittings and gaskets. Fittings are assumed every 10'. Excludes excavation, backfill and compaction. Not for use where detail is available.

22 13 16 00-0003 LF 2" Underground Bell And Spigot Cast Iron Soil Pipe Assembly.....	29.55	6.13
<i>Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.</i>		
<i>For Work In Restricted Working Space, Add</i>	4.50	
22 13 16 00-0004 LF 3" Underground Bell And Spigot Cast Iron Soil Pipe Assembly.....	42.13	9.24
<i>Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.</i>		
<i>For Work In Restricted Working Space, Add</i>	6.10	
22 13 16 00-0005 LF 4" Underground Bell And Spigot Cast Iron Soil Pipe Assembly.....	54.63	11.77
<i>Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.</i>		
<i>For Work In Restricted Working Space, Add</i>	7.84	



Plumbing	22	22
Plumbing Piping	22 10	
Facility Sanitary Sewerage	22 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0006	LF		5" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....63.40 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		14.22
			<i>For Work In Restricted Working Space, Add</i>	8.00	
22 13 16 00-0007	LF		6" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....74.34 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		15.49
			<i>For Work In Restricted Working Space, Add</i>	8.89	
22 13 16 00-0008	LF		8" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....117.71 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		22.10
			<i>For Work In Restricted Working Space, Add</i>	12.52	
22 13 16 00-0009	LF		10" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....171.87 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		22.10
			<i>For Work In Restricted Working Space, Add</i>	14.17	
22 13 16 00-0010			Aboveground No Hub Cast Iron Soil Pipe Assemblies (22 13 16 00-0001) Note: Includes fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
22 13 16 00-0011	LF		1-1/2" Aboveground No Hub Cast Iron Soil Pipe Assembly .....27.30 Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		5.84
			<i>For Work In Restricted Working Space, Add</i>	5.12	
22 13 16 00-0012	LF		2" Aboveground No Hub Cast Iron Soil Pipe Assembly .....28.94 Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		6.23
			<i>For Work In Restricted Working Space, Add</i>	5.51	
22 13 16 00-0013	LF		3" Aboveground No Hub Cast Iron Soil Pipe Assembly .....36.92 Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		9.04
			<i>For Work In Restricted Working Space, Add</i>	6.75	
22 13 16 00-0014	LF		4" Aboveground No Hub Cast Iron Soil Pipe Assembly .....43.87 Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		11.77
			<i>For Work In Restricted Working Space, Add</i>	8.08	
22 13 16 00-0015	LF		5" Aboveground No Hub Cast Iron Soil Pipe Assembly .....57.12 Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		13.95
			<i>For Work In Restricted Working Space, Add</i>	9.46	
22 13 16 00-0016	LF		6" Aboveground No Hub Cast Iron Soil Pipe Assembly .....64.34 Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		15.22
			<i>For Work In Restricted Working Space, Add</i>	10.31	
22 13 16 00-0017	LF		8" Aboveground No Hub Cast Iron Soil Pipe Assembly .....100.38 Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		21.92
			<i>For Work In Restricted Working Space, Add</i>	14.27	
22 13 16 00-0018	LF		10" Aboveground No Hub Cast Iron Soil Pipe Assembly .....139.48 Note: Includes all fittings, couplings and hangers. Fittings are assumed every 20'. Not for use where detail is available.		24.90
			<i>For Work In Restricted Working Space, Add</i>	16.58	
22 13 16 00-0019			Bell And Spigot Cast Iron Soil Pipe And Fittings (22 13 16) Note: Service weight. ASTM A74 and CISPI 301 (Fitting Requirements).		
22 13 16 00-0020			Bell And Spigot Cast Iron Pipe (22 13 16 00-0019) Note: Excludes excavation, hangers, gaskets, and fittings.		
22 13 16 00-0021	LF		2" Bell And Spigot Cast Iron Pipe.....20.91		6.13
			<i>For Extra Heavy Pipe, Add</i>	4.89	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	0.46	
			<i>For Work In Restricted Working Space, Add</i>	2.78	
22 13 16 00-0022	LF		3" Bell And Spigot Cast Iron Pipe.....30.60		9.24
			<i>For Extra Heavy Pipe, Add</i>	7.01	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	0.70	
			<i>For Work In Restricted Working Space, Add</i>	4.17	
22 13 16 00-0023	LF		4" Bell And Spigot Cast Iron Pipe.....39.41		11.77
			<i>For Extra Heavy Pipe, Add</i>	9.12	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	0.88	
			<i>For Work In Restricted Working Space, Add</i>	5.31	
22 13 16 00-0024	LF		5" Bell And Spigot Cast Iron Pipe.....51.92		14.22
			<i>For Extra Heavy Pipe, Add</i>	12.87	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	1.06	
			<i>For Work In Restricted Working Space, Add</i>	6.38	
22 13 16 00-0025	LF		6" Bell And Spigot Cast Iron Pipe.....60.52		15.49
			<i>For Extra Heavy Pipe, Add</i>	15.68	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	1.16	
			<i>For Work In Restricted Working Space, Add</i>	6.96	
22 13 16 00-0026	LF		8" Bell And Spigot Cast Iron Pipe.....91.21		22.10
			<i>For Extra Heavy Pipe, Add</i>	24.38	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	1.66	
			<i>For Work In Restricted Working Space, Add</i>	9.95	

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0027 LF 10" Bell And Spigot Cast Iron Pipe.....	133.96	24.90
For Extra Heavy Pipe, Add	40.59	
For Above Ground Cast Iron Pipe Installation, Add	1.87	
For Work In Restricted Working Space, Add	11.19	
22 13 16 00-0028 LF 12" Bell And Spigot Cast Iron Pipe.....	190.14	33.20
For Extra Heavy Pipe, Add	58.97	
For Above Ground Cast Iron Pipe Installation, Add	2.49	
For Work In Restricted Working Space, Add	14.92	
22 13 16 00-0029 LF 15" Bell And Spigot Cast Iron Pipe.....	264.90	39.82
For Extra Heavy Pipe, Add	86.18	
For Above Ground Cast Iron Pipe Installation, Add	2.99	
For Work In Restricted Working Space, Add	17.91	
22 13 16 00-0030 Bell And Spigot Cast Iron Fittings (22 13 16 00-0019)		
22 13 16 00-0031 Bell And Spigot Cast Iron Long Sweeps (22 13 16 00-0030)		
22 13 16 00-0032 EA 2" Bell And Spigot Cast Iron Long Sweep.....	95.91	27.91
For Extra Heavy Fittings, Add	18.92	
For Above Ground Cast Iron Pipe Installation, Add	2.09	
For Work In Restricted Working Space, Add	12.55	
22 13 16 00-0033 EA 3" Bell And Spigot Cast Iron Long Sweep.....	162.29	35.12
For Extra Heavy Fittings, Add	38.40	
For Above Ground Cast Iron Pipe Installation, Add	2.63	
For Work In Restricted Working Space, Add	15.77	
22 13 16 00-0034 EA 4" Bell And Spigot Cast Iron Long Sweep.....	216.21	46.69
For Extra Heavy Fittings, Add	51.18	
For Above Ground Cast Iron Pipe Installation, Add	3.50	
For Work In Restricted Working Space, Add	20.99	
22 13 16 00-0035 EA 6" Bell And Spigot Cast Iron Long Sweep.....	336.37	60.15
For Extra Heavy Fittings, Add	86.17	
For Above Ground Cast Iron Pipe Installation, Add	4.51	
For Work In Restricted Working Space, Add	27.05	
22 13 16 00-0036 EA 8" Bell And Spigot Cast Iron Long Sweep.....	665.71	77.78
For Extra Heavy Fittings, Add	192.20	
For Above Ground Cast Iron Pipe Installation, Add	5.83	
For Work In Restricted Working Space, Add	34.97	
22 13 16 00-0037 EA 10" Bell And Spigot Cast Iron Long Sweep.....	910.48	95.69
For Extra Heavy Fittings, Add	268.45	
For Above Ground Cast Iron Pipe Installation, Add	7.17	
For Work In Restricted Working Space, Add	43.05	
22 13 16 00-0038 EA 12" Bell And Spigot Cast Iron Long Sweep.....	1,396.06	133.56
For Extra Heavy Fittings, Add	418.53	
For Above Ground Cast Iron Pipe Installation, Add	10.01	
For Work In Restricted Working Space, Add	60.08	
22 13 16 00-0039 EA 15" Bell And Spigot Cast Iron Long Sweep.....	2,591.63	185.97
For Extra Heavy Fittings, Add	809.48	
For Above Ground Cast Iron Pipe Installation, Add	13.94	
For Work In Restricted Working Space, Add	83.65	
22 13 16 00-0040 Bell And Spigot Cast Iron Short Sweeps (22 13 16 00-0030)		
22 13 16 00-0041 EA 2" Bell And Spigot Cast Iron Short Sweep.....	81.64	27.91
For Extra Heavy Fittings, Add	13.93	
For Above Ground Cast Iron Pipe Installation, Add	2.09	
For Work In Restricted Working Space, Add	12.55	
22 13 16 00-0042 EA 3" Bell And Spigot Cast Iron Short Sweep.....	138.33	35.12
For Extra Heavy Fittings, Add	30.01	
For Above Ground Cast Iron Pipe Installation, Add	2.63	
For Work In Restricted Working Space, Add	15.77	
22 13 16 00-0043 EA 4" Bell And Spigot Cast Iron Short Sweep.....	189.27	46.69
For Extra Heavy Fittings, Add	41.75	
For Above Ground Cast Iron Pipe Installation, Add	3.50	
For Work In Restricted Working Space, Add	20.99	
22 13 16 00-0044 EA 5" Bell And Spigot Cast Iron Short Sweep.....	282.90	51.13
For Extra Heavy Fittings, Add	72.19	
For Above Ground Cast Iron Pipe Installation, Add	3.83	
For Work In Restricted Working Space, Add	22.99	
22 13 16 00-0045 EA 6" Bell And Spigot Cast Iron Short Sweep.....	341.50	60.15
For Extra Heavy Fittings, Add	87.97	
For Above Ground Cast Iron Pipe Installation, Add	4.51	
For Work In Restricted Working Space, Add	27.05	
22 13 16 00-0046 EA 8" Bell And Spigot Cast Iron Short Sweep.....	562.46	77.78
For Extra Heavy Fittings, Add	156.06	
For Above Ground Cast Iron Pipe Installation, Add	5.83	
For Work In Restricted Working Space, Add	34.97	
22 13 16 00-0047 EA 10" Bell And Spigot Cast Iron Short Sweep.....	822.38	95.69
For Extra Heavy Fittings, Add	237.61	
For Above Ground Cast Iron Pipe Installation, Add	7.17	
For Work In Restricted Working Space, Add	43.05	
22 13 16 00-0048 EA 12" Bell And Spigot Cast Iron Short Sweep.....	1,363.20	133.56
For Extra Heavy Fittings, Add	407.03	
For Above Ground Cast Iron Pipe Installation, Add	10.01	
For Work In Restricted Working Space, Add	60.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0049 Bell And Spigot Cast Iron 1/4 Bends (22 13 16 00-0030)		
22 13 16 00-0050 EA 2" Bell And Spigot Cast Iron 1/4 Bend .....73.54	73.54	27.82
For Extra Heavy Fittings, Add	11.12	
For Above Ground Cast Iron Pipe Installation, Add	2.09	
For Work In Restricted Working Space, Add	12.53	
22 13 16 00-0051 EA 3" Bell And Spigot Cast Iron 1/4 Bend .....110.51	110.51	31.32
For Extra Heavy Fittings, Add	22.23	
For Above Ground Cast Iron Pipe Installation, Add	2.35	
For Work In Restricted Working Space, Add	14.10	
22 13 16 00-0052 EA 4" Bell And Spigot Cast Iron 1/4 Bend .....157.89	157.89	41.73
For Extra Heavy Fittings, Add	33.37	
For Above Ground Cast Iron Pipe Installation, Add	3.13	
For Work In Restricted Working Space, Add	18.77	
22 13 16 00-0053 EA 5" Bell And Spigot Cast Iron 1/4 Bend .....196.45	196.45	45.66
For Extra Heavy Fittings, Add	44.81	
For Above Ground Cast Iron Pipe Installation, Add	3.42	
For Work In Restricted Working Space, Add	20.52	
22 13 16 00-0054 EA 6" Bell And Spigot Cast Iron 1/4 Bend .....236.30	236.30	54.68
For Extra Heavy Fittings, Add	53.99	
For Above Ground Cast Iron Pipe Installation, Add	4.10	
For Work In Restricted Working Space, Add	24.62	
22 13 16 00-0055 EA 8" Bell And Spigot Cast Iron 1/4 Bend .....490.12	490.12	71.62
For Extra Heavy Fittings, Add	133.97	
For Above Ground Cast Iron Pipe Installation, Add	5.37	
For Work In Restricted Working Space, Add	32.21	
22 13 16 00-0056 EA 10" Bell And Spigot Cast Iron 1/4 Bend .....722.52	722.52	86.92
For Extra Heavy Fittings, Add	207.27	
For Above Ground Cast Iron Pipe Installation, Add	6.52	
For Work In Restricted Working Space, Add	39.09	
22 13 16 00-0057 EA 12" Bell And Spigot Cast Iron 1/4 Bend .....952.37	952.37	102.60
For Extra Heavy Fittings, Add	279.48	
For Above Ground Cast Iron Pipe Installation, Add	7.69	
For Work In Restricted Working Space, Add	46.16	
22 13 16 00-0058 EA 15" Bell And Spigot Cast Iron 1/4 Bend .....2,432.07	2,432.07	161.82
For Extra Heavy Fittings, Add	766.33	
For Above Ground Cast Iron Pipe Installation, Add	12.13	
For Work In Restricted Working Space, Add	72.77	
22 13 16 00-0059 Bell And Spigot Cast Iron 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0060 EA 2" Bell And Spigot Cast Iron 1/8 Bend .....67.21	67.21	27.91
For Extra Heavy Fittings, Add	8.88	
For Above Ground Cast Iron Pipe Installation, Add	2.09	
For Work In Restricted Working Space, Add	12.55	
22 13 16 00-0061 EA 3" Bell And Spigot Cast Iron 1/8 Bend .....104.94	104.94	35.12
For Extra Heavy Fittings, Add	18.33	
For Above Ground Cast Iron Pipe Installation, Add	2.63	
For Work In Restricted Working Space, Add	15.77	
22 13 16 00-0062 EA 4" Bell And Spigot Cast Iron 1/8 Bend .....149.43	149.43	46.69
For Extra Heavy Fittings, Add	27.81	
For Above Ground Cast Iron Pipe Installation, Add	3.50	
For Work In Restricted Working Space, Add	20.99	
22 13 16 00-0063 EA 5" Bell And Spigot Cast Iron 1/8 Bend .....185.81	185.81	57.15
For Extra Heavy Fittings, Add	35.06	
For Above Ground Cast Iron Pipe Installation, Add	4.28	
For Work In Restricted Working Space, Add	25.69	
22 13 16 00-0064 EA 6" Bell And Spigot Cast Iron 1/8 Bend .....214.85	214.85	63.71
For Extra Heavy Fittings, Add	41.75	
For Above Ground Cast Iron Pipe Installation, Add	4.78	
For Work In Restricted Working Space, Add	28.67	
22 13 16 00-0065 EA 8" Bell And Spigot Cast Iron 1/8 Bend .....427.13	427.13	85.80
For Extra Heavy Fittings, Add	104.47	
For Above Ground Cast Iron Pipe Installation, Add	6.43	
For Work In Restricted Working Space, Add	38.60	
22 13 16 00-0066 EA 10" Bell And Spigot Cast Iron 1/8 Bend .....597.15	597.15	105.86
For Extra Heavy Fittings, Add	153.44	
For Above Ground Cast Iron Pipe Installation, Add	7.94	
For Work In Restricted Working Space, Add	47.63	
22 13 16 00-0067 EA 12" Bell And Spigot Cast Iron 1/8 Bend .....964.35	964.35	137.28
For Extra Heavy Fittings, Add	265.50	
For Above Ground Cast Iron Pipe Installation, Add	10.29	
For Work In Restricted Working Space, Add	61.73	
22 13 16 00-0068 EA 15" Bell And Spigot Cast Iron 1/8 Bend .....1,846.41	1,846.41	161.82
For Extra Heavy Fittings, Add	561.34	
For Above Ground Cast Iron Pipe Installation, Add	12.13	
For Work In Restricted Working Space, Add	72.77	
22 13 16 00-0069 Bell And Spigot Cast Iron Wyes (22 13 16 00-0030)		
22 13 16 00-0070 EA 2" Bell And Spigot Cast Iron Wye.....117.95	117.95	62.36
For Extra Heavy Fittings, Add	8.54	
For Above Ground Cast Iron Pipe Installation, Add	4.68	
For Work In Restricted Working Space, Add	28.06	

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0071 EA 3" Bell And Spigot Cast Iron Wye.....	148.12	68.29
For Extra Heavy Fittings, Add	16.00	
For Above Ground Cast Iron Pipe Installation, Add	5.12	
For Work In Restricted Working Space, Add	30.72	
22 13 16 00-0072 EA 4" Bell And Spigot Cast Iron Wye.....	194.99	89.50
For Extra Heavy Fittings, Add	21.30	
For Above Ground Cast Iron Pipe Installation, Add	6.71	
For Work In Restricted Working Space, Add	40.24	
22 13 16 00-0073 EA 5" Bell And Spigot Cast Iron Wye.....	248.86	98.34
For Extra Heavy Fittings, Add	35.49	
For Above Ground Cast Iron Pipe Installation, Add	7.37	
For Work In Restricted Working Space, Add	44.24	
22 13 16 00-0074 EA 6" Bell And Spigot Cast Iron Wye.....	312.16	116.56
For Extra Heavy Fittings, Add	48.08	
For Above Ground Cast Iron Pipe Installation, Add	8.74	
For Work In Restricted Working Space, Add	52.43	
22 13 16 00-0075 EA 8" Bell And Spigot Cast Iron Wye.....	571.80	156.69
For Extra Heavy Fittings, Add	117.90	
For Above Ground Cast Iron Pipe Installation, Add	11.75	
For Work In Restricted Working Space, Add	70.48	
22 13 16 00-0076 EA 10" Bell And Spigot Cast Iron Wye.....	801.15	177.76
For Extra Heavy Fittings, Add	187.14	
For Above Ground Cast Iron Pipe Installation, Add	13.32	
For Work In Restricted Working Space, Add	79.94	
22 13 16 00-0077 EA 12" Bell And Spigot Cast Iron Wye.....	1,184.58	216.38
For Extra Heavy Fittings, Add	301.06	
For Above Ground Cast Iron Pipe Installation, Add	16.22	
For Work In Restricted Working Space, Add	97.32	
22 13 16 00-0078 EA 15" Bell And Spigot Cast Iron Wye.....	1,836.88	242.77
For Extra Heavy Fittings, Add	515.52	
For Above Ground Cast Iron Pipe Installation, Add	18.20	
For Work In Restricted Working Space, Add	109.19	
22 13 16 00-0079 Bell And Spigot Cast Iron Reducing Wyes (22 13 16 00-0030)		
22 13 16 00-0080 EA 3" x 2" Bell And Spigot Cast Iron Reducing Wye.....	185.53	65.17
For Extra Heavy Fittings, Add	30.73	
For Above Ground Cast Iron Pipe Installation, Add	4.89	
For Work In Restricted Working Space, Add	29.32	
22 13 16 00-0081 EA 4" x 2" Bell And Spigot Cast Iron Reducing Wye.....	225.86	80.55
For Extra Heavy Fittings, Add	36.77	
For Above Ground Cast Iron Pipe Installation, Add	6.04	
For Work In Restricted Working Space, Add	36.24	
22 13 16 00-0082 EA 4" x 3" Bell And Spigot Cast Iron Reducing Wye.....	251.78	82.59
For Extra Heavy Fittings, Add	44.76	
For Above Ground Cast Iron Pipe Installation, Add	6.19	
For Work In Restricted Working Space, Add	37.17	
22 13 16 00-0083 EA 6" x 2" Bell And Spigot Cast Iron Reducing Wye.....	369.65	104.44
For Extra Heavy Fittings, Add	74.60	
For Above Ground Cast Iron Pipe Installation, Add	7.83	
For Work In Restricted Working Space, Add	46.95	
22 13 16 00-0084 EA 6" x 3" Bell And Spigot Cast Iron Reducing Wye.....	379.23	106.36
For Extra Heavy Fittings, Add	76.91	
For Above Ground Cast Iron Pipe Installation, Add	7.97	
For Work In Restricted Working Space, Add	47.85	
22 13 16 00-0085 EA 6" x 4" Bell And Spigot Cast Iron Reducing Wye.....	396.96	113.47
For Extra Heavy Fittings, Add	79.39	
For Above Ground Cast Iron Pipe Installation, Add	8.51	
For Work In Restricted Working Space, Add	51.04	
22 13 16 00-0086 EA 8" x 2" Bell And Spigot Cast Iron Reducing Wye.....	584.23	126.00
For Extra Heavy Fittings, Add	138.37	
For Above Ground Cast Iron Pipe Installation, Add	9.45	
For Work In Restricted Working Space, Add	56.67	
22 13 16 00-0087 EA 8" x 3" Bell And Spigot Cast Iron Reducing Wye.....	610.66	128.42
For Extra Heavy Fittings, Add	146.36	
For Above Ground Cast Iron Pipe Installation, Add	9.63	
For Work In Restricted Working Space, Add	57.75	
22 13 16 00-0088 EA 8" x 4" Bell And Spigot Cast Iron Reducing Wye.....	625.40	134.49
For Extra Heavy Fittings, Add	148.31	
For Above Ground Cast Iron Pipe Installation, Add	10.08	
For Work In Restricted Working Space, Add	60.50	
22 13 16 00-0089 EA 8" x 6" Bell And Spigot Cast Iron Reducing Wye.....	738.92	149.60
For Extra Heavy Fittings, Add	180.11	
For Above Ground Cast Iron Pipe Installation, Add	11.22	
For Work In Restricted Working Space, Add	67.30	
22 13 16 00-0090 EA 10" x 3" Bell And Spigot Cast Iron Reducing Wye.....	911.01	140.18
For Extra Heavy Fittings, Add	245.29	
For Above Ground Cast Iron Pipe Installation, Add	10.51	
For Work In Restricted Working Space, Add	63.05	
22 13 16 00-0091 EA 10" x 4" Bell And Spigot Cast Iron Reducing Wye.....	947.68	146.34
For Extra Heavy Fittings, Add	254.88	
For Above Ground Cast Iron Pipe Installation, Add	10.97	
For Work In Restricted Working Space, Add	65.84	



Plumbing	22
Plumbing Piping	22 10
Facility Sanitary Sewerage	22 13

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0092 EA 10" x 6" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,036.78 277.97 12.13 72.77	161.82
22 13 16 00-0093 EA 10" x 8" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,370.70 389.69 12.86 77.19	171.61
22 13 16 00-0094 EA 12" x 4" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,410.79 403.73 12.86 77.19	171.61
22 13 16 00-0095 EA 12" x 6" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,468.37 416.34 13.94 83.65	185.97
22 13 16 00-0096 EA 12" x 8" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,724.21 501.06 14.63 87.78	195.20
22 13 16 00-0097 EA 12" x 10" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,095.80 628.06 15.07 90.40	200.99
22 13 16 00-0098 EA 15" x 4" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,465.03 1,113.31 14.21 85.24	189.52
22 13 16 00-0099 EA 15" x 6" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,616.34 1,158.07 15.38 92.27	205.09
22 13 16 00-0100 EA 15" x 8" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,690.46 1,179.39 16.04 96.23	213.95
22 13 16 00-0101 EA 15" x 10" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,776.39 1,205.67 16.58 99.48	221.23
22 13 16 00-0102 EA 15" x 12" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,871.86 1,232.32 17.55 105.29	234.10
22 13 16 00-0103 Bell And Spigot Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0104 EA 2" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	128.40 12.20 4.68 28.06	62.36
22 13 16 00-0105 EA 3" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	154.57 18.26 5.12 30.72	68.29
22 13 16 00-0106 EA 4" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	206.20 25.22 6.71 40.24	89.50
22 13 16 00-0107 EA 5" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	285.19 45.70 7.73 46.39	103.17
22 13 16 00-0108 EA 6" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	357.15 57.87 9.59 57.54	127.96
22 13 16 00-0109 EA 8" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	655.41 140.87 12.65 75.88	168.72
22 13 16 00-0110 EA 10" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	945.67 214.92 16.58 99.48	221.23
22 13 16 00-0111 EA 12" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,267.84 294.52 21.32 127.91	284.37

22 13 16 00-0112 Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bends (22 13 16 00-0030)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0113 EA 3" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	136.87	65.17
For Extra Heavy Fittings, Add	13.70	
For Above Ground Cast Iron Pipe Installation, Add	4.89	
For Work In Restricted Working Space, Add	29.32	
22 13 16 00-0114 EA 4" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	192.68	80.55
For Extra Heavy Fittings, Add	25.15	
For Above Ground Cast Iron Pipe Installation, Add	6.04	
For Work In Restricted Working Space, Add	36.24	
22 13 16 00-0115 EA 4" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	207.98	82.59
For Extra Heavy Fittings, Add	29.43	
For Above Ground Cast Iron Pipe Installation, Add	6.19	
For Work In Restricted Working Space, Add	37.17	
22 13 16 00-0116 EA 6" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	306.85	104.44
For Extra Heavy Fittings, Add	52.62	
For Above Ground Cast Iron Pipe Installation, Add	7.83	
For Work In Restricted Working Space, Add	46.95	
22 13 16 00-0117 EA 6" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	319.61	106.36
For Extra Heavy Fittings, Add	56.04	
For Above Ground Cast Iron Pipe Installation, Add	7.97	
For Work In Restricted Working Space, Add	47.85	
22 13 16 00-0118 EA 6" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	338.79	113.47
For Extra Heavy Fittings, Add	59.03	
For Above Ground Cast Iron Pipe Installation, Add	8.51	
For Work In Restricted Working Space, Add	51.04	
22 13 16 00-0119 EA 8" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	467.57	126.00
For Extra Heavy Fittings, Add	97.53	
For Above Ground Cast Iron Pipe Installation, Add	9.45	
For Work In Restricted Working Space, Add	56.67	
22 13 16 00-0120 EA 8" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	480.32	134.49
For Extra Heavy Fittings, Add	97.53	
For Above Ground Cast Iron Pipe Installation, Add	10.08	
For Work In Restricted Working Space, Add	60.50	
22 13 16 00-0121 EA 8" x 6" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	606.90	149.60
For Extra Heavy Fittings, Add	133.90	
For Above Ground Cast Iron Pipe Installation, Add	11.22	
For Work In Restricted Working Space, Add	67.30	
22 13 16 00-0122 Bell And Spigot Cast Iron Double Wyes (22 13 16 00-0030)		
22 13 16 00-0123 EA 2" Bell And Spigot Cast Iron Double Wye.....	208.24	74.61
For Extra Heavy Fittings, Add	33.75	
For Above Ground Cast Iron Pipe Installation, Add	5.59	
For Work In Restricted Working Space, Add	33.55	
22 13 16 00-0124 EA 3" Bell And Spigot Cast Iron Double Wye.....	302.87	94.06
For Extra Heavy Fittings, Add	56.66	
For Above Ground Cast Iron Pipe Installation, Add	7.05	
For Work In Restricted Working Space, Add	42.29	
22 13 16 00-0125 EA 4" Bell And Spigot Cast Iron Double Wye.....	410.86	118.97
For Extra Heavy Fittings, Add	81.35	
For Above Ground Cast Iron Pipe Installation, Add	8.92	
For Work In Restricted Working Space, Add	53.53	
22 13 16 00-0126 EA 6" Bell And Spigot Cast Iron Double Wye.....	784.11	179.08
For Extra Heavy Fittings, Add	180.46	
For Above Ground Cast Iron Pipe Installation, Add	13.43	
For Work In Restricted Working Space, Add	80.55	
22 13 16 00-0127 EA 8" Bell And Spigot Cast Iron Double Wye.....	1,572.50	211.80
For Extra Heavy Fittings, Add	439.25	
For Above Ground Cast Iron Pipe Installation, Add	15.88	
For Work In Restricted Working Space, Add	95.25	
22 13 16 00-0128 EA 10" Bell And Spigot Cast Iron Double Wye.....	2,084.29	236.98
For Extra Heavy Fittings, Add	605.15	
For Above Ground Cast Iron Pipe Installation, Add	17.77	
For Work In Restricted Working Space, Add	106.59	
22 13 16 00-0129 EA 12" Bell And Spigot Cast Iron Double Wye.....	1,444.22	284.37
For Extra Heavy Fittings, Add	356.25	
For Above Ground Cast Iron Pipe Installation, Add	21.32	
For Work In Restricted Working Space, Add	127.91	
22 13 16 00-0130 EA 15" Bell And Spigot Cast Iron Double Wye.....	4,076.63	298.46
For Extra Heavy Fittings, Add	1,270.13	
For Above Ground Cast Iron Pipe Installation, Add	22.39	
For Work In Restricted Working Space, Add	134.31	
22 13 16 00-0131 Bell And Spigot Cast Iron Reducing Double Wyes (22 13 16 00-0030)		
22 13 16 00-0132 EA 3" x 2" Bell And Spigot Cast Iron Reducing Double Wye.....	189.20	88.23
For Extra Heavy Fittings, Add	19.91	
For Above Ground Cast Iron Pipe Installation, Add	6.62	
For Work In Restricted Working Space, Add	39.69	
22 13 16 00-0133 EA 4" x 2" Bell And Spigot Cast Iron Reducing Double Wye.....	219.85	101.36
For Extra Heavy Fittings, Add	23.75	
For Above Ground Cast Iron Pipe Installation, Add	7.60	
For Work In Restricted Working Space, Add	45.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0134 EA 4" x 3" Bell And Spigot Cast Iron Reducing Double Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	238.08 27.51 7.97 47.84	106.32
22 13 16 00-0135 EA 6" x 2" Bell And Spigot Cast Iron Reducing Double Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	303.54 41.07 9.31 55.86	124.22
22 13 16 00-0136 EA 6" x 3" Bell And Spigot Cast Iron Reducing Double Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	321.81 44.97 9.67 58.00	128.96
22 13 16 00-0137 EA 6" x 4" Bell And Spigot Cast Iron Reducing Double Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	370.37 55.84 10.54 63.25	140.63
22 13 16 00-0138 EA 8" x 4" Bell And Spigot Cast Iron Reducing Double Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	598.90 123.99 12.23 73.39	163.22
22 13 16 00-0139 EA 8" x 6" Bell And Spigot Cast Iron Reducing Double Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	652.19 126.89 14.48 86.90	193.15
22 13 16 00-0140 EA 10" x 4" Bell And Spigot Cast Iron Reducing Double Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	638.00 131.67 13.09 78.54	174.59
22 13 16 00-0141 EA 10" x 6" Bell And Spigot Cast Iron Reducing Double Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	743.54 152.59 15.38 92.27	205.09
22 13 16 00-0142 EA 10" x 8" Bell And Spigot Cast Iron Reducing Double Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	916.51 203.46 16.76 100.56	223.56
22 13 16 00-0143 EA 12" x 6" Bell And Spigot Cast Iron Reducing Double Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	936.13 207.63 17.14 102.87	228.69
22 13 16 00-0144 EA 12" x 8" Bell And Spigot Cast Iron Reducing Double Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,197.07 288.40 18.65 111.92	248.83
22 13 16 00-0145 Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0030)</small>		
22 13 16 00-0146 EA 2" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	173.68 21.65 5.59 33.55	74.61
22 13 16 00-0147 EA 3" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	233.90 29.48 7.48 44.90	99.81
22 13 16 00-0148 EA 4" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	305.62 41.49 9.35 56.12	124.81
22 13 16 00-0149 EA 6" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	667.60 128.63 15.00 90.02	200.14
22 13 16 00-0150 Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0030)</small>		
22 13 16 00-0151 EA 3" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	231.92 34.22 6.71 40.24	89.50
22 13 16 00-0152 EA 4" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	275.20 43.12 7.60 45.60	101.36
22 13 16 00-0153 EA 4" x 3" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	308.95 48.94 8.46 50.74	112.85
22 13 16 00-0154 EA 6" x 4" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	616.18 137.32 11.19 67.15	149.29



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0155 Bell And Spigot Cast Iron Sanitary Tees (22 13 16 00-0030)		
22 13 16 00-0156 EA 2" Bell And Spigot Cast Iron Sanitary Tee.....	141.83	62.45
For Extra Heavy Fittings, Add	16.87	
For Above Ground Cast Iron Pipe Installation, Add	4.68	
For Work In Restricted Working Space, Add	28.09	
22 13 16 00-0157 EA 3" Bell And Spigot Cast Iron Sanitary Tee.....	161.27	68.29
For Extra Heavy Fittings, Add	20.60	
For Above Ground Cast Iron Pipe Installation, Add	5.12	
For Work In Restricted Working Space, Add	30.72	
22 13 16 00-0158 EA 4" Bell And Spigot Cast Iron Sanitary Tee.....	259.47	83.66
For Extra Heavy Fittings, Add	46.89	
For Above Ground Cast Iron Pipe Installation, Add	6.27	
For Work In Restricted Working Space, Add	37.65	
22 13 16 00-0159 EA 5" Bell And Spigot Cast Iron Sanitary Tee.....	374.95	90.96
For Extra Heavy Fittings, Add	83.48	
For Above Ground Cast Iron Pipe Installation, Add	6.82	
For Work In Restricted Working Space, Add	40.93	
22 13 16 00-0160 EA 6" Bell And Spigot Cast Iron Sanitary Tee.....	449.80	109.10
For Extra Heavy Fittings, Add	100.18	
For Above Ground Cast Iron Pipe Installation, Add	8.18	
For Work In Restricted Working Space, Add	49.07	
22 13 16 00-0161 EA 8" Bell And Spigot Cast Iron Sanitary Tee.....	968.26	143.17
For Extra Heavy Fittings, Add	263.76	
For Above Ground Cast Iron Pipe Installation, Add	10.73	
For Work In Restricted Working Space, Add	64.40	
22 13 16 00-0162 EA 10" Bell And Spigot Cast Iron Sanitary Tee.....	1,455.39	174.59
For Extra Heavy Fittings, Add	417.76	
For Above Ground Cast Iron Pipe Installation, Add	13.09	
For Work In Restricted Working Space, Add	78.54	
22 13 16 00-0163 EA 12" Bell And Spigot Cast Iron Sanitary Tee.....	2,172.05	205.09
For Extra Heavy Fittings, Add	652.57	
For Above Ground Cast Iron Pipe Installation, Add	15.38	
For Work In Restricted Working Space, Add	92.27	
22 13 16 00-0164 Bell And Spigot Cast Iron Reducing Sanitary Tees (22 13 16 00-0030)		
22 13 16 00-0165 EA 3" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee.....	190.10	65.17
For Extra Heavy Fittings, Add	32.33	
For Above Ground Cast Iron Pipe Installation, Add	4.89	
For Work In Restricted Working Space, Add	29.32	
22 13 16 00-0166 EA 4" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee.....	225.08	76.36
For Extra Heavy Fittings, Add	38.72	
For Above Ground Cast Iron Pipe Installation, Add	5.72	
For Work In Restricted Working Space, Add	34.34	
22 13 16 00-0167 EA 4" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee.....	235.74	76.36
For Extra Heavy Fittings, Add	42.45	
For Above Ground Cast Iron Pipe Installation, Add	5.72	
For Work In Restricted Working Space, Add	34.34	
22 13 16 00-0168 EA 6" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee.....	355.44	104.44
For Extra Heavy Fittings, Add	69.63	
For Above Ground Cast Iron Pipe Installation, Add	7.83	
For Work In Restricted Working Space, Add	46.95	
22 13 16 00-0169 EA 6" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee.....	370.09	106.36
For Extra Heavy Fittings, Add	73.71	
For Above Ground Cast Iron Pipe Installation, Add	7.97	
For Work In Restricted Working Space, Add	47.85	
22 13 16 00-0170 EA 6" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee.....	401.53	113.47
For Extra Heavy Fittings, Add	80.99	
For Above Ground Cast Iron Pipe Installation, Add	8.51	
For Work In Restricted Working Space, Add	51.04	
22 13 16 00-0171 EA 8" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee.....	685.79	134.49
For Extra Heavy Fittings, Add	169.45	
For Above Ground Cast Iron Pipe Installation, Add	10.08	
For Work In Restricted Working Space, Add	60.50	
22 13 16 00-0172 EA 8" x 6" Bell And Spigot Cast Iron Reducing Sanitary Tee.....	861.22	149.60
For Extra Heavy Fittings, Add	222.91	
For Above Ground Cast Iron Pipe Installation, Add	11.22	
For Work In Restricted Working Space, Add	67.30	
22 13 16 00-0173 Bell And Spigot Cast Iron Vent Tees (22 13 16 00-0030)		
22 13 16 00-0174 EA 2" Bell And Spigot Cast Iron Vent Tee.....	121.71	62.36
For Extra Heavy Fittings, Add	9.86	
For Above Ground Cast Iron Pipe Installation, Add	4.68	
For Work In Restricted Working Space, Add	28.06	
22 13 16 00-0175 EA 3" Bell And Spigot Cast Iron Vent Tee.....	151.42	68.29
For Extra Heavy Fittings, Add	17.16	
For Above Ground Cast Iron Pipe Installation, Add	5.12	
For Work In Restricted Working Space, Add	30.72	
22 13 16 00-0176 EA 4" Bell And Spigot Cast Iron Vent Tee.....	200.57	89.50
For Extra Heavy Fittings, Add	23.25	
For Above Ground Cast Iron Pipe Installation, Add	6.71	
For Work In Restricted Working Space, Add	40.24	



Plumbing	22	22
Plumbing Piping	22 10	
Facility Sanitary Sewerage	22 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0177 EA 5" Bell And Spigot Cast Iron Vent Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	253.73 34.69 7.73 46.39	103.17
22 13 16 00-0178 EA 6" Bell And Spigot Cast Iron Vent Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	319.49 44.69 9.59 57.54	127.96
22 13 16 00-0179 EA 8" Bell And Spigot Cast Iron Vent Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	550.06 104.00 12.65 75.88	168.72
22 13 16 00-0180 Bell And Spigot Cast Iron Tapped Sanitary Tees (22 13 16 00-0030)		
22 13 16 00-0181 EA 2" Bell And Spigot Cast Iron Tapped Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	125.00 11.01 4.68 28.06	62.36
22 13 16 00-0182 EA 3" Bell And Spigot Cast Iron Tapped Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	137.97 12.45 5.12 30.72	68.29
22 13 16 00-0183 EA 4" Bell And Spigot Cast Iron Tapped Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	177.99 15.35 6.71 40.24	89.50
22 13 16 00-0184 Bell And Spigot Cast Iron Tapped Sanitary Crosses (22 13 16 00-0030)		
22 13 16 00-0185 EA 2" Bell And Spigot Cast Iron Tapped Sanitary Cross <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	127.08 11.74 4.68 28.06	62.36
22 13 16 00-0186 EA 3" Bell And Spigot Cast Iron Tapped Sanitary Cross <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	141.93 13.84 5.12 30.72	68.29
22 13 16 00-0187 EA 4" Bell And Spigot Cast Iron Tapped Sanitary Cross <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	187.93 18.83 6.71 40.24	89.50
22 13 16 00-0188 Bell And Spigot Cast Iron Reducers (22 13 16 00-0030)		
22 13 16 00-0189 EA 3" x 2" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	70.39 6.23 2.63 15.77	35.12
22 13 16 00-0190 EA 4" x 2" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	88.11 6.52 3.47 20.85	46.30
22 13 16 00-0191 EA 4" x 3" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	94.19 8.47 3.50 20.99	46.69
22 13 16 00-0192 EA 6" x 2" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	118.02 12.31 4.14 24.86	55.23
22 13 16 00-0193 EA 6" x 3" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	123.47 13.84 4.20 25.18	55.96
22 13 16 00-0194 EA 6" x 4" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	127.45 14.64 4.28 25.69	57.15
22 13 16 00-0195 EA 8" x 2" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	165.47 27.02 4.41 26.48	58.87
22 13 16 00-0196 EA 8" x 3" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	186.92 27.30 5.45 32.68	72.65
22 13 16 00-0197 EA 8" x 4" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	191.84 28.03 5.59 33.53	74.52
22 13 16 00-0198 EA 8" x 6" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	198.13 28.54 5.83 34.97	77.78



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0199 EA 10" x 4" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	247.62 40.85 6.55 39.27	87.30
22 13 16 00-0200 EA 10" x 6" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	261.08 43.25 6.88 41.25	91.68
22 13 16 00-0201 EA 10" x 8" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	278.23 47.16 7.17 43.05	95.69
22 13 16 00-0202 EA 12" x 4" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	346.00 66.70 7.77 46.63	103.71
22 13 16 00-0203 EA 12" x 6" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	385.78 71.33 9.10 54.59	121.34
22 13 16 00-0204 EA 12" x 8" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	417.10 73.44 10.36 62.18	138.22
22 13 16 00-0205 EA 12" x 10" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	456.79 76.34 11.93 71.60	159.20
22 13 16 00-0206 EA 15" x 6" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	597.93 125.74 11.93 71.60	159.20
22 13 16 00-0207 EA 15" x 8" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	636.18 132.61 12.86 77.19	171.61
22 13 16 00-0208 EA 15" x 10" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	662.38 136.87 13.57 81.40	180.93
22 13 16 00-0209 EA 15" x 12" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	697.92 142.89 14.48 86.90	193.15
22 13 16 00-0210 Bell And Spigot Cast Iron P-Traps (22 13 16 00-0030)		
22 13 16 00-0211 EA 2" Bell And Spigot Cast Iron P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	72.29 10.66 2.09 12.55	27.91
22 13 16 00-0212 EA 3" Bell And Spigot Cast Iron P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	96.88 15.51 2.63 15.77	35.12
22 13 16 00-0213 EA 4" Bell And Spigot Cast Iron P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	132.04 21.72 3.50 20.99	46.69
22 13 16 00-0214 EA 5" Bell And Spigot Cast Iron P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	209.69 46.57 3.83 22.99	51.13
22 13 16 00-0215 EA 6" Bell And Spigot Cast Iron P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	281.78 67.07 4.51 27.05	60.15
22 13 16 00-0216 EA 8" Bell And Spigot Cast Iron P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	628.12 179.04 5.83 34.97	77.78
22 13 16 00-0217 EA 10" Bell And Spigot Cast Iron P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	696.14 193.43 7.17 43.05	95.69
22 13 16 00-0218 Bell And Spigot Cast Iron Deep Seal P-Traps (22 13 16 00-0030)		
22 13 16 00-0219 EA 2" Bell And Spigot Cast Iron Deep Seal P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	83.86 14.71 2.09 12.55	27.91



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0220 EA 3" Bell And Spigot Cast Iron Deep Seal P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	119.62 23.46 2.63 15.77	35.12
22 13 16 00-0221 EA 4" Bell And Spigot Cast Iron Deep Seal P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	174.32 36.52 3.50 20.99	46.69
22 13 16 00-0222 EA 5" Bell And Spigot Cast Iron Deep Seal P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	285.53 69.97 4.28 25.69	57.15
22 13 16 00-0223 EA 6" Bell And Spigot Cast Iron Deep Seal P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	302.92 72.58 4.78 28.67	63.71
22 13 16 00-0224 Bell And Spigot Cast Iron Running Traps With Single Vent (22 13 16 00-0030)		
22 13 16 00-0225 EA 3" x 3" Bell And Spigot Cast Iron Running Trap With Single Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	193.35 5.12 30.72	67.41
22 13 16 00-0226 EA 4" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	257.94 6.71 40.24	88.62
22 13 16 00-0227 EA 5" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	347.16 7.50 45.01	99.25
22 13 16 00-0228 EA 6" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	700.75 8.51 51.04	112.47
22 13 16 00-0229 EA 8" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,308.26 10.08 60.50	132.99
22 13 16 00-0230 EA 8" x 6" Bell And Spigot Cast Iron Running Trap With Single Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,499.14 11.22 67.30	148.39
22 13 16 00-0231 Bell And Spigot Cast Running Traps With Double Vent (22 13 16 00-0030)		
22 13 16 00-0232 EA 3" x 3" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	247.24 7.05 42.29	93.10
22 13 16 00-0233 EA 4" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	337.83 8.92 53.53	117.51
22 13 16 00-0234 EA 6" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	780.64 10.54 63.25	138.98
22 13 16 00-0235 EA 6" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	905.18 12.75 76.48	168.24
22 13 16 00-0236 EA 8" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,485.56 12.23 73.39	161.25
22 13 16 00-0237 EA 8" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,727.02 14.48 86.90	191.48
22 13 16 00-0238 EA 10" x 8" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,628.14 16.76 100.56	220.95
22 13 16 00-0239 EA 12" x 10" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,023.37 19.35 116.10	255.45
22 13 16 00-0240 EA 15" x 12" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	9,785.65 22.39 134.36	295.47
22 13 16 00-0241 Bell And Spigot Cast Iron Scission Joint Fittings (22 13 16 00-0030)		
22 13 16 00-0242 EA 2" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	150.41 2.09 12.52	
22 13 16 00-0243 EA 3" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	207.69 2.34 14.07	
22 13 16 00-0244 EA 4" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	239.65 3.14 18.84	
22 13 16 00-0245 EA 5" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	296.05 3.65 21.89	
22 13 16 00-0246 EA 6" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	359.53 4.41 26.44	

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0247	EA		8" Bell And Spigot Cast Iron Scission Joint Fitting .....682.13 For Above Ground Cast Iron Pipe Installation, Add 5.57 For Work In Restricted Working Space, Add 33.42		
22 13 16 00-0248			Cut And Prepare Existing In-Place Cast Iron Pipe (22 13 16 00-0019) Note: For use when connecting pipe to an existing in-place system.		
22 13 16 00-0249	EA		2", Cut And Prepare Existing In-Place Cast Iron Pipe .....11.62 For Above Ground Cast Iron Pipe Installation, Add 0.58 For Work In Restricted Working Space, Add 3.49		
22 13 16 00-0250	EA		3", Cut And Prepare Existing In-Place Cast Iron Pipe .....12.68 For Above Ground Cast Iron Pipe Installation, Add 0.63 For Work In Restricted Working Space, Add 3.80		
22 13 16 00-0251	EA		4", Cut And Prepare Existing In-Place Cast Iron Pipe .....15.85 For Above Ground Cast Iron Pipe Installation, Add 0.79 For Work In Restricted Working Space, Add 4.76		
22 13 16 00-0252	EA		6", Cut And Prepare Existing In-Place Cast Iron Pipe .....19.01 For Above Ground Cast Iron Pipe Installation, Add 0.95 For Work In Restricted Working Space, Add 5.70		
22 13 16 00-0253	EA		8", Cut And Prepare Existing In-Place Cast Iron Pipe .....25.35 For Above Ground Cast Iron Pipe Installation, Add 1.27 For Work In Restricted Working Space, Add 7.61		
22 13 16 00-0254	EA		10", Cut And Prepare Existing In-Place Cast Iron Pipe .....29.57 For Above Ground Cast Iron Pipe Installation, Add 1.48 For Work In Restricted Working Space, Add 8.87		
22 13 16 00-0255	EA		12", Cut And Prepare Existing In-Place Cast Iron Pipe .....34.86 For Above Ground Cast Iron Pipe Installation, Add 1.74 For Work In Restricted Working Space, Add 10.46		
22 13 16 00-0256	EA		15", Cut And Prepare Existing In-Place Cast Iron Pipe .....40.14 For Above Ground Cast Iron Pipe Installation, Add 2.01 For Work In Restricted Working Space, Add 12.04		
22 13 16 00-0257			Joint Material (22 13 16 00-0019) Note: Labor costs are included in the installation costs for fittings.		
22 13 16 00-0258	LB		Lead (1 LB/Diameter Inch) Joint Material .....5.40		
22 13 16 00-0259	LB		Oakum (1/8 LB/Diameter Inch) Joint Material .....10.26		
22 13 16 00-0260	EA		2" Dual Tite Rubber Gasket .....3.17		
22 13 16 00-0261	EA		3" Dual Tite Rubber Gasket .....4.34		
22 13 16 00-0262	EA		4" Dual Tite Rubber Gasket .....5.40		
22 13 16 00-0263	EA		6" Dual Tite Rubber Gasket .....8.95		
22 13 16 00-0264	EA		8" Dual Tite Rubber Gasket .....19.74		
22 13 16 00-0265	EA		10" Dual Tite Rubber Gasket .....30.28		
22 13 16 00-0266	EA		12" Dual Tite Rubber Gasket .....38.57		
22 13 16 00-0267	EA		15" Dual Tite Rubber Gasket .....45.81		
22 13 16 00-0268			No Hub Cast Iron Soil Pipe And Fittings (22 13 16) Note: Service Weight. Excludes hangers.		
22 13 16 00-0269			No Hub Cast Iron Pipe (22 13 16 00-0268) Note: Excludes couplings.		
22 13 16 00-0270	LF		1-1/2" No Hub Cast Iron Pipe .....14.27 For Below Ground Installation, Add 0.44 For Work In Restricted Working Space, Add 2.63	5.84	
22 13 16 00-0271	LF		2" No Hub Cast Iron Pipe .....15.19 For Below Ground Installation, Add 0.47 For Work In Restricted Working Space, Add 2.82	6.23	
22 13 16 00-0272	LF		3" No Hub Cast Iron Pipe .....21.63 For Below Ground Installation, Add 0.68 For Work In Restricted Working Space, Add 4.08	9.04	
22 13 16 00-0273	LF		4" No Hub Cast Iron Pipe .....28.07 For Below Ground Installation, Add 0.88 For Work In Restricted Working Space, Add 5.31	11.77	
22 13 16 00-0274	LF		5" No Hub Cast Iron Pipe .....35.37 For Below Ground Installation, Add 1.05 For Work In Restricted Working Space, Add 6.27	13.95	
22 13 16 00-0275	LF		6" No Hub Cast Iron Pipe .....40.66 For Below Ground Installation, Add 1.14 For Work In Restricted Working Space, Add 6.83	15.22	
22 13 16 00-0276	LF		8" No Hub Cast Iron Pipe .....61.44 For Below Ground Installation, Add 1.64 For Work In Restricted Working Space, Add 9.84	21.92	
22 13 16 00-0277	LF		10" No Hub Cast Iron Pipe .....84.79 For Below Ground Installation, Add 1.87 For Work In Restricted Working Space, Add 11.19	24.90	
22 13 16 00-0278			No Hub Cast Iron Fittings (22 13 16 00-0268)		
22 13 16 00-0279			No Hub Cast Iron Long Sweeps (22 13 16 00-0278)		
22 13 16 00-0280	EA		1-1/2" No Hub Cast Iron Long Sweep .....55.72 For Below Ground Installation, Add 2.07 For Work In Restricted Working Space, Add 12.42	27.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0281 EA 2" No Hub Cast Iron Long Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	56.08 2.07 12.42	27.63
22 13 16 00-0282 EA 3" No Hub Cast Iron Long Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	65.86 2.37 14.24	31.61
22 13 16 00-0283 EA 4" No Hub Cast Iron Long Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	90.19 3.14 18.83	41.83
22 13 16 00-0284 EA 5" No Hub Cast Iron Long Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	119.48 3.45 20.69	46.02
22 13 16 00-0285 EA 6" No Hub Cast Iron Long Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	141.86 4.12 24.70	54.87
22 13 16 00-0286 EA 8" No Hub Cast Iron Long Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	269.37 5.33 31.98	71.07
22 13 16 00-0287 No Hub Cast Iron Reducing Long Sweeps (22 13 16 00-0278)		
22 13 16 00-0288 EA 3" x 2" No Hub Cast Iron Reducing Long Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	81.02 2.37 14.24	31.61
22 13 16 00-0289 EA 4" x 3" No Hub Cast Iron Reducing Long Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	119.09 3.14 18.83	41.83
22 13 16 00-0290 No Hub Cast Iron Short Sweeps (22 13 16 00-0278)		
22 13 16 00-0291 EA 2" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	53.03 2.07 12.42	27.63
22 13 16 00-0292 EA 3" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	63.44 2.37 14.24	31.61
22 13 16 00-0293 EA 4" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	88.93 3.14 18.83	41.83
22 13 16 00-0294 EA 5" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	119.96 3.45 20.69	46.02
22 13 16 00-0295 EA 6" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	134.46 4.12 24.70	54.87
22 13 16 00-0296 EA 8" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	247.01 5.33 31.98	71.07
22 13 16 00-0297 EA 10" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	396.21 7.46 44.77	99.52
22 13 16 00-0298 No Hub Cast Iron 1/4 Bends (22 13 16 00-0278)		
22 13 16 00-0299 EA 1-1/2" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	48.74 1.99 11.91	26.46
22 13 16 00-0300 EA 2" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	50.93 2.07 12.42	27.63
22 13 16 00-0301 EA 3" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	60.04 2.37 14.24	31.61
22 13 16 00-0302 EA 4" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	81.41 3.14 18.83	41.83
22 13 16 00-0303 EA 5" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	110.62 3.45 20.69	46.02
22 13 16 00-0304 EA 6" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	128.48 4.12 24.70	54.87
22 13 16 00-0305 EA 8" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	229.59 5.33 31.98	71.07
22 13 16 00-0306 No Hub Cast Iron 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0307 EA 1-1/2" No Hub Cast Iron 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	46.80 1.99 11.91	26.46
22 13 16 00-0308 EA 2" No Hub Cast Iron 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	48.63 2.07 12.42	27.63



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0309 EA 3" No Hub Cast Iron 1/8 Bend.....	57.78	31.61
For Below Ground Installation, Add	2.37	
For Work In Restricted Working Space, Add	14.24	
22 13 16 00-0310 EA 4" No Hub Cast Iron 1/8 Bend.....	76.34	41.83
For Below Ground Installation, Add	3.14	
For Work In Restricted Working Space, Add	18.83	
22 13 16 00-0311 EA 6" No Hub Cast Iron 1/8 Bend.....	123.64	61.78
For Below Ground Installation, Add	4.63	
For Work In Restricted Working Space, Add	27.79	
22 13 16 00-0312 EA 8" No Hub Cast Iron 1/8 Bend.....	204.10	81.13
For Below Ground Installation, Add	6.08	
For Work In Restricted Working Space, Add	36.48	
22 13 16 00-0313 EA 10" No Hub Cast Iron 1/8 Bend.....	305.28	99.81
For Below Ground Installation, Add	7.48	
For Work In Restricted Working Space, Add	44.90	
22 13 16 00-0314 No Hub Cast Iron Wyes <small>(22 13 16 00-0278)</small>		
22 13 16 00-0315 EA 1-1/2" No Hub Cast Iron Wye.....	74.95	41.63
For Below Ground Installation, Add	3.12	
For Work In Restricted Working Space, Add	18.71	
22 13 16 00-0316 EA 2" No Hub Cast Iron Wye.....	97.34	56.42
For Below Ground Installation, Add	4.23	
For Work In Restricted Working Space, Add	25.38	
22 13 16 00-0317 EA 3" No Hub Cast Iron Wye.....	110.06	61.78
For Below Ground Installation, Add	4.63	
For Work In Restricted Working Space, Add	27.79	
22 13 16 00-0318 EA 4" No Hub Cast Iron Wye.....	149.87	81.13
For Below Ground Installation, Add	6.08	
For Work In Restricted Working Space, Add	36.48	
22 13 16 00-0319 EA 5" No Hub Cast Iron Wye.....	195.47	89.59
For Below Ground Installation, Add	6.72	
For Work In Restricted Working Space, Add	40.29	
22 13 16 00-0320 EA 6" No Hub Cast Iron Wye.....	231.97	106.36
For Below Ground Installation, Add	7.97	
For Work In Restricted Working Space, Add	47.85	
22 13 16 00-0321 EA 8" No Hub Cast Iron Wye.....	383.49	142.23
For Below Ground Installation, Add	10.66	
For Work In Restricted Working Space, Add	63.95	
22 13 16 00-0322 EA 10" No Hub Cast Iron Wye.....	605.62	157.99
For Below Ground Installation, Add	11.84	
For Work In Restricted Working Space, Add	71.06	
22 13 16 00-0323 No Hub Cast Iron Reducing Wyes <small>(22 13 16 00-0278)</small>		
22 13 16 00-0324 EA 3" x 1-1/2" No Hub Cast Iron Reducing Wye.....	94.47	53.89
For Below Ground Installation, Add	4.04	
For Work In Restricted Working Space, Add	24.22	
22 13 16 00-0325 EA 3" x 2" No Hub Cast Iron Reducing Wye.....	106.38	61.78
For Below Ground Installation, Add	4.63	
For Work In Restricted Working Space, Add	27.79	
22 13 16 00-0326 EA 4" x 2" No Hub Cast Iron Reducing Wye.....	119.98	68.29
For Below Ground Installation, Add	5.12	
For Work In Restricted Working Space, Add	30.72	
22 13 16 00-0327 EA 4" x 3" No Hub Cast Iron Reducing Wye.....	137.32	75.88
For Below Ground Installation, Add	5.69	
For Work In Restricted Working Space, Add	34.13	
22 13 16 00-0328 EA 6" x 2" No Hub Cast Iron Reducing Wye.....	174.80	90.49
For Below Ground Installation, Add	6.79	
For Work In Restricted Working Space, Add	40.72	
22 13 16 00-0329 EA 6" x 3" No Hub Cast Iron Reducing Wye.....	185.83	94.60
For Below Ground Installation, Add	7.09	
For Work In Restricted Working Space, Add	42.53	
22 13 16 00-0330 EA 6" x 4" No Hub Cast Iron Reducing Wye.....	213.97	110.55
For Below Ground Installation, Add	8.29	
For Work In Restricted Working Space, Add	49.71	
22 13 16 00-0331 EA 8" x 4" No Hub Cast Iron Reducing Wye.....	265.17	111.82
For Below Ground Installation, Add	8.38	
For Work In Restricted Working Space, Add	50.30	
22 13 16 00-0332 EA 8" x 6" No Hub Cast Iron Reducing Wye.....	304.66	122.92
For Below Ground Installation, Add	9.21	
For Work In Restricted Working Space, Add	55.27	
22 13 16 00-0333 EA 10" x 4" No Hub Cast Iron Reducing Wye.....	451.37	130.95
For Below Ground Installation, Add	9.82	
For Work In Restricted Working Space, Add	58.91	
22 13 16 00-0334 EA 10" x 6" No Hub Cast Iron Reducing Wye.....	477.00	140.18
For Below Ground Installation, Add	10.51	
For Work In Restricted Working Space, Add	63.05	
22 13 16 00-0335 EA 10" x 8" No Hub Cast Iron Reducing Wye.....	544.82	149.69
For Below Ground Installation, Add	11.22	
For Work In Restricted Working Space, Add	67.32	
22 13 16 00-0336 No Hub Cast Iron Combination Wye And 1/8 Bends <small>(22 13 16 00-0278)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0337 EA 1-1/2" No Hub Cast Iron Combination Wye And 1/8 Bend.....	85.34	48.45
<i>For Below Ground Installation, Add</i>	3.63	
<i>For Work In Restricted Working Space, Add</i>	21.78	
22 13 16 00-0338 EA 2" No Hub Cast Iron Combination Wye And 1/8 Bend.....	97.85	56.42
<i>For Below Ground Installation, Add</i>	4.23	
<i>For Work In Restricted Working Space, Add</i>	25.38	
22 13 16 00-0339 EA 3" No Hub Cast Iron Combination Wye And 1/8 Bend.....	113.94	61.78
<i>For Below Ground Installation, Add</i>	4.63	
<i>For Work In Restricted Working Space, Add</i>	27.79	
22 13 16 00-0340 EA 4" No Hub Cast Iron Combination Wye And 1/8 Bend.....	160.83	81.13
<i>For Below Ground Installation, Add</i>	6.08	
<i>For Work In Restricted Working Space, Add</i>	36.48	
22 13 16 00-0341 EA 6" No Hub Cast Iron Combination Wye And 1/8 Bend.....	285.84	124.81
<i>For Below Ground Installation, Add</i>	9.35	
<i>For Work In Restricted Working Space, Add</i>	56.12	
22 13 16 00-0342 EA 8" No Hub Cast Iron Combination Wye And 1/8 Bend.....	487.90	160.12
<i>For Below Ground Installation, Add</i>	12.00	
<i>For Work In Restricted Working Space, Add</i>	72.02	
22 13 16 00-0343 EA 10" No Hub Cast Iron Combination Wye And 1/8 Bend.....	574.77	193.58
<i>For Below Ground Installation, Add</i>	14.51	
<i>For Work In Restricted Working Space, Add</i>	87.06	
22 13 16 00-0344 No Hub Cast Iron Reducing Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0345 EA 2" x 1-1/2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	98.49	56.42
<i>For Below Ground Installation, Add</i>	4.23	
<i>For Work In Restricted Working Space, Add</i>	25.38	
22 13 16 00-0346 EA 3" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	108.32	61.78
<i>For Below Ground Installation, Add</i>	4.63	
<i>For Work In Restricted Working Space, Add</i>	27.79	
22 13 16 00-0347 EA 4" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	123.86	68.29
<i>For Below Ground Installation, Add</i>	5.12	
<i>For Work In Restricted Working Space, Add</i>	30.72	
22 13 16 00-0348 EA 4" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	141.09	75.88
<i>For Below Ground Installation, Add</i>	5.69	
<i>For Work In Restricted Working Space, Add</i>	34.13	
22 13 16 00-0349 EA 6" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	186.09	90.49
<i>For Below Ground Installation, Add</i>	6.79	
<i>For Work In Restricted Working Space, Add</i>	40.72	
22 13 16 00-0350 EA 6" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	205.55	94.60
<i>For Below Ground Installation, Add</i>	7.09	
<i>For Work In Restricted Working Space, Add</i>	42.53	
22 13 16 00-0351 EA 6" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	231.23	110.55
<i>For Below Ground Installation, Add</i>	8.29	
<i>For Work In Restricted Working Space, Add</i>	49.71	
22 13 16 00-0352 EA 8" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	297.44	111.82
<i>For Below Ground Installation, Add</i>	8.38	
<i>For Work In Restricted Working Space, Add</i>	50.30	
22 13 16 00-0353 EA 8" x 6" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	378.41	122.92
<i>For Below Ground Installation, Add</i>	9.21	
<i>For Work In Restricted Working Space, Add</i>	55.27	
22 13 16 00-0354 No Hub Cast Iron Double Wyes (22 13 16 00-0278)		
22 13 16 00-0355 EA 2" No Hub Cast Iron Double Wye.....	122.93	70.14
<i>For Below Ground Installation, Add</i>	5.26	
<i>For Work In Restricted Working Space, Add</i>	31.55	
22 13 16 00-0356 EA 3" No Hub Cast Iron Double Wye.....	160.78	85.42
<i>For Below Ground Installation, Add</i>	6.40	
<i>For Work In Restricted Working Space, Add</i>	38.40	
22 13 16 00-0357 EA 4" No Hub Cast Iron Double Wye.....	207.43	93.39
<i>For Below Ground Installation, Add</i>	7.00	
<i>For Work In Restricted Working Space, Add</i>	41.99	
22 13 16 00-0358 EA 6" No Hub Cast Iron Double Wye.....	317.16	134.07
<i>For Below Ground Installation, Add</i>	10.05	
<i>For Work In Restricted Working Space, Add</i>	60.28	
22 13 16 00-0359 EA 8" No Hub Cast Iron Double Wye.....	586.08	180.93
<i>For Below Ground Installation, Add</i>	13.57	
<i>For Work In Restricted Working Space, Add</i>	81.40	
22 13 16 00-0360 No Hub Cast Iron Reducing Double Wyes (22 13 16 00-0278)		
22 13 16 00-0361 EA 3" x 2" No Hub Cast Iron Double Wye.....	144.61	77.72
<i>For Below Ground Installation, Add</i>	5.83	
<i>For Work In Restricted Working Space, Add</i>	34.95	
22 13 16 00-0362 EA 4" x 2" No Hub Cast Iron Double Wye.....	171.95	89.50
<i>For Below Ground Installation, Add</i>	6.71	
<i>For Work In Restricted Working Space, Add</i>	40.25	
22 13 16 00-0363 EA 4" x 3" No Hub Cast Iron Double Wye.....	188.88	97.57
<i>For Below Ground Installation, Add</i>	7.31	
<i>For Work In Restricted Working Space, Add</i>	43.88	
22 13 16 00-0364 EA 6" x 4" No Hub Cast Iron Double Wye.....	271.47	118.20
<i>For Below Ground Installation, Add</i>	8.86	
<i>For Work In Restricted Working Space, Add</i>	53.16	

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0365			No Hub Cast Iron Double Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0366	EA		2" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....	157.49	84.25
			<i>For Below Ground Installation, Add</i>	6.32	
			<i>For Work In Restricted Working Space, Add</i>	37.90	
22 13 16 00-0367	EA		3" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....	188.23	93.39
			<i>For Below Ground Installation, Add</i>	7.00	
			<i>For Work In Restricted Working Space, Add</i>	41.99	
22 13 16 00-0368	EA		4" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....	277.46	123.64
			<i>For Below Ground Installation, Add</i>	9.27	
			<i>For Work In Restricted Working Space, Add</i>	55.59	
22 13 16 00-0369	EA		6" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....	393.72	190.86
			<i>For Below Ground Installation, Add</i>	14.31	
			<i>For Work In Restricted Working Space, Add</i>	85.84	
22 13 16 00-0370			No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0371	EA		3" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	144.83	72.47
			<i>For Below Ground Installation, Add</i>	5.43	
			<i>For Work In Restricted Working Space, Add</i>	32.61	
22 13 16 00-0372	EA		4" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	167.98	84.25
			<i>For Below Ground Installation, Add</i>	6.32	
			<i>For Work In Restricted Working Space, Add</i>	37.90	
22 13 16 00-0373	EA		4" x 3" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	198.52	92.03
			<i>For Below Ground Installation, Add</i>	6.90	
			<i>For Work In Restricted Working Space, Add</i>	41.40	
22 13 16 00-0374			No Hub Cast Iron Sanitary Tees (22 13 16 00-0278)		
22 13 16 00-0375	EA		1-1/2" No Hub Cast Iron Sanitary Tee.....	73.14	40.76
			<i>For Below Ground Installation, Add</i>	3.06	
			<i>For Work In Restricted Working Space, Add</i>	18.35	
22 13 16 00-0376	EA		2" No Hub Cast Iron Sanitary Tee.....	97.97	56.42
			<i>For Below Ground Installation, Add</i>	4.23	
			<i>For Work In Restricted Working Space, Add</i>	25.38	
22 13 16 00-0377	EA		3" No Hub Cast Iron Sanitary Tee.....	108.63	61.78
			<i>For Below Ground Installation, Add</i>	4.63	
			<i>For Work In Restricted Working Space, Add</i>	27.79	
22 13 16 00-0378	EA		4" No Hub Cast Iron Sanitary Tee.....	146.62	81.13
			<i>For Below Ground Installation, Add</i>	6.08	
			<i>For Work In Restricted Working Space, Add</i>	36.48	
22 13 16 00-0379	EA		5" No Hub Cast Iron Sanitary Tee.....	196.15	89.59
			<i>For Below Ground Installation, Add</i>	6.72	
			<i>For Work In Restricted Working Space, Add</i>	40.29	
22 13 16 00-0380	EA		6" No Hub Cast Iron Sanitary Tee.....	231.50	106.36
			<i>For Below Ground Installation, Add</i>	7.97	
			<i>For Work In Restricted Working Space, Add</i>	47.85	
22 13 16 00-0381	EA		8" No Hub Cast Iron Sanitary Tee.....	423.51	142.23
			<i>For Below Ground Installation, Add</i>	10.66	
			<i>For Work In Restricted Working Space, Add</i>	63.95	
22 13 16 00-0382			No Hub Cast Iron Reducing Sanitary Tees (22 13 16 00-0278)		
22 13 16 00-0383	EA		2" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee.....	82.37	46.01
			<i>For Below Ground Installation, Add</i>	3.45	
			<i>For Work In Restricted Working Space, Add</i>	20.70	
22 13 16 00-0384	EA		3" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee.....	95.58	53.89
			<i>For Below Ground Installation, Add</i>	4.04	
			<i>For Work In Restricted Working Space, Add</i>	24.22	
22 13 16 00-0385	EA		3" x 2" No Hub Cast Iron Reducing Sanitary Tee.....	99.44	56.42
			<i>For Below Ground Installation, Add</i>	4.23	
			<i>For Work In Restricted Working Space, Add</i>	25.38	
22 13 16 00-0386	EA		3" x 4" No Hub Cast Iron Reducing Sanitary Tee.....	114.76	56.42
			<i>For Below Ground Installation, Add</i>	4.23	
			<i>For Work In Restricted Working Space, Add</i>	25.38	
22 13 16 00-0387	EA		4" x 2" No Hub Cast Iron Reducing Sanitary Tee.....	133.49	76.36
			<i>For Below Ground Installation, Add</i>	5.72	
			<i>For Work In Restricted Working Space, Add</i>	34.34	
22 13 16 00-0388	EA		4" x 3" No Hub Cast Iron Reducing Sanitary Tee.....	137.21	76.36
			<i>For Below Ground Installation, Add</i>	5.72	
			<i>For Work In Restricted Working Space, Add</i>	34.34	
22 13 16 00-0389	EA		5" x 2" No Hub Cast Iron Reducing Sanitary Tee.....	171.82	85.12
			<i>For Below Ground Installation, Add</i>	6.38	
			<i>For Work In Restricted Working Space, Add</i>	38.28	
22 13 16 00-0390	EA		5" x 3" No Hub Cast Iron Reducing Sanitary Tee.....	177.01	85.12
			<i>For Below Ground Installation, Add</i>	6.38	
			<i>For Work In Restricted Working Space, Add</i>	38.28	
22 13 16 00-0391	EA		5" x 4" No Hub Cast Iron Reducing Sanitary Tee.....	177.64	85.12
			<i>For Below Ground Installation, Add</i>	6.38	
			<i>For Work In Restricted Working Space, Add</i>	38.28	
22 13 16 00-0392	EA		6" x 4" No Hub Cast Iron Reducing Sanitary Tee.....	184.41	88.68
			<i>For Below Ground Installation, Add</i>	6.65	
			<i>For Work In Restricted Working Space, Add</i>	39.87	



Plumbing	22	22
Plumbing Piping	22 10	
Facility Sanitary Sewerage	22 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0393 EA 8" x 6" No Hub Cast Iron Reducing Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	336.52 8.99 53.94	119.94
22 13 16 00-0394 No Hub Cast Iron Sanitary Tapped Tees (22 13 16 00-0278)		
22 13 16 00-0395 EA 2" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	54.81 2.07 12.42	27.63
22 13 16 00-0396 EA 3" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	63.56 2.37 14.24	31.61
22 13 16 00-0397 EA 4" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	79.23 3.14 18.83	41.83
22 13 16 00-0398 No Hub Cast Iron Cleanout Tees (22 13 16 00-0278)		
22 13 16 00-0399 EA 2" No Hub Cast Iron Cleanout Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	52.47 2.07 12.42	27.63
22 13 16 00-0400 EA 3" No Hub Cast Iron Cleanout Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	65.26 2.37 14.24	31.61
22 13 16 00-0401 EA 4" No Hub Cast Iron Cleanout Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	94.07 3.14 18.83	41.83
22 13 16 00-0402 EA 6" No Hub Cast Iron Cleanout Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	153.72 4.63 27.79	61.78
22 13 16 00-0403 No Hub Cast Iron Two-Way Cleanout Tees (22 13 16 00-0278)		
22 13 16 00-0404 EA 4" No Hub Cast Iron Single Two-Way Cleanout Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	211.02 6.08 36.48	81.13
22 13 16 00-0405 EA 4" No Hub Cast Iron Double Two-Way Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	267.85 9.24 55.45	123.25
22 13 16 00-0406 No Hub Cast Iron Cleanout Plugs (22 13 16 00-0278)		
22 13 16 00-0407 EA 2" No Hub Cast Iron Cleanout Plug..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	46.10 2.07 12.42	27.63
22 13 16 00-0408 EA 3" No Hub Cast Iron Cleanout Plug..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	54.85 2.37 14.24	31.61
22 13 16 00-0409 EA 4" No Hub Cast Iron Cleanout Plug..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	76.81 3.14 18.83	41.83
22 13 16 00-0410 EA 6" No Hub Cast Iron Cleanout Plug..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	118.89 4.63 27.79	61.78
22 13 16 00-0411 EA 8" No Hub Cast Iron Cleanout Plug..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	157.66 6.08 36.48	81.13
22 13 16 00-0412 No Hub Cast Iron Sanitary Crosses (22 13 16 00-0278)		
22 13 16 00-0413 EA 1-1/2" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	97.90 4.09 24.53	54.48
22 13 16 00-0414 EA 2" No Hub Cast Iron Sanitary Cross..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	104.78 4.23 25.38	56.42
22 13 16 00-0415 EA 3" No Hub Cast Iron Sanitary Cross..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	124.43 4.63 27.79	61.78
22 13 16 00-0416 EA 4" No Hub Cast Iron Sanitary Cross..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	181.34 6.08 36.48	81.13
22 13 16 00-0417 No Hub Cast Iron Reducing Sanitary Crosses (22 13 16 00-0278)		
22 13 16 00-0418 EA 3" x 2" No Hub Cast Iron Sanitary Cross..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	137.25 5.43 32.60	72.47
22 13 16 00-0419 EA 4" x 2" No Hub Cast Iron Sanitary Cross..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	152.25 5.59 33.56	74.61



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0420 EA 4" x 3" No Hub Cast Iron Sanitary Cross.....	165.49	77.92
For Below Ground Installation, Add	5.84	
For Work In Restricted Working Space, Add	35.03	
22 13 16 00-0421 No Hub Cast Iron Reducers (22 13 16 00-0278)		
22 13 16 00-0422 EA 3" x 2" No Hub Cast Iron Reducer.....	91.36	56.42
For Below Ground Installation, Add	4.23	
For Work In Restricted Working Space, Add	25.38	
22 13 16 00-0423 EA 4" x 2" No Hub Cast Iron Reducer.....	124.78	76.36
For Below Ground Installation, Add	5.72	
For Work In Restricted Working Space, Add	34.34	
22 13 16 00-0424 EA 4" x 3" No Hub Cast Iron Reducer.....	125.10	76.36
For Below Ground Installation, Add	5.72	
For Work In Restricted Working Space, Add	34.34	
22 13 16 00-0425 EA 5" x 2" No Hub Cast Iron Reducer.....	142.76	85.12
For Below Ground Installation, Add	6.38	
For Work In Restricted Working Space, Add	38.28	
22 13 16 00-0426 EA 5" x 3" No Hub Cast Iron Reducer.....	144.86	85.12
For Below Ground Installation, Add	6.38	
For Work In Restricted Working Space, Add	38.28	
22 13 16 00-0427 EA 5" x 4" No Hub Cast Iron Reducer.....	145.69	85.12
For Below Ground Installation, Add	6.38	
For Work In Restricted Working Space, Add	38.28	
22 13 16 00-0428 EA 6" x 3" No Hub Cast Iron Reducer.....	167.94	94.60
For Below Ground Installation, Add	7.09	
For Work In Restricted Working Space, Add	42.53	
22 13 16 00-0429 EA 6" x 4" No Hub Cast Iron Reducer.....	168.25	94.60
For Below Ground Installation, Add	7.09	
For Work In Restricted Working Space, Add	42.53	
22 13 16 00-0430 EA 6" x 5" No Hub Cast Iron Reducer.....	169.20	94.60
For Below Ground Installation, Add	7.09	
For Work In Restricted Working Space, Add	42.53	
22 13 16 00-0431 EA 8" x 2" No Hub Cast Iron Reducer.....	233.85	132.72
For Below Ground Installation, Add	9.95	
For Work In Restricted Working Space, Add	59.69	
22 13 16 00-0432 EA 8" x 3" No Hub Cast Iron Reducer.....	236.26	132.72
For Below Ground Installation, Add	9.95	
For Work In Restricted Working Space, Add	59.69	
22 13 16 00-0433 EA 8" x 4" No Hub Cast Iron Reducer.....	240.14	132.72
For Below Ground Installation, Add	9.95	
For Work In Restricted Working Space, Add	59.69	
22 13 16 00-0434 EA 8" x 5" No Hub Cast Iron Reducer.....	244.18	132.72
For Below Ground Installation, Add	9.95	
For Work In Restricted Working Space, Add	59.69	
22 13 16 00-0435 EA 8" x 6" No Hub Cast Iron Reducer.....	244.65	132.72
For Below Ground Installation, Add	9.95	
For Work In Restricted Working Space, Add	59.69	
22 13 16 00-0436 EA 10" x 4" No Hub Cast Iron Reducer.....	284.75	139.99
For Below Ground Installation, Add	10.49	
For Work In Restricted Working Space, Add	62.96	
22 13 16 00-0437 EA 10" x 6" No Hub Cast Iron Reducer.....	303.11	146.14
For Below Ground Installation, Add	10.96	
For Work In Restricted Working Space, Add	65.75	
22 13 16 00-0438 EA 10" x 8" No Hub Cast Iron Reducer.....	338.38	158.65
For Below Ground Installation, Add	11.89	
For Work In Restricted Working Space, Add	71.35	
22 13 16 00-0439 No Hub Cast Iron Blind Plugs (22 13 16 00-0278)		
22 13 16 00-0440 EA 1-1/2" No Hub Cast Iron Blind Plug.....	43.59	26.46
For Below Ground Installation, Add	1.99	
For Work In Restricted Working Space, Add	11.91	
22 13 16 00-0441 EA 2" No Hub Cast Iron Blind Plug.....	45.11	27.63
For Below Ground Installation, Add	2.07	
For Work In Restricted Working Space, Add	12.42	
22 13 16 00-0442 EA 3" No Hub Cast Iron Blind Plug.....	54.06	31.61
For Below Ground Installation, Add	2.37	
For Work In Restricted Working Space, Add	14.24	
22 13 16 00-0443 EA 4" No Hub Cast Iron Blind Plug.....	71.63	41.83
For Below Ground Installation, Add	3.14	
For Work In Restricted Working Space, Add	18.83	
22 13 16 00-0444 EA 5" No Hub Cast Iron Blind Plug.....	86.65	47.39
For Below Ground Installation, Add	3.51	
For Work In Restricted Working Space, Add	21.05	
22 13 16 00-0445 EA 6" No Hub Cast Iron Blind Plug.....	98.95	54.87
For Below Ground Installation, Add	4.12	
For Work In Restricted Working Space, Add	24.70	
22 13 16 00-0446 EA 8" No Hub Cast Iron Blind Plug.....	159.04	71.07
For Below Ground Installation, Add	5.33	
For Work In Restricted Working Space, Add	31.98	
22 13 16 00-0447 EA 10" No Hub Cast Iron Blind Plug.....	190.20	76.57
For Below Ground Installation, Add	5.74	
For Work In Restricted Working Space, Add	34.44	



Plumbing	22	22
Plumbing Piping	22 10	
Facility Sanitary Sewerage	22 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0448 No Hub Cast Iron P-Traps (22 13 16 00-0278)		
22 13 16 00-0449 EA 2" No Hub Cast Iron P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	55.13 2.07 12.42	27.63
22 13 16 00-0450 EA 3" No Hub Cast Iron P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	78.76 2.37 14.24	31.61
22 13 16 00-0451 EA 4" No Hub Cast Iron P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	117.15 3.14 18.83	41.83
22 13 16 00-0452 EA 5" No Hub Cast Iron P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	193.97 3.48 20.85	46.39
22 13 16 00-0453 EA 6" No Hub Cast Iron P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	207.51 4.15 24.88	55.32
22 13 16 00-0454 No Hub Cast Iron Deep Seal P-Traps (22 13 16 00-0278)		
22 13 16 00-0455 EA 2" No Hub Cast Iron Deep Seal P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	85.36 2.63 15.77	35.12
22 13 16 00-0456 EA 3" No Hub Cast Iron Deep Seal P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	122.28 3.50 20.99	46.69
22 13 16 00-0457 EA 4" No Hub Cast Iron Deep Seal P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	176.34 4.62 27.72	61.67
22 13 16 00-0458 No Hub Cast Iron Closet Flanges (22 13 16 00-0278)		
22 13 16 00-0459 EA 4" No Hub Cast Iron Closet Flange <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	84.53 3.14 18.83	41.83
22 13 16 00-0460 EA 4" x 2-1/2" No Hub Cast Iron Offset Closet Flange <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	89.05 3.14 18.83	41.83
22 13 16 00-0461 No Hub Cast Iron Closet Bends (22 13 16 00-0278)		
22 13 16 00-0462 EA 4" x 16" No Hub Cast Iron Closet Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	147.99 3.14 18.83	41.83
22 13 16 00-0463 No Hub Cast Iron Threaded Adapter (22 13 16 00-0278)		
22 13 16 00-0464 EA 1-1/4" No Hub Cast Iron Threaded Adapter <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	64.38 2.63 15.77	35.12
22 13 16 00-0465 EA 1-1/2" No Hub Cast Iron Threaded Adapter <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	68.02 2.63 15.77	35.12
22 13 16 00-0466 No Hub Couplings (22 13 16 00-0278) Note: Includes stainless steel shield/clamps assembly with elastomeric gasket, ASTM C 564. (Ferco NH).		
22 13 16 00-0467 EA 1-1/2" No Hub Coupling <i>For Medium Duty (Ferco MD-2000), Add</i> <i>For Heavy Duty (Ferco HD-4000), Add</i>	13.58 1.77 3.67	
22 13 16 00-0468 EA 2" No Hub Coupling <i>For Medium Duty (Ferco MD-2000), Add</i> <i>For Heavy Duty (Ferco HD-4000), Add</i>	13.58 1.77 3.67	
22 13 16 00-0469 EA 3" No Hub Coupling <i>For Medium Duty (Ferco MD-2000), Add</i> <i>For Heavy Duty (Ferco HD-4000), Add</i>	16.12 2.10 4.35	
22 13 16 00-0470 EA 4" No Hub Coupling <i>For Medium Duty (Ferco MD-2000), Add</i> <i>For Heavy Duty (Ferco HD-4000), Add</i>	19.14 2.49 5.17	
22 13 16 00-0471 EA 5" No Hub Coupling <i>For Medium Duty (Ferco MD-2000), Add</i> <i>For Heavy Duty (Ferco HD-4000), Add</i>	44.25 5.75 11.95	
22 13 16 00-0472 EA 6" No Hub Coupling <i>For Medium Duty (Ferco MD-2000), Add</i> <i>For Heavy Duty (Ferco HD-4000), Add</i>	48.63 6.32 13.13	
22 13 16 00-0473 EA 8" No Hub Coupling <i>For Medium Duty (Ferco MD-2000), Add</i> <i>For Heavy Duty (Ferco HD-4000), Add</i>	91.61 11.91 24.73	
22 13 16 00-0474 EA 10" No Hub Coupling <i>For Medium Duty (Ferco MD-2000), Add</i> <i>For Heavy Duty (Ferco HD-4000), Add</i>	126.20 16.41 34.07	
22 13 16 00-0475 EA 2" x 1-1/2" No Hub Reducing Coupling	16.12	

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 13 16 00-0476	EA	3" x 2" No Hub Reducing Coupling	25.00	
	22 13 16 00-0477	EA	4" x 2" No Hub Reducing Coupling	34.88	
	22 13 16 00-0478	EA	4" x 3" No Hub Reducing Coupling	29.72	
22 13 16 00-0479	Cast Iron Mechanical Joint Couplings With Neoprene Gasket And Bolts <small>(22 13 16 00-0278)</small>				
	Note: For underground connections. See CSI section 22 13 16 00-0861 for additional FERNCO couplings.				
	22 13 16 00-0480	EA	1-1/2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	26.08	
	22 13 16 00-0481	EA	2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	26.92	
	22 13 16 00-0482	EA	3" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	28.27	
	22 13 16 00-0483	EA	4" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	32.98	
	22 13 16 00-0484	EA	5" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	62.25	
	22 13 16 00-0485	EA	6" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	85.47	
	22 13 16 00-0486	EA	8" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	149.74	
	22 13 16 00-0487	EA	10" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	228.82	
22 13 16 00-0488	Cut And Prepare Existing Pipe In-Place <small>(22 13 16 00-0268)</small>				
	Note: For use when connecting pipe to an existing in-place system.				
	22 13 16 00-0489	EA	Cut And Prepare 1-1/2" Cast Iron Pipe, No Hub	9.50	
			<i>For Work In Restricted Working Space, Add</i>	2.85	
	22 13 16 00-0490	EA	Cut And Prepare 2" Cast Iron Pipe, No Hub	11.62	
			<i>For Work In Restricted Working Space, Add</i>	3.49	
	22 13 16 00-0491	EA	Cut And Prepare 3" Cast Iron Pipe, No Hub	12.68	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
	22 13 16 00-0492	EA	Cut And Prepare 4" Cast Iron Pipe, No Hub	15.85	
			<i>For Work In Restricted Working Space, Add</i>	4.76	
	22 13 16 00-0493	EA	Cut And Prepare 6" Cast Iron Pipe, No Hub	19.01	
			<i>For Work In Restricted Working Space, Add</i>	5.70	
	22 13 16 00-0494	EA	Cut And Prepare 8" Cast Iron Pipe, No Hub	25.35	
			<i>For Work In Restricted Working Space, Add</i>	7.61	
	22 13 16 00-0495	EA	Cut And Prepare 10" Cast Iron Pipe, No Hub	29.58	
			<i>For Work In Restricted Working Space, Add</i>	8.87	
22 13 16 00-0496	Copper Drain-Waste-Vent (DWV) Pipe <small>(22 13 16)</small>				
	See CSI section 22 11 16 00-0436 for copper and brass fittings.				
	22 13 16 00-0497	LF	1-1/4" Hard Drawn DWV Copper Tube/Pipe	15.29	4.57
	22 13 16 00-0498	LF	1-1/2" Hard Drawn DWV Copper Tube/Pipe	18.25	5.10
	22 13 16 00-0499	LF	2" Hard Drawn DWV Copper Tube/Pipe	23.49	6.30
	22 13 16 00-0500	LF	3" Hard Drawn DWV Copper Tube/Pipe	50.65	8.73
	22 13 16 00-0501	LF	4" Hard Drawn DWV Copper Tube/Pipe	70.68	9.85
	22 13 16 00-0502	LF	5" Hard Drawn DWV Copper Tube/Pipe	138.65	11.30
	22 13 16 00-0503	LF	6" Hard Drawn DWV Copper Tube/Pipe	197.80	17.52
22 13 16 00-0504	Polyvinyl Chloride (PVC) Drain-Waste-Vent (DWV) Pipe And Fittings <small>(22 13 16)</small>				
	Note: Aboveground installation. See CSI section 33 31 11 00-0019 for underground installation.				
22 13 16 00-0505	Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies <small>(22 13 16 00-0504)</small>				
	Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.				
	22 13 16 00-0506	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	20.61	4.08
			Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	4.68	
	22 13 16 00-0507	LF	2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	22.92	4.86
			Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	5.21	
	22 13 16 00-0508	LF	3" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	31.04	7.01
			Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	6.47	
	22 13 16 00-0509	LF	4" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	36.37	7.59
			Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	7.07	
	22 13 16 00-0510	LF	6" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	51.62	9.73
			Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	9.05	
	22 13 16 00-0511	LF	8" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	64.48	12.93
			Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	10.37	
	22 13 16 00-0512	LF	10" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	88.11	17.32
			Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	13.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0513 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe (22 13 16 00-0504) Note: Excludes fittings or hangers.		
22 13 16 00-0514 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe (ASTM D-2665) (22 13 16 00-0513) Note: Excludes fittings or hangers.		
22 13 16 00-0515 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe .....7.08 <i>For Work In Restricted Working Space, Add</i> 1.82	4.08	
22 13 16 00-0516 LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe .....8.60 <i>For Work In Restricted Working Space, Add</i> 2.19	4.86	
22 13 16 00-0517 LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe .....13.10 <i>For Work In Restricted Working Space, Add</i> 3.14	7.01	
22 13 16 00-0518 LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe .....15.07 <i>For Work In Restricted Working Space, Add</i> 3.41	7.59	
22 13 16 00-0519 LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe .....20.25 <i>For Work In Restricted Working Space, Add</i> 4.10	9.11	
22 13 16 00-0520 LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe .....28.26 <i>For Work In Restricted Working Space, Add</i> 5.47	12.12	
22 13 16 00-0521 LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe .....39.67 <i>For Work In Restricted Working Space, Add</i> 7.29	16.22	
22 13 16 00-0522 Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe (ASTM F-891) (22 13 16 00-0513) Note: Excludes fittings or hangers.		
22 13 16 00-0523 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe .....6.78 <i>For Work In Restricted Working Space, Add</i> 1.82	4.08	
22 13 16 00-0524 LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe .....8.24 <i>For Work In Restricted Working Space, Add</i> 2.19	4.86	
22 13 16 00-0525 LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe .....12.42 <i>For Work In Restricted Working Space, Add</i> 3.14	7.01	
22 13 16 00-0526 LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe .....14.17 <i>For Work In Restricted Working Space, Add</i> 3.41	7.59	
22 13 16 00-0527 LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe .....18.58 <i>For Work In Restricted Working Space, Add</i> 4.10	9.11	
22 13 16 00-0528 LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe .....25.91 <i>For Work In Restricted Working Space, Add</i> 5.47	12.12	
22 13 16 00-0529 LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe .....37.11 <i>For Work In Restricted Working Space, Add</i> 7.29	16.22	
22 13 16 00-0530 Polyvinyl Chloride (PVC) DWV Fittings (ASTM D-2665) (22 13 16 00-0504)		
22 13 16 00-0531 Polyvinyl Chloride (PVC) DWV 1/4 Bends (22 13 16 00-0530)		
22 13 16 00-0532 EA 1-1/2" Polyvinyl Chloride (PVC) DWV 1/4 Bends .....26.89 <i>For Work In Restricted Working Space, Add</i> 7.30	16.25	
22 13 16 00-0533 EA 2" Polyvinyl Chloride (PVC) DWV 1/4 Bends .....34.40 <i>For Work In Restricted Working Space, Add</i> 9.34	20.72	
22 13 16 00-0534 EA 3" Polyvinyl Chloride (PVC) DWV 1/4 Bends .....51.97 <i>For Work In Restricted Working Space, Add</i> 12.55	27.82	
22 13 16 00-0535 EA 4" Polyvinyl Chloride (PVC) DWV 1/4 Bends .....70.16 <i>For Work In Restricted Working Space, Add</i> 14.59	32.39	
22 13 16 00-0536 EA 6" Polyvinyl Chloride (PVC) DWV 1/4 Bends .....194.20 <i>For Work In Restricted Working Space, Add</i> 18.97	42.12	
22 13 16 00-0537 EA 8" Polyvinyl Chloride (PVC) DWV 1/4 Bends .....309.47 <i>For Work In Restricted Working Space, Add</i> 25.54	56.72	
22 13 16 00-0538 EA 10" Polyvinyl Chloride (PVC) DWV 1/4 Bends .....409.26 <i>For Work In Restricted Working Space, Add</i> 34.04	75.59	
22 13 16 00-0539 Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends (22 13 16 00-0530)		
22 13 16 00-0540 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends .....34.12 <i>For Work In Restricted Working Space, Add</i> 7.30	16.25	
22 13 16 00-0541 EA 2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends .....38.55 <i>For Work In Restricted Working Space, Add</i> 9.34	20.72	
22 13 16 00-0542 EA 3" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends .....62.66 <i>For Work In Restricted Working Space, Add</i> 12.55	27.82	
22 13 16 00-0543 EA 4" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends .....89.76 <i>For Work In Restricted Working Space, Add</i> 14.59	32.39	
22 13 16 00-0544 EA 6" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends .....156.35 <i>For Work In Restricted Working Space, Add</i> 18.97	42.12	
22 13 16 00-0545 EA 8" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends .....259.73 <i>For Work In Restricted Working Space, Add</i> 25.54	56.72	
22 13 16 00-0546 EA 10" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends .....408.37 <i>For Work In Restricted Working Space, Add</i> 34.04	75.59	
22 13 16 00-0547 Polyvinyl Chloride (PVC) DWV 1/8 Bends (22 13 16 00-0530)		
22 13 16 00-0548 EA 1-1/2" Polyvinyl Chloride (PVC) DWV 1/8 Bends .....27.49 <i>For Work In Restricted Working Space, Add</i> 7.30	16.25	
22 13 16 00-0549 EA 2" Polyvinyl Chloride (PVC) DWV 1/8 Bends .....34.35 <i>For Work In Restricted Working Space, Add</i> 9.34	20.72	
22 13 16 00-0550 EA 3" Polyvinyl Chloride (PVC) DWV 1/8 Bends .....51.08 <i>For Work In Restricted Working Space, Add</i> 12.55	27.82	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0551	EA		4" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	65.81 14.59	32.39
22 13 16 00-0552	EA		6" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	183.12 18.97	42.12
22 13 16 00-0553	EA		8" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	283.71 25.54	56.72
22 13 16 00-0554	EA		10" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	333.48 34.04	75.59
22 13 16 00-0555			Polyvinyl Chloride (PVC) DWV Sanitary Tees (22 13 16 00-0530)		
22 13 16 00-0556	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	41.08 10.94	24.32
22 13 16 00-0557	EA		2" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	53.27 14.01	31.13
22 13 16 00-0558	EA		3" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	80.26 18.82	41.83
22 13 16 00-0559	EA		4" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	106.36 21.89	48.64
22 13 16 00-0560	EA		6" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	289.12 28.46	63.14
22 13 16 00-0561	EA		8" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	378.81 38.30	85.02
22 13 16 00-0562			Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees (22 13 16 00-0530)		
22 13 16 00-0563	EA		2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	48.19 11.96	26.55
22 13 16 00-0564	EA		2" x 1-1/2" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	54.77 12.99	28.79
22 13 16 00-0565	EA		2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	49.87 12.99	28.79
22 13 16 00-0566	EA		3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	67.40 16.20	35.99
22 13 16 00-0567	EA		3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	70.16 17.22	38.23
22 13 16 00-0568	EA		4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	78.81 18.24	40.46
22 13 16 00-0569	EA		4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	109.48 19.26	42.80
22 13 16 00-0570	EA		4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	131.11 20.87	46.30
22 13 16 00-0571	EA		6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	275.42 26.27	58.27
22 13 16 00-0572	EA		8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	763.41 32.83	72.86
22 13 16 00-0573	EA		8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	791.80 35.02	77.72
22 13 16 00-0574			Polyvinyl Chloride (PVC) DWV Double Sanitary Tees (22 13 16 00-0530)		
22 13 16 00-0575	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	62.49 14.59	32.39
22 13 16 00-0576	EA		2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	82.55 18.68	41.44
22 13 16 00-0577	EA		3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	140.56 25.10	55.74
22 13 16 00-0578	EA		4" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	188.77 29.18	64.79
22 13 16 00-0579			Polyvinyl Chloride (PVC) DWV Reducing Double Sanitary Tees (22 13 16 00-0530)		
22 13 16 00-0580	EA		2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	73.78 16.63	36.97
22 13 16 00-0581	EA		3" x 3" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	109.22 19.85	44.06
22 13 16 00-0582	EA		3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	123.99 21.89	48.64
22 13 16 00-0583	EA		4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	192.16 23.93	53.12
22 13 16 00-0584	EA		4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	205.94 27.14	60.21
22 13 16 00-0585			Polyvinyl Chloride (PVC) DWV Reducers (22 13 16 00-0530)		
22 13 16 00-0586	EA		2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	32.87 8.32	18.48
22 13 16 00-0587	EA		3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	49.51 9.92	21.99
22 13 16 00-0588	EA		3" x 2" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	50.24 10.94	24.32
22 13 16 00-0589	EA		4" x 2" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	67.09 11.96	26.55



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0590 EA 4" x 3" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	73.68 13.57	30.15
22 13 16 00-0591 EA 6" x 3" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	196.27 15.76	35.02
22 13 16 00-0592 EA 6" x 4" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	171.38 16.78	37.26
22 13 16 00-0593 EA 8" x 4" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	383.63 20.06	44.56
22 13 16 00-0594 EA 8" x 6" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	334.79 22.25	49.42
22 13 16 00-0595 EA 10" x 6" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	443.08 26.51	58.85
22 13 16 00-0596 EA 10" x 8" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	365.42 29.79	66.15
22 13 16 00-0597 Polyvinyl Chloride (PVC) DWV P-Traps (22 13 16 00-0530)		
22 13 16 00-0598 EA 1-1/2" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	45.49 10.94	24.32
22 13 16 00-0599 EA 2" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	58.96 14.01	31.13
22 13 16 00-0600 EA 3" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	123.85 18.82	41.83
22 13 16 00-0601 EA 4" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	218.48 21.89	48.64
22 13 16 00-0602 EA 6" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	352.14 28.46	63.14
22 13 16 00-0603 Polyvinyl Chloride (PVC) DWV Closet Flanges (22 13 16 00-0530)		
22 13 16 00-0604 EA 4" Polyvinyl Chloride (PVC) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	65.91 14.59	32.39
22 13 16 00-0605 EA 4" x 3" Polyvinyl Chloride (PVC) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	57.30 13.57	30.15
22 13 16 00-0606 Polyvinyl Chloride (PVC) DWV Wyes (22 13 16 00-0530)		
22 13 16 00-0607 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	45.68 10.94	24.32
22 13 16 00-0608 EA 2" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	55.94 14.01	31.13
22 13 16 00-0609 EA 3" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	83.67 18.82	41.83
22 13 16 00-0610 EA 4" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	111.95 21.89	48.64
22 13 16 00-0611 EA 6" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	268.14 28.46	63.14
22 13 16 00-0612 EA 8" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	338.96 38.30	85.02
22 13 16 00-0613 EA 10" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	447.48 51.07	113.33
22 13 16 00-0614 Polyvinyl Chloride (PVC) DWV Reducing Wyes (22 13 16 00-0530)		
22 13 16 00-0615 EA 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	56.31 11.96	26.55
22 13 16 00-0616 EA 2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	59.57 12.99	28.79
22 13 16 00-0617 EA 3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	79.56 16.20	35.99
22 13 16 00-0618 EA 3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	73.57 17.22	38.23
22 13 16 00-0619 EA 4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	101.40 18.24	40.46
22 13 16 00-0620 EA 4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	95.53 19.26	42.80
22 13 16 00-0621 EA 4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	106.13 20.87	46.30
22 13 16 00-0622 EA 6" x 6" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	241.35 25.25	56.03
22 13 16 00-0623 EA 6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	288.60 26.27	58.27
22 13 16 00-0624 EA 8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	290.53 32.83	72.86
22 13 16 00-0625 EA 8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	353.69 35.02	77.72
22 13 16 00-0626 EA 10" x 10" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	341.84 41.34	91.74
22 13 16 00-0627 EA 10" x 10" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	409.81 43.53	96.60
22 13 16 00-0628 EA 10" x 10" x 8" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	469.20 46.81	103.89



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22 13 16 00-0629	Polyvinyl Chloride (PVC) DWV Double Wyes <small>(22 13 16 00-0530)</small>		
22 13 16 00-0630	EA 1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	68.23 14.59	32.39
22 13 16 00-0631	EA 2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	87.45 18.68	41.44
22 13 16 00-0632	EA 3" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	148.73 25.10	55.74
22 13 16 00-0633	EA 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	229.19 29.18	64.79
22 13 16 00-0634	EA 6" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	425.21 37.94	84.25
22 13 16 00-0635	EA 8" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	507.40 51.07	113.43
22 13 16 00-0636	EA 10" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	764.24 68.09	151.17
22 13 16 00-0637	Polyvinyl Chloride (PVC) DWV Reducing Double Wyes <small>(22 13 16 00-0530)</small>		
22 13 16 00-0638	EA 2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	78.45 16.63	36.97
22 13 16 00-0639	EA 3" x 3" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	123.24 19.85	44.06
22 13 16 00-0640	EA 3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	121.40 21.89	48.64
22 13 16 00-0641	EA 4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	158.85 23.93	53.12
22 13 16 00-0642	EA 4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	194.92 27.14	60.21
22 13 16 00-0643	EA 6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	283.42 33.56	74.52
22 13 16 00-0644	EA 8" x 8" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	333.51 40.13	89.10
22 13 16 00-0645	EA 8" x 8" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	410.98 44.51	98.83
22 13 16 00-0646	EA 10" x 10" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	437.54 48.64	107.98
22 13 16 00-0647	EA 10" x 10" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	547.25 53.02	117.70
22 13 16 00-0648	EA 10" x 10" x 8" x 8" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	652.47 59.58	132.30
22 13 16 00-0649	Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <small>(22 13 16 00-0530)</small>		
22 13 16 00-0650	EA 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	51.42 10.94	24.32
22 13 16 00-0651	EA 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	64.90 14.01	31.13
22 13 16 00-0652	EA 3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	110.59 18.82	41.83
22 13 16 00-0653	EA 4" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	172.31 21.89	48.64
22 13 16 00-0654	Polyvinyl Chloride (PVC) DWV Reducing Combination Wye And 1/8 Bends <small>(22 13 16 00-0530)</small>		
22 13 16 00-0655	EA 2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	80.99 12.99	28.79
22 13 16 00-0656	EA 3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	119.49 16.20	35.99
22 13 16 00-0657	EA 3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	98.33 17.22	38.23
22 13 16 00-0658	EA 4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	155.29 19.26	42.80
22 13 16 00-0659	EA 4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	168.21 20.87	46.30
22 13 16 00-0660	Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0530)</small>		
22 13 16 00-0661	EA 1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	72.69 14.59	32.39
22 13 16 00-0662	EA 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	87.94 18.68	41.44
22 13 16 00-0663	EA 3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	128.29 25.10	55.74
22 13 16 00-0664	EA 4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	332.41 29.18	64.79
22 13 16 00-0665	EA 6" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	980.10 37.94	84.25



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0666			Polyvinyl Chloride (PVC) DWV Reducing Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0530)</small>		
22 13 16 00-0667	EA		2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends 134.12 <i>For Work In Restricted Working Space, Add</i> 16.63		36.97
22 13 16 00-0668	EA		3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends 206.27 <i>For Work In Restricted Working Space, Add</i> 21.89		48.64
22 13 16 00-0669	EA		4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends 328.21 <i>For Work In Restricted Working Space, Add</i> 23.93		53.12
22 13 16 00-0670	EA		4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends 307.90 <i>For Work In Restricted Working Space, Add</i> 27.14		60.21
22 13 16 00-0671	EA		6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends 669.55 <i>For Work In Restricted Working Space, Add</i> 33.56		74.52
22 13 16 00-0672			Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <small>(22 13 16 00-0530)</small>		
22 13 16 00-0673	EA		2" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug 90.49 <i>For Work In Restricted Working Space, Add</i> 14.01		31.13
22 13 16 00-0674	EA		3" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug 146.41 <i>For Work In Restricted Working Space, Add</i> 18.82		41.83
22 13 16 00-0675	EA		4" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug 218.50 <i>For Work In Restricted Working Space, Add</i> 21.89		48.64
22 13 16 00-0676	EA		6" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug 517.76 <i>For Work In Restricted Working Space, Add</i> 28.46		63.14
22 13 16 00-0677	EA		8" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug 654.22 <i>For Work In Restricted Working Space, Add</i> 38.30		85.02
22 13 16 00-0678	EA		10" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug 868.66 <i>For Work In Restricted Working Space, Add</i> 51.07		113.33
22 13 16 00-0679			Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <small>(22 13 16 00-0530)</small>		
22 13 16 00-0680	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug 31.89 <i>For Work In Restricted Working Space, Add</i> 7.30		16.25
22 13 16 00-0681	EA		2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug 43.35 <i>For Work In Restricted Working Space, Add</i> 9.34		20.72
22 13 16 00-0682	EA		3" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug 60.63 <i>For Work In Restricted Working Space, Add</i> 12.55		27.82
22 13 16 00-0683	EA		4" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug 92.82 <i>For Work In Restricted Working Space, Add</i> 14.59		32.39
22 13 16 00-0684	EA		6" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug 184.51 <i>For Work In Restricted Working Space, Add</i> 18.97		42.12
22 13 16 00-0685	EA		8" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug 380.84 <i>For Work In Restricted Working Space, Add</i> 25.54		56.72
22 13 16 00-0686	EA		10" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug 675.99 <i>For Work In Restricted Working Space, Add</i> 34.03		75.59
22 13 16 00-0687			Polyvinyl Chloride (PVC) Couplings <small>(22 13 16 00-0530)</small>		
22 13 16 00-0688	EA		1-1/2" Polyvinyl Chloride (PVC) Couplings 26.56 <i>For Work In Restricted Working Space, Add</i> 7.30		16.25
22 13 16 00-0689	EA		2" Polyvinyl Chloride (PVC) Couplings 33.65 <i>For Work In Restricted Working Space, Add</i> 9.34		20.72
22 13 16 00-0690	EA		3" Polyvinyl Chloride (PVC) Couplings 48.28 <i>For Work In Restricted Working Space, Add</i> 12.55		27.82
22 13 16 00-0691	EA		4" Polyvinyl Chloride (PVC) Couplings 59.24 <i>For Work In Restricted Working Space, Add</i> 14.59		32.39
22 13 16 00-0692	EA		6" Polyvinyl Chloride (PVC) Couplings 121.72 <i>For Work In Restricted Working Space, Add</i> 18.97		42.12
22 13 16 00-0693	EA		8" Polyvinyl Chloride (PVC) Couplings 254.10 <i>For Work In Restricted Working Space, Add</i> 25.54		56.72
22 13 16 00-0694	EA		10" Polyvinyl Chloride (PVC) Couplings 375.34 <i>For Work In Restricted Working Space, Add</i> 34.05		75.59
22 13 16 00-0695			Polyvinyl Chloride (PVC) Male Adapters <small>(22 13 16 00-0530)</small>		
22 13 16 00-0696	EA		1-1/2" Polyvinyl Chloride (PVC) Male Adapters 14.43 <i>For Work In Restricted Working Space, Add</i> 3.65		8.07
22 13 16 00-0697	EA		2" Polyvinyl Chloride (PVC) Male Adapters 21.15 <i>For Work In Restricted Working Space, Add</i> 4.67		10.41
22 13 16 00-0698	EA		3" Polyvinyl Chloride (PVC) Male Adapters 36.41 <i>For Work In Restricted Working Space, Add</i> 6.28		13.91
22 13 16 00-0699	EA		4" Polyvinyl Chloride (PVC) Male Adapters 59.82 <i>For Work In Restricted Working Space, Add</i> 7.30		16.25
22 13 16 00-0700			Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe <small>(22 13 16 00-0504)</small> Note: In place piping.		
22 13 16 00-0701	EA		1-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe 7.13		
22 13 16 00-0702	EA		2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe 7.85		
22 13 16 00-0703	EA		3", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe 9.98		
22 13 16 00-0704	EA		4", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe 13.47		
22 13 16 00-0705	EA		6", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe 19.24		
22 13 16 00-0706	EA		8", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe 25.67		



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22 13 16 00-0707 EA 10", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	31.38	
22 13 16 00-0708 Acrylonitrile Butadiene Styrene (ABS) Drain-Waste-Vent (DWV) Pipe And Fittings <small>(22 13 16)</small> Note: Aboveground installation.		
22 13 16 00-0709 Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assemblies <small>(22 13 16 00-0708)</small> Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		
22 13 16 00-0710 LF 1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly.....	20.78	4.08
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	5.60	
22 13 16 00-0711 LF 2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly.....	23.04	4.86
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	6.20	
22 13 16 00-0712 LF 3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly.....	29.98	7.01
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	7.70	
22 13 16 00-0713 LF 4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly.....	33.92	7.59
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	8.55	
22 13 16 00-0714 LF 6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly.....	50.98	9.73
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	11.37	
22 13 16 00-0715 Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe (ASTM F-628) <small>(22 13 16 00-0708)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0716 LF 1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe.....	7.24	4.08
<i>For Work In Restricted Working Space, Add</i>	1.82	
22 13 16 00-0717 LF 2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe.....	8.85	4.86
<i>For Work In Restricted Working Space, Add</i>	2.19	
22 13 16 00-0718 LF 3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe.....	13.69	7.01
<i>For Work In Restricted Working Space, Add</i>	3.14	
22 13 16 00-0719 LF 4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe.....	15.97	7.59
<i>For Work In Restricted Working Space, Add</i>	3.41	
22 13 16 00-0720 LF 6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe.....	23.07	9.11
<i>For Work In Restricted Working Space, Add</i>	4.10	
22 13 16 00-0721 Acrylonitrile Butadiene Styrene (ABS) DWV Fittings (ASTM D-2661) <small>(22 13 16 00-0708)</small>		
22 13 16 00-0722 Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <small>(22 13 16 00-0721)</small>		
22 13 16 00-0723 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends.....	29.27	16.25
<i>For Work In Restricted Working Space, Add</i>	7.30	
22 13 16 00-0724 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends.....	38.19	20.72
<i>For Work In Restricted Working Space, Add</i>	9.34	
22 13 16 00-0725 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends.....	63.61	27.82
<i>For Work In Restricted Working Space, Add</i>	12.55	
22 13 16 00-0726 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends.....	91.32	32.39
<i>For Work In Restricted Working Space, Add</i>	14.59	
22 13 16 00-0727 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends.....	222.53	42.12
<i>For Work In Restricted Working Space, Add</i>	18.97	
22 13 16 00-0728 Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <small>(22 13 16 00-0721)</small>		
22 13 16 00-0729 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends.....	36.11	16.25
<i>For Work In Restricted Working Space, Add</i>	7.30	
22 13 16 00-0730 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends.....	44.88	20.72
<i>For Work In Restricted Working Space, Add</i>	9.34	
22 13 16 00-0731 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends.....	80.22	27.82
<i>For Work In Restricted Working Space, Add</i>	12.55	
22 13 16 00-0732 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends.....	124.36	32.39
<i>For Work In Restricted Working Space, Add</i>	14.59	
22 13 16 00-0733 Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <small>(22 13 16 00-0721)</small>		
22 13 16 00-0734 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends.....	30.20	16.25
<i>For Work In Restricted Working Space, Add</i>	7.30	
22 13 16 00-0735 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends.....	37.54	20.72
<i>For Work In Restricted Working Space, Add</i>	9.34	
22 13 16 00-0736 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends.....	60.21	27.82
<i>For Work In Restricted Working Space, Add</i>	12.55	
22 13 16 00-0737 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends.....	85.03	32.39
<i>For Work In Restricted Working Space, Add</i>	14.59	



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22 13 16 00-0738 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	229.16 18.97	42.12
22 13 16 00-0739 Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees (22 13 16 00-0721)		
22 13 16 00-0740 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	44.91 10.94	24.32
22 13 16 00-0741 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	59.36 14.01	31.13
22 13 16 00-0742 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	95.02 18.82	41.83
22 13 16 00-0743 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	134.98 21.89	48.64
22 13 16 00-0744 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	431.01 28.46	63.14
22 13 16 00-0745 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees (22 13 16 00-0721)		
22 13 16 00-0746 EA 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	53.32 11.96	26.55
22 13 16 00-0747 EA 2" x 1-1/2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	62.16 12.99	28.79
22 13 16 00-0748 EA 2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	55.43 12.99	28.79
22 13 16 00-0749 EA 3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	78.64 16.20	35.99
22 13 16 00-0750 EA 3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	82.27 17.22	38.23
22 13 16 00-0751 EA 4" x 4" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	150.19 18.24	40.46
22 13 16 00-0752 EA 4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	147.65 19.26	42.80
22 13 16 00-0753 EA 4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	167.40 20.87	46.30
22 13 16 00-0754 EA 6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	463.40 26.27	58.27
22 13 16 00-0755 Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees (22 13 16 00-0721)		
22 13 16 00-0756 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	74.24 14.59	32.39
22 13 16 00-0757 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	99.61 18.68	41.44
22 13 16 00-0758 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	188.58 25.10	55.74
22 13 16 00-0759 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	265.44 29.18	64.79
22 13 16 00-0760 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Sanitary Tees (22 13 16 00-0721)		
22 13 16 00-0761 EA 2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	84.48 16.63	36.97
22 13 16 00-0762 EA 3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	119.63 19.85	44.06
22 13 16 00-0763 EA 3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	136.23 21.89	48.64
22 13 16 00-0764 EA 4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	214.08 22.42	49.76
22 13 16 00-0765 EA 4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	227.96 25.43	56.41
22 13 16 00-0766 Acrylonitrile Butadiene Styrene (ABS) DWV Wyes (22 13 16 00-0721)		
22 13 16 00-0767 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	53.45 10.94	24.32
22 13 16 00-0768 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	64.11 14.01	31.13
22 13 16 00-0769 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	101.30 18.82	41.83
22 13 16 00-0770 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	144.79 21.89	48.64
22 13 16 00-0771 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	358.43 28.46	63.14
22 13 16 00-0772 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes (22 13 16 00-0721)		
22 13 16 00-0773 EA 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	70.15 11.96	26.55
22 13 16 00-0774 EA 2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	73.25 12.99	28.79

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0775	EA		3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	87.35 17.22	38.23
22 13 16 00-0776	EA		4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	121.92 19.26	42.80
22 13 16 00-0777	EA		4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	136.99 20.87	46.30
22 13 16 00-0778	EA		6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	305.32 26.27	58.27
22 13 16 00-0779			Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <small>(22 13 16 00-0721)</small>		
22 13 16 00-0780	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	84.73 14.59	32.39
22 13 16 00-0781	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	108.68 18.68	41.44
22 13 16 00-0782	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	203.66 25.10	55.74
22 13 16 00-0783	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	340.36 29.18	64.79
22 13 16 00-0784			Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Wyes <small>(22 13 16 00-0721)</small>		
22 13 16 00-0785	EA		2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	97.83 16.63	36.97
22 13 16 00-0786	EA		3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	150.79 19.85	44.06
22 13 16 00-0787	EA		3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	162.05 21.89	48.64
22 13 16 00-0788	EA		4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	225.51 23.93	53.12
22 13 16 00-0789	EA		4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	282.98 27.14	60.21
22 13 16 00-0790			Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bend <small>(22 13 16 00-0721)</small>		
22 13 16 00-0791	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	63.58 10.94	24.32
22 13 16 00-0792	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	81.91 14.01	31.13
22 13 16 00-0793	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	120.77 18.82	41.83
22 13 16 00-0794	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	182.28 20.51	45.57
22 13 16 00-0795			Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Combination Wye And 1/8 Bend <small>(22 13 16 00-0721)</small>		
22 13 16 00-0796	EA		2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	71.81 12.99	28.79
22 13 16 00-0797	EA		3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	121.53 16.20	35.99
22 13 16 00-0798	EA		3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	99.60 17.22	38.23
22 13 16 00-0799	EA		4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	158.23 19.26	42.80
22 13 16 00-0800	EA		4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	171.37 20.87	46.30
22 13 16 00-0801			Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bend <small>(22 13 16 00-0721)</small>		
22 13 16 00-0802	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	126.02 18.68	41.44
22 13 16 00-0803	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	230.73 25.10	55.74
22 13 16 00-0804			Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Combination Wye And 1/8 Bend <small>(22 13 16 00-0721)</small>		
22 13 16 00-0805	EA		2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	106.75 16.63	36.97
22 13 16 00-0806	EA		3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	217.52 21.89	48.64
22 13 16 00-0807			Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <small>(22 13 16 00-0721)</small>		
22 13 16 00-0808	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	68.36 10.94	24.32



Plumbing	22	22
Plumbing Piping	22 10	
Facility Sanitary Sewerage	22 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0809	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	86.69 14.01	31.13
22 13 16 00-0810	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	131.44 18.82	41.83
22 13 16 00-0811	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	201.38 21.89	48.64
22 13 16 00-0812			Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug²² <small>13 16 00-0721)</small>		
22 13 16 00-0813	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	35.25 7.30	16.25
22 13 16 00-0814	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	48.77 9.34	20.72
22 13 16 00-0815	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	68.93 12.55	27.82
22 13 16 00-0816	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	112.45 14.59	32.39
22 13 16 00-0817	EA		6" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	238.40 18.97	42.12
22 13 16 00-0818			Acrylonitrile Butadiene Styrene (ABS) DWV Couplings^(22 13 16 00-0721)		
22 13 16 00-0819	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	28.09 7.30	16.25
22 13 16 00-0820	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	35.10 9.34	20.72
22 13 16 00-0821	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	52.63 12.55	27.82
22 13 16 00-0822	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	66.45 14.59	32.39
22 13 16 00-0823	EA		6" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	151.27 18.97	42.12
22 13 16 00-0824			Acrylonitrile Butadiene Styrene (ABS) DWV Reducers^(22 13 16 00-0721)		
22 13 16 00-0825	EA		2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	37.27 8.32	18.48
22 13 16 00-0826	EA		3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	63.35 9.92	21.99
22 13 16 00-0827	EA		3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	61.86 10.94	24.32
22 13 16 00-0828	EA		4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	89.95 11.96	26.55
22 13 16 00-0829	EA		4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	97.61 13.57	30.15
22 13 16 00-0830			Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps^(22 13 16 00-0721)		
22 13 16 00-0831	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	54.99 10.94	24.32
22 13 16 00-0832	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	76.65 14.01	31.13
22 13 16 00-0833	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	199.98 18.82	41.83
22 13 16 00-0834	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	354.13 21.89	48.64
22 13 16 00-0835			Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges^(22 13 16 00-0721)		
22 13 16 00-0836	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	74.49 14.59	32.39
22 13 16 00-0837	EA		4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	69.47 13.57	30.15
22 13 16 00-0838			Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters^(22 13 16 00-0721)		
22 13 16 00-0839	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	16.97 3.65	8.07
22 13 16 00-0840	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	24.08 4.67	10.41
22 13 16 00-0841	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	45.74 6.28	13.91
22 13 16 00-0842	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	79.23 7.30	16.25
22 13 16 00-0843			Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushings^(22 13 16 00-0721)		
22 13 16 00-0844	EA		2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	31.69 8.32	18.48
22 13 16 00-0845	EA		3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	54.50 9.92	21.99



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0846 EA 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	50.09 10.94	24.32
22 13 16 00-0847 EA 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	89.26 11.96	26.55
22 13 16 00-0848 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	73.85 13.57	30.15
22 13 16 00-0849 EA 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	164.61 15.72	34.90
22 13 16 00-0850 Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Couplings (22 13 16 00-0721)		
22 13 16 00-0851 EA 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	61.43 7.30	16.25
22 13 16 00-0852 EA 2" x 2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	70.71 9.34	20.72
22 13 16 00-0853 EA 3" x 3" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	83.89 12.55	27.82
22 13 16 00-0854 EA 4" x 4" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	93.17 14.59	32.39
22 13 16 00-0855 Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe (22 13 16 00-0708) Note: In place piping.		
22 13 16 00-0856 EA 1-1/2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	7.13	
22 13 16 00-0857 EA 2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	7.85	
22 13 16 00-0858 EA 3", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	9.98	
22 13 16 00-0859 EA 4", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	13.47	
22 13 16 00-0860 EA 6", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	19.24	
22 13 16 00-0861 Elastomeric Flexible Pipe Couplings (22 13 16)		
22 13 16 00-0862 Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Couplings (22 13 16 00-0861) Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.		
22 13 16 00-0863 EA 1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-125)..... <i>For Work In Restricted Working Space, Add</i>	14.63 2.54	4.22
22 13 16 00-0864 EA 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150)..... <i>For Work In Restricted Working Space, Add</i>	15.82 2.69	4.49
22 13 16 00-0865 EA 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22)..... <i>For Work In Restricted Working Space, Add</i>	16.61 2.85	4.76
22 13 16 00-0866 EA 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33)..... <i>For Work In Restricted Working Space, Add</i>	19.63 3.01	5.02
22 13 16 00-0867 EA 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44)..... <i>For Work In Restricted Working Space, Add</i>	22.57 3.17	5.28
22 13 16 00-0868 EA 5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55)..... <i>For Work In Restricted Working Space, Add</i>	29.91 3.33	5.54
22 13 16 00-0869 EA 6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66)..... <i>For Work In Restricted Working Space, Add</i>	37.30 3.49	5.81
22 13 16 00-0870 EA 8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88)..... <i>For Work In Restricted Working Space, Add</i>	52.18 3.80	6.34
22 13 16 00-0871 EA 10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010)..... <i>For Work In Restricted Working Space, Add</i>	69.70 4.44	7.40
22 13 16 00-0872 Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Couplings (22 13 16 00-0861) Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.		
22 13 16 00-0873 EA 1-1/2" x 1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-150/125)..... <i>For Work In Restricted Working Space, Add</i>	15.58 2.69	4.49
22 13 16 00-0874 EA 2" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-215)..... <i>For Work In Restricted Working Space, Add</i>	17.01 2.85	4.76
22 13 16 00-0875 EA 3" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-315)..... <i>For Work In Restricted Working Space, Add</i>	21.61 3.01	5.02
22 13 16 00-0876 EA 3" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-32)..... <i>For Work In Restricted Working Space, Add</i>	18.91 3.01	5.02
22 13 16 00-0877 EA 4" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-415)..... <i>For Work In Restricted Working Space, Add</i>	27.44 3.17	5.28
22 13 16 00-0878 EA 4" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-42)..... <i>For Work In Restricted Working Space, Add</i>	26.06 3.17	5.28
22 13 16 00-0879 EA 4" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-43)..... <i>For Work In Restricted Working Space, Add</i>	23.49 3.17	5.28
22 13 16 00-0880 EA 5" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-53)..... <i>For Work In Restricted Working Space, Add</i>	35.94 3.33	5.54
22 13 16 00-0881 EA 5" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-54)..... <i>For Work In Restricted Working Space, Add</i>	32.01 3.33	5.54
22 13 16 00-0882 EA 6" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-63)..... <i>For Work In Restricted Working Space, Add</i>	45.41 3.49	5.81



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0883 EA 6" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-64).....	39.54	5.81
<i>For Work In Restricted Working Space, Add</i>	3.49	
22 13 16 00-0884 EA 6" x 5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-65).....	41.17	5.81
<i>For Work In Restricted Working Space, Add</i>	3.49	
22 13 16 00-0885 EA 8" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-84).....	81.58	10.56
<i>For Work In Restricted Working Space, Add</i>	6.34	
22 13 16 00-0886 EA 8" x 6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-86).....	65.29	10.56
<i>For Work In Restricted Working Space, Add</i>	6.34	
22 13 16 00-0887 EA 10" x 8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-10-8)	83.91	11.88
<i>For Work In Restricted Working Space, Add</i>	7.13	
22 13 16 00-0888 Elastomeric Flexible Pipe Caps (Fernco QC) (22 13 16)		
<i>Note: For cast iron, steel, copper or plastic pipe. Includes stainless steel clamp.</i>		
22 13 16 00-0889 EA 1-1/2" Elastomeric Flexible Pipe Cap (Fernco QC-101).....	48.80	28.52
22 13 16 00-0890 EA 2" Elastomeric Flexible Pipe Cap (Fernco QC-102).....	52.57	30.32
22 13 16 00-0891 EA 3" Elastomeric Flexible Pipe Cap (Fernco QC-103).....	61.14	34.75
22 13 16 00-0892 EA 4" Elastomeric Flexible Pipe Cap (Fernco QC-104).....	80.55	45.94
22 13 16 00-0893 EA 5" Elastomeric Flexible Pipe Cap (Fernco QC-105).....	96.71	54.93
22 13 16 00-0894 EA 6" Elastomeric Flexible Pipe Cap (Fernco QC-106).....	110.84	63.38
22 13 16 00-0895 EA 8" Elastomeric Flexible Pipe Cap (Fernco QC-108).....	152.30	80.28
22 13 16 00-0896 EA 10" Elastomeric Flexible Pipe Cap (Fernco QC-110).....	193.75	89.78
22 13 16 00-0897 EA 12" Elastomeric Flexible Pipe Cap (Fernco QC-112).....	255.92	99.82
22 13 16 00-0898 Cast Iron Vent Stack Flashing Sleeves With Caulking Recess (Josam 26450 Series) (22 13 16)		
22 13 16 00-0899 EA 1-1/2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	88.64	21.89
22 13 16 00-0900 EA 2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	93.51	24.32
22 13 16 00-0901 EA 3" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	140.15	31.61
22 13 16 00-0902 EA 4" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	164.31	36.48
22 13 16 00-0903 EA 5" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	191.65	41.34
22 13 16 00-0904 EA 6" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	323.17	46.21
22 13 16 00-0905 Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess (Josam 26440 Series) (22 13 16)		
22 13 16 00-0906 EA 1-1/2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	174.21	21.89
22 13 16 00-0907 EA 2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	179.08	24.32
22 13 16 00-0908 EA 3" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	213.17	31.61
22 13 16 00-0909 EA 4" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	266.37	36.48
22 13 16 00-0910 EA 5" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	363.06	41.34
22 13 16 00-0911 EA 6" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	372.79	46.21
22 13 16 00-0912 Cast Iron Vandal Proof Hooded Vent Cap (Josam 26700 Series) (22 13 16)		
<i>Note: Includes counterflashing collar, deep protective hood and recessed securing screws.</i>		
22 13 16 00-0913 EA 1-1/2" Cast Iron Vandal Proof Hooded Vent Cap	330.16	21.89
22 13 16 00-0914 EA 2" Cast Iron Vandal Proof Hooded Vent Cap	335.03	24.32
22 13 16 00-0915 EA 3" Cast Iron Vandal Proof Hooded Vent Cap	385.42	31.61
22 13 16 00-0916 EA 4" Cast Iron Vandal Proof Hooded Vent Cap	433.94	36.48
22 13 16 00-0917 EA 5" Cast Iron Vandal Proof Hooded Vent Cap	506.31	41.34
22 13 16 00-0918 EA 6" Cast Iron Vandal Proof Hooded Vent Cap	553.34	46.21
22 13 19 Sanitary Waste Piping Specialties (22 13)		
22 13 19 13 Sanitary Drains (22 13 19)		
22 13 19 13-0001 Round Top Floor Drains (22 13 19 13)		
22 13 19 13-0002 EA Bronze Top, 6" Round Top Floor Drain With 1-1/2" Outlet.....	633.57	104.58
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0003 EA Bronze Top, 6" Round Top Floor Drain With 2" Outlet.....	696.82	117.22
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0004 EA Bronze Top, 6" Round Top Floor Drain With 3" Outlet.....	683.87	129.67
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0005 EA Bronze Top, 6" Round Top Floor Drain With 4" Outlet.....	710.58	143.10
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
<i>For Sediment Bucket, Add</i>	22.50	

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0006 EA Cast Iron Top, 9" Round Top Floor Drain With 2" Outlet.....	639.31	117.22
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0007 EA Cast Iron Top, 9" Round Top Floor Drain With 3" Outlet.....	664.31	129.67
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0008 EA Cast Iron Top, 9" Round Top Floor Drain With 4" Outlet.....	691.02	143.10
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0009 EA Nikaloy Top, 9" Round Top Floor Drain With 2" Outlet.....	1,042.26	117.22
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0010 EA Nikaloy Top, 9" Round Top Floor Drain With 3" Outlet.....	1,067.26	129.67
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0011 EA Nikaloy Top, 9" Round Top Floor Drain With 4" Outlet.....	1,093.97	143.10
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0012 EA Bronze Top, 9" Round Top Floor Drain With 2" Outlet.....	983.58	117.22
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0013 EA Bronze Top, 9" Round Top Floor Drain With 3" Outlet.....	1,008.44	129.67
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0014 EA Bronze Top, 9" Round Top Floor Drain With 4" Outlet.....	1,035.29	143.10
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	



	Plumbing	22
	Plumbing Piping	22 10
	Facility Sanitary Sewerage	22 13

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0015 EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 2" Outlet.....	1,077.35	117.12
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0016 EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 3" Outlet.....	1,102.33	129.67
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0017 EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 4" Outlet.....	1,129.18	143.10
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0018 EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 2" Outlet.....	1,679.81	117.12
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0019 EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 3" Outlet.....	1,704.79	129.67
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0020 EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 4" Outlet.....	1,731.64	143.10
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0021 EA Bronze Top, 12-5/8" Round Top Floor Drain With 2" Outlet.....	1,599.61	117.12
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0022 EA Bronze Top, 12-5/8" Round Top Floor Drain With 3" Outlet.....	1,624.59	129.67
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0023 EA Bronze Top, 12-5/8" Round Top Floor Drain With 4" Outlet.....	1,651.44	143.10
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0024 Square Or Rectangular Top Drains <small>(22 13 19 13)</small>		
22 13 19 13-0025 EA 5" x 5" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	750.69	117.12
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0026 EA 5" x 5" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	775.95	129.77
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0027 EA 5" x 5" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	802.52	143.10
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0028 EA 6" x 6" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	809.37	117.12
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0029 EA 6" x 6" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	834.63	129.77
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0030 EA 6" x 6" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	861.20	143.10
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0031 EA 8" x 8" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,067.57	117.12
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0032 EA 8" x 8" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,092.83	129.77
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0033 EA 8" x 8" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,119.40	143.10
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0034 EA 5" x 5" Floor Drain With 2" Bottom Outlet, Bronze Top.....	707.65	117.12
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0035 EA 5" x 5" Floor Drain With 3" Bottom Outlet, Bronze Top.....	732.91	129.77
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0036 EA 5" x 5" Floor Drain With 4" Bottom Outlet, Bronze Top.....	759.48	143.10
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0037 EA 6" x 6" Floor Drain With 2" Bottom Outlet, Bronze Top.....	781.98	117.12
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0038 EA 6" x 6" Floor Drain With 3" Bottom Outlet, Bronze Top.....	807.24	129.77
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0039 EA 6" x 6" Floor Drain With 4" Bottom Outlet, Bronze Top.....	833.81	143.10
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0040 EA 8" x 8" Floor Drain With 2" Bottom Outlet, Bronze Top.....	991.28	117.12
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0041 EA 8" x 8" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,016.54	129.77
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
22 13 19 13-0042 EA 8" x 8" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,043.11	143.10
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22	13	19	13-0043	EA 12" x 12" Can Wash Drain With 3" Bottom Outlet, Cast Iron Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i>	2,526.61 318.00 48.50 76.00	129.77
22	13	19	13-0044	EA 12" x 12" Can Wash Drain With 4" Bottom Outlet, Cast Iron Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i>	2,553.18 318.00 48.50 76.00	143.10
22	13	19	13-0045	EA 12" x 12" Can Wash Drain With 3" Bottom Outlet, Nikaloy Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i>	3,164.28 318.00 48.50 76.00	129.77
22	13	19	13-0046	EA 12" x 12" Can Wash Drain With 4" Bottom Outlet, Nikaloy Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i>	3,190.85 318.00 48.50 76.00	143.10
22	13	19	13-0047	EA 12" x 12" Can Wash Drain With 3" Bottom Outlet, Bronze Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i>	3,088.00 318.00 48.50 76.00	129.77
22	13	19	13-0048	EA 12" x 12" Can Wash Drain With 4" Bottom Outlet, Bronze Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i>	3,114.57 318.00 48.50 76.00	143.10
22	13	19	13-0049	EA 5" x 9" Floor Drain With 2" Bottom Outlet, Nikaloy Top..... <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,083.22 11.00 120.94 22.50	117.12
22	13	19	13-0050	EA 5" x 9" Floor Drain With 3" Bottom Outlet, Nikaloy Top..... <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,108.48 11.00 120.94 22.50	129.77
22	13	19	13-0051	EA 5" x 9" Floor Drain With 4" Bottom Outlet, Nikaloy Top..... <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,135.05 11.00 120.94 22.50	143.10
22	13	19	13-0052	EA 5" x 13" Floor Drain With 2" Bottom Outlet, Nikaloy Top..... <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,386.40 11.00 120.94 22.50	117.12
22	13	19	13-0053	EA 5" x 13" Floor Drain With 3" Bottom Outlet, Nikaloy Top..... <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,411.66 11.00 120.94 22.50	129.77
22	13	19	13-0054	EA 5" x 13" Floor Drain With 4" Bottom Outlet, Nikaloy Top..... <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,438.23 11.00 120.94 22.50	143.10
22	13	19	13-0055	EA 5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Nikaloy Top..... <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,456.82 11.00 120.94 22.50	117.12
22	13	19	13-0056	EA 5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Nikaloy Top..... <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,482.08 11.00 120.94 22.50	129.77
22	13	19	13-0057	EA 5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Nikaloy Top..... <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,508.65 11.00 120.94 22.50	143.10
22	13	19	13-0058	EA 5" x 21" Floor Drain With 2" Bottom Outlet, Nikaloy Top..... <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	2,002.56 11.00 120.94 22.50	117.12
22	13	19	13-0059	EA 5" x 21" Floor Drain With 3" Bottom Outlet, Nikaloy Top..... <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	2,027.82 11.00 120.94 22.50	129.77
22	13	19	13-0060	EA 5" x 21" Floor Drain With 4" Bottom Outlet, Nikaloy Top..... <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	2,054.39 11.00 120.94 22.50	143.10
22	13	19	13-0061	EA 5" x 9" Floor Drain With 2" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,020.62 11.00 120.94 22.50	117.12
22	13	19	13-0062	EA 5" x 9" Floor Drain With 3" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,045.88 11.00 120.94 22.50	129.77
22	13	19	13-0063	EA 5" x 9" Floor Drain With 4" Bottom Outlet, Bronze Top <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,072.45 11.00 120.94 22.50	143.10



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0064 EA 5" x 13" Floor Drain With 2" Bottom Outlet, Bronze Top	1,278.82	117.12
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
For Sediment Bucket, Add	22.50	
22 13 19 13-0065 EA 5" x 13" Floor Drain With 3" Bottom Outlet, Bronze Top	1,304.08	129.77
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
For Sediment Bucket, Add	22.50	
22 13 19 13-0066 EA 5" x 13" Floor Drain With 4" Bottom Outlet, Bronze Top	1,330.65	143.10
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
For Sediment Bucket, Add	22.50	
22 13 19 13-0067 EA 5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Bronze Top	1,349.24	117.12
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
For Sediment Bucket, Add	22.50	
22 13 19 13-0068 EA 5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Bronze Top	1,374.50	129.77
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
For Sediment Bucket, Add	22.50	
22 13 19 13-0069 EA 5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Bronze Top	1,401.07	143.10
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
For Sediment Bucket, Add	22.50	
22 13 19 13-0070 EA 5" x 21" Floor Drain With 2" Bottom Outlet, Bronze Top	1,793.26	117.12
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
For Sediment Bucket, Add	22.50	
22 13 19 13-0071 EA 5" x 21" Floor Drain With 3" Bottom Outlet, Bronze Top	1,818.52	129.77
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
For Sediment Bucket, Add	22.50	
22 13 19 13-0072 EA 5" x 21" Floor Drain With 4" Bottom Outlet, Bronze Top	1,845.09	143.10
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
For Sediment Bucket, Add	22.50	
22 13 19 13-0073 Funnel Type Floor Drains <small>(22 13 19 13)</small>		
22 13 19 13-0074 EA 7" Diameter Floor Drain With 4" Round Funnel With 1-1/2" Outlet, Bronze Top	1,020.96	104.58
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0075 EA 7" Diameter Floor Drain With 4" Round Funnel With 2" Outlet, Bronze Top	1,046.05	117.12
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0076 EA 7" Diameter Floor Drain With 4" Round Funnel With 3" Outlet, Bronze Top	1,071.03	129.67
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0077 EA 7" Diameter Floor Drain With 4" Round Funnel With 4" Outlet, Bronze Top	1,097.88	143.10
For Vandal Proof Screws, Add	11.00	
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0078 EA 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Nikaloy Top	1,486.16	117.12
For Vandal Proof Screws, Add	11.00	
For Primer Tap, Add	15.10	
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0079 EA 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Nikaloy Top	1,511.14	129.67
For Vandal Proof Screws, Add	11.00	
For Primer Tap, Add	15.10	
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0080 EA 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Nikaloy Top	1,537.99	143.10
For Vandal Proof Screws, Add	11.00	
For Primer Tap, Add	15.10	
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0081 EA 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Bronze Top	1,409.88	117.12
For Vandal Proof Screws, Add	11.00	
For Primer Tap, Add	15.10	
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0082 EA 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Bronze Top	1,434.86	129.67
For Vandal Proof Screws, Add	11.00	
For Primer Tap, Add	15.10	
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0083 EA 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Bronze Top	1,461.71	143.10
For Vandal Proof Screws, Add	11.00	
For Primer Tap, Add	15.10	
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0084 Floor Drain With Sediment Bucket Bottom Outlet <small>(22 13 19 13)</small>					
22 13 19 13-0085	EA		12-5/8" Round Floor Drain With Sediment Bucket, 2" Bottom Outlet, Satin Bronze Top, Without Trap <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Primer Tap, Add</i>	2,139.73 30.50 247.00 33.50	104.58
22 13 19 13-0086	EA		12-5/8" Round Floor Drain With Sediment Bucket, 3" Bottom Outlet, Satin Bronze Top, Without Trap <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Primer Tap, Add</i>	2,164.91 30.50 247.00 33.50	117.12
22 13 19 13-0087	EA		12-5/8" Round Floor Drain With Sediment Bucket, 4" Bottom Outlet, Satin Bronze Top, Without Trap <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Primer Tap, Add</i>	2,189.89 30.50 247.00 33.50	129.67
22 13 19 13-0088	EA		12-5/8" Round Floor Drain With Sediment Bucket, 5" Bottom Outlet, Satin Bronze Top, Without Trap <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Primer Tap, Add</i>	2,216.74 30.50 247.00 33.50	143.10
22 13 19 13-0089	EA		12-5/8" Round Floor Drain With Sediment Bucket, 6" Bottom Outlet, Satin Bronze Top, Without Trap <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Primer Tap, Add</i>	2,244.42 30.50 247.00 33.50	156.91
22 13 19 13-0090	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,313.57 29.50 31.00 77.50 273.75	117.12
22 13 19 13-0091	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,338.83 29.50 31.00 77.50 273.75	129.77
22 13 19 13-0092	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,365.40 29.50 31.00 77.50 273.75	143.10
22 13 19 13-0093	EA		12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,393.08 29.50 31.00 77.50 273.75	156.91
22 13 19 13-0094	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,431.39 29.50 31.00 77.50 273.75	117.12
22 13 19 13-0095	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,456.65 29.50 31.00 77.50 273.75	129.77
22 13 19 13-0096	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,483.22 29.50 31.00 77.50 273.75	143.10
22 13 19 13-0097	EA		12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,510.90 29.50 31.00 77.50 273.75	156.91
22 13 19 13-0098	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,161.00 29.50 31.00 77.50 273.75	117.12
22 13 19 13-0099	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate <i>For Vandal Proof Screws, Add</i> <i>For Primer Tap, Add</i> <i>For Aluminum Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,186.26 29.50 31.00 77.50 273.75	129.77



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0100 EA 12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,212.83	143.10
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	31.00	
For Aluminum Bucket, Add	77.50	
For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0101 EA 12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,240.51	156.91
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	31.00	
For Aluminum Bucket, Add	77.50	
For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0102 Other Drains (22 13 19 13)		
22 13 19 13-0103 Shower Drains (22 13 19 13-0102)		
22 13 19 13-0104 EA 4-1/4" Stainless Steel Shower Drain Strainer.....	39.31	10.56
Note: Includes two 2-5/8" screws.		
22 13 19 13-0105 EA 4-1/4" Brass Shower Drain Strainer.....	43.41	10.56
Note: Includes two 2-5/8" screws.		
22 13 19 13-0106 EA 4" Brass Shower Drain For Polyvinyl Chloride (PVC) Pipe.....	91.59	21.13
Note: Fits over 2" polyvinyl chloride (PVC) pipe or inside 3" polyvinyl chloride (PVC) pipe.		
22 13 19 13-0107 EA 4" Chrome Finish, Threaded Brass Shower Drain And Gasket.....	115.16	21.13
Note: For 2" pipe. Kohler K-9132.		
22 13 19 13-0108 Acid Resistant Floor Drains (22 13 19 13-0102)		
22 13 19 13-0109 EA 9" Diameter Floor Drain With 2" Bottom Outlet, Acid Resistant Top.....	1,028.69	104.58
For Vandal Proof Screws, Add	30.50	
For Galvanized Cast Iron Parts, Add	87.50	
For Primer Tap, Add	33.50	
22 13 19 13-0110 EA 9" Diameter Floor Drain With 3" Bottom Outlet, Acid Resistant Top.....	1,053.87	117.12
For Vandal Proof Screws, Add	30.50	
For Galvanized Cast Iron Parts, Add	87.50	
For Primer Tap, Add	33.50	
22 13 19 13-0111 EA 9" Diameter Floor Drain With 4" Bottom Outlet, Acid Resistant Top.....	1,078.85	129.67
For Vandal Proof Screws, Add	30.50	
For Galvanized Cast Iron Parts, Add	87.50	
For Primer Tap, Add	33.50	
22 13 19 13-0112 Rotary And Lever Drains (22 13 19 13-0102)		
22 13 19 13-0113 EA 1-1/2" Drain, 3" Sink Opening Lever Drain.....	231.03	70.53
22 13 19 13-0114 EA 2" Drain, 3" Sink Opening Lever Drain.....	245.62	77.82
22 13 19 13-0115 EA 1-1/2" Drain, 3-1/2" Sink Opening Lever Drain.....	231.03	70.53
22 13 19 13-0116 EA 2" Drain, 3-1/2" Sink Opening Lever Drain.....	245.62	77.82
22 13 19 13-0117 EA 1-1/2" Drain, 3" Sink Opening Twist Drain.....	231.03	70.53
22 13 19 13-0118 EA 2" Drain, 3" Sink Opening Twist Drain.....	245.62	77.82
22 13 19 13-0119 EA 1-1/2" Drain, 3-1/2" Sink Opening Twist Drain.....	231.03	70.53
22 13 19 13-0120 EA 2" Drain, 3-1/2" Sink Opening Twist Drain.....	245.62	77.82
22 13 19 13-0121 EA 1-1/2"-2" Drain, 3-1/2" Sink Opening Rotary Twist Drain (Fisher 16100).....	315.04	77.82
22 13 19 13-0122 Floor Receptor (22 13 19 13)		
22 13 19 13-0123 9" Diameter Round Shallow Receptor (22 13 19 13-0122)		
Note: With slotted medium duty grate, aluminum secondary strainer and white acid resisting coated interior and top.		
22 13 19 13-0124 EA 9" Diameter x 3" Shallow Cast Iron Floor Receptor, 2" Drain Connection.....	1,259.42	117.22
For Flange With Seepage Holes, Add	58.50	
For Flange With Seepage Holes And Clamp Collar, Add	97.00	
For Trap Primer Connection, Add	38.00	
For Full Grate With 2" Square Center Opening, Add	36.00	
For Vandal Proof Secured Grate, Add	33.50	
For White Acid Resistant Bucket, Add	47.00	
For Stainless Steel Liner For Bucket, Add	62.50	
22 13 19 13-0125 EA 9" Diameter x 3" Shallow Cast Iron Floor Receptor, 3" Drain Connection.....	1,284.79	129.86
For Flange With Seepage Holes, Add	58.50	
For Flange With Seepage Holes And Clamp Collar, Add	97.00	
For Trap Primer Connection, Add	38.00	
For Full Grate With 2" Square Center Opening, Add	36.00	
For Vandal Proof Secured Grate, Add	33.50	
For White Acid Resistant Bucket, Add	47.00	
For Stainless Steel Liner For Bucket, Add	62.50	
22 13 19 13-0126 EA 9" Diameter x 3" Shallow Cast Iron Floor Receptor, 4" Drain Connection.....	1,311.09	143.10
For Flange With Seepage Holes, Add	58.50	
For Flange With Seepage Holes And Clamp Collar, Add	97.00	
For Trap Primer Connection, Add	38.00	
For Full Grate With 2" Square Center Opening, Add	36.00	
For Vandal Proof Secured Grate, Add	33.50	
For White Acid Resistant Bucket, Add	47.00	
For Stainless Steel Liner For Bucket, Add	62.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0127 Square Top Floor Receptors <small>(22 13 19 13-0122)</small>		
<i>Note: With acid resistant coating.</i>		
22 13 19 13-0128 EA 8" x 8" Floor Drain With 1-1/2" Bottom Outlet, Acid Resistant Top.....	1,476.72	104.58
<i>For Flange With Seepage Holes, Add</i>		
<i>For Flange With Seepage Holes And Clamp Collar, Add</i>		
<i>For Trap Primer Connection, Add</i>		
<i>For Full Grate With 2" Square Center Opening, Add</i>		
<i>For Vandal Proof Secured Grate, Add</i>		
<i>For White Acid Resistant Bucket, Add</i>		
<i>For Stainless Steel Liner For Bucket, Add</i>		
22 13 19 13-0129 EA 8" x 8" Floor Drain With 2" Bottom Outlet, Acid Resistant Top.....	1,501.93	117.22
<i>For Flange With Seepage Holes, Add</i>		
<i>For Flange With Seepage Holes And Clamp Collar, Add</i>		
<i>For Trap Primer Connection, Add</i>		
<i>For Full Grate With 2" Square Center Opening, Add</i>		
<i>For Vandal Proof Secured Grate, Add</i>		
<i>For White Acid Resistant Bucket, Add</i>		
<i>For Stainless Steel Liner For Bucket, Add</i>		
22 13 19 13-0130 EA 8" x 8" Floor Drain With 3" Bottom Outlet, Acid Resistant Top.....	1,526.79	129.67
<i>For Flange With Seepage Holes, Add</i>		
<i>For Flange With Seepage Holes And Clamp Collar, Add</i>		
<i>For Trap Primer Connection, Add</i>		
<i>For Full Grate With 2" Square Center Opening, Add</i>		
<i>For Vandal Proof Secured Grate, Add</i>		
<i>For White Acid Resistant Bucket, Add</i>		
<i>For Stainless Steel Liner For Bucket, Add</i>		
22 13 19 13-0131 EA 8" x 8" Floor Drain With 4" Bottom Outlet, Acid Resistant Top.....	1,553.64	143.10
<i>For Flange With Seepage Holes, Add</i>		
<i>For Flange With Seepage Holes And Clamp Collar, Add</i>		
<i>For Trap Primer Connection, Add</i>		
<i>For Full Grate With 2" Square Center Opening, Add</i>		
<i>For Vandal Proof Secured Grate, Add</i>		
<i>For White Acid Resistant Bucket, Add</i>		
<i>For Stainless Steel Liner For Bucket, Add</i>		
22 13 19 13-0132 Floor Drain Accessories <small>(22 13 19 13)</small>		
22 13 19 13-0133 EA 3" Trap Guard Floor Drain Insert (ProVent TG3H).....	82.53	12.16
<i>Note: Prevents emission of sewer gases.</i>		
22 13 19 13-0134 EA 2" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG22).....	67.98	12.16
<i>Note: Prevents emission of sewer gases.</i>		
22 13 19 13-0135 EA 3" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG33).....	73.80	12.16
<i>Note: Prevents emission of sewer gases.</i>		
22 13 19 13-0136 EA 3" Trap Guard Drain Insert For 4" Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG34IP).....	88.35	12.16
<i>Note: Prevents emission of sewer gases.</i>		
22 13 19 13-0137 EA 3" Trap Guard Drain Insert For 4" Hub (ProVent TG34TP).....	79.62	12.16
<i>Note: Prevents emission of sewer gases.</i>		
22 13 19 13-0138 EA 2" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-02).....	111.86	12.16
<i>Note: Prevents emission of sewer gases.</i>		
22 13 19 13-0139 EA 3" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-03).....	123.58	12.16
<i>Note: Prevents emission of sewer gases.</i>		
22 13 19 13-0140 EA 4" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-04).....	152.66	12.16
<i>Note: Prevents emission of sewer gases.</i>		
22 13 19 26 Grease Removal Devices <small>(22 13 19)</small>		
22 13 19 26-0001 Manual Cleaning Epoxy Coated Steel Grease Interceptor <small>(22 13 19 26)</small>		
<i>Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval and flow control fitting.</i>		
22 13 19 26-0002 Standard Manual Cleaning Epoxy Coated Steel Grease Interceptor <small>(22 13 19 26-0001)</small>		
<i>Note: Josam 60100H/60210A, Smith 8100/8400, Wade 5100, or Zum Z1173/Z1170 series.</i>		
22 13 19 26-0003 EA 7 GPM, 14 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	944.26	72.96
<i>Note: Josam 60102H.</i>		
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>		
22 13 19 26-0004 EA 10 GPM, 20 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	1,099.81	164.16
<i>Note: Josam 60103H.</i>		
<i>For Flange And Clamp Device, Add</i>		
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>		
22 13 19 26-0005 EA 15 GPM, 30 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	1,547.50	182.39
<i>Note: Josam 60104H.</i>		
<i>For Flange And Clamp Device, Add</i>		
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>		
22 13 19 26-0006 EA 20 GPM, 40 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	1,863.96	200.64
<i>Note: Josam 60105H.</i>		
<i>For Flange And Clamp Device, Add</i>		
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>		
22 13 19 26-0007 EA 25 GPM, 50 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	2,085.37	218.88
<i>Note: Josam 60106H.</i>		
<i>For Flange And Clamp Device, Add</i>		
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 26-0008 EA 35 GPM, 70 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	2,557.39	255.36
Note: Josam 60107H.		
For Flange And Clamp Device, Add	472.00	
For Steel Enclosure Cabinet With Non Skid Cover, Add	1,861.11	
22 13 19 26-0009 EA 50 GPM, 100 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	3,325.05	291.83
Note: Josam 60108H.		
For Flange And Clamp Device, Add	537.28	
For Steel Enclosure Cabinet With Non Skid Cover, Add	1,983.03	
22 13 19 26-0010 EA 75 GPM, 150 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	6,471.54	328.31
Note: Josam 60109H.		
For Flange And Clamp Device, Add	762.88	
22 13 19 26-0011 EA 100 GPM, 200 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	7,332.50	408.35
Note: Josam 60110H.		
For Flange And Clamp Device, Add	880.24	
22 13 19 26-0012 EA 150 GPM, 300 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	9,086.67	653.37
Note: Josam 60213A.		
For Flange And Clamp Device, Add	1,203.58	
22 13 19 26-0013 EA 200 GPM, 400 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	13,007.20	816.71
Note: Josam 60214A.		
For Flange And Clamp Device, Add	1,441.76	
22 13 19 26-0014 EA 250 GPM, 500 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	15,180.43	980.05
Note: Josam 60215A.		
For Flange And Clamp Device, Add	1,863.61	
22 13 19 26-0015 EA 350 GPM, 700 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	19,690.27	1,143.40
Note: Josam 60216A.		
For Flange And Clamp Device, Add	2,210.27	
22 13 19 26-0016 EA 500 GPM, 1,000 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	25,428.47	1,306.73
Note: Josam 60217A.		
For Flange And Clamp Device, Add	2,592.44	
22 13 19 26-0017 Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0001)		
Note: Josam 60110A, Smith 8100, Wade 5100LR, or Zurn Z1171 series.		
22 13 19 26-0018 EA 20 GPM, 40 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	2,660.42	200.64
Note: Josam 60115A.		
22 13 19 26-0019 EA 35 GPM, 70 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	3,421.73	255.36
Note: Josam 60117A.		
22 13 19 26-0020 EA 50 GPM, 100 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	5,609.85	291.83
Note: Smith 8150.		
22 13 19 26-0021 Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26)		
Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval, grease recovery cone, flexible hose, grease draw off valve and flow control fitting.		
22 13 19 26-0022 Standard Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0021)		
Note: Josam 60100-SA, Smith 8300GTX, Wade 5100JCX, or Zurn Z1173-TD series.		
22 13 19 26-0023 EA 7 GPM, 14 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor	2,330.02	72.96
Note: Josam 60102-SA.		
For Steel Enclosure Cabinet With Non Skid Cover, Add	1,304.32	
22 13 19 26-0024 EA 10 GPM, 20 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor	2,737.99	164.16
Note: Josam 60103-SA.		
For Steel Enclosure Cabinet With Non Skid Cover, Add	1,377.60	
22 13 19 26-0025 EA 15 GPM, 30 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor	2,927.23	182.39
Note: Josam 60104-SA.		
For Steel Enclosure Cabinet With Non Skid Cover, Add	1,504.32	
22 13 19 26-0026 EA 20 GPM, 40 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor	3,566.50	200.64
Note: Josam 60105-SA.		
For Steel Enclosure Cabinet With Non Skid Cover, Add	1,625.60	
22 13 19 26-0027 EA 25 GPM, 50 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor	4,293.24	218.88
Note: Josam 60106-SA.		
For Steel Enclosure Cabinet With Non Skid Cover, Add	1,692.15	
22 13 19 26-0028 EA 35 GPM, 70 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor	4,446.97	255.36
Note: Josam 60107-SA.		
For Steel Enclosure Cabinet With Non Skid Cover, Add	1,861.11	
22 13 19 26-0029 EA 50 GPM, 100 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor	5,076.36	291.83
Note: Josam 60108-SA.		
For Steel Enclosure Cabinet With Non Skid Cover, Add	1,983.03	
22 13 19 26-0030 Low Profile Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0021)		
Note: Josam 60115A-SA, Smith 8100GTX, or Zurn Z1171-TD series.		
22 13 19 26-0031 EA 35 GPM, 70 LB Capacity Low Profile Semi Automatic Epoxy Coated Steel Grease Interceptor.....	5,951.39	255.36
Note: Josam 60115A-SA.		
22 13 19 26-0032 Automatic Cleaning Stainless Steel Grease Interceptor (22 13 19 26)		
22 13 19 26-0033 EA 20 GPM, 69 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor	5,110.47	200.64
Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 20 Greasestopper).		



	Plumbing	22
	Plumbing Piping	22 10
	Facility Sanitary Sewerage	22 13

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 26-0034 EA 25 GPM, 91 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor	5,932.72	218.88
Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Low Engineering 25 Greasestopper).		
22 13 19 26-0035 EA 35 GPM, 70 LB Capacity, 110 Volt, Automatic Cleaning Stainless Steel Grease Trap/Removal Device (Guardian GGX35).....	5,112.95	255.36
22 13 19 26-0036 Precast Concrete Grease Interceptor (22 13 19 26)		
Note: Includes two access manholes, cast iron non-skid surface, lift hole, frame and cover for heavy-traffic.		
22 13 19 26-0037 EA 1,000 Gallon Pre-Cast Grease Interceptor	5,893.89	367.18
22 13 19 26-0038 EA 1,250 Gallon Pre-Cast Grease Interceptor	6,753.89	367.18
22 13 19 26-0039 EA 1,500 Gallon Pre-Cast Grease Interceptor	7,664.96	419.78
22 13 19 26-0040 EA 2,000 Gallon Pre-Cast Grease Interceptor	8,699.70	592.83
22 13 19 26-0041 EA 2,500 Gallon Pre-Cast Grease Interceptor	9,769.53	797.61
22 13 19 26-0042 EA 4,000 Gallon Pre-Cast Grease Interceptor	14,682.34	1,049.40
22 13 19 26-0043 EA 5,000 Gallon Pre-Cast Grease Interceptor	18,775.70	1,720.85
22 13 19 26-0044 Coated Steel Manual Oil Interceptor (22 13 19 26)		
Note: Includes internal air relief, and flow control fitting.		
22 13 19 26-0045 EA 10 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	3,029.23	277.80
22 13 19 26-0046 EA 15 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	4,054.55	330.10
22 13 19 26-0047 EA 20 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	4,912.91	406.15
22 13 19 26-0048 EA 25 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	5,335.75	439.95
22 13 19 26-0049 EA 35 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	6,374.96	480.08
22 13 19 26-0050 EA 50 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	8,342.15	528.15
22 13 19 26-0051 EA 75 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	13,834.53	607.99
22 13 19 26-0052 EA 100 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	15,174.47	748.07
22 13 19 26-0053 EA 150 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	18,567.59	810.82
22 13 19 26-0054 EA 200 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	25,888.03	972.78
22 13 19 26-0055 EA 250 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	29,819.67	1,045.74
22 13 19 26-0056 EA 350 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	37,521.03	1,247.11
22 13 19 26-0057 EA 400 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	45,019.17	1,021.91
22 13 19 26-0058 EA 500 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	53,333.54	1,215.99
22 13 19 33 Backwater Valves (22 13 19)		
22 13 19 33-0001 Cast Iron Body Terminal Backwater Valves (22 13 19 33)		
22 13 19 33-0002 EA 2" Cast Iron Body Terminal Backwater Valve.....	317.50	27.91
22 13 19 33-0003 EA 3" Cast Iron Body Terminal Backwater Valve.....	328.20	35.12
22 13 19 33-0004 EA 4" Cast Iron Body Terminal Backwater Valve.....	471.84	46.69
22 13 19 33-0005 EA 6" Cast Iron Body Terminal Backwater Valve.....	1,243.98	63.71
22 13 19 33-0006 EA 8" Cast Iron Body Terminal Backwater Valve.....	1,523.41	83.84
22 13 19 33-0007 EA 10" Cast Iron Body Terminal Backwater Valve.....	4,356.05	103.44
22 13 19 33-0008 EA 12" Cast Iron Body Terminal Backwater Valve.....	4,940.93	134.16
22 13 19 33-0009 Cast Iron Backwater Sewer Line Valve (22 13 19 33)		
Note: Offset type with bronze swing check assembly, threaded bronze cover, and bell and spigot connections.		
22 13 19 33-0010 EA 2" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	793.35	66.55
22 13 19 33-0011 EA 3" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	1,198.23	80.74
22 13 19 33-0012 EA 4" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	1,484.58	104.09
22 13 19 33-0013 EA 6" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	2,064.14	115.75
22 13 19 33-0014 EA 8" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	2,849.16	137.16
22 13 19 33-0015 Cast Iron, Straight Through Shear Gate, Swing Check Backwater Valve (22 13 19 33)		
Note: Offset type with bronze, manually operated shear gate, non-rising stem, and bell and spigot connections.		
22 13 19 33-0016 EA 3" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	2,100.29	105.36
22 13 19 33-0017 EA 4" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	2,152.42	140.08
22 13 19 33-0018 EA 5" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	3,117.37	171.43
22 13 19 33-0019 EA 6" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	3,147.16	191.11
22 13 19 33-0020 Polyvinyl Chloride (PVC) Backwater Sewer Line Valve (22 13 19 33)		
Note: Oatey.		
22 13 19 33-0021 EA 3" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43900).....	109.52	35.12
22 13 19 33-0022 EA 4" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43904).....	132.75	46.69
22 13 19 33-0023 EA 6" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43908).....	363.06	63.71
22 13 19 33-0024 Polyvinyl Chloride (PVC) Extendable Backwater Valves (22 13 19 33)		
22 13 19 33-0025 EA 3" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	254.17	70.23
Note: Includes valve body, flapper assembly and collar.		
22 13 19 33-0026 EA 4" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	338.45	93.39
Note: Includes valve body, flapper assembly and collar.		
22 13 19 33-0027 EA 6" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	570.93	127.40
Note: Includes valve body, flapper assembly and collar.		



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 13 19 36 Air-Admittance Valves (22 13 19)

22 13 19 36-0001 Acrylonitrile Butadiene Styrene (ABS) And Polyvinyl Chloride (PVC) Automatic Drain Vent (22 13 19 36)

22 13 19 36-0002	EA	1-1/4", 1-1/2" And 2" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Mini Vent.....	136.35	13.62
22 13 19 36-0003	EA	2", 3" And 4" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Maxi Vent.....	161.65	13.62

22 13 23 Sanitary Waste Interceptors (22 13)

22 13 23 00-0001 Sediment Bucket Solids Interceptors (22 13 23)

22 13 23 00-0002	EA	1-1/2" Or 2" Top Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1180).....	919.40	137.75
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.				
22 13 23 00-0003	EA	1-1/2" Or 2" Bottom Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1184).....	920.51	137.75
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.				
22 13 23 00-0004	EA	1-1/2" Or 2" Top Access, Acid Resistant Coated Steel (Inside And Outside), Aluminum Cover, Removable Stainless Steel Sediment Bucket Solids Interceptor (Jay R. Smith 8714 ARI0).....	1,281.15	137.75
Note: On floor mount. Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.				
22 13 23 00-0005	EA	1-1/2" Or 2" Bottom Access, 15 GPM, Acid Resistant Coated Cast Iron, Aluminum Strainer, Removable Stainless Steel Screens, Sediment Bucket Solids Interceptor (Jay R. Smith 8730-ARI0).....	1,281.15	137.75
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.				
22 13 23 00-0006	EA	1-1/2" Or 2" Top Access, Acid Resistant Coated Cast Aluminum (Inside And Outside) Removable Stainless Steel Screen, Sediment Bucket Solids Interceptor (Josam 61030).....	1,362.80	137.75
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.				

22 13 23 00-0007 Solid Interceptors, Cast Iron With Internal Deep Seal Trap (22 13 23)

22 13 23 00-0008	EA	1-1/2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....	316.75	47.11
For Stainless Steel Bucket, Add			175.00	
22 13 23 00-0009	EA	2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....	322.78	50.18
For Stainless Steel Bucket, Add			175.00	

22 13 23 00-0010 Sediment Strainers (22 13 23)

22 13 23 00-0011	EA	2" Strainer, Pump Suction Side.....	146.81	64.17
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22 13 29 Sanitary Sewerage Pumps (22 13)

Note: Includes extra set of gaskets, bearings and seals.

22 13 29 13 Wet-Pit-Mounted, Vertical Sewerage Pumps (22 13 29)

22 13 29 13-0001 Vertical Column, Flanged Discharge, Non-Clog Sump Or Drainage Pumps (Crane-DeMing Series 4500) (22 13 29 13)

Note: Mounted on steel support plate. Excludes float and float switch, and sump cover See CSI section 22 13 29 13-0030 for float and float switch, 22 13 29 13-0034 for sump cover.

22 13 29 13-0002 1-1/2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)

22 13 29 13-0003	EA	1/2 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	5,772.51	1,166.95
22 13 29 13-0004	EA	3/4 HP, Up To 125 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	5,983.86	1,166.95
22 13 29 13-0005	EA	1 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	6,195.22	1,166.95
22 13 29 13-0006	EA	1-1/2 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	6,396.81	1,166.95

22 13 29 13-0007 2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)

22 13 29 13-0008	EA	3/4 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	6,357.80	1,166.95
22 13 29 13-0009	EA	1 HP, Up To 100 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	6,439.08	1,166.95
22 13 29 13-0010	EA	2 HP, Up To 200 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	6,495.99	1,166.95
22 13 29 13-0011	EA	3 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	6,886.18	1,166.95
22 13 29 13-0012	EA	5 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,268.24	1,166.95
22 13 29 13-0013	EA	7-1/2 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,853.53	1,166.95
22 13 29 13-0014	EA	10 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	8,438.82	1,166.95
22 13 29 13-0015	EA	15 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	9,796.13	1,552.95

22 13 29 13-0016 3" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)

22 13 29 13-0017	EA	2 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	6,765.11	1,166.95
22 13 29 13-0018	EA	3 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	6,765.11	1,166.95
22 13 29 13-0019	EA	5 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	6,905.95	1,166.95
22 13 29 13-0020	EA	7-1/2 HP, Up To 700 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	7,998.74	1,166.95
22 13 29 13-0021	EA	10 HP, Up To 800 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	8,190.44	1,166.95
22 13 29 13-0022	EA	15 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	9,863.56	1,552.95
22 13 29 13-0023	EA	20 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	10,351.30	1,552.95



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 13-0024 Extra Column Assemblies Addition, 5' Or Less <small>(22 13 29 13-0001)</small>		
22 13 29 13-0025 EA 2-1/2" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	544.22	
22 13 29 13-0026 EA 3" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	653.44	
22 13 29 13-0027 EA 4" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	730.37	
22 13 29 13-0028 EA 5" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	743.67	
22 13 29 13-0029 EA 6" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	834.84	
22 13 29 13-0030 Float Switches <small>(22 13 29 13-0001)</small>		
Note: Copper coated floats, brass rods and stops and switch brackets.		
22 13 29 13-0031 EA Float Switch Copper Coated Float, Add, General Purpose For vertical sewage pumps.....	489.13	
22 13 29 13-0032 EA Float Switch Copper Coated Float, Add, Weather Proof For vertical sewage pumps.....	513.82	
22 13 29 13-0033 EA Float Switch Copper Coated Float, Add, Explosion Proof For vertical sewage pumps.....	525.22	
22 13 29 13-0034 Square Or Round Steel Sump Covers <small>(22 13 29 13-0001)</small>		
22 13 29 13-0035 EA 24" Steel Sump Covers, Square Or Round.....	581.65	38.91
22 13 29 13-0036 EA 30" Steel Sump Covers, Square Or Round.....	644.07	43.77
22 13 29 13-0037 EA 36" Steel Sump Covers, Square Or Round.....	892.79	58.37
22 13 29 13-0038 EA 40" Steel Sump Covers, Square Or Round.....	1,289.06	68.10
22 13 29 13-0039 EA 42" Steel Sump Covers, Square Or Round.....	1,380.94	70.53
22 13 29 13-0040 EA 48" Steel Sump Covers, Square Or Round.....	1,475.76	72.96
22 13 29 13-0041 EA 54" Steel Sump Covers, Square Or Round.....	1,877.80	87.55
22 13 29 13-0042 EA 60" Steel Sump Covers, Square Or Round.....	2,535.17	97.28
22 13 29 13-0043 EA 72" Steel Sump Covers, Square Or Round.....	3,214.77	121.60
22 13 29 13-0044 EA 84" Steel Sump Covers, Square Or Round.....	4,078.38	133.75
22 13 29 16 Submersible Sewerage Pumps <small>(22 13 29)</small>		
22 13 29 16-0001 Submersible Sewage Pumps With Vortex Impeller <small>(22 13 29 16)</small>		
22 13 29 16-0002 Submersible Single Seal Sewage Pumps With Cast Iron Vortex Impeller <small>(22 13 29 16-0001)</small>		
Note: Includes 25' cord.		
22 13 29 16-0003 EA 1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,052.10	70.77
22 13 29 16-0004 EA 1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,118.41	70.77
22 13 29 16-0005 EA 1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,098.01	70.77
22 13 29 16-0006 EA 1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,195.78	70.77
22 13 29 16-0007 EA 1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,195.78	70.77
22 13 29 16-0008 EA 1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,274.11	88.46
22 13 29 16-0009 EA 1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,360.83	88.46
22 13 29 16-0010 EA 1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,371.88	88.46
22 13 29 16-0011 Submersible Single Seal Sewage Pumps With Bronze Vortex Impeller <small>(22 13 29 16-0001)</small>		
Note: Includes 20' cord.		
22 13 29 16-0012 EA 1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,070.80	70.77
22 13 29 16-0013 EA 1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,166.02	70.77
22 13 29 16-0014 EA 1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,120.96	70.77
22 13 29 16-0015 EA 1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,212.79	70.77
22 13 29 16-0016 EA 1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,295.25	70.77
22 13 29 16-0017 EA 1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,221.40	88.46
22 13 29 16-0018 EA 1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,320.02	88.46
22 13 29 16-0019 EA 1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,319.17	88.46
22 13 29 16-0020 EA 1-1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,538.83	142.60
22 13 29 16-0021 EA 1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,622.15	142.60
22 13 29 16-0022 EA 1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,636.61	142.60
22 13 29 16-0023 EA 2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,664.02	174.29
22 13 29 16-0024 EA 2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,759.24	174.29



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0025 EA 2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,761.79	174.29
22 13 29 16-0026 Submersible Double Seal Sewage Pumps With Bronze Vortex Impeller <small>(22 13 29 16-0001)</small> Note: Includes 20' cord.		
22 13 29 16-0027 EA 1/2 HP Manual Submersible Double Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,261.25	70.77
22 13 29 16-0028 EA 1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,422.79	70.77
22 13 29 16-0029 EA 1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller	1,402.49	88.46
22 13 29 16-0030 EA 1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller	1,500.26	88.46
22 13 29 16-0031 EA 1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,733.53	142.60
22 13 29 16-0032 EA 1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,831.30	142.60
22 13 29 16-0033 EA 2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,859.56	174.29
22 13 29 16-0034 EA 2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,957.34	174.29
22 13 29 16-0035 Submersible Sewage Pumps With Semi-Open Impeller <small>(22 13 29 16)</small> Note: Includes 25' of cord with pump.		
22 13 29 16-0036 EA 1 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	3,078.59	88.46
22 13 29 16-0037 EA 1.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	3,315.98	143.46
22 13 29 16-0038 EA 2 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	3,567.14	175.34
22 13 29 16-0039 EA 3 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	3,748.23	212.54
22 13 29 16-0040 EA 5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	4,212.02	249.73
22 13 29 16-0041 EA 7.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	4,708.88	286.92
22 13 29 16-0042 Submersible Sewage Pumps, Explosion Proof <small>(22 13 29 16)</small> Note: Includes 25' of cord with pump.		
22 13 29 16-0043 EA 1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,389.54	319.09
22 13 29 16-0044 EA 1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	4,979.64	319.09
22 13 29 16-0045 EA 1 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	4,979.64	319.09
22 13 29 16-0046 EA 1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	5,680.83	425.44
22 13 29 16-0047 EA 1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	5,270.94	425.44
22 13 29 16-0048 EA 1.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	5,270.94	425.44
22 13 29 16-0049 EA 2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,056.66	531.80
22 13 29 16-0050 EA 2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,646.76	531.80
22 13 29 16-0051 EA 2 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,646.76	531.80
22 13 29 16-0052 EA 3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,353.06	638.16
22 13 29 16-0053 EA 3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,943.17	638.16
22 13 29 16-0054 EA 3 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,943.17	638.16
22 13 29 16-0055 EA 5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,031.19	744.53
22 13 29 16-0056 EA 5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,621.29	744.53
22 13 29 16-0057 EA 5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,621.29	744.53
22 13 29 16-0058 EA 7.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	7,308.82	850.89
22 13 29 16-0059 EA 7.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	7,308.82	850.89
22 13 29 16-0060 Submersible Sewage Pump Accessories <small>(22 13 29 16)</small>		
22 13 29 16-0061 EA Simplex Plug In Pump Control Panel with Alarm Float Only, 115 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump.....	519.45	75.73
Note: Includes alarm horn, warning light and alarm float switch.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0062 EA Simplex Plug In Pump Control Panel with Alarm Float Only, 230 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump.....	535.69	75.73
Note: Includes alarm horn, warning light, and alarm float switch.		
22 13 29 16-0063 EA Simplex Control Panel With 3 Floats, 115/208/230 Volt, 1 Phase, 0-20 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump.....	1,040.27	100.98
Note: Includes alarm horn, warning light, HOA switch and three 20' control float switches.		
22 13 29 16-0064 EA Simplex Control Panel 208/230/460 Volt, 3 Phase, 1-23 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump.....	1,456.17	100.98
Note: Includes alarm horn and warning light. Control float switches not included.		
22 13 29 16-0065 EA Simplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors.....	3,335.68	100.98
Note: Includes alarm horn and warning light. Control float switches not included.		
22 13 29 16-0066 EA Simplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors.....	3,488.82	100.98
Note: Includes alarm horn and warning light. Control float switches not included.		
22 13 29 16-0067 EA Duplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors.....	5,567.89	126.22
Note: Includes alarm horn and warning light. Control float switches not included.		
22 13 29 16-0068 EA Duplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors.....	4,696.69	126.22
Note: Includes alarm horn and warning light. Control float switches not included.		
22 13 29 16-0069 EA Electrical Alternator Duplex Control Panel with 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps.....	1,158.17	126.22
Note: Includes alarm horn, warning light, and three 20' float switches.		
22 13 29 16-0070 EA Electrical Alternator Duplex Control Panel With 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps.....	1,271.90	126.22
Note: Includes alarm horn, warning light, and three 20' float switches.		
22 13 29 16-0071 EA Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-20 Amperes, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps.....	1,222.35	126.22
Note: Includes alarm horn, warning light, and three 20' float switches.		
22 13 29 16-0072 EA Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-30 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps.....	1,324.84	126.22
Note: Includes alarm horn, warning light, and three 20' float switches.		
22 13 29 16-0073 EA Electrical Alternator Duplex Control Panel, 200/230/460 Volt, 3 Phase, 1-25 Amperes Range, Indoor/Outdoor NEMA 4X Enclosure For Submersible Sewage Pumps.....	2,240.25	126.22
Note: Includes alarm horn and warning light. Float switches not included.		
22 13 29 16-0074 EA Alarm System, 115 Volt, Indoor/Outdoor 4X Enclosure.....	426.72	50.49
Note: Includes alarm horn, warning light and 15' tethered float.		
22 13 29 16-0075 EA Variable Level (Clamp Type) Float Switch With 15' Cord.....	86.23	25.25
Note: Not for use with Intrinsically Safe Control Systems.		
22 13 29 16-0076 EA Variable Level (Clamp Type) Float Switch With 15' Cord For Intrinsically Safe Control Systems Only.....	102.00	25.25
22 13 29 16-0077 EA Variable Level (Adjustable Weight Type) Float Switch With 25' Cord.....	108.07	25.25
Note: Not for use with Intrinsically Safe Control Systems.		
22 13 29 16-0078 EA Variable Level (Adjustable Weight Type) Float Switch With 25' Cord For Intrinsically Safe Control Systems Only.....	113.68	25.25
22 13 29 16-0079 EA Float Switch Tree With (3) 15' Floats.....	306.55	25.25
Note: Not for use with Intrinsically Safe Control Systems.		
22 13 29 16-0080 EA Float Switch Tree And (3) Floats With 15' Cords For Intrinsically Safe Control Systems Only.....	348.43	25.25
22 13 29 16-0081 EA Float Switch Tree And (4) Floats With 15' Cords.....	340.35	25.25
Note: Not for use with Intrinsically Safe Control Systems.		
22 13 29 16-0082 EA Float Switch Tree And (4) Floats With 15' Cords For Intrinsically Safe Control Systems Only.....	395.95	25.25
22 13 29 16-0083 EA Float Switch Tree.....	167.24	25.25
Note: Tree only.		
22 13 29 16-0084 EA Adjustable Weight For Float Switch.....	46.66	12.62
22 13 29 16-0085 EA Rail And Disconnect System, Stainless Steel, For 2" Horizontal Discharge.....	864.50	75.73
Note: Lifting equipment not included.		
22 13 29 16-0086 EA Rail And Disconnect System, Stainless Steel, For 3" Horizontal Discharge.....	1,349.59	100.98
Note: Lifting equipment not included.		
22 13 29 16-0087 EA Rail And Disconnect System, Stainless Steel, For 4" Horizontal Discharge.....	1,760.92	126.22
Note: Lifting equipment not included.		
22 13 29 16-0088 EA Rail And Disconnect System, Stainless Steel Non-Sparking, For 3" Horizontal Discharge.....	1,913.60	75.73
22 13 29 16-0089 EA Rail And Disconnect System, Stainless Steel Non-Sparking, For 4" Horizontal Discharge.....	2,696.21	75.73
22 13 29 16-0090 EA Intermediate Guide Rail Bracket, Stainless Steel, For 2" Rail System.....	258.16	50.49
22 13 29 16-0091 EA Intermediate Guide Rail Bracket, Stainless Steel, For 3" Rail Systems.....	446.51	63.12
22 13 29 16-0092 EA Intermediate Guide Rail Bracket, Stainless Steel, For 4" Rail Systems.....	451.48	75.73
22 13 29 16-0093 EA 12" Stainless Steel Lifting Cable.....	127.39	25.25
22 13 29 16-0094 EA Disconnect Fitting For 2" Horizontal Discharge.....	244.02	25.25
Note: Used for shallow systems where guide rails are not necessary.		

22 13 29 33 Sewerage Pump Basins and Pits (22 13 29)

22 13 29 33-0001	EA	Sewage Sump Pump Basin (22 13 29 33)		
22 13 29 33-0002	EA	High Density Polyethylene (HDPE) Basin (22 13 29 33-0001)		
22 13 29 33-0003	EA	18" Diameter x 24" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	103.02	
22 13 29 33-0004	EA	18" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	129.97	
22 13 29 33-0005	EA	24" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	273.83	
22 13 29 33-0006	EA	24" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	377.98	
22 13 29 33-0007	EA	30" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	482.13	
22 13 29 33-0008	EA	36" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	558.71	
22 13 29 33-0009	EA	Fiberglass Basin (22 13 29 33-0001)		
22 13 29 33-0010	EA	18" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub.....	314.96	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 33-0011	EA		24" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub.....	637.69	
22 13 29 33-0012	EA		30" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub.....	1,143.16	
22 13 29 33-0013	EA		36" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub.....	1,537.79	
22 13 29 33-0014	EA		36" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub.....	1,771.60	
22 13 29 33-0015	EA		36" Diameter x 60" High Fiberglass Basin And Lid With Inlet And Hub.....	1,871.09	
22 13 29 33-0016	EA		36" Diameter x 72" High Fiberglass Basin And Lid With Inlet And Hub.....	2,197.61	
22 13 29 33-0017	EA		48" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub.....	2,551.73	

22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities ⁽²²⁾

22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities ^(22 60)

22 66 53 Laboratory Chemical-Waste and Vent Piping ^(22 66)

22 66 53 00-0001			Polypropylene Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings ^(22 66 53)		
22 66 53 00-0002			Schedule 40 Polypropylene Acid Resistant DWV Pipe And Fusal Fittings ^(22 66 53 00-0001)		
22 66 53 00-0003			Schedule 40 Polypropylene Acid Resistant DWV Pipe ^(22 66 53 00-0002)		
22 66 53 00-0004	LF		1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	16.23	5.54
			<i>For Schedule 80, Add</i>	4.10	
			<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>	3.51	
			<i>For Work In Restricted Working Space, Add</i>	2.51	
22 66 53 00-0005	LF		2" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	20.05	6.23
			<i>For Schedule 80, Add</i>	5.54	
			<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>	4.74	
			<i>For Work In Restricted Working Space, Add</i>	2.82	
22 66 53 00-0006	LF		3" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	32.84	9.04
			<i>For Schedule 80, Add</i>	10.00	
			<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>	8.56	
			<i>For Work In Restricted Working Space, Add</i>	4.08	
22 66 53 00-0007	LF		4" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	44.99	11.77
			<i>For Schedule 80, Add</i>	14.20	
			<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>	12.15	
			<i>For Work In Restricted Working Space, Add</i>	5.31	
22 66 53 00-0008	LF		6" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	75.15	17.32
			<i>For Schedule 80, Add</i>	25.59	
			<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>	21.90	
			<i>For Work In Restricted Working Space, Add</i>	7.78	
22 66 53 00-0009			Schedule 40 Polypropylene Acid Resistant DWV Fusal 1/4 Bends ^(22 66 53 00-0002)		
22 66 53 00-0010	EA		1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fusal 1/4 Bend.....	63.14	20.92
			<i>For Work In Restricted Working Space, Add</i>	9.41	
22 66 53 00-0011	EA		2" Schedule 40 Polypropylene Acid Resistant DWV Fusal 1/4 Bend.....	80.84	27.63
			<i>For Work In Restricted Working Space, Add</i>	12.42	
22 66 53 00-0012	EA		3" Schedule 40 Polypropylene Acid Resistant DWV Fusal 1/4 Bend.....	114.42	31.61
			<i>For Work In Restricted Working Space, Add</i>	14.24	
22 66 53 00-0013	EA		4" Schedule 40 Polypropylene Acid Resistant DWV Fusal 1/4 Bend.....	169.37	41.83
			<i>For Work In Restricted Working Space, Add</i>	18.83	
22 66 53 00-0014	EA		6" Schedule 40 Polypropylene Acid Resistant DWV Fusal 1/4 Bend.....	354.66	61.78
			<i>For Work In Restricted Working Space, Add</i>	27.79	
22 66 53 00-0015			Schedule 40 Polypropylene Acid Resistant DWV Fusal 1/8 Bends ^(22 66 53 00-0002)		
22 66 53 00-0016	EA		1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fusal 1/8 Bend.....	62.60	20.92
			<i>For Work In Restricted Working Space, Add</i>	9.41	
22 66 53 00-0017	EA		2" Schedule 40 Polypropylene Acid Resistant DWV Fusal 1/8 Bend.....	79.41	27.63
			<i>For Work In Restricted Working Space, Add</i>	12.42	
22 66 53 00-0018	EA		3" Schedule 40 Polypropylene Acid Resistant DWV Fusal 1/8 Bend.....	117.17	31.61
			<i>For Work In Restricted Working Space, Add</i>	14.24	
22 66 53 00-0019	EA		4" Schedule 40 Polypropylene Acid Resistant DWV Fusal 1/8 Bend.....	141.82	41.83
			<i>For Work In Restricted Working Space, Add</i>	18.83	
22 66 53 00-0020	EA		6" Schedule 40 Polypropylene Acid Resistant DWV Fusal 1/8 Bend.....	311.96	61.78
			<i>For Work In Restricted Working Space, Add</i>	27.79	
22 66 53 00-0021			Schedule 40 Polypropylene Acid Resistant DWV Fusal Sanitary Tees ^(22 66 53 00-0002)		
22 66 53 00-0022	EA		1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fusal Sanitary Tee.....	106.54	44.75
			<i>For Work In Restricted Working Space, Add</i>	20.13	
22 66 53 00-0023	EA		2" Schedule 40 Polypropylene Acid Resistant DWV Fusal Sanitary Tee.....	131.85	56.42
			<i>For Work In Restricted Working Space, Add</i>	25.38	
22 66 53 00-0024	EA		3" Schedule 40 Polypropylene Acid Resistant DWV Fusal Sanitary Tee.....	187.20	61.78
			<i>For Work In Restricted Working Space, Add</i>	27.79	
22 66 53 00-0025	EA		4" Schedule 40 Polypropylene Acid Resistant DWV Fusal Sanitary Tee.....	263.20	81.13
			<i>For Work In Restricted Working Space, Add</i>	36.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0026 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	476.17 58.37	129.77
22 66 53 00-0027 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tees <small>(22 66 53 00-0002)</small>		
22 66 53 00-0028 EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	131.79 25.38	56.42
22 66 53 00-0029 EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	180.60 27.79	61.78
22 66 53 00-0030 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	174.73 27.79	61.78
22 66 53 00-0031 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	248.15 36.48	81.13
22 66 53 00-0032 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	253.82 36.48	81.13
22 66 53 00-0033 EA 6" x 6" x 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	434.26 58.37	129.77
22 66 53 00-0034 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tees With Plug <small>(22 66 53 00-0002)</small>		
22 66 53 00-0035 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug <i>For Work In Restricted Working Space, Add</i>	125.80 20.13	44.75
22 66 53 00-0036 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	136.51 25.38	56.42
22 66 53 00-0037 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	201.46 27.79	61.78
22 66 53 00-0038 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	269.77 36.48	81.13
22 66 53 00-0039 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	394.91 58.37	129.77
22 66 53 00-0040 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wyes <small>(22 66 53 00-0002)</small>		
22 66 53 00-0041 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye <i>For Work In Restricted Working Space, Add</i>	117.35 20.13	44.75
22 66 53 00-0042 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye <i>For Work In Restricted Working Space, Add</i>	141.87 25.38	56.42
22 66 53 00-0043 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye <i>For Work In Restricted Working Space, Add</i>	193.16 27.79	61.78
22 66 53 00-0044 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye <i>For Work In Restricted Working Space, Add</i>	268.14 36.48	81.13
22 66 53 00-0045 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye <i>For Work In Restricted Working Space, Add</i>	566.58 58.37	129.77
22 66 53 00-0046 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wyes <small>(22 66 53 00-0002)</small>		
22 66 53 00-0047 EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	155.10 25.38	56.42
22 66 53 00-0048 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	186.37 27.79	61.78
22 66 53 00-0049 EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	186.37 27.79	61.78
22 66 53 00-0050 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	262.28 36.48	81.13
22 66 53 00-0051 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	262.28 36.48	81.13
22 66 53 00-0052 EA 6" x 6" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	488.70 58.37	129.77
22 66 53 00-0053 EA 6" x 6" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	493.26 58.37	129.77
22 66 53 00-0054 EA 6" x 6" x 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	436.17 58.37	129.77
22 66 53 00-0055 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Crosses <small>(22 66 53 00-0002)</small>		
22 66 53 00-0056 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	145.70 25.16	55.94
22 66 53 00-0057 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	179.83 31.72	70.53
22 66 53 00-0058 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	264.04 34.74	77.24
22 66 53 00-0059 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	373.97 45.60	101.36
22 66 53 00-0060 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	684.65 72.96	162.16
22 66 53 00-0061 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bends <small>(22 66 53 00-0002)</small>		

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0062 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	103.01 20.13	44.75
22 66 53 00-0063 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	137.08 25.38	56.42
22 66 53 00-0064 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	159.80 27.79	61.78
22 66 53 00-0065 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	226.05 36.48	81.13
22 66 53 00-0066 EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	121.46 25.38	56.42
22 66 53 00-0067 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	153.52 27.79	61.78
22 66 53 00-0068 EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	156.04 27.79	61.78
22 66 53 00-0069 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	216.70 36.48	81.13
22 66 53 00-0070 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	218.30 36.48	81.13
22 66 53 00-0071 Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Traps (22 66 53 00-0002)		
22 66 53 00-0072 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	122.88 23.35	51.95
22 66 53 00-0073 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	164.40 30.72	68.29
22 66 53 00-0074 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	260.92 41.69	92.70
22 66 53 00-0075 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	381.81 53.06	118.00
22 66 53 00-0076 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapters (22 66 53 00-0002)		
22 66 53 00-0077 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	61.65 9.41	20.92
22 66 53 00-0078 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	72.93 12.42	27.63
22 66 53 00-0079 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	86.49 14.24	31.61
22 66 53 00-0080 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	119.02 18.83	41.83
22 66 53 00-0081 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	176.90 27.79	61.78
22 66 53 00-0082 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapters (22 66 53 00-0002)		
22 66 53 00-0083 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	57.85 9.41	20.92
22 66 53 00-0084 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	75.80 12.42	27.63
22 66 53 00-0085 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	91.75 14.24	31.61
22 66 53 00-0086 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	124.18 18.83	41.83
22 66 53 00-0087 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Couplings (22 66 53 00-0002)		
22 66 53 00-0088 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	53.13 9.41	20.92
22 66 53 00-0089 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	67.32 12.42	27.63
22 66 53 00-0090 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	78.93 14.24	31.61
22 66 53 00-0091 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	104.38 18.83	41.83
22 66 53 00-0092 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	153.14 27.79	61.78
22 66 53 00-0093 Bell And Spigot High Silicon Iron Alloy Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings (22 66 53) Note: Acid resistant. ASTM A518.		
22 66 53 00-0094 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe (22 66 53 00-0093)		
22 66 53 00-0095 LF 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe 22 66 53 00-0096 LF 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe 22 66 53 00-0097 LF 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe 22 66 53 00-0098 LF 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe 22 66 53 00-0099 LF 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe 22 66 53 00-0100 LF 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe 22 66 53 00-0101 LF 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe 22 66 53 00-0102 LF 15" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	91.66 128.88 175.19 287.05 506.06 894.13 1,593.49 2,836.46	8.66 10.80 12.45 17.32 23.22 29.29 39.45 45.23



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0103 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Fittings <small>(22 66 53 00-0093)</small>		
22 66 53 00-0104 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweeps <small>(22 66 53 00-0103)</small>		
22 66 53 00-0105 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep	369.54	73.74
22 66 53 00-0106 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep	481.80	81.13
22 66 53 00-0107 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep	779.70	97.08
22 66 53 00-0108 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep	1,156.83	114.37
22 66 53 00-0109 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep	2,653.26	186.62
22 66 53 00-0110 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bends <small>(22 66 53 00-0103)</small>		
22 66 53 00-0111 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend	217.72	73.74
22 66 53 00-0112 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend	282.35	81.13
22 66 53 00-0113 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend	354.01	97.08
22 66 53 00-0114 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend	921.66	114.37
22 66 53 00-0115 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend	2,086.76	186.62
22 66 53 00-0116 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend	3,165.80	232.51
22 66 53 00-0117 EA 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend	4,644.93	279.61
22 66 53 00-0118 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bends <small>(22 66 53 00-0103)</small>		
22 66 53 00-0119 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend	217.72	73.74
22 66 53 00-0120 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend	282.35	81.13
22 66 53 00-0121 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend	354.01	97.08
22 66 53 00-0122 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend	677.56	114.37
22 66 53 00-0123 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend	1,771.22	186.62
22 66 53 00-0124 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend	2,585.76	232.51
22 66 53 00-0125 EA 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend	3,663.01	279.61
22 66 53 00-0126 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bends <small>(22 66 53 00-0103)</small>		
22 66 53 00-0127 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend	217.72	73.74
22 66 53 00-0128 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend	282.35	81.13
22 66 53 00-0129 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend	353.77	96.99
22 66 53 00-0130 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweeps <small>(22 66 53 00-0103)</small>		
22 66 53 00-0131 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep	295.11	73.74
22 66 53 00-0132 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep	517.52	81.13
22 66 53 00-0133 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep	580.25	97.08
22 66 53 00-0134 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tees <small>(22 66 53 00-0103)</small>		
22 66 53 00-0135 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee	308.33	110.32
22 66 53 00-0136 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee	385.77	122.28
22 66 53 00-0137 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee	534.49	146.01
22 66 53 00-0138 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee	882.84	171.88
22 66 53 00-0139 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee	2,685.46	280.17
22 66 53 00-0140 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee	3,809.38	349.85
22 66 53 00-0141 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tees <small>(22 66 53 00-0103)</small>		
22 66 53 00-0142 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee	289.55	105.74
22 66 53 00-0143 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee	336.94	113.52
22 66 53 00-0144 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee	375.62	117.51
22 66 53 00-0145 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee	429.73	129.77
22 66 53 00-0146 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee	459.75	133.85
22 66 53 00-0147 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee	504.28	137.85
22 66 53 00-0148 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee	625.37	148.73
22 66 53 00-0149 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee	693.15	152.57
22 66 53 00-0150 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee	775.09	159.58
22 66 53 00-0151 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tees <small>(22 66 53 00-0103)</small>		
22 66 53 00-0152 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee	349.95	110.32
22 66 53 00-0153 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee	421.01	121.99
22 66 53 00-0154 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee	573.15	146.01
22 66 53 00-0155 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tees <small>(22 66 53 00-0103)</small>		
22 66 53 00-0156 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee	331.20	105.74
22 66 53 00-0157 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee	412.17	118.10
22 66 53 00-0158 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee	496.04	134.25

22 Plumbing

22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities

22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0159 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee	531.68	138.23
22 66 53 00-0160 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wyes <small>(22 66 53 00-0103)</small>		
22 66 53 00-0161 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye	305.55	110.51
22 66 53 00-0162 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye	418.51	122.28
22 66 53 00-0163 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye	534.32	145.92
22 66 53 00-0164 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye	887.80	171.25
22 66 53 00-0165 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye	3,357.80	279.90
22 66 53 00-0166 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wyes <small>(22 66 53 00-0103)</small>		
22 66 53 00-0167 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	313.34	105.74
22 66 53 00-0168 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	336.89	113.52
22 66 53 00-0169 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	355.81	118.20
22 66 53 00-0170 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	396.99	129.77
22 66 53 00-0171 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	412.35	134.05
22 66 53 00-0172 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	492.98	138.23
22 66 53 00-0173 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	657.90	148.91
22 66 53 00-0174 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	779.48	152.57
22 66 53 00-0175 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	813.79	159.58
22 66 53 00-0176 EA 8" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	1,978.81	225.80
22 66 53 00-0177 EA 8" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	2,135.85	233.26
22 66 53 00-0178 EA 8" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	2,609.13	245.20
22 66 53 00-0179 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bends <small>(22 66 53 00-0103)</small>		
22 66 53 00-0180 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	361.80	110.32
22 66 53 00-0181 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	429.94	121.99
22 66 53 00-0182 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	632.68	146.01
22 66 53 00-0183 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	965.52	171.43
22 66 53 00-0184 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bends <small>(22 66 53 00-0103)</small>		
22 66 53 00-0185 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	301.43	105.74
22 66 53 00-0186 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	348.80	113.52
22 66 53 00-0187 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	385.38	118.10
22 66 53 00-0188 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	417.82	129.77
22 66 53 00-0189 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	481.15	134.25
22 66 53 00-0190 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	543.53	138.14
22 66 53 00-0191 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	696.54	148.91
22 66 53 00-0192 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	865.87	152.66
22 66 53 00-0193 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	948.14	159.85
22 66 53 00-0194 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducers <small>(22 66 53 00-0103)</small>		
22 66 53 00-0195 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	187.46	69.46
22 66 53 00-0196 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	205.18	73.35
22 66 53 00-0197 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	228.89	77.24
22 66 53 00-0198 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	363.57	85.61
22 66 53 00-0199 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	381.33	89.59
22 66 53 00-0200 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	411.02	95.42
22 66 53 00-0201 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	532.08	102.71
22 66 53 00-0202 EA 8" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	772.46	139.99
22 66 53 00-0203 EA 8" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	822.99	151.84
22 66 53 00-0204 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increasers <small>(22 66 53 00-0103)</small>		
22 66 53 00-0205 EA 2" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	499.21	162.16
22 66 53 00-0206 EA 2" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	654.01	162.16
22 66 53 00-0207 EA 3" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	667.90	162.16
22 66 53 00-0208 EA 4" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	750.62	212.80
22 66 53 00-0209 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Traps <small>(22 66 53 00-0103)</small>		
22 66 53 00-0210 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	545.17	73.74
22 66 53 00-0211 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	657.43	81.13
22 66 53 00-0212 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	800.54	97.08
22 66 53 00-0213 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	2,341.62	114.37
22 66 53 00-0214 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hubs <small>(22 66 53 00-0103)</small>		
22 66 53 00-0215 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub.....	274.28	73.74



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0216 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	344.86	81.13
22 66 53 00-0217 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	473.08	97.08
22 66 53 00-0218 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	605.61	114.37
22 66 53 00-0219 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	1,174.03	159.58
22 66 53 00-0220 Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings <small>(22 66 53 00-0093)</small>		
<small>Note: Labor costs for installation of lead and oakum are included in the installation costs for fittings.</small>		
22 66 53 00-0221 LB Lead (1 LB/Diameter Inch) Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings	5.40	
22 66 53 00-0222 LB Seal-Tite Packing (1/8 LB/Diameter Inch) Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings	54.58	
22 66 53 00-0223 Mechanical Joint High Silicon Iron Alloy Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings <small>(22 66 53)</small>		
<small>Note: ASTM A518.</small>		
22 66 53 00-0224 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe <small>(22 66 53 00-0223)</small>		
22 66 53 00-0225 LF 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe	72.69	6.52
22 66 53 00-0226 LF 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe	82.70	7.20
22 66 53 00-0227 LF 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe	114.00	9.04
22 66 53 00-0228 LF 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe	143.70	10.50
22 66 53 00-0229 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Fittings <small>(22 66 53 00-0223)</small>		
22 66 53 00-0230 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweeps <small>(22 66 53 00-0229)</small>		
22 66 53 00-0231 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	270.97	51.65
22 66 53 00-0232 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	292.95	58.37
22 66 53 00-0233 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	400.14	64.40
22 66 53 00-0234 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	482.89	77.82
22 66 53 00-0235 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0236 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend	154.87	51.65
22 66 53 00-0237 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend	184.89	57.78
22 66 53 00-0238 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend	236.75	64.59
22 66 53 00-0239 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend	309.36	77.24
22 66 53 00-0240 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend	180.07	54.58
22 66 53 00-0241 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0242 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend	154.87	51.65
22 66 53 00-0243 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend	184.89	57.78
22 66 53 00-0244 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend	236.75	64.59
22 66 53 00-0245 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend	309.36	77.24
22 66 53 00-0246 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0247 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend	181.66	51.65
22 66 53 00-0248 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend	226.56	57.78
22 66 53 00-0249 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend	346.90	64.59
22 66 53 00-0250 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend	389.73	77.24
22 66 53 00-0251 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0252 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend	175.71	51.65
22 66 53 00-0253 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend	208.70	57.78
22 66 53 00-0254 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend	320.10	64.59
22 66 53 00-0255 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend	362.94	77.24
22 66 53 00-0256 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Branch 1/4 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0257 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Branch 1/4 Bend	265.38	77.72
22 66 53 00-0258 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tees <small>(22 66 53 00-0229)</small>		
22 66 53 00-0259 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee	217.75	77.72
22 66 53 00-0260 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee	268.20	87.55
22 66 53 00-0261 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee	351.68	97.57
22 66 53 00-0262 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee	529.35	116.83

22 Plumbing

22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities

22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0263			Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tees <small>(22 66 53 00-0229)</small>		
22 66 53 00-0264	EA		2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	251.35	84.25
22 66 53 00-0265	EA		3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	305.85	90.86
22 66 53 00-0266	EA		3" x 2" Mechanical Joint High Silicon Iron Alloy Sanitary Reducing Tee.....	325.54	94.06
22 66 53 00-0267	EA		4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	349.07	103.79
22 66 53 00-0268	EA		4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	383.29	106.72
22 66 53 00-0269	EA		4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	414.94	109.92
22 66 53 00-0270			Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wyes <small>(22 66 53 00-0229)</small>		
22 66 53 00-0271	EA		1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	218.13	78.02
22 66 53 00-0272	EA		2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	256.29	87.55
22 66 53 00-0273	EA		3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	339.78	97.57
22 66 53 00-0274	EA		4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	529.35	116.83
22 66 53 00-0275			Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wyes <small>(22 66 53 00-0229)</small>		
22 66 53 00-0276	EA		2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	243.07	84.73
22 66 53 00-0277	EA		3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	296.89	90.76
22 66 53 00-0278	EA		3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	311.09	94.36
22 66 53 00-0279	EA		4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	349.53	104.09
22 66 53 00-0280	EA		4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	384.17	107.30
22 66 53 00-0281	EA		4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	406.42	110.21
22 66 53 00-0282			Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wyes <small>(22 66 53 00-0229)</small>		
22 66 53 00-0283	EA		1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	325.45	103.89
22 66 53 00-0284	EA		2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	413.39	116.93
22 66 53 00-0285	EA		3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	527.35	129.38
22 66 53 00-0286	EA		4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	685.69	155.55
22 66 53 00-0287	EA		2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	358.50	110.02
22 66 53 00-0288	EA		3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	400.95	116.54
22 66 53 00-0289	EA		3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	476.15	122.96
22 66 53 00-0290	EA		4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	525.63	136.19
22 66 53 00-0291	EA		4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	631.24	143.10
22 66 53 00-0292			Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Crosses <small>(22 66 53 00-0229)</small>		
22 66 53 00-0293	EA		1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	361.11	103.89
22 66 53 00-0294	EA		2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	425.07	116.74
22 66 53 00-0295	EA		3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	605.85	130.06
22 66 53 00-0296	EA		4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	843.72	155.74
22 66 53 00-0297	EA		2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	388.20	110.02
22 66 53 00-0298	EA		3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	505.10	116.54
22 66 53 00-0299	EA		3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	532.64	122.96
22 66 53 00-0300	EA		4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	570.23	136.09
22 66 53 00-0301	EA		4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	722.76	142.51
22 66 53 00-0302			Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0303	EA		1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	241.18	77.43
22 66 53 00-0304	EA		2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	280.10	87.55
22 66 53 00-0305	EA		3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	339.78	97.57
22 66 53 00-0306	EA		4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	562.09	116.83
22 66 53 00-0307			Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0308	EA		2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	266.31	84.34
22 66 53 00-0309	EA		3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	297.28	91.05
22 66 53 00-0310	EA		3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	323.00	94.36
22 66 53 00-0311	EA		4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	435.85	104.09
22 66 53 00-0312	EA		4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	446.69	107.30
22 66 53 00-0313	EA		4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	498.70	110.21
22 66 53 00-0314			Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0315	EA		1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	381.73	103.70
22 66 53 00-0316	EA		2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	478.56	116.64



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0317 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	685.52	129.67
22 66 53 00-0318 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	823.38	156.03
22 66 53 00-0319 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0320 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	415.00	110.02
22 66 53 00-0321 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	496.15	116.44
22 66 53 00-0322 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	517.76	122.96
22 66 53 00-0323 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	576.19	136.09
22 66 53 00-0324 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	722.76	142.51
22 66 53 00-0325 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducers-Increasers <small>(22 66 53 00-0229)</small>		
22 66 53 00-0326 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser.....	180.88	55.15
22 66 53 00-0327 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser.....	203.60	58.37
22 66 53 00-0328 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser.....	239.03	68.10
22 66 53 00-0329 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser.....	281.55	64.69
22 66 53 00-0330 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser.....	298.31	67.90
22 66 53 00-0331 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser.....	315.07	71.11
22 66 53 00-0332 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tees <small>(22 66 53 00-0229)</small>		
22 66 53 00-0333 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee.....	166.33	45.42
22 66 53 00-0334 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee.....	193.12	51.36
22 66 53 00-0335 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee.....	227.07	58.18
22 66 53 00-0336 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee.....	409.85	70.82
22 66 53 00-0337 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plugs <small>(22 66 53 00-0229)</small>		
22 66 53 00-0338 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....	74.46	25.88
22 66 53 00-0339 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....	87.97	28.89
22 66 53 00-0340 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....	96.05	32.30
22 66 53 00-0341 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....	123.42	38.62
22 66 53 00-0342 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Traps <small>(22 66 53 00-0229)</small>		
22 66 53 00-0343 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	300.28	51.36
22 66 53 00-0344 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	309.91	57.78
22 66 53 00-0345 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	382.62	64.59
22 66 53 00-0346 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	487.97	77.24
22 66 53 00-0347 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....	416.18	55.25
22 66 53 00-0348 EA 2" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....	571.78	61.67
22 66 53 00-0349 EA 3" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....	691.48	68.10
22 66 53 00-0350 EA 4" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....	859.84	81.13
22 66 53 00-0351 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum Traps <small>(22 66 53 00-0229)</small>		
22 66 53 00-0352 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum P-Trap.....	555.28	58.66
22 66 53 00-0353 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum P-Trap.....	874.24	64.88
22 66 53 00-0354 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum S-Trap.....	578.73	58.37
22 66 53 00-0355 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum S-Trap.....	874.24	64.88
22 66 53 00-0356 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Traps <small>(22 66 53 00-0229)</small>		
22 66 53 00-0357 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Short P-Trap.....	516.22	58.37
22 66 53 00-0358 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Short P-Trap.....	606.32	64.88
22 66 53 00-0359 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long P-Trap.....	596.59	58.37
22 66 53 00-0360 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long S-Trap.....	1,305.88	64.88
22 66 53 00-0361 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long S-Trap.....	778.98	64.88
22 66 53 00-0362 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0363 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bend.....	217.73	51.95
22 66 53 00-0364 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bend.....	284.02	58.37

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities**

22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0365 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapters <small>(22 66 53 00-0229)</small>		
22 66 53 00-0366 EA 1-1/2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter.....	111.95	38.91
22 66 53 00-0367 EA 1-1/2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter	203.14	42.22
22 66 53 00-0368 EA 2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter	150.36	48.64
22 66 53 00-0369 Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter <small>(22 66 53 00-0229)</small>		
22 66 53 00-0370 EA 1-1/2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	208.07	55.35
22 66 53 00-0371 EA 1-1/2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	227.41	58.37
22 66 53 00-0372 EA 1-1/2" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	253.12	61.57
22 66 53 00-0373 EA 1-1/2" x 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	271.52	67.90
22 66 53 00-0374 EA 2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	253.16	61.67
22 66 53 00-0375 EA 2" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	266.91	64.88
22 66 53 00-0376 EA 2" x 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	288.28	71.11
22 66 53 00-0377 EA 3" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	325.40	68.10
22 66 53 00-0378 EA 4" x 4" Mechanical Joint High Silicon Iron Alloy Hub To Mechanical Joint Adapter.....	401.42	81.13
22 66 53 00-0379 Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings <small>(22 66 53 00-0229)</small>		
22 66 53 00-0380 EA 1-1/2" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting	71.44	
22 66 53 00-0381 EA 2" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting	83.35	
22 66 53 00-0382 EA 3" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting	89.31	
22 66 53 00-0383 EA 4" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting	98.24	
22 66 53 00-0384 Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Fittings <small>(22 66 53 00-0229)</small>		
22 66 53 00-0385 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Outlet	530.09	25.97
22 66 53 00-0386 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Stopper	201.05	12.93
22 66 53 00-0387 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Overflow.....	373.71	12.93
22 66 53 00-0388 Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drains With Stainless Steel Strainer Plates <small>(22 66 53 00-0229)</small>		
22 66 53 00-0389 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drain With Stainless Steel Strainer.....	1,903.28	129.77
22 66 53 00-0390 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sediment Basin Floor Drain With Stainless Steel Strainer.....	2,347.62	136.28
22 66 53 00-0391 EA Stainless Steel Funnel Attachment For Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drain	1,573.37	12.93

END OF SECTION 22



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 Electrical

Note: Termination costs are included with all electrical equipment, panel boards, fixtures and devices. Terminations are not included with patch panels. Electrical equipment and lighting shall conform to California Title 24.

26 01 Operation and Maintenance of Electrical Systems ⁽²⁶⁾

26 01 10 Operation and Maintenance of Medium-Voltage Electrical Distribution ^(26 01)

26 01 10 91 Medium-Voltage Electrical Distribution Restoration ^(26 01 10)

26 01 10 91-0001	Retrofit Distribution Enclosures ^(26 01 10 91) Note: Includes removal of equipment housing, punch or drill hole for window, touch-up area, and reinstallation of equipment housing.		
26 01 10 91-0002	EA 2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-2C).....	387.28	
	Note: 2mm thick, aluminum frame, hinged cover.		
	For Up To 20, Add	81.21	
	For >20 To 50, Add	64.96	
	For >50 To 100, Add	32.48	
26 01 10 91-0003	EA 3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-3C).....	503.71	
	Note: 2mm thick, aluminum frame, hinged cover.		
	For Up To 20, Add	110.31	
	For >20 To 50, Add	88.25	
	For >50 To 100, Add	44.13	
26 01 10 91-0004	EA 4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-4C).....	759.84	
	Note: 4mm thick, aluminum frame, hinged cover.		
	For Up To 20, Add	174.35	
	For >20 To 50, Add	139.48	
	For >50 To 100, Add	69.74	
26 01 10 91-0005	EA 3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 1 Rated (Fluke CLKTO).....	383.96	
	Note: 2mm thick, aluminum frame, twist cover.		
	For Up To 20, Add	80.38	
	For >20 To 50, Add	64.30	
	For >50 To 100, Add	32.15	
26 01 10 91-0006	EA 2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-2)	386.01	
	Note: 2mm thick, aluminum frame, twist cover.		
	For Up To 20, Add	80.89	
	For >20 To 50, Add	64.71	
	For >50 To 100, Add	32.36	
26 01 10 91-0007	EA 3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-3)	494.23	
	Note: 2mm thick, aluminum frame, twist cover.		
	For Up To 20, Add	107.94	
	For >20 To 50, Add	86.35	
	For >50 To 100, Add	43.18	
26 01 10 91-0008	EA 4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-4)	738.79	
	Note: 4mm thick, aluminum frame, twist cover.		
	For Up To 20, Add	169.08	
	For >20 To 50, Add	135.27	
	For >50 To 100, Add	67.63	
26 01 10 91-0009	EA 2" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VEFR).....	303.46	
	Note: 0.25mm thick, composite frame, metal grille reinforced polymer.		
	For Up To 20, Add	60.25	
	For >20 To 50, Add	48.20	
	For >50 To 100, Add	24.10	
26 01 10 91-0010	EA 3" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VEFR).....	429.20	
	Note: 0.25mm thick, composite frame, metal grille reinforced polymer.		
	For Up To 20, Add	91.69	
	For >20 To 50, Add	73.35	
	For >50 To 100, Add	36.67	
26 01 10 91-0011	EA 4" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VEFR).....	612.56	
	Note: 0.25mm thick, composite frame, metal grille reinforced polymer.		
	For Up To 20, Add	137.53	
	For >20 To 50, Add	110.02	
	For >50 To 100, Add	55.01	
26 01 10 91-0012	EA 2" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	558.16	
	Note: 4mm thick, aluminum frame, magnetic cover.		
	For Up To 20, Add	123.93	
	For >20 To 50, Add	99.14	
	For >50 To 100, Add	49.57	
26 01 10 91-0013	EA 3" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	768.52	
	Note: 4mm thick, aluminum frame, magnetic cover.		
	For Up To 20, Add	176.52	
	For >20 To 50, Add	141.21	
	For >50 To 100, Add	70.61	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 10 Operation and Maintenance of Medium-Voltage Electrical Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 10 91-0014 EA 4" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	1,411.05	
Note: 4mm thick, aluminum frame, magnetic cover.		
For Up To 20, Add	337.15	
For >20 To 50, Add	269.72	
For >50 To 100, Add	134.86	
26 01 10 91-0015 EA 3" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	641.77	
Note: 4mm thick, aluminum frame, magnetic cover.		
For Up To 20, Add	144.83	
For >20 To 50, Add	115.86	
For >50 To 100, Add	57.93	
26 01 10 91-0016 EA 4" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	946.37	
Note: 4mm thick, aluminum frame, magnetic cover.		
For Up To 20, Add	220.98	
For >20 To 50, Add	176.78	
For >50 To 100, Add	88.39	

26 01 20 Operation and Maintenance of Low-Voltage Electrical Distribution (26 01)

26 01 20 91 Low-Voltage Electrical Distribution Restoration (26 01 20)

26 01 20 91-0001 Lock Out/Tag Out Devices (26 01 20 91)

Note: Includes the installation and removal of device lock, pad lock and identifying markers. Includes following OSHA procedures and completing Owner's paperwork. Excludes circuit tracing.

26 01 20 91-0002 EA Lock Out/Tag Out Local Disconnect.....	36.43	
Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).		
26 01 20 91-0003 EA Lock Out/Tag Out Breaker Or Motor Starter	36.43	
Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).		
26 01 20 91-0004 EA Lock Out/Tag Out Padlock Device	10.12	
26 01 20 91-0005 EA Lock Out/Tag Out Tags	3.15	

26 01 20 91-0006 Existing Circuit Tracing (26 01 20 91)

26 01 20 91-0007 EA Motors, Disconnects And Other Single Source Devices, Existing Circuit Tracing Per Device	21.04	
26 01 20 91-0008 EA Lighting, Existing Circuit Tracing Per Circuit	21.04	

26 01 30 Operation and Maintenance of Facility Electrical Power Generating and Storing Equipment (26 01)

26 01 30 91 Facility Electrical Power Generating and Storing Equipment Restoration (26 01 30)

26 01 30 91-0001 Emergency Generator Permits (26 01 30 91)

26 01 30 91-0002 Air Pollution Control Board (26 01 30 91-0001)

26 01 30 91-0003 EA APCD Permit To Construct And Operate Emergency Generator	3,381.60	
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26 01 50 Operation and Maintenance of Lighting (26 01)

26 01 50 51 Luminaire Relamping (26 01 50)

26 01 50 51-0001 Replace Lamps In Existing Fixtures (26 01 50 51)

Note: Includes removal of existing lamp from fixture and installation of new lamp. Excludes disposal of hazardous lamps. See CSI section 26 01 50 51-00370 for disposal of hazardous lamps.

26 01 50 51-0002 Halogen Lamps (26 01 50 51-0001)

26 01 50 51-0003 EA 300 Watt, T3, Tungsten Halogen Lamp	41.15	
26 01 50 51-0004 EA 500 Watt, T3, Tungsten Halogen Lamp	52.73	
26 01 50 51-0005 EA 1,000 Watt, T3, Tungsten Halogen Lamp	78.27	
26 01 50 51-0006 EA 90 Watt, PAR38, Halogen Lamp	19.92	
26 01 50 51-0007 EA 100 Watt, PAR38, Halogen Lamp	19.92	
26 01 50 51-0008 EA 60 Watt, PAR38, Halogen IR Reflective Lamp	22.71	
26 01 50 51-0009 EA 67 Watt, PAR38, Halogen IR Reflective Lamp	24.44	
26 01 50 51-0010 EA 70 Watt, PAR38, Halogen IR Reflective Lamp	24.00	
26 01 50 51-0011 EA 90 Watt, PAR38, Halogen IR Reflective Lamp	25.32	
26 01 50 51-0012 EA 100 Watt, PAR38, Halogen IR Reflective Lamp	25.60	
26 01 50 51-0013 EA 12 Watt, 10 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-65-B01-12-830-10)	24.18	
26 01 50 51-0014 EA 12 Watt, 20 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-20)	24.18	
26 01 50 51-0015 EA 12 Watt, 25 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-25)	26.93	
26 01 50 51-0016 EA 12 Watt, 36 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-36)	26.93	

26 01 50 51-0017 Incandescent Lamps (26 01 50 51-0001)

26 01 50 51-0018 EA 100 Watt, Frosted, Interior Incandescent Lamp	5.71	
For Multiple Lamps In Fixture, Deduct	-1.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0019 EA 150 Watt, Frosted, Interior Incandescent Lamp	7.02	
<i>For Multiple Lamps In Fixture, Deduct</i>	-1.68	
26 01 50 51-0020 EA 200 Watt, Frosted, Interior Incandescent Lamp	8.49	
<i>For Multiple Lamps In Fixture, Deduct</i>	-1.68	
26 01 50 51-0021 EA 300 Watt, PS25, Interior Incandescent Lamp	10.34	
<i>For Multiple Lamps In Fixture, Deduct</i>	-1.68	
26 01 50 51-0022 EA 60 Watt, G25, Clear, Interior Incandescent Lamp	7.84	
<i>For Multiple Lamps In Fixture, Deduct</i>	-1.68	
26 01 50 51-0023 EA 75 Watt, R20, Interior Incandescent Lamp	12.27	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.01	
26 01 50 51-0024 EA 75 Watt, PAR38, Exterior Incandescent Lamp	14.86	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.01	
26 01 50 51-0025 EA 100 Watt, PAR38, Exterior Incandescent Lamp	13.83	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.01	
26 01 50 51-0026 EA 150 Watt, PAR38, Exterior Incandescent Lamp	23.64	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.01	
26 01 50 51-0027 EA 250 Watt, PAR38, Exterior Incandescent Lamp	48.42	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.34	
26 01 50 51-0028 EA 300 Watt, PAR56, Exterior Incandescent Lamp	55.62	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.34	
26 01 50 51-0029 Exit Light Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0030 EA Convert Exit Light Lamps To Red LED Lamps	94.65	
<i>For Green LED Lamps, Add</i>	25.00	
26 01 50 51-0031 EA Fluorescent Lamp For Exit Light	26.79	
<i>For Multiple Lamps In Fixture, Deduct</i>	-6.70	
26 01 50 51-0032 EA Lamp Replacement For Emergency Lights On Exit Sign	33.64	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.35	
26 01 50 51-0033 Fluorescent Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0034 EA 18", 15 Watt, T8 Fluorescent Lamp	10.24	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.68	
26 01 50 51-0035 EA 2', 17 Watt, T8 Fluorescent Lamp	12.07	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.68	
26 01 50 51-0036 EA 3', 25 Watt, T8 Fluorescent Lamp	13.83	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.01	
26 01 50 51-0037 EA 4', 32 Watt, T8 Fluorescent Lamp	12.61	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.01	
26 01 50 51-0038 EA 4', 30 Watt, T8 Fluorescent Lamp	16.98	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.01	
26 01 50 51-0039 EA 4', 28 Watt, T8 Fluorescent Lamp	15.06	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.01	
26 01 50 51-0040 EA 4', 25 Watt, T8 Fluorescent Lamp	14.98	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.01	
26 01 50 51-0041 EA 4', 44 Watt, T8HO Fluorescent Lamp	23.25	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.01	
26 01 50 51-0042 EA 8', 59 Watt, T8 Fluorescent Lamp	18.06	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.01	
26 01 50 51-0043 EA 18", 15 Watt, T12 Fluorescent Lamp	14.84	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.68	
26 01 50 51-0044 EA 2', 20 Watt, T12 Fluorescent Lamp	11.54	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.68	
26 01 50 51-0045 EA 3', 30 Watt, T12 Fluorescent Lamp	12.96	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.01	
26 01 50 51-0046 EA 4', 34 Watt, T12 Fluorescent Lamp	13.02	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.01	
26 01 50 51-0047 EA 4', 40 Watt, T12 Fluorescent Lamp	12.78	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.01	
26 01 50 51-0048 EA 8', 60 Watt, T12 Fluorescent Lamp	18.48	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.01	
26 01 50 51-0049 EA 8', 75 Watt, T12 Fluorescent Lamp	15.82	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.01	
26 01 50 51-0050 EA 8', 95 Watt, Instant Start T12 Fluorescent Lamp	21.82	
26 01 50 51-0051 EA 6" Diameter, 20 Watt, Circular T9 Fluorescent Lamp	15.01	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.68	
26 01 50 51-0052 EA 8" Diameter, 22 Watt, Circular T9 Fluorescent Lamp	12.56	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.68	
26 01 50 51-0053 EA 12" Diameter, 32 Watt, Circular T9 Fluorescent Lamp	12.19	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.68	
26 01 50 51-0054 EA 16" Diameter, 40 Watt, Circular T9 Fluorescent Lamp	13.36	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.68	
26 01 50 51-0055 EA 6", 4 Watt, T5 Fluorescent Lamp	11.23	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.68	
26 01 50 51-0056 EA 9", 6 Watt, T5 Fluorescent Lamp	11.06	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.68	
26 01 50 51-0057 EA 12", 8 Watt, T5 Fluorescent Lamp	11.38	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.68	
26 01 50 51-0058 EA 21", 13 Watt, T5 Fluorescent Lamp	11.84	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.68	
26 01 50 51-0059 EA 24", 14 Watt, T5 Fluorescent Lamp	13.46	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.68	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0060 EA 34", 21 Watt, T5 Fluorescent Lamp.....	14.68	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.01	
26 01 50 51-0061 EA 46", 28 Watt, T5 Fluorescent Lamp.....	14.26	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.01	
26 01 50 51-0062 EA 46", 54 Watt, T5HO Fluorescent Lamp	15.48	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.01	
26 01 50 51-0063 EA 46", 54 Watt T5 Fluorescent Lamp.....	14.26	
26 01 50 51-0064 EA 32 Watt, Rapid Start, U-Shaped T8 Fluorescent Lamp.....	21.59	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.35	
26 01 50 51-0065 EA 40 Watt, Rapid Start, U-Shaped T12 Fluorescent Lamp	20.86	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.35	
26 01 50 51-0066 EA 27-55 Watt, 4-Pin Compact Fluorescent Lamp	18.78	
<i>For Multiple Lamps In Fixture, Deduct</i>	-1.68	
26 01 50 51-0067 EA 5-13 Watt, 2-Pin Compact Fluorescent Lamp	8.68	
<i>For Multiple Lamps In Fixture, Deduct</i>	-1.68	
26 01 50 51-0068 EA 9-26 Watt, 4-Pin Compact Fluorescent Lamp	9.52	
<i>For Multiple Lamps In Fixture, Deduct</i>	-1.68	
26 01 50 51-0069 EA Compact Fluorescent 13 Watt, 4-Pin Lamps CF13DD/E/827, Dulux	24.70	
26 01 50 51-0070 EA Compact Fluorescent 18 Watt, 4-Pin Lamps CF18DD/E/827, Dulux	24.70	
26 01 50 51-0071 EA 32 Watt 2D (DoubleD) Fluorescent Lamp	45.05	
26 01 50 51-0072 EA 26 Watt (1,600 Lumens) 4-pin Quad Tube PL Lamp.....	16.81	
26 01 50 51-0073 EA <9 Watt, Screw-In, Spiral Compact Fluorescent Lamps.....	8.01	
26 01 50 51-0074 EA 9 To 27 Watt, Screw-In, Spiral Compact Fluorescent Lamps.....	7.17	
26 01 50 51-0075 EA 29 To 32 Watt, Screw-In, Spiral Compact Fluorescent Lamps.....	7.17	
26 01 50 51-0076 EA 33 To 42 Watt, Screw-In, Spiral Compact Fluorescent Lamps.....	24.97	
26 01 50 51-0077 EA 43 To 65 Watt, Screw-In, Spiral Compact Fluorescent Lamps.....	27.08	
26 01 50 51-0078 EA 85 Watt, Screw-In, Spiral Compact Fluorescent Lamps.....	49.93	
26 01 50 51-0079 EA 105 Watt, Screw-In, Spiral Compact Fluorescent Lamps.....	59.45	
26 01 50 51-0080 EA 200 Watt, Screw-In, Spiral Compact Fluorescent Lamps.....	61.39	
26 01 50 51-0081 EA 11 Watt, Screw-In, Compact Fluorescent Reflector Lamps.....	23.77	
26 01 50 51-0082 EA 15 Watt, Screw-In, Compact Fluorescent Reflector Lamps.....	24.70	
26 01 50 51-0083 EA 20 To 28 Watt, Screw-In, Compact Fluorescent Reflector Lamps.....	28.19	
26 01 50 51-0084 Metal Halide Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0085 EA 50 Watt, Pulse Start Metal Halide Lamp	37.26	
26 01 50 51-0086 EA 70 Watt, Pulse Start Metal Halide Lamp	35.77	
26 01 50 51-0087 EA 100 Watt, Pulse Start Metal Halide Lamp	40.50	
26 01 50 51-0088 EA 150 Watt, Pulse Start Metal Halide Lamp	39.43	
26 01 50 51-0089 EA 175 Watt, Pulse Start Metal Halide Lamp	39.12	
26 01 50 51-0090 EA 250 Watt, Pulse Start Metal Halide Lamp	39.33	
26 01 50 51-0091 EA 400 Watt, Pulse Start Metal Halide Lamp	46.88	
26 01 50 51-0092 EA 1,000 Watt, Pulse Start Metal Halide Lamp	54.11	
26 01 50 51-0093 EA 1,500 Watt, Pulse Start Metal Halide Lamp	53.81	
26 01 50 51-0094 High Pressure Sodium Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0095 EA 35 Watt, High Pressure Sodium Lamp.....	31.16	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	2.58	
26 01 50 51-0096 EA 50 Watt, High Pressure Sodium Lamp.....	31.16	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	2.58	
26 01 50 51-0097 EA 70 Watt, High Pressure Sodium Lamp.....	31.80	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	2.58	
26 01 50 51-0098 EA 100 Watt, High Pressure Sodium Lamp.....	33.03	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	2.58	
26 01 50 51-0099 EA 150 Watt, High Pressure Sodium Lamp.....	31.80	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	2.58	
26 01 50 51-0100 EA 250 Watt, High Pressure Sodium Lamp.....	31.80	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	2.58	
26 01 50 51-0101 EA 400 Watt, High Pressure Sodium Lamp.....	29.97	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	2.58	
26 01 50 51-0102 EA 1,000 Watt, High Pressure Sodium Lamp.....	66.79	
26 01 50 51-0103 Low Pressure Sodium Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0104 EA 35 Watt, Low Pressure Sodium Lamp.....	75.55	
26 01 50 51-0105 EA 55 Watt, Low Pressure Sodium Lamp.....	84.03	
26 01 50 51-0106 EA 70 Watt, Low Pressure Sodium Lamp.....	85.94	
26 01 50 51-0107 EA 90 Watt, Low Pressure Sodium Lamp.....	87.85	
26 01 50 51-0108 EA 135 Watt, Low Pressure Sodium Lamp.....	95.49	
26 01 50 51-0109 EA 180 Watt, Low Pressure Sodium Lamp.....	129.87	
26 01 50 51-0110 LED Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0111 LED Lamps, Candelabra Base, CA10 <small>(26 01 50 51-0110)</small>		
26 01 50 51-0112 EA 3 Watt (25 Watt Incandescent Equivalent), Candelabra Base, CA10, Dimmable LED Lamp (Energy Star)	10.95	
26 01 50 51-0113 LED Lamps, Medium Base, A19 Or A21 <small>(26 01 50 51-0110)</small>		
26 01 50 51-0114 EA 6 Watt (40 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star).....	13.85	
26 01 50 51-0115 EA 11 Watt (60 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star).....	13.85	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0116 EA 14 Watt (75 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star).....	21.63	
26 01 50 51-0117 EA 17 Watt (75 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star).....	15.81	
26 01 50 51-0118 EA 18 Watt (100 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star).....	26.50	
26 01 50 51-0119 LED Lamps, Medium Base, BR30 Or BR40 <small>(26 01 50 51-0110)</small>		
26 01 50 51-0120 EA 9.5 Watt (65 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star).....	19.04	
26 01 50 51-0121 EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star).....	17.39	
26 01 50 51-0122 EA 11 Watt (65 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	21.76	
26 01 50 51-0123 EA 14.5 Watt (75 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	18.85	
26 01 50 51-0124 EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	23.71	
26 01 50 51-0125 EA 18 Watt (90 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	18.85	
26 01 50 51-0126 LED Lamps, Medium Base, PAR <small>(26 01 50 51-0110)</small>		
26 01 50 51-0127 EA 7 Watt (45 Watt Halogen Equivalent), Medium Base, PAR20, Dimmable LED Lamp (Energy Star).....	20.60	
26 01 50 51-0128 EA 12 Watt (60 Watt Halogen Equivalent), Medium Base, Short Neck Par30, Dimmable LED Lamp (Energy Star).....	26.64	
26 01 50 51-0129 EA 16.3 Watt (65 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star).....	26.64	
26 01 50 51-0130 EA 15.6 Watt (70 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star).....	25.67	
26 01 50 51-0131 EA 12 Watt (50 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star).....	24.69	
26 01 50 51-0132 EA 15 Watt (75 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star).....	24.69	
26 01 50 51-0133 EA 18 Watt (90 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star).....	44.35	
26 01 50 51-0134 EA 15 Watt (75 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star).....	26.64	
26 01 50 51-0135 EA 18 Watt (90 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star).....	25.67	
26 01 50 51-0136 EA 19 Watt (120 Watt Halogen Equivalent), Medium Base, Par38, Dimmable LED Lamp (Energy Star).....	26.64	
26 01 50 51-0137 EA 24 Watt (120 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star).....	26.64	
26 01 50 51-0138 LED Lamps, GU Base, MR16 <small>(26 01 50 51-0110)</small>		
26 01 50 51-0139 EA 4 Watt (20 Watt Halogen Equivalent), GU5.3 Base, MR16, LED Lamp (Energy Star).....	15.45	
26 01 50 51-0140 EA 6 Watt (30 Watt Halogen Equivalent), GU10 Base, MR16, Dimmable LED Lamp (Energy Star).....	19.04	
26 01 50 51-0141 EA 8 Watt (50 Watt Halogen Equivalent), GU5.3 Base, MR16, Dimmable LED Lamp (Energy Star).....	20.60	
26 01 50 51-0142 LED Lamps, PL Series <small>(26 01 50 51-0110)</small>		
26 01 50 51-0143 EA 3.5 Watt, 2-Pin CFL G23 Base , Hybrid Lamp (GreenCreative PLS 3.5 HYB G23).....	18.11	
26 01 50 51-0144 EA 26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/827/DIR).....	23.51	
26 01 50 51-0145 EA 26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/830/DIR).....	19.38	
26 01 50 51-0146 EA 26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/835/DIR).....	21.96	
26 01 50 51-0147 EA 26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/840/DIR).....	21.96	
26 01 50 51-0148 EA 26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 10.5PLH/930/DIR).....	26.60	
26 01 50 51-0149 EA 13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/827/DIR).....	21.96	
26 01 50 51-0150 EA 13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/830/DIR).....	21.96	
26 01 50 51-0151 EA 13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/835/DIR).....	21.96	
26 01 50 51-0152 EA 13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/840/DIR).....	21.96	
26 01 50 51-0153 EA 26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 10PLV/827/DIR).....	25.05	
26 01 50 51-0154 EA 26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/830/DIR).....	25.05	
26 01 50 51-0155 EA 26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 10PLV/835/DIR).....	25.05	
26 01 50 51-0156 EA 26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/840/DIR).....	25.05	
26 01 50 51-0157 EA 26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 11PLV/930/DIR).....	23.51	
26 01 50 51-0158 EA 13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/827/DIR).....	23.51	
26 01 50 51-0159 EA 13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/830/DIR).....	23.51	
26 01 50 51-0160 EA 13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/835/DIR).....	24.54	
26 01 50 51-0161 EA 13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/840/DIR).....	24.54	
26 01 50 51-0162 EA 26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/827/BYP).....	24.76	
26 01 50 51-0163 EA 26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/830/BYP).....	24.76	
26 01 50 51-0164 EA 26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/835/BYP).....	24.76	
26 01 50 51-0165 EA 26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/840/BYP).....	24.76	
26 01 50 51-0166 EA 13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP).....	25.57	
26 01 50 51-0167 EA 13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP).....	25.57	
26 01 50 51-0168 EA 13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/E26).....	25.57	
26 01 50 51-0169 EA 13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/E26).....	25.57	
26 01 50 51-0170 EA 13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/E26).....	25.57	
26 01 50 51-0171 EA 13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/GU24).....	25.57	
26 01 50 51-0172 EA 13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/GU24).....	25.57	
26 01 50 51-0173 EA 13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/GU24).....	25.57	
26 01 50 51-0174 EA 26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/827/BYP).....	33.62	
26 01 50 51-0175 EA 26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/830/BYP).....	33.62	
26 01 50 51-0176 EA 26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/835/BYP).....	33.62	
26 01 50 51-0177 EA 26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/840/BYP).....	31.76	
26 01 50 51-0178 EA 13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 7PLV/835/BYP).....	31.76	
26 01 50 51-0179 EA 13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 7PLV/840/BYP).....	31.76	
26 01 50 51-0180 EA 4 Pin, 6 Watt, 560 Lumens 4000K CCT, Horizontal Mount LED PL Lamp (Green Creative 57898).....	19.20	
26 01 50 51-0181 HID LED Lamps, Medium Base E26 <small>(26 01 50 51-0110)</small>		
26 01 50 51-0182 EA 27 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/840/277V/E26).....	67.31	
26 01 50 51-0183 EA 27 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/850/277V/E26).....	67.31	
26 01 50 51-0184 EA 45 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/840/277V/E26).....	86.37	
26 01 50 51-0185 EA 45 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/850/277V/E26).....	86.37	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 01 50 51-0186	EA	10 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-3026)	55.34	
26 01 50 51-0187	EA	10 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-4026)	55.34	
26 01 50 51-0188	EA	10 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-5026)	55.34	
26 01 50 51-0189	EA	10 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-6026)	55.34	
26 01 50 51-0190	EA	15 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-3026)	57.40	
26 01 50 51-0191	EA	15 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-4026)	57.40	
26 01 50 51-0192	EA	15 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-5026)	57.40	
26 01 50 51-0193	EA	15 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-6026)	57.40	
26 01 50 51-0194	EA	20 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-3026)	65.64	
26 01 50 51-0195	EA	20 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-4026)	65.64	
26 01 50 51-0196	EA	20 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-5026)	65.64	
26 01 50 51-0197	EA	20 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-6026)	65.64	
26 01 50 51-0198	EA	25 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-3026)	75.95	
26 01 50 51-0199	EA	25 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-4026)	75.95	
26 01 50 51-0200	EA	25 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-5026)	75.95	
26 01 50 51-0201	EA	25 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-6026)	75.95	
26 01 50 51-0202	EA	30 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-3026)	98.62	
26 01 50 51-0203	EA	30 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-4026)	98.62	
26 01 50 51-0204	EA	30 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-5026)	98.62	
26 01 50 51-0205	EA	30 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-6026)	98.62	
26 01 50 51-0206	EA	40 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-3026)	118.20	
26 01 50 51-0207	EA	40 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-4026)	118.20	
26 01 50 51-0208	EA	40 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-5026)	118.20	
26 01 50 51-0209	EA	40 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-6026)	118.20	
26 01 50 51-0210	EA	60 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-3026)	131.60	
26 01 50 51-0211	EA	60 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-4026)	131.60	
26 01 50 51-0212	EA	60 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-5026)	131.60	
26 01 50 51-0213	EA	60 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-6026)	131.60	
26 01 50 51-0214	EA	80 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-3026)	180.03	
26 01 50 51-0215	EA	80 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-4026)	180.03	
26 01 50 51-0216	EA	80 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-5026)	180.03	
26 01 50 51-0217	EA	80 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-6026)	180.03	
26 01 50 51-0218	EA	100 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-3026)	186.21	
26 01 50 51-0219	EA	100 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-4026)	186.21	
26 01 50 51-0220	EA	100 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-5026)	186.21	
26 01 50 51-0221	EA	100 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-6026)	186.21	
26 01 50 51-0222	EA	120 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-3026)	222.28	
26 01 50 51-0223	EA	120 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-4026)	222.28	
26 01 50 51-0224	EA	120 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-5026)	222.28	
26 01 50 51-0225	EA	120 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-6026)	222.28	
26 01 50 51-0226	EA	150 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-3026)	265.56	
26 01 50 51-0227	EA	150 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-4026)	265.56	
26 01 50 51-0228	EA	150 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-5026)	265.56	
26 01 50 51-0229	EA	150 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-6026)	265.56	
26 01 50 51-0230	EA	20 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED20WPT40KMED-G6)	84.28	
26 01 50 51-0231	EA	20 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED20WPT50KMED-G6)	91.49	
26 01 50 51-0232	EA	27 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED27WPT40KMED-G5)	91.49	
26 01 50 51-0233	EA	27 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED27WPT50KMED-G5)	84.28	
26 01 50 51-0234	EA	36 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED36WPT40KMED-G5)	106.95	
26 01 50 51-0235	EA	36 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED36WPT50KMED-G5)	97.67	
26 01 50 51-0236	EA	45 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED45WPT40KMED-G5)	118.28	
26 01 50 51-0237	EA	45 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED45WPT50KMED-G5)	117.07	
26 01 50 51-0238	EA	54 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED54WPT40KMED-G5)	119.83	
26 01 50 51-0239	EA	54 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED54WPT50KMED-G5)	119.83	
26 01 50 51-0240	EA	27 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED27WPT40KMED-G7)	70.91	
26 01 50 51-0241	EA	27 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED27WPT50KMED-G7)	70.91	
26 01 50 51-0242	EA	36 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED36WPT40KMED-G7)	80.44	
26 01 50 51-0243	EA	36 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED36WPT50KMED-G7)	80.44	
26 01 50 51-0244	EA	45 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED45WPT40KMED-G7)	86.78	
26 01 50 51-0245	EA	45 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED45WPT50KMED-G7)	86.78	
26 01 50 51-0246	EA	54 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED54WPT40KMED-G7)	96.30	
26 01 50 51-0247	EA	54 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED54WPT50KMED-G7)	96.30	
26 01 50 51-0248	EA	20 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-20W8-55K-E26)	96.80	
26 01 50 51-0249	EA	30 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-30W8-55K-E26)	105.25	
26 01 50 51-0250	EA	40 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-40W8-55K-E26)	131.94	
26 01 50 51-0251	EA	50 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-50W8-55K-E26)	145.74	
26 01 50 51-0252	EA	10 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-10W12-55K-E26)	54.75	
26 01 50 51-0253	EA	15 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-15W12-55K-E26)	62.17	
26 01 50 51-0254	EA	20 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-20W12-55K-E26)	65.88	
26 01 50 51-0255	EA	25 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-25W12-55K-E26)	72.78	
26 01 50 51-0256	EA	15 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148015-UNV)	88.37	
26 01 50 51-0257	EA	20 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148020-UNV)	104.23	
26 01 50 51-0258	EA	25 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148025-UNV)	143.86	
26 01 50 51-0259	EA	30 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148030-UNV)	151.78	
26 01 50 51-0260	EA	35 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148035-UNV)	164.47	
26 01 50 51-0261	EA	40 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148040-UNV)	172.39	
26 01 50 51-0262	EA	60 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148060-UNV)	250.08	
26 01 50 51-0263	EA	20 Watt, 5000K CCT, 120-277 Volt, E26 (Medium) Base, LED Retrofit Omni-Directional Lamp (HYLITE HL-IOD-20W-E26-50K)	64.15	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0264				HID LED Lamps, Mogul Base E39 Or EX39 <small>(26 01 50 51-0110)</small>		
	EA			120 Watt, 2700K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/827/277V/EX39).....	237.57	
	EA			120 Watt, 5000K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/850/277V/EX39).....	237.57	
	EA			120 Watt, 5700 CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/857/277V/EX39).....	237.57	
	EA			27 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/830/277V/EX39).....	67.31	
	EA			27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/840/277V/EX39/R).....	67.31	
	EA			27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/850/277V/EX39).....	67.31	
	EA			45 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/830/277V/EX39).....	86.37	
	EA			45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/840/277V/EX39/R).....	86.37	
	EA			45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/850/277V/EX39).....	86.37	
	EA			80 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 80HID/850/277V/EX39).....	163.65	
	EA			80 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-3039).....	180.03	
	EA			80 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-4039).....	180.03	
	EA			80 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-5039).....	180.03	
	EA			80 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-6039).....	180.03	
	EA			100 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-3039).....	186.21	
	EA			100 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-4039).....	186.21	
	EA			100 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-5039).....	186.21	
	EA			100 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-6039).....	186.21	
	EA			120 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-3039).....	222.28	
	EA			120 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-4039).....	222.28	
	EA			120 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-5039).....	222.28	
	EA			120 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-6039).....	222.28	
	EA			150 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-3039).....	265.56	
	EA			150 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-4039).....	265.56	
	EA			150 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-5039).....	265.56	
	EA			150 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-6039).....	265.56	
	EA			27 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT40KMOG-G5).....	91.49	
	EA			27 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT50KMOG-G5).....	91.49	
	EA			36 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT40KMOG-G5).....	106.95	
	EA			36 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT50KMOG-G5).....	105.52	
	EA			45 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT40KMOG-G5).....	118.28	
	EA			45 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT50KMOG-G5).....	117.07	
	EA			54 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT40KMOG-G5).....	119.83	
	EA			54 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT50KMOG-G5).....	116.24	
	EA			100 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED100WPT40KMOG-G5).....	256.37	
	EA			20 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT180/40KMOG-G7).....	91.46	
	EA			20 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT180/50KMOG-G7).....	91.46	
	EA			30 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT180/40KMOG-G7).....	104.28	
	EA			30 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT180/50KMOG-G7).....	104.28	
	EA			40 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT180/40KMOG-G7).....	111.99	
	EA			40 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT180/50KMOG-G7).....	111.99	
	EA			27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT40KMOG-G7).....	70.79	
	EA			27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT50KMOG-G7).....	70.79	
	EA			36 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT40KMOG-G7).....	80.44	
	EA			36 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT50KMOG-G7).....	80.44	
	EA			45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT40KMOG-G7).....	86.78	
	EA			45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT50KMOG-G7).....	86.78	
	EA			54 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT40KMOG-G7).....	96.30	
	EA			54 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT50KMOG-G7).....	96.30	
	EA			65 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-65W8-55K-E39).....	176.56	
	EA			80 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-80W8-55K-E39).....	204.79	
	EA			100 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-100W8-55K-E39).....	244.98	
	EA			120 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-120W8-55K-E39).....	481.65	
	EA			150 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-150W8-55K-E39).....	454.62	
	EA			200 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-200W8-55K-E39).....	481.65	
	EA			250 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-250W8-55K-E39).....	483.75	
	EA			24 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M30-A).....	70.31	
	EA			24 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M40-A).....	70.31	
	EA			24 Watt, 5700K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M57-A).....	70.31	
	EA			100 Watt, Mogul Base E39, LED Area Lamp (MaxLite AR100LED50).....	211.87	
	EA			115 Watt, 4000K CCT, Mogul Base EX39, HID LED Lamp (Keystone KT-LED115HID-V-EX39-840-D).....	285.44	
	EA			40 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Arc-Cob Lamp (HYLITE HL-AC-40W-E39-50K).....	176.10	
	EA			100 Watt, 480 Volt, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-100W-E39-50K).....	208.10	
	EA			45 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-45W-E39-50K).....	89.74	
	EA			40 Watt, 5680 Lumens, Mogul Base E39, LED Directional Flood Lamp (HYLITE HL-IDL-40W-E39-50K).....	200.04	
26 01 50 51-0330				LED Lamps, 2G11 Base <small>(26 01 50 51-0110)</small>		
	EA			19 Watt, 1550 Lumens, 3500K CCT, 2G11 Base, Dimmable LED Lamp (Green Creative 14.5PLL/835/DIR).....	34.22	
26 01 50 51-0332				LED Lamps, GX23 Or G23 Base <small>(26 01 50 51-0110)</small>		
	EA			5 Watt, 580 Lumens, 2 Pin GX23 Base, Dimmable LED Lamp (Lunera HN-H-GX23-U-5W-840-G4).....	17.34	
26 01 50 51-0334				LED Lamps, G24 Base <small>(26 01 50 51-0110)</small>		
	EA			5.5 Watt, 500 Lumens, G24 Base, LED Lamp (Green Creative 5.5PLH/835/DIR/R).....	22.23	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST	
26 01 50 51-0336 LED Tubes (Fluorescent Lamp Replacement) (26 01 50 51-0110)						
26 01 50 51-0337	EA	2'	1,250 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24IN-4000K)	30.46		
			<i>For Multiple Lamps In Fixture, Deduct</i>	-2.68		
26 01 50 51-0338	EA	2'	1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24INU-4000K)	39.25		
			<i>For Multiple Lamps In Fixture, Deduct</i>	-2.68		
26 01 50 51-0339	EA	3'	1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-36IN-4000K)	32.81		
			<i>For Multiple Lamps In Fixture, Deduct</i>	-2.85		
26 01 50 51-0340	EA	4'	1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-48IN-4000K)	35.87		
			<i>For Multiple Lamps In Fixture, Deduct</i>	-3.01		
26 01 50 51-0341	EA	4'	2,200 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2HO-T8-48IN-4000K)	39.17		
			<i>For Multiple Lamps In Fixture, Deduct</i>	-3.01		
26 01 50 51-0342	EA	4'	2,539 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02018TBN)	25.16		
			<i>For Multiple Lamps In Fixture, Deduct</i>	-3.01		
26 01 50 51-0343	EA	2'	1,348 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02010TBN)	24.15		
			<i>For Multiple Lamps In Fixture, Deduct</i>	-2.68		
26 01 50 51-0344	EA	2'	1,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED9T8/L24/FG/835/BF)	22.11		
			<i>For Multiple Lamps In Fixture, Deduct</i>	-2.68		
26 01 50 51-0345	EA	3'	1,650 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED12T8/L36/FG/835/BF)	22.55		
			<i>For Multiple Lamps In Fixture, Deduct</i>	-2.85		
26 01 50 51-0346	EA	4'	1,700 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED14T8/L48/FG/835/BF)	22.62		
			<i>For Multiple Lamps In Fixture, Deduct</i>	-3.01		
26 01 50 51-0347	EA	4'	2,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED17T8/L48/FG/835/BF)	23.40		
			<i>For Multiple Lamps In Fixture, Deduct</i>	-3.01		
26 01 50 51-0348 Filament LED Lamps (26 01 50 51-0110)						
26 01 50 51-0349	EA	7.5 Watt	2700K CCT, Clear A19 Filament LED Lamp (Green Creative 7.5FA19DIM/827)	20.51		
26 01 50 51-0350	EA	4.5 Watt	2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5A19DIM/827/R)	20.51		
26 01 50 51-0351	EA	4.5 Watt	2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5FA19DIM/827)	19.48		
26 01 50 51-0352	EA	4.5 Watt	2400 CCT, Amber A19 Filament LED Lamp (Green Creative 4.5FA19DIM/824/A)	19.48		
26 01 50 51-0353	EA	4.5 Watt	2700K CCT, Clear G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/827)	21.13		
26 01 50 51-0354	EA	4.5 Watt	2400 CCT, Amber G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/824/A)	21.13		
26 01 50 51-0355	EA	3.5 Watt	2700K CCT, Clear B10 Candle Filament LED Lamp (Green Creative 3.5FB10DIM/827)	17.42		
26 01 50 51-0356	EA	3.5 Watt	2700K CCT, Clear B11 Candle Filament LED Lamp (Green Creative 3.5FB11DIM/827/E26)	17.42		
26 01 50 51-0357	EA	3.5 Watt	2400 CCT, Amber B10 Candle Filament LED Lamp (Green Creative 3.5FBA10DIM/824/FT/A)	18.03		
26 01 50 51-0358	EA	3.5 Watt	2400 CCT, Amber ST19 Filament LED Lamp (Green Creative 5FST19DIM/824/A)	22.57		
26 01 50 51-0359	EA	4.5 Watt	120 Volt 450 Lumens ULTRA LED Filament Lamp (Sylvania 79521)	16.84		
26 01 50 51-0360 Other Lamps (26 01 50 51-0110)						
26 01 50 51-0361	EA	8 Watt	Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 8A19/END/2700 DIM 6/1)	19.31		
26 01 50 51-0362	EA	8 Watt	Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 7A19/2700 DIM)	19.31		
26 01 50 51-0363	EA	11 Watt	Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 11A19/2700 DIM)	19.31		
26 01 50 51-0364	EA	12 Watt	Medium Base, Dimmable BR40 LED Lamp (Philips 12BR40/F90 2700 DIM AF 6/1)	20.34		
26 01 50 51-0365	EA	13 Watt	Medium Base, Dimmable PAR38 LED Single Optic Lamp (Philips 13PAR38/S15 4000 DIM AF SO 6/1)	20.34		
26 01 50 51-0366	EA	8 Watt	Medium Base, Dimmable PAR20 LED Lamp (Philips 8PAR20/END/F36 3000 DIM 6/1)	20.34		
26 01 50 51-0367 LED Lamps, Light Engines, Round, LER Series (26 01 50 51-0110)						
26 01 50 51-0368	EA	5.5" Diameter, 17 Watt	3000K CCT, Round LED Light Engine (Maxlite LER5.5A1730)	40.87		
26 01 50 51-0369	EA	9 Watt, 120 Volt, 800 Lumens, 2700K	Omnidirectional Ultra LED A-line Lamp (Sylvania LED9A19/DIM/O/827/U)	24.58		
26 01 50 51-0370 Recycle Hazardous Lamps (26 01 50 51)						
Note: Includes containers, shipping costs and recycling fees. Excludes lamp removal. See CSI section 01 22 23 00-0001 for work over 14' to add appropriate aerial lift, 26 01 50 51-0001 for removal of lamps from fixtures.						
26 01 50 51-0371	EA	Recycle 2' Length Linear Fluorescent Lamps	.....	0.32	
26 01 50 51-0372	EA	Recycle 3' Length Linear Fluorescent Lamps	.....	0.49	
26 01 50 51-0373	EA	Recycle 4' Length Linear Fluorescent Lamps	.....	0.65	
26 01 50 51-0374	EA	Recycle 6' Length Linear Fluorescent Lamps	.....	0.97	
26 01 50 51-0375	EA	Recycle 8' Length Linear Fluorescent Lamps	.....	1.29	
26 01 50 51-0376	EA	Recycle Compact Fluorescent Lamps	.....	0.58	
26 01 50 51-0377	EA	Recycle U-Shaped Or Circular Fluorescent Lamps	.....	0.58	
26 01 50 51-0378	EA	Recycle High Intensity Discharge (HID) Lamps	.....	2.02	
26 01 50 52 Ballasts Replacement (26 01 50)						
26 01 50 52-0001	High Intensity Discharge (HID) Ballasts (26 01 50 52)					
26 01 50 52-0002	Magnetic High Intensity Discharge (HID) Ballasts (26 01 50 52-0001)					
26 01 50 52-0003	Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0002)					
26 01 50 52-0004	Metal Halide, Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0003)					
26 01 50 52-0005	EA	1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	.....	118.36	25.37
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		10.66		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0006 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	121.04	25.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.66	
26 01 50 52-0007 EA 1 Lamp, 250 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	121.04	25.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.66	
26 01 50 52-0008 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	113.41	25.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.66	
26 01 50 52-0009 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	113.41	25.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.66	
26 01 50 52-0010 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	164.53	25.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.66	
26 01 50 52-0011 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	164.53	25.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.66	
26 01 50 52-0012 EA 1 Lamp, 1,500 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	209.54	25.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.66	
26 01 50 52-0013 EA 1 Lamp, 1,500 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	232.51	25.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.66	
26 01 50 52-0014 High Pressure Sodium, Core And Coil High Intensity Discharge (HID) Ballasts		
<i>(26 01 50 52-0003)</i>		
26 01 50 52-0015 EA 1 Lamp, 50 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	107.77	25.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.66	
26 01 50 52-0016 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	113.76	25.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.66	
26 01 50 52-0017 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	111.18	25.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.66	
26 01 50 52-0018 EA 1 Lamp, 150 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	129.18	25.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.66	
26 01 50 52-0019 EA 1 Lamp, 150 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	126.61	25.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.66	
26 01 50 52-0020 EA 1 Lamp, 250 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	143.32	25.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.66	
26 01 50 52-0021 EA 1 Lamp, 250 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	143.32	25.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.66	
26 01 50 52-0022 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	171.10	25.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.66	
26 01 50 52-0023 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	171.10	25.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.66	
26 01 50 52-0024 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	268.60	25.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.66	
26 01 50 52-0025 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	268.60	25.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.66	
26 01 50 52-0026 Mounting Brackets For Core And Coil High Intensity Discharge (HID) Ballasts		
<i>(26 01 50 52-0003)</i>		
26 01 50 52-0027 EA Single Mounting Bracket For Core And Coil Type.....	14.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.05	
26 01 50 52-0028 EA Double Mounting Bracket For Core And Coil Type.....	24.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.57	
26 01 50 52-0029 F-Can High Intensity Discharge (HID) Ballasts		
<i>(26 01 50 52-0002)</i>		
26 01 50 52-0030 Metal Halide, F-Can High Intensity Discharge (HID) Ballasts		
<i>(26 01 50 52-0029)</i>		
26 01 50 52-0031 EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	147.87	25.37
For Pulse Start Ballast, Add	11.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.66	
26 01 50 52-0032 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	155.30	25.37
For Pulse Start Ballast, Add	11.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.66	
26 01 50 52-0033 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	142.24	25.37
For Pulse Start Ballast, Add	10.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.66	
26 01 50 52-0034 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	163.70	25.37
For Pulse Start Ballast, Add	12.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.66	
26 01 50 52-0035 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	223.83	25.37
For Pulse Start Ballast, Add	18.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.66	
26 01 50 52-0036 High Pressure Sodium, F-Can High Intensity Discharge (HID) Ballasts		
<i>(26 01 50 52-0029)</i>		
26 01 50 52-0037 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	176.03	25.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.66	
26 01 50 52-0038 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	187.61	25.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.66	
26 01 50 52-0039 Postline High Intensity Discharge (HID) Ballasts		
<i>(26 01 50 52-0002)</i>		
26 01 50 52-0040 Metal Halide, Postline High Intensity Discharge (HID) Ballasts		
<i>(26 01 50 52-0039)</i>		

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0041 EA 1 Lamp, 50 Watt Metal Halide, 120 Volt, Postline High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	287.07 10.66	25.37
26 01 50 52-0042 High Pressure Sodium, Postline High Intensity Discharge (HID) Ballasts (26 01 50 52-0039)		
26 01 50 52-0043 EA 1 Lamp, 70 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	437.41 10.62	25.30
26 01 50 52-0044 EA 1 Lamp, 100 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	486.79 10.62	25.30
26 01 50 52-0045 EA 1 Lamp, 150 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	469.71 10.62	25.30
26 01 50 52-0046 Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0002)		
26 01 50 52-0047 Metal Halide, Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0046)		
26 01 50 52-0048 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	351.40 10.66	25.37
26 01 50 52-0049 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	397.64 10.66	25.37
26 01 50 52-0050 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	522.34 10.66	25.37
26 01 50 52-0051 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	519.65 10.66	25.37
26 01 50 52-0052 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	725.01 11.27	27.40
26 01 50 52-0053 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	725.01 11.27	27.40
26 01 50 52-0054 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	501.30 10.66	25.37
26 01 50 52-0055 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	588.21 10.66	25.37
26 01 50 52-0056 High Pressure Sodium, Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0046)		
26 01 50 52-0057 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	647.97 10.66	25.37
26 01 50 52-0058 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	617.35 10.66	25.37
26 01 50 52-0059 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	791.00 10.66	25.37
26 01 50 52-0060 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	791.00 10.66	25.37
26 01 50 52-0061 Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0002)		
26 01 50 52-0062 Metal Halide, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0061)		
26 01 50 52-0063 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	393.77 10.66	25.37
26 01 50 52-0064 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	424.63 10.66	25.37
26 01 50 52-0065 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	421.59 10.66	25.37
26 01 50 52-0066 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	442.27 10.66	25.37
26 01 50 52-0067 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	698.05 11.27	27.40
26 01 50 52-0068 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	855.93 11.27	27.40
26 01 50 52-0069 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	651.57 10.66	25.37
26 01 50 52-0070 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	594.00 10.66	25.37
26 01 50 52-0071 High Pressure Sodium, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0061)		
26 01 50 52-0072 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	505.75 10.66	25.37
26 01 50 52-0073 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	544.68 10.66	25.37
26 01 50 52-0074 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	808.97 10.66	25.37
26 01 50 52-0075 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	697.31 10.66	25.37



	MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0076	Electronic High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0001)</small>		
26 01 50 52-0077	Electronic Low Frequency High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0076)</small>		
26 01 50 52-0078	EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	162.67	25.37
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.66	
26 01 50 52-0079	EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	162.67	25.37
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.66	
26 01 50 52-0080	EA 1 Lamp, 150 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	182.18	25.37
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.66	
26 01 50 52-0081	EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	455.58	25.37
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.66	
26 01 50 52-0082	EA 1 Lamp, 300 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	455.58	25.37
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.66	
26 01 50 52-0083	EA 1 Lamp, 320 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	455.58	25.37
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.66	
26 01 50 52-0084	EA 1 Lamp, 350 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	455.58	25.37
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.66	
26 01 50 52-0085	EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	455.58	25.37
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.66	
26 01 50 52-0086	Owner Supplied Ballasts <small>(26 01 50 52)</small>		
26 01 50 52-0087	EA Install Owner Supplied, 1 Lamp Fluorescent Ballast.....	20.30	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.09	
26 01 50 52-0088	EA Install Owner Supplied, 2 Lamp Fluorescent Ballast.....	25.37	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.61	
26 01 50 52-0089	EA Install Owner Supplied, 3 Lamp Fluorescent Ballast.....	29.44	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.83	
26 01 50 52-0090	EA Install Owner Supplied, 4 Lamp Fluorescent Ballast.....	31.46	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.44	
26 01 50 52-0091	EA Install Owner Supplied, 1 Lamp High Intensity Discharge (HID) Ballast.....	35.52	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.66	
26 01 50 52-0092	EA Install Owner Supplied, 2 Lamp High Intensity Discharge (HID) Ballast.....	37.55	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.27	
26 01 50 53	Lens and Accessory Replacement <small>(26 01 50)</small>		
26 01 50 53-0001	Lens and Accessory Replacement <small>(26 01 50 53)</small>		
26 01 50 53-0002	EA Removal And Replacement Of Parabolic Aluminum Louver.....	85.50	
26 01 50 53-0003	EA Removal And Replacement Of Visor For Fixtures.....	174.89	
26 01 50 53-0004	EA Removal And Replacement Of Globe On Pole.....	209.39	
26 01 50 53-0005	EA Removal And Replacement Of Lenses For Flat Top Pole Fixtures.....	82.48	
26 01 50 53-0006	EA Removal And Replacement Of 1' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	27.45	
26 01 50 53-0007	EA Removal And Replacement Of 2' x 2' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	28.61	
26 01 50 53-0008	EA Removal And Replacement Of 2' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	33.63	
26 01 50 53-0009	EA Removal And Replacement Of Slide-On Lampholder.....	11.94	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.04	
26 01 50 53-0010	EA Removal And Replacement Of Screw Mount Lampholder.....	12.12	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.04	
26 01 50 53-0011	EA Removal And Replacement Of Medium Bi-Pin Lampholder.....	13.65	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.04	
26 01 50 53-0012	EA Removal And Replacement Of Fixed High Output Lampholder, Recessed, Double Contact Double Pedestal Type.....	16.01	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.04	
26 01 50 53-0013	EA Removal And Replacement Of Plunger High Output Lampholder, Recessed, Double Contact Double Pedestal Type.....	17.54	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.04	
26 01 50 53-0014	EA Removal And Replacement Of Compact Twin-Tube Lampholder, Snap-in.....	13.42	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.04	
26 01 50 53-0015	EA Removal And Replacement Of Exterior Light Globes.....	53.30	
26 05	Common Work Results for Electrical <small>(26)</small>		
26 05 13	Medium-Voltage Cables <small>(26 05)</small>		
26 05 13 16	Medium-Voltage, Single-and Multi-Conductor Cables <small>(26 05 13)</small>		
26 05 13 16-0001	Wire And Cable <small>(26 05 13 16)</small> Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. Excludes terminations.		
26 05 13 16-0002	5 KV Cable <small>(26 05 13 16-0001)</small>		
26 05 13 16-0003	Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct <small>(26 05 13 16-0002)</small>		
26 05 13 16-0004	MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	3,525.40	811.93
26 05 13 16-0005	MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,238.31	886.55
26 05 13 16-0006	MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,107.80	1,001.66
26 05 13 16-0007	MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	6,685.90	1,234.10

26 Electrical
26 05 Common Work Results for Electrical
26 05 13 Medium-Voltage Cables



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0008 MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	7,628.98	1,389.71
26 05 13 16-0009 MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	9,506.84	1,542.53
26 05 13 16-0010 MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	10,703.65	1,733.19
26 05 13 16-0011 MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	12,819.76	1,928.25
26 05 13 16-0012 MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	14,896.25	2,302.28
26 05 13 16-0013 MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	18,952.85	2,706.29
26 05 13 16-0014 MLF 750 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	28,980.62	3,189.65
26 05 13 16-0015 MLF 1,000 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	39,013.44	3,672.78
26 05 13 16-0016 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial (26 05 13 16-0002)		
Note: Excludes excavation.		
26 05 13 16-0017 MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	3,423.92	
26 05 13 16-0018 MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	3,950.19	
26 05 13 16-0019 MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	4,531.86	
26 05 13 16-0020 MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	5,719.67	
26 05 13 16-0021 MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	6,273.64	
26 05 13 16-0022 MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	7,959.65	
26 05 13 16-0023 MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	8,679.81	
26 05 13 16-0024 MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	10,503.41	
26 05 13 16-0025 MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	11,746.08	
26 05 13 16-0026 MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	14,883.98	
26 05 13 16-0027 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) (26 05 13 16-0002)		
26 05 13 16-0028 MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	2,832.84	506.30
26 05 13 16-0029 MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	3,455.90	542.86
26 05 13 16-0030 MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	4,416.69	686.50
26 05 13 16-0031 MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	5,801.80	833.39
26 05 13 16-0032 MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	6,738.56	978.32
26 05 13 16-0033 MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	8,605.42	1,118.82
26 05 13 16-0034 MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	9,799.13	1,298.14
26 05 13 16-0035 MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	12,312.58	1,633.15
26 05 13 16-0036 MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	14,598.08	2,066.44
26 05 13 16-0037 MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	19,044.29	2,596.28
26 05 13 16-0038 5 KV Non-Shielded Single Copper Conductor (26 05 13 16-0002)		
26 05 13 16-0039 MLF 1/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	7,783.48	1,618.08
26 05 13 16-0040 MLF 2/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	9,150.09	1,641.33
26 05 13 16-0041 MLF 3/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	10,516.69	1,664.59
26 05 13 16-0042 MLF 4/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	10,982.31	1,701.38
26 05 13 16-0043 MLF 350 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	13,361.33	1,766.28
26 05 13 16-0044 MLF 500 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	19,580.84	1,851.09
26 05 13 16-0045 MLF 750 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	30,706.50	2,313.85
26 05 13 16-0046 MLF 1,000 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	35,126.90	3,085.18
26 05 13 16-0047 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct (26 05 13 16-0002)		
26 05 13 16-0048 MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	3,794.63	811.93
26 05 13 16-0049 MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	4,602.26	886.55
26 05 13 16-0050 MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	5,576.45	1,001.66
26 05 13 16-0051 MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	6,455.09	1,117.82
26 05 13 16-0052 MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	7,334.04	1,234.10
26 05 13 16-0053 MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	8,376.83	1,389.71
26 05 13 16-0054 MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	10,523.92	1,542.53
26 05 13 16-0055 MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	11,850.35	1,733.19
26 05 13 16-0056 MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	14,259.62	1,928.25
26 05 13 16-0057 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	16,541.52	2,302.28
26 05 13 16-0058 MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	21,146.54	2,706.29
26 05 13 16-0059 MLF 750 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	32,762.31	3,189.65
26 05 13 16-0060 MLF 1,000 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	44,383.11	3,672.78
26 05 13 16-0061 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial (26 05 13 16-0002)		
Note: Excludes excavation.		
26 05 13 16-0062 MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	3,693.14	
26 05 13 16-0063 MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	4,314.14	
26 05 13 16-0064 MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	5,000.51	
26 05 13 16-0065 MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	5,684.60	
26 05 13 16-0066 MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	6,367.80	
26 05 13 16-0067 MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	7,021.49	
26 05 13 16-0068 MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	8,976.73	
26 05 13 16-0069 MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	9,826.51	
26 05 13 16-0070 MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	11,943.27	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0071 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	13,391.36	
26 05 13 16-0072 MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	17,077.68	
26 05 13 16-0073 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) ^(26 05 13 16-0002)		
26 05 13 16-0074 MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	3,102.07	506.30
26 05 13 16-0075 MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	3,819.85	542.86
26 05 13 16-0076 MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	4,885.34	686.50
26 05 13 16-0077 MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	5,666.28	759.40
26 05 13 16-0078 MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	6,449.94	833.39
26 05 13 16-0079 MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	7,486.41	978.32
26 05 13 16-0080 MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	9,622.50	1,118.82
26 05 13 16-0081 MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	10,945.83	1,298.14
26 05 13 16-0082 MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	13,752.44	1,633.15
26 05 13 16-0083 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	16,243.36	2,066.44
26 05 13 16-0084 MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	21,237.98	2,596.28
26 05 13 16-0085 15 KV Cable ^(26 05 13 16-0001)		
26 05 13 16-0086 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable ^(26 05 13 16-0085)		
26 05 13 16-0087 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct ^(26 05 13 16-0086)		
26 05 13 16-0088 MLF #4 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	7,643.65	1,618.08
26 05 13 16-0089 MLF #2 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	8,375.67	1,618.08
26 05 13 16-0090 MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	8,654.90	1,618.08
26 05 13 16-0091 MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	9,564.51	1,618.08
26 05 13 16-0092 MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	10,427.86	1,618.08
26 05 13 16-0093 MLF 3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	12,054.22	1,689.00
26 05 13 16-0094 MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	12,393.40	1,689.00
26 05 13 16-0095 MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	14,436.84	1,766.28
26 05 13 16-0096 MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	16,529.14	1,807.70
26 05 13 16-0097 MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	20,538.37	2,036.19
26 05 13 16-0098 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial ^(26 05 13 16-0086) Note: Excludes excavation.		
26 05 13 16-0099 MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	6,914.34	
26 05 13 16-0100 MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	7,823.94	
26 05 13 16-0101 MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	8,687.30	
26 05 13 16-0102 MLF 3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	10,336.03	
26 05 13 16-0103 MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	10,675.20	
26 05 13 16-0104 MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	12,813.98	
26 05 13 16-0105 MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	14,909.45	
26 05 13 16-0106 MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	18,687.30	
26 05 13 16-0107 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) ^(26 05 13 16-0085)		
26 05 13 16-0108 MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	6,519.89	723.28
26 05 13 16-0109 MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	7,720.34	833.39
26 05 13 16-0110 MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	8,966.50	978.32
26 05 13 16-0111 MLF 3/0 AWG, XLP, 15 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation Cable	10,786.86	1,118.82
26 05 13 16-0112 MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	11,599.58	1,298.14
26 05 13 16-0113 MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	14,012.54	1,511.21
26 05 13 16-0114 MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	16,660.78	1,760.94
26 05 13 16-0115 MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	20,850.47	2,045.51
26 05 13 16-0116 Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable ^(26 05 13 16-0085)		
26 05 13 16-0117 Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct ^(26 05 13 16-0116)		
26 05 13 16-0118 MLF #4 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	8,291.37	1,618.08
26 05 13 16-0119 MLF #2 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	9,155.16	1,618.08
26 05 13 16-0120 MLF #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	9,484.64	1,618.08
26 05 13 16-0121 MLF 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	10,557.98	1,618.08
26 05 13 16-0122 MLF 2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	11,576.74	1,618.08
26 05 13 16-0123 MLF 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	13,463.96	1,689.00
26 05 13 16-0124 MLF 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	13,864.19	1,689.00
26 05 13 16-0125 MLF 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	16,240.63	1,766.28
26 05 13 16-0126 MLF 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	18,690.91	1,807.70
26 05 13 16-0127 MLF 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	23,318.99	2,036.19



MINOR
 CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

26 05 13 16-0128		Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial <small>(26 05 13 16-0116)</small>		
Note: Excludes excavation.				
26 05 13 16-0129	MLF	#1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	7,744.09	
26 05 13 16-0130	MLF	1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	8,817.42	
26 05 13 16-0131	MLF	2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	9,836.18	
26 05 13 16-0132	MLF	3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	11,745.77	
26 05 13 16-0133	MLF	4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	12,145.98	
26 05 13 16-0134	MLF	250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	14,612.52	
26 05 13 16-0135	MLF	350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	17,063.98	
26 05 13 16-0136	MLF	500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	21,467.92	
26 05 13 16-0137		Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) <small>(26 05 13 16-0116)</small>		
26 05 13 16-0138	MLF	#1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	7,349.64	723.28
26 05 13 16-0139	MLF	1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	8,713.82	833.39
26 05 13 16-0140	MLF	2/0 AWG, EPEPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	10,115.38	978.32
26 05 13 16-0141	MLF	3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	12,196.60	1,118.82
26 05 13 16-0142	MLF	4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	13,070.36	1,298.14
26 05 13 16-0143	MLF	250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	15,816.34	1,511.21
26 05 13 16-0144	MLF	350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	18,822.56	1,760.94
26 05 13 16-0145	MLF	500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	23,631.09	2,045.51
26 05 13 16-0146		15 KV Non-Shielded Single Copper Conductor <small>(26 05 13 16-0085)</small>		
26 05 13 16-0147	MLF	1/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	11,550.14	1,623.75
26 05 13 16-0148	MLF	1/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	9,774.46	1,662.56
26 05 13 16-0149	MLF	3/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	15,350.80	1,701.38
26 05 13 16-0150	MLF	350 MCM, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	21,535.40	1,814.76
26 05 13 16-0151		Shielded, Armored Copper, 15 KV, 3 Conductor Cable <small>(26 05 13 16-0085)</small>		
Note: Laid in cable tray or hung in vertical cable shaft.				
26 05 13 16-0152		Galvanized Steel Interlocked Armor Cable <small>(26 05 13 16-0151)</small>		
26 05 13 16-0153	LF	3 Conductors, #2 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	51.01	12.38
26 05 13 16-0154	LF	3 Conductors, 1/0 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	62.24	13.19
26 05 13 16-0155		Aluminum Interlocked Armor Cable <small>(26 05 13 16-0151)</small>		
26 05 13 16-0156	LF	3 Conductors, #2 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	51.01	12.38
26 05 13 16-0157	LF	3 Conductor, 1/0 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	62.24	13.19
26 05 13 16-0158		Type URD, 15 KV Primary Concentric UD Cable <small>(26 05 13 16-0085)</small>		
Note: 0.175" XLPE insulation, copper conductor.				
26 05 13 16-0159	MLF	#4 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	3,775.03	811.93
26 05 13 16-0160	MLF	#2 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	4,575.76	886.55
26 05 13 16-0161	MLF	#1 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	5,542.33	1,001.66
26 05 13 16-0162	MLF	1/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	7,278.64	1,230.74
26 05 13 16-0163	MLF	2/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	8,311.98	1,385.54
26 05 13 16-0164	MLF	3/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	10,449.87	1,542.53
26 05 13 16-0165	MLF	4/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	11,750.69	1,726.71
26 05 13 16-0166		15 KV, URD Copper Cable, Direct Burial <small>(26 05 13 16-0085)</small>		
26 05 13 16-0167	MLF	3 Conductors, #6 AWG, 15 KV, URD Copper Cable, Direct Burial	20,854.33	
26 05 13 16-0168		Wire Connections <small>(26 05 13 16-0001)</small>		
26 05 13 16-0169		Medium Voltage Up To 5 KV <small>(26 05 13 16-0168)</small>		
26 05 13 16-0170		Shielded One Conductor Cable Splice <small>(26 05 13 16-0169)</small>		
26 05 13 16-0171	EA	#6 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	266.03	100.98
26 05 13 16-0172	EA	#2 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	324.65	100.98
26 05 13 16-0173	EA	1/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	324.65	100.98
26 05 13 16-0174	EA	2/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	354.70	121.18
26 05 13 16-0175	EA	3/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	354.70	121.18
26 05 13 16-0176	EA	4/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	354.70	121.18
26 05 13 16-0177	EA	250 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	394.77	141.38
26 05 13 16-0178	EA	350 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	394.77	141.38
26 05 13 16-0179	EA	500 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	394.77	141.38
26 05 13 16-0180		Cable Termination Without Stress Cone <small>(26 05 13 16-0169)</small>		
26 05 13 16-0181	EA	#6 To 4/0 AWG Cable Termination Without Stress Cone, Medium Voltage To 5 KV	364.85	121.18



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0182 EA 250 To 500 MCM Cable Termination Without Stress Cone, Medium Voltage To 5 KV.....	422.40	141.38
26 05 13 16-0183 Cable Termination With Stress Cone <small>(26 05 13 16-0169)</small>		
26 05 13 16-0184 EA #6 To 4/0 AWG Cable Termination With Stress Cone, Medium Voltage To 5 KV.....	984.63	242.35
26 05 13 16-0185 EA 250 To 500 MCM Cable Termination With Stress Cone, Medium Voltage To 5 KV.....	1,358.84	333.23
26 05 13 16-0186 Connect To Pothead, Pothead Included <small>(26 05 13 16-0169)</small>		
26 05 13 16-0187 EA #6 To 4/0 AWG Connection To Pothead (Included) Medium Voltage To 5 KV.....	1,020.04	242.35
26 05 13 16-0188 EA 250 To 500 MCM Connection To Pothead (Included) Medium Voltage To 5 KV.....	1,282.06	277.70
26 05 13 16-0189 Two Conductor Pothead <small>(26 05 13 16-0169)</small>		
Note: Includes 5 KV pothead.		
26 05 13 16-0190 EA #6 To 4/0 AWG, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	886.49	333.23
26 05 13 16-0191 EA 250 To 350 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	1,161.43	424.13
26 05 13 16-0192 EA 400 To 700 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	1,632.66	480.88
26 05 13 16-0193 EA 750 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	2,463.90	561.05
26 05 13 16-0194 EA 1,000 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	4,366.77	841.47
26 05 13 16-0195 Three Conductor Pothead <small>(26 05 13 16-0169)</small>		
Note: Includes 5 KV pothead.		
26 05 13 16-0196 EA #6 To 4/0 AWG, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	2,830.32	484.71
26 05 13 16-0197 EA 250 To 500 MCM, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	3,129.03	565.49
26 05 13 16-0198 Copper Cable Splice, Crimp Compression Connection <small>(26 05 13 16-0169)</small>		
Note: For bare wire.		
26 05 13 16-0199 EA #6 AWG Crimp Compression Connection For Bare Copper Wire.....	66.04	
26 05 13 16-0200 EA #4 AWG Crimp Compression Connection For Bare Copper Wire.....	72.60	
26 05 13 16-0201 EA #3 AWG Crimp Compression Connection For Bare Copper Wire.....	84.66	
26 05 13 16-0202 EA #2 AWG Crimp Compression Connection For Bare Copper Wire.....	96.23	
26 05 13 16-0203 EA #1 AWG Crimp Compression Connection For Bare Copper Wire.....	108.50	
26 05 13 16-0204 EA 1/0 AWG Crimp Compression Connection For Bare Copper Wire.....	120.50	
26 05 13 16-0205 EA 2/0 AWG Crimp Compression Connection For Bare Copper Wire.....	132.37	
26 05 13 16-0206 EA 3/0 AWG Crimp Compression Connection For Bare Copper Wire.....	144.72	
26 05 13 16-0207 EA 4/0 AWG Crimp Compression Connection For Bare Copper Wire.....	156.79	
26 05 13 16-0208 EA 250 MCM Crimp Compression Connection For Bare Copper Wire.....	169.07	
26 05 13 16-0209 EA 300 MCM Crimp Compression Connection For Bare Copper Wire.....	181.62	
26 05 13 16-0210 EA 350 MCM Crimp Compression Connection For Bare Copper Wire.....	193.50	
26 05 13 16-0211 EA 400 MCM Crimp Compression Connection For Bare Copper Wire.....	218.44	
26 05 13 16-0212 EA 500 MCM Crimp Compression Connection For Bare Copper Wire.....	244.02	
26 05 13 16-0213 Aluminum Cable Splice, Crimp Compression Connection <small>(26 05 13 16-0169)</small>		
Note: For bare wire.		
26 05 13 16-0214 EA #6 AWG Crimp Compression Connection For Bare Aluminum Wire.....	67.30	
26 05 13 16-0215 EA #4 AWG Crimp Compression Connection For Bare Aluminum Wire.....	73.29	
26 05 13 16-0216 EA #2 AWG Crimp Compression Connection For Bare Aluminum Wire.....	98.54	
26 05 13 16-0217 EA #1 AWG Crimp Compression Connection For Bare Aluminum Wire.....	114.36	
26 05 13 16-0218 EA 1/0 AWG Crimp Compression Connection For Bare Aluminum Wire.....	126.03	
26 05 13 16-0219 EA 2/0 AWG Crimp Compression Connection For Bare Aluminum Wire.....	137.65	
26 05 13 16-0220 EA 3/0 AWG Crimp Compression Connection For Bare Aluminum Wire.....	150.85	
26 05 13 16-0221 EA 4/0 AWG Crimp Compression Connection For Bare Aluminum Wire.....	163.27	
26 05 13 16-0222 EA 250 MCM Crimp Compression Connection For Bare Aluminum Wire.....	175.40	
26 05 13 16-0223 EA 300 MCM Crimp Compression Connection For Bare Aluminum Wire.....	187.81	
26 05 13 16-0224 EA 350 MCM Crimp Compression Connection For Bare Aluminum Wire.....	200.00	
26 05 13 16-0225 EA 400 MCM Crimp Compression Connection For Bare Aluminum Wire.....	227.74	
26 05 13 16-0226 EA 500 MCM Crimp Compression Connection For Bare Aluminum Wire.....	255.63	
26 05 13 16-0227 15 KV <small>(26 05 13 16-0168)</small>		
26 05 13 16-0228 Single Conductor Pothead On Racks <small>(26 05 13 16-0227)</small>		
Note: Includes pothead.		
26 05 13 16-0229 EA #2 To 4/0 AWG, Single Conductor, 15 KV Pothead (Included), On Racks.....	1,087.47	424.13
26 05 13 16-0230 EA 250 To 500 MCM, Single Conductor, 15 KV Pothead (Included), On Racks.....	1,377.91	525.10
26 05 13 16-0231 Two Conductor Pothead On Rack <small>(26 05 13 16-0227)</small>		
Note: Includes pothead.		
26 05 13 16-0232 EA #2 To 4/0 AWG, Two Conductors, 15 KV Pothead (Included), On Racks.....	1,626.34	646.27
26 05 13 16-0233 EA 250 To 500 MCM, Two Conductors, 15 KV Pothead (Included), On Racks.....	1,943.94	767.46
26 05 13 16-0234 Three Conductor Pothead On Rack <small>(26 05 13 16-0227)</small>		
Note: Includes pothead.		
26 05 13 16-0235 EA #2 To 4/0 AWG, Three Conductors, 15 KV Pothead (Included), On Racks.....	2,089.77	838.14
26 05 13 16-0236 EA 250 To 500 MCM, Three Conductors, 15 KV Pothead (Included), On Racks.....	2,606.51	1,050.21

26 Electrical
26 05 Common Work Results for Electrical
26 05 13 Medium-Voltage Cables



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0237 Stress Relief Cone On Rack (26 05 13 16-0227)		
26 05 13 16-0238 EA #2 To 4/0 AWG Stress Relief Cone, On Rack.....	1,044.69	424.13
26 05 13 16-0239 EA 250 To 500 MCM Stress Relief Cone, On Rack.....	1,329.81	525.10
26 05 13 16-0240 Grounded, Shielded Cable Splice (26 05 13 16-0227)		
26 05 13 16-0241 EA #2 To 4/0 AWG Cable Splice, Grounded, Shielded, 15 KV.....	740.35	313.04
26 05 13 16-0242 EA 250 To 500 MCM Cable Splice, Grounded, Shielded, 15 KV.....	951.09	403.92
26 05 13 16-0243 EA 3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE 2-Way.....	3,838.21	1,110.80
26 05 13 16-0244 EA 3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE - CE 3-Way.....	4,739.51	1,211.78
26 05 13 16-0245 Cable Termination (26 05 13 16-0227)		
26 05 13 16-0246 EA #2 To 3/0 AWG Cable Termination 15 KV.....	463.85	176.72
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	106.03	
26 05 13 16-0247 EA 4/0 To 250 MCM Cable Termination 15 KV.....	589.51	227.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	136.33	
26 05 13 16-0248 EA 350 To 500 MCM Cable Termination 15 KV.....	727.31	277.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	166.62	
26 05 13 16-0249 EA #2 To 3/0 AWG Cable Elbow Termination 15 KV.....	285.26	100.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.59	
26 05 13 16-0250 Stress Cones, 5-15 KV, 4 Skirted (26 05 13 16-0227)		
26 05 13 16-0251 EA #4 To 1/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	509.13	131.28
26 05 13 16-0252 EA 2/0 To 3/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	575.78	145.08
26 05 13 16-0253 EA 4/0 To 350 MCM Stress Cones, 5-15 KV, 4 Skirted.....	671.86	158.78
26 05 13 16-0254 EA 400 To 500 MCM Stress Cones, 5-15 KV, 4 Skirted.....	845.36	182.94
26 05 13 16-0255 Stress Cones, 5-15 KV, 6 Skirted (26 05 13 16-0227)		
26 05 13 16-0256 EA #4 To 1/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	1,018.28	263.00
26 05 13 16-0257 EA 2/0 To 3/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	1,151.66	290.18
26 05 13 16-0258 EA 4/0 To 350 MCM Stress Cones, 5-15 KV, 6 Skirted.....	1,331.95	311.67
26 05 13 16-0259 EA 400 To 500 MCM Stress Cones, 5-15 KV, 6 Skirted.....	1,690.72	365.87
26 05 13 16-0260 35 KV (26 05 13 16-0168)		
26 05 13 16-0261 35 KV One Conductor Splice (26 05 13 16-0260)		
26 05 13 16-0262 EA #1 Stranded To 4/0 Stranded, 35 KV, Cable Splicing.....	1,843.05	
26 05 13 16-0263 Cable Termination (26 05 13 16-0260)		
26 05 13 16-0264 EA #2 To 3/0 AWG Cable Termination, 35 KV.....	375.75	121.28
26 05 13 16-0265 EA 3/0 AWG To 250 MCM, 35 KV, Cable Termination.....	528.89	182.98
26 05 13 16-0266 EA 350 To 500 MCM Cable Termination 35 KV.....	598.88	195.70
26 05 13 16-0267 EA #2 To 3/0 AWG Cable Elbow Termination 35 KV.....	302.48	100.98
26 05 13 16-0268 70 KV (26 05 13 16-0168)		
26 05 13 16-0269 Cable Splice (26 05 13 16-0268)		
26 05 13 16-0270 EA 350 MCM, 70 KV, Cable Splicing.....	7,047.27	
26 05 13 16-0271 EA #2 To 4/0, 70 KV, Cable Splicing.....	1,886.32	
26 05 19 Low-Voltage Electrical Power Conductors and Cables (26 05)		
26 05 19 16 Low-Voltage, Single-and Multi-Conductor Cables (26 05 19)		
26 05 19 16-0001 Cable Installation Methods (26 05 19 16)		
26 05 19 16-0002 Pull Cord (26 05 19 16-0001)		
Note: Left in conduit for others to pull cable. Not to be used when contractor has priced new wire in a conduit. Priced when owner wants a pull cord left in a conduit for owner to pull wire at a later time.		
26 05 19 16-0003 LF Pull String Installed To Remain In Place, In Existing Conduit.....	0.31	
26 05 19 16-0004 LF Pull String Installed To Remain In Place, In New Conduits.....	0.16	
26 05 19 16-0005 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In Existing Conduit.....	0.52	
26 05 19 16-0006 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In New Conduits.....	0.32	
26 05 19 16-0007 Bore Conduit Into Dirt Or Sand (26 05 19 16-0001)		
Note: For installation under roads, driveways or other structures up to 20'.		
26 05 19 16-0008 LF Bore 1" To 4" Conduit Into Dirt Or Sand.....	2.85	
26 05 19 16-0009 LF Bore 5" To 8" Conduit Into Dirt Or Sand.....	3.62	

26 Electrical

26 05 Common Work Results for Electrical

26 05 19 Low-Voltage Electrical Power Conductors and Cables



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 05 19 16-0212 FPLP Solid TFN Red Armored Cable (26 05 19 16-0152)			
Note: Color coded red.			
26 05 19 16-0213	MLF #18/2 With Bare #18 Ground Type TFN FPLP Red Armored Cable	3,091.04	767.46
26 05 19 16-0214	MLF #18/4 With Bare #18 Ground Type TFN FPLP Red Armored Cable	3,512.77	888.64
26 05 19 16-0215	MLF #18/6 With Bare #18 Ground Type TFN FPLP Red Armored Cable	4,340.77	1,009.81
26 05 19 16-0216	MLF #18/8 With Bare #18 Ground Type TFN FPLP Red Armored Cable	4,974.77	1,130.99
26 05 19 16-0217	MLF #16/2 With Bare #16 Ground Type TFN FPLP Red Armored Cable	3,520.50	888.64
26 05 19 16-0218	MLF #16/4 With Bare #16 Ground Type TFN FPLP Red Armored Cable	4,155.21	1,009.81
26 05 19 16-0219	MLF #16/6 With Bare #16 Ground Type TFN FPLP Red Armored Cable	5,197.58	1,130.99
26 05 19 16-0220	MLF #16/8 With Bare #16 Ground Type TFN FPLP Red Armored Cable	5,907.50	1,252.16
26 05 19 16-0221 FPLP Solid THHN Red Armored Cable (26 05 19 16-0152)			
Note: Color coded red.			
26 05 19 16-0222	MLF #14/2 With #14 Ground Type THHN FPLP Red Armored Cable	3,914.12	1,009.81
26 05 19 16-0223	MLF #14/4 With #14 Ground Type THHN FPLP Red Armored Cable	4,841.92	1,130.99
26 05 19 16-0224	MLF #14/6 With #14 Ground Type THHN FPLP Red Armored Cable	6,404.44	1,252.16
26 05 19 16-0225	MLF #14/8 With #14 Ground Type THHN FPLP Red Armored Cable	7,413.77	1,373.34
26 05 19 16-0226	MLF #12/2 With #12 Ground Type THHN FPLP Red Armored Cable	4,916.43	1,130.99
26 05 19 16-0227	MLF #12/4 With #12 Ground Type THHN FPLP Red Armored Cable	5,996.06	1,252.16
26 05 19 16-0228 FPLP Twisted Shielded Pair Red Armored Cable (26 05 19 16-0152)			
Note: Color coded red.			
26 05 19 16-0229	MLF #18/2 With #18 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	3,344.08	767.46
26 05 19 16-0230	MLF #18/2 With #18 Tinned Ground And #14/2 With #14 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	5,343.78	1,130.99
26 05 19 16-0231	MLF #16/2 With #16 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	4,104.60	888.64
26 05 19 16-0232	MLF #16/4 With Two #16 Tinned Grounds FPLP Twisted Shielded Pair Red Armored Cable	4,842.63	1,009.81
26 05 19 16-0233	MLF #16/2 With #16 Tinned Ground And #12/2 With #12 Ground FPLP Twisted Shielded Pair Red Armored Cable	6,711.59	1,252.16
26 05 19 16-0234	MLF #14/2 With One #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable	4,809.36	1,050.21
26 05 19 16-0235	MLF #14/4 With Two #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable	5,928.82	1,211.78
26 05 19 16-0236 Armored Cable Connectors (26 05 19 16-0152)			
26 05 19 16-0237	EA 3/4" Armored Cable Connector	6.06	2.22
	For Work In Restricted Working Space, Add	1.66	
	For Elevated Installation >10' To 15', Add	0.55	
	For Elevated Installation >15' To 20', Add	1.11	
	For Elevated Installation >20' To 25', Add	1.39	
	For Elevated Installation >25' To 30', Add	1.94	
	For Elevated Installation >30' To 35', Add	2.22	
	For Elevated Installation >35' To 40', Add	2.77	
	For Elevated Installation >40', Add	3.05	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.66	
26 05 19 16-0238	EA 1" Armored Cable Connector	8.09	2.95
	For Work In Restricted Working Space, Add	2.21	
	For Elevated Installation >10' To 15', Add	0.74	
	For Elevated Installation >15' To 20', Add	1.48	
	For Elevated Installation >20' To 25', Add	1.85	
	For Elevated Installation >25' To 30', Add	2.58	
	For Elevated Installation >30' To 35', Add	2.95	
	For Elevated Installation >35' To 40', Add	3.69	
	For Elevated Installation >40', Add	4.06	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.21	
26 05 19 16-0239	EA 1-1/4" Armored Cable Connector	10.16	3.69
	For Work In Restricted Working Space, Add	2.77	
	For Elevated Installation >10' To 15', Add	0.92	
	For Elevated Installation >15' To 20', Add	1.85	
	For Elevated Installation >20' To 25', Add	2.31	
	For Elevated Installation >25' To 30', Add	3.23	
	For Elevated Installation >30' To 35', Add	3.69	
	For Elevated Installation >35' To 40', Add	4.62	
	For Elevated Installation >40', Add	5.08	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.77	
26 05 19 16-0240 600 Volt, Feeder Wire, Single Stranded Copper (26 05 19 16-0012)			
26 05 19 16-0241	MLF #12 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	795.23	223.97
26 05 19 16-0242	MLF #10 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,008.92	263.36
26 05 19 16-0243	MLF #8 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,462.40	358.19
26 05 19 16-0244	MLF #6 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,059.92	428.76
26 05 19 16-0245	MLF #4 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,810.04	499.88
26 05 19 16-0246	MLF #2 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	4,103.19	643.97
26 05 19 16-0247	MLF #1 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	4,958.55	716.47
26 05 19 16-0248	MLF 1/0 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,774.40	807.25
26 05 19 16-0249	MLF 2/0 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	6,608.68	895.53
26 05 19 16-0250	MLF 3/0 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	7,981.20	1,005.58
26 05 19 16-0251	MLF 4/0 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	9,622.58	1,109.35
26 05 19 16-0252	MLF 250 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	11,412.25	1,219.50
26 05 19 16-0253	MLF 300 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	13,284.06	1,332.96

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0296 MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	7,258.06	764.17
26 05 19 16-0297 MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	8,722.68	859.74
26 05 19 16-0298 MLF 250 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	10,316.38	914.63
26 05 19 16-0299 MLF 300 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	11,981.58	1,035.84
26 05 19 16-0300 MLF 350 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	13,779.89	1,146.34
26 05 19 16-0301 MLF 400 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	15,511.06	1,177.71
26 05 19 16-0302 MLF 500 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	18,593.50	1,245.98
26 05 19 16-0303 MLF 600 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	23,304.96	1,466.26
26 05 19 16-0304 MLF 750 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	36,429.80	1,736.81
26 05 19 16-0305 MLF 1,000 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	43,746.71	2,096.95
26 05 19 16-0306 MLF #16 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,782.73	443.15
26 05 19 16-0307 MLF #14 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,007.67	516.39
26 05 19 16-0308 MLF #12 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,317.58	590.84
26 05 19 16-0309 MLF #10 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,901.00	663.89
26 05 19 16-0310 MLF #8 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,271.58	737.97
26 05 19 16-0311 MLF #6 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,033.32	811.03
26 05 19 16-0312 Non-Metallic Sheathed Cable (26 05 19 16-0012)		
26 05 19 16-0313 Indoor Installation (26 05 19 16-0312)		
Note: For NM, NM-B, NMC-B and NMS-B.		
26 05 19 16-0314 MLF 2 Conductors With Ground Cable, #14 AWG, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	2,012.57	700.98
For Installation In Wood Stud Wall (Includes Drilling), Add	262.86	
26 05 19 16-0315 MLF 3 Conductors With Ground Cable, #14 AWG, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	2,475.11	848.67
For Installation In Wood Stud Wall (Includes Drilling), Add	318.26	
26 05 19 16-0316 MLF 2 Conductors With Ground Cable, #12 AWG, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	2,201.66	797.01
For Installation In Wood Stud Wall (Includes Drilling), Add	283.66	
26 05 19 16-0317 MLF 3 Conductors With Ground Cable, #12 AWG, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	2,732.07	885.38
For Installation In Wood Stud Wall (Includes Drilling), Add	332.03	
26 05 19 16-0318 MLF 2 Conductors With Ground Cable, #10 AWG, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	2,769.20	885.84
For Installation In Wood Stud Wall (Includes Drilling), Add	332.20	
26 05 19 16-0319 MLF 3 Conductors With Ground Cable, #10 AWG, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	3,387.49	1,033.35
For Installation In Wood Stud Wall (Includes Drilling), Add	387.50	
26 05 19 16-0320 MLF 2 Conductors With Ground Cable, #8 AWG, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	3,509.84	1,060.83
For Installation In Wood Stud Wall (Includes Drilling), Add	377.75	
26 05 19 16-0321 MLF 3 Conductors With Ground Cable, #8 AWG, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	4,540.78	1,282.23
For Installation In Wood Stud Wall (Includes Drilling), Add	456.62	
26 05 19 16-0322 MLF 2 Conductors With Ground Cable, #6 AWG, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	4,211.38	1,208.43
For Installation In Wood Stud Wall (Includes Drilling), Add	428.95	
26 05 19 16-0323 MLF 3 Conductors With Ground Cable, #6 AWG, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	5,413.24	1,457.49
For Installation In Wood Stud Wall (Includes Drilling), Add	518.89	
26 05 19 16-0324 MLF 3 Conductors With Ground Cable, #4 AWG, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	6,973.93	1,605.09
For Installation In Wood Stud Wall (Includes Drilling), Add	570.77	
26 05 19 16-0325 MLF 3 Conductors With Ground Cable, #3 AWG, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	9,626.62	1,743.46
For Installation In Wood Stud Wall (Includes Drilling), Add	622.66	
26 05 19 16-0326 Direct Burial Cable (26 05 19 16-0312)		
Note: Excludes trench and backfill. For NM, NM-B, NMC-B and NMS-B. Copper.		
26 05 19 16-0327 MLF 2 Conductors With Ground Cable, #14 AWG, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	2,553.12	
26 05 19 16-0328 MLF 3 Conductors With Ground Cable, #14 AWG, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,278.82	
26 05 19 16-0329 MLF 2 Conductors With Ground Cable, #12 AWG, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,302.20	
26 05 19 16-0330 MLF 3 Conductors With Ground Cable, #12 AWG, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,987.58	
26 05 19 16-0331 MLF 2 Conductors With Ground Cable, #10 AWG, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,940.42	
26 05 19 16-0332 MLF 3 Conductors With Ground Cable, #10 AWG, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	5,005.56	
26 05 19 16-0333 MLF 2 Conductors With Ground Cable, #8 AWG, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	5,780.93	
26 05 19 16-0334 MLF 3 Conductors With Ground Cable, #8 AWG, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	7,492.44	
26 05 19 16-0335 MLF 2 Conductors With Ground Cable, #6 AWG, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	7,813.54	
26 05 19 16-0336 MLF 3 Conductors With Ground Cable, #6 AWG, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	9,358.61	
26 05 19 16-0337 SEU Cable Copper, 3 Conductor (26 05 19 16-0312)		
26 05 19 16-0338 MLF 12-12-12 Cable SEU Copper	3,159.28	888.94
26 05 19 16-0339 MLF 10-10-10 Cable SEU Copper	4,199.53	1,009.81
26 05 19 16-0340 MLF 8-8-8 Cable SEU Copper	5,504.35	1,130.79
26 05 19 16-0341 MLF 6-6-8 Cable SEU Copper	6,988.28	1,212.28
26 05 19 16-0342 MLF 6-6-6 Cable SEU Copper	7,631.30	1,252.87
26 05 19 16-0343 MLF 4-4-6 Cable SEU Copper	9,644.34	1,373.85
26 05 19 16-0344 MLF 4-4-4 Cable SEU Copper	10,539.18	1,414.34
26 05 19 16-0345 MLF 3-3-5 Cable SEU Copper	12,521.26	1,534.71
26 05 19 16-0346 MLF 3-3-3 Cable SEU Copper	13,331.86	1,615.70
26 05 19 16-0347 MLF 2-2-4 Cable SEU Copper	14,306.51	1,697.19



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0348	MLF		2-2-2 Cable SEU Copper	15,377.70	1,777.88
26 05 19 16-0349	MLF		1-1-1 Cable SEU Copper	19,173.84	2,019.62
26 05 19 16-0350	MLF		1/0-1/0-1/0 Cable SEU Copper	23,130.91	2,264.20
26 05 19 16-0351	MLF		2/0-2/0-2/0 Cable SEU Copper	28,250.16	2,550.08
26 05 19 16-0352	MLF		3/0-3/0-3/0 Cable SEU Copper	34,508.10	2,836.56
26 05 19 16-0353	MLF		4/0-4/0-4/0 Cable SEU Copper	38,574.66	3,165.56
26 05 19 16-0354			SER Cable Copper, 4 Conductor <small>(26 05 19 16-0312)</small>		
26 05 19 16-0355	MLF		6-6-6-6 Cable SER Copper	12,166.41	1,455.04
26 05 19 16-0356	MLF		4-4-4-6 Cable SER Copper	16,230.68	1,575.41
26 05 19 16-0357	MLF		3-3-3-5 Cable SER Copper	19,186.12	1,777.88
26 05 19 16-0358	MLF		2-2-2-4 Cable SER Copper	22,643.38	1,938.23
26 05 19 16-0359	MLF		1-1-1-3 Cable SER Copper	27,834.44	2,219.36
26 05 19 16-0360	MLF		1/0-1/0-1/0-2 Cable SER Copper	35,911.26	2,543.61
26 05 19 16-0361	MLF		2/0-2/0-2/0-1 Cable SER Copper	43,421.08	2,744.06
26 05 19 16-0362	MLF		3/0-3/0-3/0-1/0 Cable SER Copper	52,808.46	3,069.32
26 05 19 16-0363			Control Tray Cable, Low Voltage <small>(26 05 19 16-0011)</small>		
Note: Type "TC" multi-conductor (individually numbered conductors) control cables installed in conduit.					
26 05 19 16-0364	MLF		2 Conductor #18 AWG, Stranded, Type TC Control Cable	944.52	447.48
			<i>For Work In Restricted Working Space, Add</i>	223.74	
26 05 19 16-0365	MLF		3 Conductor #18 AWG, Stranded, Type TC Control Cable	1,089.75	500.57
			<i>For Work In Restricted Working Space, Add</i>	250.28	
26 05 19 16-0366	MLF		4 Conductor #18 AWG, Stranded, Type TC Control Cable	1,141.80	500.53
			<i>For Work In Restricted Working Space, Add</i>	250.28	
26 05 19 16-0367	MLF		5 Conductor #18 AWG, Stranded, Type TC Control Cable	1,429.58	627.81
			<i>For Work In Restricted Working Space, Add</i>	313.91	
26 05 19 16-0368	MLF		7 Conductor #18 AWG, Stranded, Type TC Control Cable	1,800.24	765.04
			<i>For Work In Restricted Working Space, Add</i>	382.52	
26 05 19 16-0369	MLF		9 Conductor #18 AWG, Stranded, Type TC Control Cable	2,055.05	841.28
			<i>For Work In Restricted Working Space, Add</i>	420.64	
26 05 19 16-0370	MLF		12 Conductor #18 AWG, Stranded, Type TC Control Cable	2,444.81	955.91
			<i>For Work In Restricted Working Space, Add</i>	477.96	
26 05 19 16-0371	MLF		15 Conductor #18 AWG, Stranded, Type TC Control Cable	3,092.28	1,168.39
			<i>For Work In Restricted Working Space, Add</i>	584.20	
26 05 19 16-0372	MLF		19 Conductor #18 AWG, Stranded, Type TC Control Cable	3,534.34	1,274.67
			<i>For Work In Restricted Working Space, Add</i>	637.33	
26 05 19 16-0373	MLF		25 Conductor #18 AWG, Stranded, Type TC Control Cable	4,187.43	1,314.52
			<i>For Work In Restricted Working Space, Add</i>	657.26	
26 05 19 16-0374	MLF		30 Conductor #18 AWG, Stranded, Type TC Control Cable	5,135.67	1,642.18
			<i>For Work In Restricted Working Space, Add</i>	821.09	
26 05 19 16-0375	MLF		37 Conductor #18 AWG, Stranded, Type TC Control Cable	6,160.38	1,919.19
			<i>For Work In Restricted Working Space, Add</i>	959.60	
26 05 19 16-0376	MLF		2 Conductor #16 AWG, Stranded, Type TC Control Cable	1,033.40	471.38
			<i>For Work In Restricted Working Space, Add</i>	235.50	
26 05 19 16-0377	MLF		3 Conductor #16 AWG, Stranded, Type TC Control Cable	1,197.55	526.92
			<i>For Work In Restricted Working Space, Add</i>	263.46	
26 05 19 16-0378	MLF		4 Conductor #16 AWG, Stranded, Type TC Control Cable	1,395.43	606.61
			<i>For Work In Restricted Working Space, Add</i>	303.31	
26 05 19 16-0379	MLF		5 Conductor #16 AWG, Stranded, Type TC Control Cable	1,580.46	660.85
			<i>For Work In Restricted Working Space, Add</i>	330.43	
26 05 19 16-0380	MLF		7 Conductor #16 AWG, Stranded, Type TC Control Cable	1,998.64	805.32
			<i>For Work In Restricted Working Space, Add</i>	402.66	
26 05 19 16-0381	MLF		9 Conductor #16 AWG, Stranded, Type TC Control Cable	2,292.07	885.57
			<i>For Work In Restricted Working Space, Add</i>	442.78	
26 05 19 16-0382	MLF		12 Conductor #16 AWG, Stranded, Type TC Control Cable	2,741.56	1,006.23
			<i>For Work In Restricted Working Space, Add</i>	503.11	
26 05 19 16-0383	MLF		15 Conductor #16 AWG, Stranded, Type TC Control Cable	3,480.91	1,229.83
			<i>For Work In Restricted Working Space, Add</i>	614.92	
26 05 19 16-0384	MLF		19 Conductor #16 AWG, Stranded, Type TC Control Cable	3,998.43	1,341.63
			<i>For Work In Restricted Working Space, Add</i>	670.82	
26 05 19 16-0385	MLF		25 Conductor #16 AWG, Stranded, Type TC Control Cable	4,801.87	1,383.70
			<i>For Work In Restricted Working Space, Add</i>	691.85	
26 05 19 16-0386	MLF		30 Conductor #16 AWG, Stranded, Type TC Control Cable	5,879.26	1,728.52
			<i>For Work In Restricted Working Space, Add</i>	864.26	
26 05 19 16-0387	MLF		37 Conductor #16 AWG, Stranded, Type TC Control Cable	7,069.15	2,020.20
			<i>For Work In Restricted Working Space, Add</i>	1,010.10	
26 05 19 16-0388	MLF		2 Conductor #14 AWG, Stranded, Type TC Control Cable	1,121.68	492.04
			<i>For Work In Restricted Working Space, Add</i>	246.02	
26 05 19 16-0389	MLF		3 Conductor #14 AWG, Stranded, Type TC Control Cable	1,342.35	553.48
			<i>For Work In Restricted Working Space, Add</i>	276.74	
26 05 19 16-0390	MLF		4 Conductor #14 AWG, Stranded, Type TC Control Cable	1,574.80	632.63
			<i>For Work In Restricted Working Space, Add</i>	316.31	
26 05 19 16-0391	MLF		5 Conductor #14 AWG, Stranded, Type TC Control Cable	1,774.26	681.34
			<i>For Work In Restricted Working Space, Add</i>	340.67	
26 05 19 16-0392	MLF		7 Conductor #14 AWG, Stranded, Type TC Control Cable	2,367.81	835.20
			<i>For Work In Restricted Working Space, Add</i>	417.60	
26 05 19 16-0393	MLF		9 Conductor #14 AWG, Stranded, Type TC Control Cable	2,732.38	922.46
			<i>For Work In Restricted Working Space, Add</i>	461.33	
26 05 19 16-0394	MLF		12 Conductor #14 AWG, Stranded, Type TC Control Cable	3,359.87	1,029.47
			<i>For Work In Restricted Working Space, Add</i>	514.73	

26 Electrical

26 05 Common Work Results for Electrical

26 05 19 Low-Voltage Electrical Power Conductors and Cables



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0395 MLF 15 Conductor #14 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	4,013.17 614.92	1,229.65
26 05 19 16-0396 MLF 19 Conductor #14 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	6,828.21 714.26	1,428.90
26 05 19 16-0397 MLF 25 Conductor #14 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	6,025.79 835.48	1,670.58
26 05 19 16-0398 MLF 30 Conductor #14 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	7,009.40 933.44	1,866.88
26 05 19 16-0399 MLF 37 Conductor #14 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	8,449.17 1,090.91	2,181.81
26 05 19 16-0400 MLF 2 Conductor #12 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	1,309.91 263.46	526.92
26 05 19 16-0401 MLF 3 Conductor #12 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	1,568.66 291.41	583.00
26 05 19 16-0402 MLF 4 Conductor #12 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	1,910.51 335.41	670.82
26 05 19 16-0403 MLF 5 Conductor #12 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	2,165.79 356.99	713.99
26 05 19 16-0404 MLF 7 Conductor #12 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	2,861.78 425.63	851.26
26 05 19 16-0405 MLF 9 Conductor #12 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	3,534.04 503.11	1,006.23
26 05 19 16-0406 MLF 12 Conductor #12 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	4,304.89 567.59	1,135.18
26 05 19 16-0407 MLF 15 Conductor #12 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	5,127.56 651.17	1,302.34
26 05 19 16-0408 MLF 19 Conductor #12 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	6,067.75 738.06	1,476.13
26 05 19 16-0409 MLF 25 Conductor #12 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	7,783.95 862.60	1,725.20
26 05 19 16-0410 MLF 30 Conductor #12 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	9,012.52 1,008.16	2,016.33
26 05 19 16-0411 MLF 37 Conductor #12 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	10,906.43 1,178.36	2,356.71
26 05 19 16-0412 MLF 2 Conductor #10 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	1,567.09 276.74	553.48
26 05 19 16-0413 MLF 3 Conductor #10 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	1,963.17 303.31	606.98
26 05 19 16-0414 MLF 4 Conductor #10 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	2,395.03 345.93	691.85
26 05 19 16-0415 MLF 5 Conductor #10 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	2,788.50 375.26	750.52
26 05 19 16-0416 MLF 7 Conductor #10 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	3,781.88 471.01	942.02
26 05 19 16-0417 MLF 9 Conductor #10 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	4,489.57 527.19	1,054.37
26 05 19 16-0418 MLF 12 Conductor #10 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	5,231.45 614.92	1,229.83
26 05 19 16-0419 MLF 15 Conductor #10 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	6,188.09 703.20	1,406.39
26 05 19 16-0420 MLF 19 Conductor #10 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	7,346.50 797.01	1,594.02
26 05 19 16-0421 MLF 25 Conductor #10 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	9,486.23 931.51	1,863.01
26 05 19 16-0422 MLF 30 Conductor #10 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	10,976.54 1,088.69	2,177.39
26 05 19 16-0423 MLF 37 Conductor #10 AWG, Stranded, Type TC Control Cable <i>For Work In Restricted Working Space, Add</i>	13,314.56 1,272.72	2,545.45
26 05 19 16-0424 ACSR (Aluminum Conductor Steel Reinforced) <small>(26 05 19 16-0011)</small> Note: Concentric lay stranded Class A galvanizing installed on poles, aerially.		
26 05 19 16-0425 ACSR Cable <small>(26 05 19 16-0424)</small>		
26 05 19 16-0426 MLF #4 AWG, ACSR Cable Swan 6/1, Aluminum Cable, Installed On Poles (Aerial)	1,340.11	469.52
26 05 19 16-0427 MLF #4 AWG, ACSR Cable Swanate 7/1, Aluminum Cable, Installed On Poles (Aerial)	1,408.08	487.53
26 05 19 16-0428 MLF #2 AWG, ACSR Cable Sparrow 6/1, Aluminum Cable, Installed On Poles (Aerial)	1,492.54	506.30
26 05 19 16-0429 MLF #2 AWG, ACSR Cable Sparate 7/1, Aluminum Cable, Installed On Poles (Aerial)	1,561.08	524.64
26 05 19 16-0430 MLF 1/0 AWG, ACSR Cable Raven 6/1, Aluminum Cable, Installed On Poles (Aerial)	1,680.28	542.43
26 05 19 16-0431 MLF 2/0 AWG, ACSR Cable Quail 6/1, Aluminum Cable, Installed On Poles (Aerial)	1,933.84	614.90
26 05 19 16-0432 MLF 3/0 AWG, ACSR Cable Pigeon 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,201.01	685.74
26 05 19 16-0433 MLF 4/0 AWG, ACSR Cable Penguin 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,487.94	757.56
26 05 19 16-0434 MLF 336 AWG ACSR Cable Merlin 18/1, Aluminum Cable, Installed On Poles (Aerial)	3,035.01	973.55
26 05 19 16-0435 MLF 477 AWG, ACSR Cable Hawk 26/1, Aluminum Cable, Installed On Poles (Aerial)	3,465.29	1,116.75
26 05 19 16-0436 All Aluminum Conductors <small>(26 05 19 16-0424)</small>		
26 05 19 16-0437 MLF 795.0 ACSR Conductor Aluminum	25,622.53	9,255.42
26 05 19 16-0438 Single Conductor Installed On Poles <small>(26 05 19 16-0011)</small>		
26 05 19 16-0439 Bare Stranded Conductor <small>(26 05 19 16-0438)</small>		
26 05 19 16-0440 MLF #12 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	1,228.99	397.81



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0441 MLF #10 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	1,460.56	433.62
26 05 19 16-0442 MLF #8 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	1,693.28	469.85
26 05 19 16-0443 MLF #6 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	2,118.43	506.30
26 05 19 16-0444 MLF #4 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	2,621.85	542.86
26 05 19 16-0445 MLF #2 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	3,835.19	651.13
26 05 19 16-0446 MLF #1 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	4,423.10	723.28
26 05 19 16-0447 MLF 1/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	5,067.27	794.12
26 05 19 16-0448 MLF 2/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	6,873.86	941.88
26 05 19 16-0449 MLF 3/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	8,379.45	1,082.91
26 05 19 16-0450 MLF 4/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	8,952.70	1,227.30
26 05 19 16-0451 MLF 250 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	11,400.23	1,446.44
26 05 19 16-0452 MLF 300 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	11,634.44	1,522.60
26 05 19 16-0453 MLF 350 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	14,719.99	1,594.52
26 05 19 16-0454 MLF 400 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	16,331.80	1,659.95
26 05 19 16-0455 MLF 500 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	19,169.13	1,730.78
26 05 19 16-0456 Insulated Stranded Conductor (26 05 19 16-0438)		
26 05 19 16-0457 MLF #12 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	1,349.24	397.81
26 05 19 16-0458 MLF #10 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	1,615.72	433.62
26 05 19 16-0459 MLF #8 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	1,999.59	469.85
26 05 19 16-0460 MLF #6 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,176.41	506.30
26 05 19 16-0461 MLF #4 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,710.31	542.86
26 05 19 16-0462 MLF #2 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	3,707.45	651.13
26 05 19 16-0463 MLF #1 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	4,410.35	723.28
26 05 19 16-0464 MLF 1/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	5,245.14	794.12
26 05 19 16-0465 MLF 2/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	6,327.65	941.88
26 05 19 16-0466 MLF 3/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	7,618.08	1,082.91
26 05 19 16-0467 MLF 4/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	9,012.10	1,227.30
26 05 19 16-0468 MLF 250 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	11,036.82	1,446.44
26 05 19 16-0469 MLF 300 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	12,596.38	1,522.60
26 05 19 16-0470 MLF 350 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	13,861.90	1,594.52
26 05 19 16-0471 MLF 400 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	15,620.33	1,659.95
26 05 19 16-0472 MLF 500 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	17,655.85	1,730.78
26 05 19 16-0473 Bare Solid Conductor (26 05 19 16-0438)		
26 05 19 16-0474 MLF #12 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	1,228.99	397.81
26 05 19 16-0475 MLF #8 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	1,693.28	469.85
26 05 19 16-0476 MLF #6 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	2,118.43	506.30
26 05 19 16-0477 MLF #4 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	2,585.30	542.86
26 05 19 16-0478 Multi-Conductor Cords, Cables And Associated Equipment (26 05 19 16-0011)		
26 05 19 16-0479 Multi-Conductor Cords (26 05 19 16-0478)		
Note: Includes installation in cable tray, surface mounting or installation between junction boxes. Excludes strain relief devices, plugs and connector bodies.		
26 05 19 16-0480 Multi-Conductor Type SOOW And SJOOW Cord (26 05 19 16-0479)		
Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
26 05 19 16-0481 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0480)		
26 05 19 16-0482 #18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0481)		
26 05 19 16-0483 LF 2 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.16	0.40
26 05 19 16-0484 LF 3 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.22	0.40
26 05 19 16-0485 LF 4 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.41	0.40
26 05 19 16-0486 #16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0481)		
26 05 19 16-0487 LF 2 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.34	0.40
26 05 19 16-0488 LF 3 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.46	0.40
26 05 19 16-0489 LF 4 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.63	0.40
26 05 19 16-0490 #14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0481)		
26 05 19 16-0491 LF 2 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.56	0.40
26 05 19 16-0492 LF 3 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.75	0.40
26 05 19 16-0493 LF 4 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.10	0.40
26 05 19 16-0494 #12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0481)		
26 05 19 16-0495 LF 2 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.87	0.40
26 05 19 16-0496 LF 3 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.09	0.40
26 05 19 16-0497 LF 4 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.40	0.40
26 05 19 16-0498 #10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0481)		

26 Electrical

26 05 Common Work Results for Electrical

26 05 19 Low-Voltage Electrical Power Conductors and Cables



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0499	LF		2 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	2.52	0.50
26 05 19 16-0500	LF		3 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	2.67	0.50
26 05 19 16-0501	LF		4 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	2.90	0.50
26 05 19 16-0502			600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0480)</small>		
26 05 19 16-0503			#18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0502)</small>		
26 05 19 16-0504	LF		2 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.22	0.40
26 05 19 16-0505	LF		3 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.35	0.40
26 05 19 16-0506	LF		4 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.53	0.40
26 05 19 16-0507	LF		5 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	2.83	0.54
26 05 19 16-0508	LF		6 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.11	0.56
26 05 19 16-0509	LF		7 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.33	0.57
26 05 19 16-0510	LF		8 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.68	0.59
26 05 19 16-0511	LF		10 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.28	0.62
26 05 19 16-0512	LF		12 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.95	0.63
26 05 19 16-0513	LF		14 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.68	0.65
26 05 19 16-0514	LF		16 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.80	0.66
26 05 19 16-0515	LF		18 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.99	0.68
26 05 19 16-0516	LF		20 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	7.83	0.69
26 05 19 16-0517	LF		24 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	10.01	0.71
26 05 19 16-0518	LF		30 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	10.43	0.76
26 05 19 16-0519			#16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0502)</small>		
26 05 19 16-0520	LF		2 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.46	0.40
26 05 19 16-0521	LF		3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.57	0.40
26 05 19 16-0522	LF		4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.80	0.40
26 05 19 16-0523	LF		5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	2.98	0.54
26 05 19 16-0524	LF		6 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.31	0.56
26 05 19 16-0525	LF		7 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.65	0.57
26 05 19 16-0526	LF		8 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.08	0.59
26 05 19 16-0527	LF		9 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.25	0.60
26 05 19 16-0528	LF		10 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.76	0.62
26 05 19 16-0529	LF		12 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.64	0.63
26 05 19 16-0530	LF		14 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.08	0.65
26 05 19 16-0531	LF		16 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.93	0.66
26 05 19 16-0532	LF		18 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.07	0.68
26 05 19 16-0533	LF		20 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	9.12	0.69
26 05 19 16-0534	LF		24 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	11.12	0.71
26 05 19 16-0535	LF		26 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	12.28	0.73
26 05 19 16-0536	LF		30 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	14.38	0.76
26 05 19 16-0537			#14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0502)</small>		
26 05 19 16-0538	LF		2 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.78	0.40
26 05 19 16-0539	LF		3 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.91	0.40
26 05 19 16-0540	LF		4 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	2.23	0.40
26 05 19 16-0541	LF		5 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.00	0.54
26 05 19 16-0542	LF		6 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.86	0.56
26 05 19 16-0543	LF		7 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.15	0.57
26 05 19 16-0544	LF		8 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.85	0.59
26 05 19 16-0545	LF		9 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.32	0.60
26 05 19 16-0546	LF		10 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	7.09	0.62
26 05 19 16-0547	LF		12 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	7.85	0.63
26 05 19 16-0548	LF		14 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.70	0.65
26 05 19 16-0549	LF		16 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	10.57	0.66
26 05 19 16-0550	LF		20 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	11.90	0.69



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0551 LF 24 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	14.12	0.71
26 05 19 16-0552 LF 30 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	16.78	0.76
26 05 19 16-0553 #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0502)</small>		
26 05 19 16-0554 LF 2 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.10	0.40
26 05 19 16-0555 LF 3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.35	0.40
26 05 19 16-0556 LF 4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.60	0.40
26 05 19 16-0557 LF 5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.64	0.54
26 05 19 16-0558 LF 6 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.44	0.56
26 05 19 16-0559 LF 7 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.26	0.57
26 05 19 16-0560 LF 8 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.15	0.59
26 05 19 16-0561 LF 9 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.78	0.60
26 05 19 16-0562 LF 10 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.87	0.62
26 05 19 16-0563 LF 12 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.16	0.63
26 05 19 16-0564 LF 14 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	11.35	0.65
26 05 19 16-0565 LF 16 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.55	0.66
26 05 19 16-0566 LF 18 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	13.11	0.68
26 05 19 16-0567 LF 20 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	15.19	0.69
26 05 19 16-0568 LF 24 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	17.32	0.71
26 05 19 16-0569 LF 26 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	19.47	0.73
26 05 19 16-0570 LF 28 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	20.14	0.74
26 05 19 16-0571 LF 30 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	20.89	0.76
26 05 19 16-0572 #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0502)</small>		
26 05 19 16-0573 LF 2 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.45	0.50
26 05 19 16-0574 LF 3 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.66	0.50
26 05 19 16-0575 LF 4 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.89	0.50
26 05 19 16-0576 LF 5 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.96	0.54
26 05 19 16-0577 LF 6 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.76	0.56
26 05 19 16-0578 LF 7 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.03	0.57
26 05 19 16-0579 LF 10 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.44	0.62
26 05 19 16-0580 LF 12 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.03	0.63
26 05 19 16-0581 LF 16 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	15.46	0.66
26 05 19 16-0582 LF 20 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	22.73	0.69
26 05 19 16-0583 #8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0502)</small>		
26 05 19 16-0584 LF 3 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	5.17	0.60
26 05 19 16-0585 LF 4 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	5.66	0.70
26 05 19 16-0586 LF 5 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	7.91	0.70
26 05 19 16-0587 #6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0502)</small>		
26 05 19 16-0588 LF 3 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	7.63	0.70
26 05 19 16-0589 LF 4 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	9.24	0.81
26 05 19 16-0590 LF 5 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	11.09	1.01
26 05 19 16-0591 #4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0502)</small>		
26 05 19 16-0592 LF 3 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	12.32	1.01
26 05 19 16-0593 LF 4 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	13.56	1.11
26 05 19 16-0594 LF 5 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	16.46	1.21
26 05 19 16-0595 #2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0502)</small>		
26 05 19 16-0596 LF 3 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	18.00	2.02
26 05 19 16-0597 LF 4 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	22.96	2.53
26 05 19 16-0598 LF 5 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	27.48	3.33

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0599 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0480)</small>		
26 05 19 16-0600 #18, 300 Volt, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0599)</small>		
26 05 19 16-0601 LF 2 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.63	0.40
26 05 19 16-0602 LF 3 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.83	0.40
26 05 19 16-0603 LF 4 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	2.24	0.40
26 05 19 16-0604 #16, 300 Volt, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0599)</small>		
26 05 19 16-0605 LF 2 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.76	0.40
26 05 19 16-0606 LF 3 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	2.09	0.40
26 05 19 16-0607 LF 4 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	2.24	0.40
26 05 19 16-0608 #14, 300 Volt, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0599)</small>		
26 05 19 16-0609 LF 2 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	2.58	0.40
26 05 19 16-0610 LF 3 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	3.91	0.40
26 05 19 16-0611 LF 4 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	5.08	0.50
26 05 19 16-0612 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0480)</small>		
26 05 19 16-0613 #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0612)</small>		
26 05 19 16-0614 LF 2 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	2.47	0.40
26 05 19 16-0615 LF 3 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	3.03	0.40
26 05 19 16-0616 LF 4 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	3.62	0.40
26 05 19 16-0617 #16 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0612)</small>		
26 05 19 16-0618 LF 2/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	2.67	0.40
26 05 19 16-0619 LF 3/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	3.24	0.40
26 05 19 16-0620 LF 4/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	4.15	0.40
26 05 19 16-0621 LF 5/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	4.49	0.50
26 05 19 16-0622 #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0612)</small>		
26 05 19 16-0623 LF 3 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	3.38	0.40
26 05 19 16-0624 LF 4 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	4.12	0.40
26 05 19 16-0625 LF 5 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	4.62	0.50
26 05 19 16-0626 #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0612)</small>		
26 05 19 16-0627 LF 3 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	4.08	0.40
26 05 19 16-0628 LF 4 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	4.73	0.40
26 05 19 16-0629 LF 5 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	5.29	0.50
26 05 19 16-0630 #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0612)</small>		
26 05 19 16-0631 LF 3/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	4.69	0.50
26 05 19 16-0632 LF 4/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	5.28	0.50
26 05 19 16-0633 LF 5/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	5.83	0.50
26 05 19 16-0634 Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0479)</small> Note: Includes thermoplastic elastomeric (TPE) insulation.		
26 05 19 16-0635 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0634)</small>		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0636				#16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0635)</small>		
26 05 19 16-0637	LF			3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	1.78	0.40
26 05 19 16-0638	LF			4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	2.00	0.40
26 05 19 16-0639	LF			5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	3.21	0.50
26 05 19 16-0640				#14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0635)</small>		
26 05 19 16-0641	LF			3/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	2.46	0.40
26 05 19 16-0642	LF			4/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	2.89	0.40
26 05 19 16-0643	LF			5/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	4.28	0.50
26 05 19 16-0644				#12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0635)</small>		
26 05 19 16-0645	LF			3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	3.16	0.40
26 05 19 16-0646	LF			4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	3.71	0.40
26 05 19 16-0647	LF			5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	4.74	0.50
26 05 19 16-0648				#10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0635)</small>		
26 05 19 16-0649	LF			3/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	4.07	0.50
26 05 19 16-0650	LF			4/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	4.74	0.50
26 05 19 16-0651	LF			5/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord	5.09	0.50
26 05 19 16-0652				Multi-Conductor Type W Cord <small>(26 05 19 16-0479)</small> Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
26 05 19 16-0653				2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0652)</small>		
26 05 19 16-0654				#8 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0653)</small>		
26 05 19 16-0655	LF			3/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	5.73	0.60
26 05 19 16-0656	LF			4/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	6.18	0.70
26 05 19 16-0657	LF			5/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	7.38	0.70
26 05 19 16-0658				#6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0653)</small>		
26 05 19 16-0659	LF			3 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	6.13	0.70
26 05 19 16-0660	LF			4 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	7.33	0.81
26 05 19 16-0661	LF			5/c #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	9.15	1.01
26 05 19 16-0662				#4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0653)</small>		
26 05 19 16-0663	LF			3 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	8.58	0.70
26 05 19 16-0664	LF			4 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	10.15	0.81
26 05 19 16-0665	LF			5 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron)	13.11	1.01
26 05 19 16-0666				Cord Grips, Cable Reels, Extension Cords, And Accessories <small>(26 05 19 16-0478)</small>		
26 05 19 16-0667				Cord Grips <small>(26 05 19 16-0666)</small>		
26 05 19 16-0668	EA			Cord Grip With Watertight Connector For 1/2" NPT Zinc Plated Steel	63.73	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.36	
26 05 19 16-0669	EA			Cord Grip With Watertight Connector For 3/4" NPT Zinc Plated Steel	64.01	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.36	
26 05 19 16-0670				Cable Reels <small>(26 05 19 16-0666)</small> Note: Includes handling, mounting, electrical connections and installing cord. See CSI section 26 05 19 16-0478 for cords.		
26 05 19 16-0671	EA			30', 16-3, SJO, Extension Cord Reel (Cox Reels PC10-3016-A)	691.89	50.49
26 05 19 16-0672	EA			50', 10-4, SEOW, Extension Cord Reel (Reelcraft L 7050 104 X 1)	1,961.50	50.49
26 05 19 16-0673	EA			50', 16-3, SOOW, Extension Cord Reel (KH Industries RTFD3L-WW-B16K)	1,459.64	50.49
26 05 19 16-0674				Extension Cords For Cable Reel <small>(26 05 19 16-0666)</small>		
26 05 19 16-0675	EA			100 LF, 120 Volt, 12 Gauge, 3 Wire, Extension Cord	147.06	
26 05 19 16-0676	EA			100 LF, 240 Volt, 10 Gauge, 3 Wire, Extension Cord	207.36	
26 05 19 16-0677				Plugs And Connector Bodies <small>(26 05 19 16-0666)</small> Note: Up to 277 volt		
26 05 19 16-0678				NEMA Twist-Lock Plugs <small>(26 05 19 16-0677)</small>		
26 05 19 16-0679	EA			15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7545C)	74.33	
26 05 19 16-0680	EA			15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL4770CBK)	76.16	
26 05 19 16-0681	EA			20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7102C)	68.44	
26 05 19 16-0682	EA			20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2331)	74.10	

26 Electrical

26 05 Common Work Results for Electrical

26 05 19 Low-Voltage Electrical Power Conductors and Cables



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0683 EA 20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2411)	100.61	
26 05 19 16-0684 EA 20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2441)	107.79	
26 05 19 16-0685 EA 20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2511BK).....	114.82	
26 05 19 16-0686 EA 30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2611BK).....	101.68	
26 05 19 16-0687 EA 30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2711BK).....	118.94	
26 05 19 16-0688 EA 30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2761)	122.31	
26 05 19 16-0689 EA 30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2811BK).....	126.58	
26 05 19 16-0690 NEMA Twist-Lock Connector Bodies (26 05 19 16-0677)		
26 05 19 16-0691 EA 15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7506C)	79.52	
26 05 19 16-0692 EA 15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL4779C)	86.00	
26 05 19 16-0693 EA 20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7101C)	72.34	
26 05 19 16-0694 EA 20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2323BK)	101.68	
26 05 19 16-0695 EA 20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2413BK).....	120.63	
26 05 19 16-0696 EA 20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2443).....	129.79	
26 05 19 16-0697 EA 20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2513BK).....	160.66	
26 05 19 16-0698 EA 30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2623BK)	152.87	
26 05 19 16-0699 EA 30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2713BK).....	191.52	
26 05 19 16-0700 EA 30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2753).....	201.76	
26 05 19 16-0701 EA 30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2813BK).....	190.61	
26 05 19 16-0702 Watertight Pin And Sleeve Plug (26 05 19 16-0677)		
26 05 19 16-0703 EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P4W)	203.56	30.29
26 05 19 16-0704 EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P6W)	205.64	30.29
26 05 19 16-0705 EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P7W)	221.74	30.29
26 05 19 16-0706 EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P12W)	222.95	33.33
26 05 19 16-0707 EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P9W)	219.82	33.33
26 05 19 16-0708 EA 20 Amperes, Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P7W)	220.75	33.33
26 05 19 16-0709 EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P4W)	307.99	37.26
26 05 19 16-0710 EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P6W)	300.21	37.26
26 05 19 16-0711 EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P7W)	333.62	37.26
26 05 19 16-0712 EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P12W)	328.99	40.90
26 05 19 16-0713 EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P9W)	315.49	40.90
26 05 19 16-0714 EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P7W)	324.78	40.90
26 05 19 16-0715 EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P4W)	417.85	48.47
26 05 19 16-0716 EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P6W)	425.26	48.47
26 05 19 16-0717 EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P7W)	407.70	48.47
26 05 19 16-0718 EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P12W)	463.94	53.92
26 05 19 16-0719 EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P9W)	452.42	53.92
26 05 19 16-0720 EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P7W)	457.40	53.92
26 05 19 16-0721 EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P6W)	571.76	60.59
26 05 19 16-0722 EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P7W)	600.37	60.59
26 05 19 16-0723 EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P12W)	587.47	66.65
26 05 19 16-0724 EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P9W)	577.70	66.65
26 05 19 16-0725 EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P7W)	582.98	66.65
26 05 19 16-0726 Watertight Pin And Sleeve Connector (26 05 19 16-0677)		
26 05 19 16-0727 EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C4W).....	215.49	30.29
26 05 19 16-0728 EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C6W).....	216.93	30.29
26 05 19 16-0729 EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C7W).....	254.01	30.29
26 05 19 16-0730 EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C12W).....	252.99	33.33
26 05 19 16-0731 EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C9W).....	249.23	33.33
26 05 19 16-0732 EA 20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C7W).....	252.63	33.33
26 05 19 16-0733 EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C4W).....	315.12	37.26
26 05 19 16-0734 EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C6W).....	315.04	37.26
26 05 19 16-0735 EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C7W).....	327.83	37.26
26 05 19 16-0736 EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C12W).....	325.52	40.90
26 05 19 16-0737 EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C9W).....	328.16	40.90
26 05 19 16-0738 EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C7W).....	325.38	40.90
26 05 19 16-0739 EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C4W).....	490.94	48.47
26 05 19 16-0740 EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C6W).....	475.28	48.47
26 05 19 16-0741 EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C7W).....	465.94	48.47
26 05 19 16-0742 EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C12W).....	507.44	53.92
26 05 19 16-0743 EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C9W).....	521.06	53.92
26 05 19 16-0744 EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C7W).....	522.06	53.92
26 05 19 16-0745 EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C6W).....	651.93	60.59
26 05 19 16-0746 EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C7W).....	669.89	60.59
26 05 19 16-0747 EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C12W).....	724.20	66.65
26 05 19 16-0748 EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C9W).....	699.52	66.65
26 05 19 16-0749 EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C7W).....	707.94	66.65
26 05 19 16-0750 Accessories (26 05 19 16-0666)		
26 05 19 16-0751 EA 1/2" Straight Steel Cord Connector	46.57	10.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.06	
26 05 19 16-0752 EA 1/2" Straight Nylon Cord Connector	28.34	7.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.55	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0753	EA		1/2" 90 Degree Steel Cord Connector.....	53.60	12.62
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.58	
26 05 19 16-0754	EA		1/2" 90 Degree Nylon Cord Connector.....	34.37	10.10
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.06	
26 05 19 16-0755	EA		1/2" Straight Steel Cord Connector With Strain Relief Mesh.....	52.95	12.62
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.58	
26 05 19 16-0756	EA		1/2" 90 Degree Steel Cord Connector With Strain Relief Mesh.....	89.83	15.15
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.09	
26 05 19 16-0757	EA		1/2" Straight Nylon Cord Connector With Strain Relief Mesh.....	33.86	10.10
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.06	
26 05 19 16-0758	EA		1/2" 90 Degree Nylon Cord Connector With Strain Relief Mesh.....	56.01	12.62
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.58	
26 05 19 16-0759	EA		3/4" Straight Steel Cord Connector.....	48.43	10.10
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.06	
26 05 19 16-0760	EA		3/4" Straight Nylon Cord Connector.....	29.27	7.57
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.55	
26 05 19 16-0761	EA		3/4" 90 Degree Steel Cord Connector.....	59.40	12.62
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.58	
26 05 19 16-0762	EA		3/4" 90 Degree Nylon Cord Connector.....	37.27	10.10
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.06	
26 05 19 16-0763	EA		3/4" Straight Steel Cord Connector With Strain Relief Mesh.....	59.94	15.15
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.09	
26 05 19 16-0764	EA		3/4" 90 Degree Steel Cord Connector With Strain Relief Mesh.....	71.20	17.67
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.60	
26 05 19 16-0765	EA		3/4" Straight Nylon Cord Connector With Strain Relief Mesh.....	40.87	12.62
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.58	
26 05 19 16-0766	EA		3/4" 90 Degree Nylon Cord Connector With Strain Relief Mesh.....	49.34	15.15
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.09	
26 05 19 16-0767	EA		1" Straight Steel Cord Connector.....	60.34	10.10
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.06	
26 05 19 16-0768	EA		1" Straight Nylon Cord Connector.....	35.22	7.57
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.55	
26 05 19 16-0769	EA		1" 90 Degree Steel Cord Connector.....	67.27	12.62
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.58	
26 05 19 16-0770	EA		1" 90 Degree Nylon Cord Connector.....	41.20	10.10
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.06	
26 05 19 16-0771	EA		1" Straight Steel Cord Connector With Strain Relief Mesh.....	72.45	15.15
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.09	
26 05 19 16-0772	EA		1" 90 Degree Steel Cord Connector With Strain Relief Mesh.....	79.46	17.67
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.60	
26 05 19 16-0773	EA		1" Straight Nylon Cord Connector With Strain Relief Mesh.....	47.22	12.62
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.58	
26 05 19 16-0774	EA		1" 90 Degree Nylon Cord Connector With Strain Relief Mesh.....	54.71	15.15
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.09	

26 05 23 Control-Voltage Electrical Power Cables (26 05)

26 05 23 00-0001 Cable For HVAC System Controls (26 05 23)

26 05 23 00-0002 Low Voltage Thermostat Cable To 300 Volt (26 05 23 00-0001)

Note: For surface or conduit installation.

26 05 23 00-0003	MLF	#20/2 Conductor, Low Volt Thermostat Cable.....	426.21	117.62
26 05 23 00-0004	MLF	#20/3 Conductor, Low Volt Thermostat Cable.....	493.00	123.89
26 05 23 00-0005	MLF	#20/4 Conductor, Low Volt Thermostat Cable.....	536.39	130.99
26 05 23 00-0006	MLF	#20/5 Conductor, Low Volt Thermostat Cable.....	656.21	136.53
26 05 23 00-0007	MLF	#20/6 Conductor, Low Volt Thermostat Cable.....	689.26	142.99
26 05 23 00-0008	MLF	#20/7 Conductor, Low Volt Thermostat Cable.....	762.55	148.93
26 05 23 00-0009	MLF	#20/8 Conductor, Low Volt Thermostat Cable.....	825.56	154.88
26 05 23 00-0010	MLF	#20/9 Conductor, Low Volt Thermostat Cable.....	900.75	161.06
26 05 23 00-0011	MLF	#20/10 Conductor, Low Volt Thermostat Cable.....	973.67	165.90
26 05 23 00-0012	MLF	#18/2 Conductor, Low Volt Thermostat Cable.....	469.19	117.62
26 05 23 00-0013	MLF	#18/3 Conductor, Low Volt Thermostat Cable.....	569.67	123.89
26 05 23 00-0014	MLF	#18/4 Conductor, Low Volt Thermostat Cable.....	658.03	130.99
26 05 23 00-0015	MLF	#18/5 Conductor, Low Volt Thermostat Cable.....	706.42	136.53
26 05 23 00-0016	MLF	#18/6 Conductor, Low Volt Thermostat Cable.....	790.13	142.99
26 05 23 00-0017	MLF	#18/7 Conductor, Low Volt Thermostat Cable.....	808.87	148.93
26 05 23 00-0018	MLF	#18/8 Conductor, Low Volt Thermostat Cable.....	896.24	154.88
26 05 23 00-0019	MLF	#18/9 Conductor, Low Volt Thermostat Cable.....	1,070.33	161.06
26 05 23 00-0020	MLF	#18/10 Conductor, Low Volt Thermostat Cable.....	1,182.83	165.90

26 05 26 Grounding and Bonding for Electrical Systems (26 05)

26 05 26 00-0001 Conductors, Straps And Conduit Jumpers (26 05 26)

26 05 26 00-0002 Single Conductor (26 05 26 00-0001)

26 05 26 00-0003 Copper Bare Stranded Conductors (26 05 26 00-0002)

26 05 26 00-0004	MLF	12 AWG Copper Bare Single Stranded Conductor.....	570.59	190.51
26 05 26 00-0005	MLF	10 AWG Copper Bare Single Stranded Conductor.....	780.41	190.51
26 05 26 00-0006	MLF	8 AWG Copper Bare Single Stranded Conductor.....	991.00	229.49
26 05 26 00-0007	MLF	6 AWG Copper Bare Single Stranded Conductor.....	1,415.74	229.49
26 05 26 00-0008	MLF	4 AWG Copper Bare Single Stranded Conductor.....	1,946.92	277.10

26 Electrical**26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0009 MLF 2 AWG Copper Bare Single Stranded Conductor	3,144.27	277.10
26 05 26 00-0010 MLF 1 AWG Copper Bare Single Stranded Conductor	3,660.56	333.40
26 05 26 00-0011 MLF 1/0 AWG Copper Bare Single Stranded Conductor	4,301.22	333.40
26 05 26 00-0012 MLF 2/0 AWG Copper Bare Single Stranded Conductor	6,102.11	419.99
26 05 26 00-0013 MLF 3/0 AWG Copper Bare Single Stranded Conductor	7,560.26	419.99
26 05 26 00-0014 MLF 4/0 AWG Copper Bare Single Stranded Conductor	7,972.74	558.55
26 05 26 00-0015 MLF 250 MCM Copper Bare Single Stranded Conductor	10,319.86	558.55
26 05 26 00-0016 MLF 300 MCM Copper Bare Single Stranded Conductor	10,320.74	645.15
26 05 26 00-0017 MLF 350 MCM Copper Bare Single Stranded Conductor	14,038.76	645.15
26 05 26 00-0018 MLF 500 MCM Copper Bare Single Stranded Conductor	19,247.79	796.69
26 05 26 00-0019 Copper Insulated Single Stranded Conductors (26 05 26 00-0002)		
26 05 26 00-0020 MLF 12 AWG Copper Insulated Single Stranded Conductor	1,161.76	259.79
26 05 26 00-0021 MLF 10 AWG Copper Insulated Single Stranded Conductor	1,210.88	259.79
26 05 26 00-0022 MLF 8 AWG Copper Insulated Single Stranded Conductor	1,577.64	259.79
26 05 26 00-0023 MLF 6 AWG Copper Insulated Single Stranded Conductor	1,765.33	450.30
26 05 26 00-0024 MLF 4 AWG Copper Insulated Single Stranded Conductor	2,436.84	450.30
26 05 26 00-0025 MLF 2 AWG Copper Insulated Single Stranded Conductor	3,507.15	450.30
26 05 26 00-0026 MLF 1 AWG Copper Insulated Single Stranded Conductor	4,274.01	788.03
26 05 26 00-0027 MLF 1/0 AWG Copper Insulated Single Stranded Conductor	5,249.41	788.03
26 05 26 00-0028 MLF 2/0 AWG Copper Insulated Single Stranded Conductor	6,206.79	788.03
26 05 26 00-0029 MLF 3/0 AWG Copper Insulated Single Stranded Conductor	7,458.89	788.03
26 05 26 00-0030 MLF 4/0 AWG Copper Insulated Single Stranded Conductor	8,853.95	1,030.49
26 05 26 00-0031 MLF 250 MCM Copper Insulated Single Stranded Conductor	10,790.89	1,030.49
26 05 26 00-0032 MLF 300 MCM Copper Insulated Single Stranded Conductor	12,629.26	1,030.49
26 05 26 00-0033 MLF 350 MCM Copper Insulated Single Stranded Conductor	14,647.40	1,602.04
26 05 26 00-0034 MLF 500 MCM Copper Insulated Single Stranded Conductor	19,296.14	1,602.04
26 05 26 00-0035 Copper Bare Single Solid Conductors (26 05 26 00-0002)		
26 05 26 00-0036 MLF 12 AWG Copper Bare Single Solid Conductor	570.59	190.51
26 05 26 00-0037 MLF 10 AWG Copper Bare Single Solid Conductor	780.41	190.51
26 05 26 00-0038 MLF 8 AWG Copper Bare Single Solid Conductor	991.00	229.49
26 05 26 00-0039 MLF 6 AWG Copper Bare Single Solid Conductor	1,415.74	229.49
26 05 26 00-0040 MLF 4 AWG Copper Bare Single Solid Conductor	1,946.92	277.10
26 05 26 00-0041 MLF 2 AWG Copper Bare Single Solid Conductor	3,144.27	277.10
26 05 26 00-0042 MLF 1/0 AWG Copper Bare Single Solid Conductor	4,301.22	333.40
26 05 26 00-0043 MLF 4/0 AWG Copper Bare Single Solid Conductor	7,972.74	441.64
26 05 26 00-0044 Aluminum Bare Single Stranded Conductors (26 05 26 00-0002)		
26 05 26 00-0045 MLF 8 AWG Aluminum Bare Single Stranded Conductor	544.70	229.49
26 05 26 00-0046 MLF 6 AWG Aluminum Bare Single Stranded Conductor	594.27	229.49
26 05 26 00-0047 MLF 4 AWG Aluminum Bare Single Stranded Conductor	670.79	277.10
26 05 26 00-0048 MLF 2 AWG Aluminum Bare Single Stranded Conductor	825.31	277.10
26 05 26 00-0049 MLF 1 AWG Aluminum Bare Single Stranded Conductor	938.18	333.40
26 05 26 00-0050 MLF 1/0 AWG Aluminum Bare Single Stranded Conductor	1,074.36	333.40
26 05 26 00-0051 MLF 2/0 AWG Aluminum Bare Single Stranded Conductor	1,223.28	419.99
26 05 26 00-0052 MLF 3/0 AWG Aluminum Bare Single Stranded Conductor	1,399.34	419.99
26 05 26 00-0053 MLF 4/0 AWG Aluminum Bare Single Stranded Conductor	1,668.70	558.55
26 05 26 00-0054 MLF 250 MCM Aluminum Bare Single Stranded Conductor	1,859.98	558.55
26 05 26 00-0055 MLF 300 MCM Aluminum Bare Single Stranded Conductor	2,180.43	645.15
26 05 26 00-0056 MLF 350 MCM Aluminum Bare Single Stranded Conductor	2,455.98	645.15
26 05 26 00-0057 MLF 500 MCM Aluminum Bare Single Stranded Conductor	2,897.87	796.69
26 05 26 00-0058 Aluminum Bare Single Solid Conductors (26 05 26 00-0002)		
26 05 26 00-0059 MLF 8 AWG Aluminum Bare Single Solid Conductor	544.70	229.49
26 05 26 00-0060 MLF 6 AWG Aluminum Bare Single Solid Conductor	594.27	229.49
26 05 26 00-0061 MLF 4 AWG Aluminum Bare Single Solid Conductor	670.79	277.10
26 05 26 00-0062 MLF 2 AWG Aluminum Bare Single Solid Conductor	825.31	277.10
26 05 26 00-0063 MLF 1 AWG Aluminum Bare Single Solid Conductor	903.23	441.64
26 05 26 00-0064 MLF 1/0 AWG Aluminum Bare Single Solid Conductor	1,074.36	441.64
26 05 26 00-0065 MLF 2/0 AWG Aluminum Bare Single Solid Conductor	1,136.70	419.99
26 05 26 00-0066 MLF 3/0 AWG Aluminum Bare Single Solid Conductor	1,225.02	419.99
26 05 26 00-0067 MLF 4/0 AWG Aluminum Bare Single Solid Conductor	1,668.70	558.55
26 05 26 00-0068 MLF 250 MCM Aluminum Bare Single Solid Conductor	1,859.98	558.55
26 05 26 00-0069 MLF 300 MCM Aluminum Bare Single Solid Conductor	2,180.43	645.15
26 05 26 00-0070 MLF 350 MCM Aluminum Bare Single Solid Conductor	2,455.98	645.15
26 05 26 00-0071 MLF 500 MCM Aluminum Bare Single Solid Conductor	2,897.87	796.69
26 05 26 00-0072 Aluminum Smooth Woven Conductors (26 05 26 00-0002)		
26 05 26 00-0073 LF 10 Strand x 14 AWG Smooth Weave Aluminum Conductor	2.31	0.69
26 05 26 00-0074 LF 16 Strand x 14 AWG Smooth Weave Aluminum Conductor	2.55	0.77
26 05 26 00-0075 LF 24 Strand x 14 AWG Smooth Weave Aluminum Conductor	3.03	0.88
26 05 26 00-0076 LF 26 Strand x 14 AWG Smooth Weave Aluminum Conductor	3.05	0.90
26 05 26 00-0077 LF 28 Strand x 14 AWG Smooth Weave Aluminum Conductor	3.20	0.94



	MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0078		Copper Flexible Braid Connector Jumper Strap <small>(26 05 26 00-0001)</small>		
		Note: Manufactured from flat extra flexible tinned braid. Ferrules are tin plated pure electrolytic copper with 2 holes, on each end.		
	EA	100 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	114.32	25.25
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.15	
	EA	225 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	196.23	30.29
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.18	
	EA	225 Amperes, Copper Flexible Braid Jumper Strap, 18" Length.....	250.53	30.29
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.18	
	EA	225 Amperes, Copper Flexible Braid Jumper Strap, 24" Length.....	304.10	30.29
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.18	
	EA	400 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	263.96	32.82
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.72	
	EA	400 Amperes, Copper Flexible Braid Jumper Strap, 18" Length.....	342.08	32.82
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.72	
	EA	400 Amperes, Copper Flexible Braid Jumper Strap, 24" Length.....	409.96	32.82
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.72	
	EA	600 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	342.99	41.65
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.99	
	EA	800 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	412.49	50.49
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.29	
26 05 26 00-0088		Bonding Jumper For Metallic Conduit <small>(26 05 26 00-0001)</small>		
	EA	1/2" To 1" Conductor, Bonding Jumper, Metallic Conduit.....	153.90	55.54
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.56	
	EA	1-1/4" To 2" Conductor, Bonding Jumper, Metallic Conduit.....	189.60	55.54
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.84	
	EA	2-1/2" To 4" Conductor, Bonding Jumper, Metallic Conduit.....	276.52	85.84
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.90	
	EA	5" To 6" Conductor, Bonding Jumper, Metallic Conduit.....	407.40	85.84
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56.10	
26 05 26 00-0093		Ground Rods <small>(26 05 26)</small>		
26 05 26 00-0094		Copper-Clad Ground Rods <small>(26 05 26 00-0093)</small>		
	EA	1/2" Diameter x 8' Long Copper-Clad Ground Rods.....	89.91	75.73
	EA	5/8" Diameter x 8' Long Copper-Clad Ground Rods.....	94.24	75.73
	EA	3/4" Diameter x 8' Long Copper-Clad Ground Rods.....	111.75	75.73
	EA	1/2" Diameter x 10' Long Copper-Clad Ground Rods.....	106.09	75.73
	EA	5/8" Diameter x 10' Long Copper-Clad Ground Rods.....	111.51	75.73
	EA	3/4" Diameter x 10' Long Copper-Clad Ground Rods.....	133.39	75.73
26 05 26 00-0101		Copper Grounding Shaft <small>(26 05 26 00-0093)</small>		
	EA	2-1/8" Diameter x 10' Long Copper Grounding Shaft.....	277.10	75.73
	EA	2-1/8" Diameter "L" Shaped; 3' Riser x 10' Horizontal Copper Grounding Shaft.....	344.07	75.73
	EA	2-1/8" Diameter "L" Shaped; 3' Riser x 20' Horizontal Copper Grounding Shaft.....	530.28	75.73
26 05 26 00-0105		Ground Access Wells <small>(26 05 26 00-0093)</small>		
26 05 26 00-0106		Precast Ground Access Wells <small>(26 05 26 00-0105)</small>		
	EA	8" Diameter x 24" Deep Precast Ground Access Well.....	213.11	
		Note: With cast iron grate.		
	EA	10" Diameter x 24" Deep Precast Ground Access Well.....	221.88	
		Note: With cast iron grate.		
	EA	12" Diameter x 24" Deep Precast Ground Access Well.....	615.47	
		Note: With cast iron grate.		
	EA	18" Diameter x 24" Deep Precast Ground Access Well.....	624.23	
		Note: With cast iron grate.		
26 05 26 00-0111		Polyvinyl Chloride (PVC) Ground Access Well <small>(26 05 26 00-0105)</small>		
	EA	10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well.....	427.52	
		Note: Schedule 40 with cast iron grated cover.		
	EA	12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well.....	502.15	
		Note: Schedule 40 with cast iron grated cover.		
	EA	18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well.....	930.91	
		Note: Schedule 40 with cast iron grated cover.		
	EA	10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well.....	408.72	
		Note: Schedule 40 with flat steel cover.		
	EA	12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well.....	479.09	
		Note: Schedule 40 with flat steel cover.		
	EA	18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well.....	892.84	
		Note: Schedule 40 with flat steel cover.		
	EA	8" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well.....	229.71	
		Note: Schedule 40 with flat steel cover.		
	EA	10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well.....	245.71	
		Note: Schedule 40 with flat steel cover.		

26 Electrical**26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0120 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover.	259.54	
26 05 26 00-0121 EA 8" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover	177.13	
26 05 26 00-0122 EA 10" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover	260.86	
26 05 26 00-0123 EA 8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with flat steel cover.	458.85	
26 05 26 00-0124 EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with flat steel cover.	608.93	
26 05 26 00-0125 EA 8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with plastic cover.	369.81	
26 05 26 00-0126 EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with plastic cover.	536.15	
26 05 26 00-0127 EA 10" Diameter x 36" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron grate, heavy duty.	566.78	
26 05 26 00-0128 EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron grate, heavy duty.	690.37	
26 05 26 00-0129 EA 12" Diameter x 12" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron grate, heavy duty.	306.49	
26 05 26 00-0130 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron grate, heavy duty.	533.95	
26 05 26 00-0131 EA 12" Diameter x 30" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron grate, heavy duty.	574.72	
26 05 26 00-0132 Polymer Concrete Ground Access Well (26 05 26 00-0105)		
26 05 26 00-0133 EA 12" x 12" x 12" Polymer Concrete Ground Access Well.....	390.32	
26 05 26 00-0134 EA 12" x 12" x 12" Heavy Duty Polymer Concrete Ground Access Well	427.32	
26 05 26 00-0135 EA 12" x 12" x 18" Polymer Concrete Ground Access Well.....	429.52	
26 05 26 00-0136 EA 12" x 12" x 18" Heavy Duty Polymer Concrete Ground Access Well	470.19	
26 05 26 00-0137 EA 12" x 12" x 24" Polymer Concrete Ground Access Well.....	470.17	
26 05 26 00-0138 EA 12" x 12" x 24" Heavy Duty Polymer Concrete Ground Access Well	514.87	
26 05 26 00-0139 EA 13" x 24" x 18" Polymer Concrete Ground Access Well.....	624.06	
26 05 26 00-0140 EA 13" x 24" x 18" Heavy Duty Polymer Concrete Ground Access Well	684.88	
26 05 26 00-0141 High Density Polyethylene (HDPE) Ground Access Well (26 05 26 00-0105)		
26 05 26 00-0142 EA 9" Diameter x 10" Deep High Density Polyethylene (HDPE) Ground Access Well Note: With cover.	147.10	
26 05 26 00-0143 EA 14" Diameter x 18" Deep High Density Polyethylene (HDPE) Ground Access Well Note: With cover.	203.75	
26 05 26 00-0144 Ground Rod Clamps And Fittings (26 05 26)		
26 05 26 00-0145 Bronze Ground Rod Clamp (26 05 26 00-0144)		
26 05 26 00-0146 EA 1/2" Bronze Ground Rod Clamp.....	21.29	11.41
26 05 26 00-0147 EA 5/8" Bronze Ground Rod Clamp.....	22.39	11.41
26 05 26 00-0148 EA 3/4" Bronze Ground Rod Clamp.....	23.94	11.41
26 05 26 00-0149 Bronze Pipe Clamps (26 05 26 00-0144)		
26 05 26 00-0150 EA 1/2" To 1" Bronze Pipe Ground Clamps	27.47	18.98
26 05 26 00-0151 EA 1-1/4" To 2" Bronze Ground Clamps For Pipe	35.21	22.72
26 05 26 00-0152 EA 2-1/2" To 3" Bronze Ground Clamps For Pipe	53.79	26.56
26 05 26 00-0153 EA 2-1/2" To 4" Bronze Ground Clamps For Pipe	65.48	34.13
26 05 26 00-0154 EA 4" To 6" Bronze Ground Clamps For Pipe	100.80	49.28
26 05 26 00-0155 Grounding Fittings (26 05 26 00-0144)		
26 05 26 00-0156 Embedded Fittings (26 05 26 00-0155)		
26 05 26 00-0157 EA Ground Insert With Two 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded.....	143.51	
26 05 26 00-0158 EA Ground Insert With Four 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded	153.41	
26 05 26 00-0159 EA Ground Insert With Four 3/8 x 16 Holes 250 To 500 MCM Cable Range, Embedded	170.99	
26 05 26 00-0160 EA #8 To 1 AWG, Copper To Aluminum, Grounding Wire Splice.....	134.83	
26 05 26 00-0161 EA 1/0 To 3/0 AWG, Copper To Aluminum, Grounding Wire Splice.....	161.52	
26 05 26 00-0162 EA 4/0 To 300 MCM, Copper To Aluminum, Grounding Wire Splice.....	189.63	
26 05 26 00-0163 EA 350 To 500 MCM, Copper To Aluminum, Grounding Wire Splice.....	214.13	
26 05 26 00-0164 Ground Rod Receptacle (26 05 26 00-0155)		
26 05 26 00-0165 EA 1/2" Ground Rod Receptacle	310.96	105.02
26 05 26 00-0166 EA 5/8" Ground Rod Receptacle	325.67	107.98
26 05 26 00-0167 EA 3/4" Ground Rod Receptacle	340.71	110.91
26 05 26 00-0168 Ground Kits For Circuit Breaker Panels (26 05 26 00-0155)		
26 05 26 00-0169 EA 14-8 AWG Copper Ground Kit.....	69.15	25.25
26 05 26 00-0170 EA 12-8 AWG Aluminum Ground Kit	65.57	25.25
26 05 26 00-0171 EA 14-4 AWG Copper Ground Kit.....	77.48	25.25
26 05 26 00-0172 EA 12-4 AWG Aluminum Ground Kit	76.12	25.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0173 Insulated Grounding Bars <small>(26 05 26 00-0144)</small>		
26 05 26 00-0174 EA 1/2" x 4" x 10" Insulated Ground Bar.....	298.02	25.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>45.44</i>	
26 05 26 00-0175 EA Insulated Ground Bar SK 9560 1/2" x 4" x 20"	314.11	25.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>45.44</i>	
26 05 26 00-0176 Ground Conductor Bonding <small>(26 05 26)</small>		
26 05 26 00-0177 Ground Conductor Bonding <small>(26 05 26 00-0176)</small>		
26 05 26 00-0178 Splice, Lug, Ground Rod, Rebar Or Structural Steel Cadweld <small>(26 05 26 00-0177)</small>		
26 05 26 00-0179 EA Up To #6 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel	114.68	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0180 EA #4 To #1 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	124.78	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0181 EA 1/0 To 4/0 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	134.88	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0182 EA 250 To 1,000 MCM AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel	195.46	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0183 Tee, Wye Or Cross Cadweld <small>(26 05 26 00-0177)</small>		
26 05 26 00-0184 EA Up To #6 AWG Cadweld Connection For Tee, Wye Or Cross.....	129.83	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0185 EA #4 To #1 AWG Cadweld Connection For Tee, Wye Or Cross	150.02	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0186 EA 1/0 To 4/0 AWG Cadweld Connection For Tee, Wye Or Cross	185.37	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0187 EA 250 To 1,000 MCM AWG Cadweld Connection For Tee, Wye Or Cross	225.75	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0188 Grounding Equipment <small>(26 05 26)</small>		
26 05 26 00-0189 Special Grounding Equipment <small>(26 05 26 00-0188)</small>		
26 05 26 00-0190 Ground Reels And Ground Bus <small>(26 05 26 00-0189)</small>		
26 05 26 00-0191 EA Ground Reel With 50' Of Galvanized Steel Cable	725.79	
26 05 26 00-0192 Copper Bars <small>(26 05 26 00-0189)</small>		
26 05 26 00-0193 LF 1/4" x 2" Copper Bar	41.45	
26 05 26 00-0194 Phenolic Insulators <small>(26 05 26 00-0189)</small>		
26 05 26 00-0195 EA 2" x 2" x 1" Long Phenolic Insulators	27.66	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>6.06</i>	
26 05 26 00-0196 Grounding Studs <small>(26 05 26 00-0189)</small>		
26 05 26 00-0197 EA Ball Grounding Stud.....	39.90	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>9.04</i>	
26 05 26 00-0198 Equipment Ground Bar Kits <small>(26 05 26 00-0189)</small>		
26 05 26 00-0199 EA Switch Rating 30 Ground Bar Kit	31.39	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>6.06</i>	
26 05 26 00-0200 EA Switch Rating 60 Ground Bar Kit	40.65	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>6.67</i>	
26 05 26 00-0201 EA Switch Rating 100 Ground Bar Kit	47.47	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>7.58</i>	
26 05 26 00-0202 EA Switch Rating 200 Ground Bar Kit.....	84.39	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>9.09</i>	
26 05 26 00-0203 Panelboard Ground Bar Kits <small>(26 05 26 00-0189)</small>		
26 05 26 00-0204 EA Panelboard Ground Bar Kit.....	125.17	7.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>7.58</i>	
26 05 26 00-0205 Circuit Breaker Ground Bar Kits <small>(26 05 26 00-0189)</small>		
26 05 26 00-0206 EA 3 Circuit, Ground Bar Kit	26.35	4.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>4.55</i>	
26 05 26 00-0207 EA 4 Circuit, Ground Bar Kit	25.83	4.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>4.55</i>	
26 05 26 00-0208 EA 7 Circuit, Ground Bar Kit	26.69	4.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>4.55</i>	
26 05 26 00-0209 EA 12 Circuit, Ground Bar Kit.....	30.26	5.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>5.15</i>	

26 Electrical

26 05 Common Work Results for Electrical

26 05 26 Grounding and Bonding for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0210 EA 20 Circuit, Ground Bar Kit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.52 5.76	5.76
26 05 26 00-0211 EA 24 Circuit, Ground Bar Kit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.09 6.36	6.36
26 05 26 00-0212 EA 30 Circuit, Ground Bar Kit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.49 7.27	7.27
26 05 26 00-0213 EA 54 Circuit, Ground Bar Kit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49.13 8.48	8.48
26 05 26 00-0214 EA 24 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.49 6.36	6.36
26 05 26 00-0215 EA 30 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.27 7.27	7.27
26 05 26 00-0216 EA 54 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68.08 8.48	8.48

26 05 29 Hangers and Supports for Electrical Systems (26 05)

26 05 29 00-0001 Metal Framing Channel And Fittings (26 05 29)		
26 05 29 00-0002 Metal Framing Channel (26 05 29 00-0001) <i>Note: Excludes fasteners and accessories.</i>		
26 05 29 00-0003 14 Gauge Metal Framing Channels (26 05 29 00-0002)		
26 05 29 00-0004 14 Gauge, Steel Unistrut Channel (26 05 29 00-0003)		
26 05 29 00-0005 EA Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	17.94	5.54
26 05 29 00-0006 EA >1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	20.19	5.54
26 05 29 00-0007 LF >2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	9.18	2.08
26 05 29 00-0008 14 Gauge, 304 Stainless Steel Unistrut Channel (26 05 29 00-0003)		
26 05 29 00-0009 EA Up To 1' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	33.46	5.54
26 05 29 00-0010 EA Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	37.23	5.54
26 05 29 00-0011 EA >1' To 2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	51.22	5.54
26 05 29 00-0012 EA >1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	58.76	5.54
26 05 29 00-0013 LF >2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	24.70	2.09
26 05 29 00-0014 LF >2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	28.47	2.09
26 05 29 00-0015 14 Gauge, 316 Stainless Steel Unistrut Channel (26 05 29 00-0003)		
26 05 29 00-0016 EA Up To 1' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel	49.73	5.54
26 05 29 00-0017 EA >1' To 2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel	83.78	5.54
26 05 29 00-0018 LF >2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel	40.97	2.09
26 05 29 00-0019 12 Gauge Metal Framing Channels (26 05 29 00-0002)		
26 05 29 00-0020 12 Gauge, Steel Unistrut Channel (26 05 29 00-0019)		
26 05 29 00-0021 EA Up To 1' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel	19.16	5.54
26 05 29 00-0022 EA Up To 1' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel	18.75	5.54
26 05 29 00-0023 EA Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel	18.48	5.54
26 05 29 00-0024 EA >1' To 2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel	22.64	5.54
26 05 29 00-0025 EA >1' To 2' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel	21.81	5.54
26 05 29 00-0026 EA >1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel	21.27	5.54
26 05 29 00-0027 LF >2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel	10.40	2.08
26 05 29 00-0028 LF >2' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel	9.99	2.08
26 05 29 00-0029 LF >2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel	9.72	2.08
26 05 29 00-0030 12 Gauge, 304 Stainless Steel Unistrut Channel (26 05 29 00-0019)		
26 05 29 00-0031 EA Up To 1' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	38.48	5.54
26 05 29 00-0032 EA Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	44.98	5.54
26 05 29 00-0033 EA >1' To 2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	61.26	5.54
26 05 29 00-0034 EA >1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	74.27	5.54
26 05 29 00-0035 LF >2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	29.72	2.08
26 05 29 00-0036 LF >2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	36.22	2.08
26 05 29 00-0037 Metal Framing Channel Fittings (26 05 29 00-0001)		
26 05 29 00-0038 Unistrut Channel Closure Strips And Caps (26 05 29 00-0037)		
26 05 29 00-0039 Steel Unistrut Channel Closure Strips And Caps (26 05 29 00-0038)		
26 05 29 00-0040 LF Steel Raceway Closure Strip, Unistrut Channel Fittings	5.19	0.50
26 05 29 00-0041 EA Steel End Cap, Unistrut Channel Fittings	11.77	5.06
26 05 29 00-0042 Stainless Steel Unistrut Channel Closure Strips And Caps (26 05 29 00-0038)		
26 05 29 00-0043 EA Stainless Steel End Cap For Unistrut Channel	19.85	5.06



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0044 Flat Splice Plate, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0045 Steel Flat Splice Plate, Unistrut Channel Fittings <small>(26 05 29 00-0044)</small>		
26 05 29 00-0046 EA 2-Hole, 3-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting	5.23	
26 05 29 00-0047 EA 3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting	5.19	
26 05 29 00-0048 EA 4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting	6.28	
26 05 29 00-0049 Stainless Steel Flat Splice Plate, Unistrut Channel Fittings <small>(26 05 29 00-0044)</small>		
26 05 29 00-0050 EA 2-Hole, 3-1/2" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting	17.84	
26 05 29 00-0051 EA 3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting	26.68	
26 05 29 00-0052 EA 4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting	34.17	
26 05 29 00-0053 90 Degree Angle, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0054 Steel 90 Degree Angle, Unistrut Channel Fittings <small>(26 05 29 00-0053)</small>		
26 05 29 00-0055 EA 2-Hole, 1-7/8" x 2", 90 Degree Angle, Steel, Unistrut Channel Fitting	5.06	
26 05 29 00-0056 EA 2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, Steel, Unistrut Channel Fitting	4.27	
26 05 29 00-0057 EA 3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, Steel, Unistrut Channel Fitting	7.23	
26 05 29 00-0058 EA 3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, Steel, Unistrut Channel Fitting	7.13	
26 05 29 00-0059 Stainless Steel 90 Degree Angle, Unistrut Channel Fittings <small>(26 05 29 00-0053)</small>		
26 05 29 00-0060 EA 2-Hole, 1-7/8" x 2", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	10.09	
26 05 29 00-0061 EA 2-Hole, 1-7/8" x 2", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting	12.68	
26 05 29 00-0062 EA 2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	10.71	
26 05 29 00-0063 EA 2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting	15.34	
26 05 29 00-0064 EA 3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	13.99	
26 05 29 00-0065 EA 3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting	26.07	
26 05 29 00-0066 EA 3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	14.73	
26 05 29 00-0067 EA 3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting	21.49	
26 05 29 00-0068 60 Degree Angle, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0069 Steel 60 Degree Angle, Unistrut Channel Fittings <small>(26 05 29 00-0068)</small>		
26 05 29 00-0070 EA 2-Hole, 1-7/8" x 3-3/8", 60 Degree Angle, Steel, Unistrut Channel Fitting	10.25	
26 05 29 00-0071 U-Connector, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0072 Steel, U-Connector, Unistrut Channel Fittings <small>(26 05 29 00-0071)</small>		
26 05 29 00-0073 EA 3-Hole, 1-5/8" x 13/16", U-Connector, Steel, Unistrut Channel Fitting	3.76	
26 05 29 00-0074 EA 5-Hole, 1-5/8" x 1-5/8", U-Connector, Steel, Unistrut Channel Fitting	4.17	
26 05 29 00-0075 Stainless Steel, U-Connector, Unistrut Channel Fittings <small>(26 05 29 00-0071)</small>		
26 05 29 00-0076 EA 5-Hole, 1-5/8" x 1-5/8", U-Connector, 304 Stainless Steel, Unistrut Channel Fitting	21.34	
26 05 29 00-0077 Z-Bracket, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0078 Steel Z-Bracket, Unistrut Channel Fittings <small>(26 05 29 00-0077)</small>		
26 05 29 00-0079 EA 3-Hole, Z-Bracket, Steel, Unistrut Channel Fitting	10.51	
26 05 29 00-0080 Stainless Steel Z-Bracket, Unistrut Channel Fittings <small>(26 05 29 00-0077)</small>		
26 05 29 00-0081 EA 3-Hole, Z-Bracket, 304 Stainless Steel, Unistrut Channel Fitting	41.78	
26 05 29 00-0082 Standard Pipe And Rigid Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0037)</small>		
Note: Includes hex screw and nut.		
26 05 29 00-0083 Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0082)</small>		
Note: Includes hex screw and nut.		
26 05 29 00-0084 EA 1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	4.19	1.52
26 05 29 00-0085 EA 3/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	4.21	1.52
26 05 29 00-0086 EA 1" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	4.30	1.52
26 05 29 00-0087 EA 1-1/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	5.45	2.02
26 05 29 00-0088 EA 1-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	5.92	2.02
26 05 29 00-0089 EA 2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	5.97	2.02
26 05 29 00-0090 EA 2-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	7.32	2.53
26 05 29 00-0091 EA 3" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	7.74	2.53
26 05 29 00-0092 EA 3-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	8.14	2.53
26 05 29 00-0093 EA 4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	8.29	2.53

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 05 29 00-0094	304 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0082)</small> Note: Includes hex screw and nut.		
26 05 29 00-0095	EA 1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	7.78	1.52
26 05 29 00-0096	EA 3/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	8.76	1.52
26 05 29 00-0097	EA 1" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	9.75	1.52
26 05 29 00-0098	EA 1-1/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	12.07	2.02
26 05 29 00-0099	EA 1-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	14.81	2.02
26 05 29 00-0100	EA 2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	15.53	2.02
26 05 29 00-0101	EA 2-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	18.59	2.53
26 05 29 00-0102	EA 3" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	21.03	2.53
26 05 29 00-0103	EA 3-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	22.08	2.53
26 05 29 00-0104	EA 4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	25.95	2.53
26 05 29 00-0105	316 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0082)</small> Note: Includes hex screw and nut.		
26 05 29 00-0106	EA 1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	8.38	1.52
26 05 29 00-0107	EA 3/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	9.77	1.52
26 05 29 00-0108	EA 1" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	10.17	1.52
26 05 29 00-0109	EA 1-1/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	12.26	2.02
26 05 29 00-0110	EA 1-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	17.05	2.02
26 05 29 00-0111	EA 2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	17.29	2.02
26 05 29 00-0112	EA 2-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	20.44	2.53
26 05 29 00-0113	EA 3" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	21.68	2.53
26 05 29 00-0114	EA 3-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	30.51	2.53
26 05 29 00-0115	EA 4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	35.91	2.53
26 05 29 00-0116	Beam Clamps, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0117	Steel Beam Clamps, Unistrut Channel Fittings <small>(26 05 29 00-0116)</small>		
26 05 29 00-0118	EA Set Screw Beam Clamp, Steel Unistrut Channel Fitting.....	30.66	9.23
26 05 29 00-0119	EA "C" Beam Clamp Use With 1/2" Rod, Steel Unistrut Channel Fittings.....	21.26	9.23
26 05 29 00-0120	EA "U" Bolt Beam Clamp, Steel Unistrut Channel Fitting.....	29.71	9.23
26 05 29 00-0121	304 Stainless Steel Beam Clamps, Unistrut Channel Fittings <small>(26 05 29 00-0116)</small>		
26 05 29 00-0122	EA "U" Bolt Beam Clamp, 304 Stainless Steel Unistrut Channel Fitting.....	47.66	9.23
26 05 29 00-0123	Square Washers For Unistrut Channel <small>(26 05 29 00-0037)</small>		
26 05 29 00-0124	Steel Square Washers For Unistrut Channel <small>(26 05 29 00-0123)</small>		
26 05 29 00-0125	EA 1/2" Bolt Size, Steel, Square Washer For Unistrut Channel.....	3.72	
26 05 29 00-0126	Stainless Steel Square Washers For Unistrut Channel <small>(26 05 29 00-0123)</small>		
26 05 29 00-0127	EA 1/2" Bolt Size, 304 Stainless Steel, Square Washer For Unistrut Channel.....	4.91	
26 05 29 00-0128	EA 1/2" Bolt Size, 316 Stainless Steel, Square Washer For Unistrut Channel.....	6.25	
26 05 29 00-0129	Strut Braces, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0130	EA 16" Diagonal Steel Bar Brace For Unistrut Channel.....	28.50	
26 05 29 00-0131	Trolley Hangers, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0132	EA Steel Trolley Track Hanger For Unistrut Channel.....	35.49	
26 05 29 00-0133	Lock Nuts With Spring For Unistrut Channel <small>(26 05 29 00-0037)</small> Note: Includes hex bolt.		
26 05 29 00-0134	Steel Lock Nuts With Spring For Unistrut Channel <small>(26 05 29 00-0133)</small> Note: Includes hex bolt.		
26 05 29 00-0135	EA 1/4-20, Steel Lock Nut With Spring For Unistrut Channel.....	6.68	
26 05 29 00-0136	EA 3/8-16, Steel Lock Nut With Spring For Unistrut Channel.....	7.25	
26 05 29 00-0137	EA 1/2-13, Steel Lock Nut With Spring For Unistrut Channel.....	7.68	
26 05 29 00-0138	EA 5/8-11, Steel Lock Nut With Spring For Unistrut Channel.....	10.00	
26 05 29 00-0139	Stainless Steel Lock Nuts With Spring For Unistrut Channel <small>(26 05 29 00-0133)</small> Note: Includes hex bolt.		
26 05 29 00-0140	EA 1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	14.19	
26 05 29 00-0141	EA 3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	15.11	
26 05 29 00-0142	EA 1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	21.42	
26 05 29 00-0143	EA 5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	36.70	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0144 Lock Nuts Without Spring For Unistrut Channel <small>(26 05 29 00-0037)</small> Note: Includes hex bolt.		
26 05 29 00-0145 Steel Lock Nuts Without Spring For Unistrut Channel <small>(26 05 29 00-0144)</small> Note: Includes hex bolt.		
26 05 29 00-0146 EA 1/4-20, Steel Lock Nut Without Spring For Unistrut Channel	6.70	
26 05 29 00-0147 EA 3/8-16, Steel Lock Nut Without Spring For Unistrut Channel	7.33	
26 05 29 00-0148 EA 1/2-13, Steel Lock Nut Without Spring For Unistrut Channel	7.71	
26 05 29 00-0149 EA 5/8-11, Steel Lock Nut Without Spring For Unistrut Channel	10.67	
26 05 29 00-0150 Stainless Steel Lock Nuts Without Spring For Unistrut Channel <small>(26 05 29 00-0144)</small> Note: Includes hex bolt.		
26 05 29 00-0151 EA 1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	10.14	
26 05 29 00-0152 EA 3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	12.25	
26 05 29 00-0153 EA 1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	13.35	
26 05 29 00-0154 EA 5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	35.75	
26 05 29 00-0155 Mounting Assemblies <small>(26 05 29)</small>		
26 05 29 00-0156 Galvanized Steel Mounting Assemblies <small>(26 05 29 00-0155)</small>		
26 05 29 00-0157 Galvanized Steel Back Plate <small>(26 05 29 00-0156)</small>		
26 05 29 00-0158 EA 1/4" x 4' x 4', Galvanized Steel Back Plate, Painted	390.10	60.59
26 05 29 00-0159 EA 3/8" x 14" x 16", Galvanized Steel Back Plate, Painted	97.39	20.19
26 05 29 00-0160 EA 3/16" x 30" x 48", Galvanized Steel Back Plate, Painted	246.42	50.49
26 05 29 00-0161 Aluminum Mounting Assemblies <small>(26 05 29 00-0155)</small>		
26 05 29 00-0162 Aluminum Back Plate <small>(26 05 29 00-0161)</small>		
26 05 29 00-0163 EA 3/16" x 2' x 2' Aluminum Back Plate	303.56	75.73
26 05 29 00-0164 EA 3/16" x 4' x 4' Aluminum Back Plate	815.42	75.73
26 05 29 00-0165 Supports <small>(26 05 29)</small>		
26 05 29 00-0166 One Hole Steel Conduit Straps <small>(26 05 29 00-0165)</small>		
26 05 29 00-0167 EA 1/2", One Hole Steel Conduit Strap	3.61	
For Work In Restricted Working Space, Add	0.97	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
For >50 To 100, Deduct	-0.17	
For >100 To 250, Deduct	-0.34	
For >250 To 500, Deduct	-0.67	
For >500, Deduct	-1.01	
26 05 29 00-0168 EA 3/4", One Hole Steel Conduit Strap	3.65	
For Work In Restricted Working Space, Add	0.97	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
For >50 To 100, Deduct	-0.17	
For >100 To 250, Deduct	-0.34	
For >250 To 500, Deduct	-0.68	
For >500, Deduct	-1.01	
26 05 29 00-0169 EA 1", One Hole Steel Conduit Strap	3.84	
For Work In Restricted Working Space, Add	0.97	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
For >50 To 100, Deduct	-0.18	
For >100 To 250, Deduct	-0.35	
For >250 To 500, Deduct	-0.69	
For >500, Deduct	-1.03	
26 05 29 00-0170 EA 1-1/4", One Hole Steel Conduit Strap	3.98	
For Work In Restricted Working Space, Add	0.97	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
For >50 To 100, Deduct	-0.18	
For >100 To 250, Deduct	-0.36	
For >250 To 500, Deduct	-0.70	
For >500, Deduct	-1.04	
26 05 29 00-0171 EA 1-1/2", One Hole Steel Conduit Strap	4.07	
For Work In Restricted Working Space, Add	0.97	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
For >50 To 100, Deduct	-0.18	
For >100 To 250, Deduct	-0.37	
For >250 To 500, Deduct	-0.71	
For >500, Deduct	-1.05	
26 05 29 00-0172 EA 2", One Hole Steel Conduit Strap	4.64	
For Work In Restricted Working Space, Add	0.97	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
For >50 To 100, Deduct	-0.20	
For >100 To 250, Deduct	-0.39	
For >250 To 500, Deduct	-0.75	
For >500, Deduct	-1.11	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0173 EA 2-1/2", One Hole Steel Conduit Strap.....	5.23	
For Work In Restricted Working Space, Add	0.97	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
For >50 To 100, Deduct	-0.21	
For >100 To 250, Deduct	-0.42	
For >250 To 500, Deduct	-0.80	
For >500, Deduct	-1.17	
26 05 29 00-0174 EA 3", One Hole Steel Conduit Strap.....	5.43	
For Work In Restricted Working Space, Add	0.97	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
For >50 To 100, Deduct	-0.22	
For >100 To 250, Deduct	-0.43	
For >250 To 500, Deduct	-0.81	
For >500, Deduct	-1.19	
26 05 29 00-0175 EA 3-1/2", One Hole Steel Conduit Strap.....	6.39	
For Work In Restricted Working Space, Add	0.97	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
For >50 To 100, Deduct	-0.24	
For >100 To 250, Deduct	-0.48	
For >250 To 500, Deduct	-0.88	
For >500, Deduct	-1.29	
26 05 29 00-0176 EA 4", One Hole Steel Conduit Strap.....	7.16	
For Work In Restricted Working Space, Add	0.97	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
For >50 To 100, Deduct	-0.26	
For >100 To 250, Deduct	-0.52	
For >250 To 500, Deduct	-0.94	
For >500, Deduct	-1.36	
26 05 29 00-0177 One Hole Iron Conduit Straps (26 05 29 00-0165)		
26 05 29 00-0178 EA 1/2", One Hole Iron Conduit Strap.....	3.70	
For Work In Restricted Working Space, Add	0.97	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
For >50 To 100, Deduct	-0.17	
For >100 To 250, Deduct	-0.35	
For >250 To 500, Deduct	-0.68	
For >500, Deduct	-1.02	
26 05 29 00-0179 EA 3/4", One Hole Iron Conduit Strap.....	3.80	
For Work In Restricted Working Space, Add	0.97	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
For >50 To 100, Deduct	-0.18	
For >100 To 250, Deduct	-0.35	
For >250 To 500, Deduct	-0.69	
For >500, Deduct	-1.03	
26 05 29 00-0180 EA 1", One Hole Iron Conduit Strap.....	3.96	
For Work In Restricted Working Space, Add	0.97	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
For >50 To 100, Deduct	-0.18	
For >100 To 250, Deduct	-0.36	
For >250 To 500, Deduct	-0.70	
For >500, Deduct	-1.04	
26 05 29 00-0181 EA 1-1/4", One Hole Iron Conduit Strap.....	4.36	
For Work In Restricted Working Space, Add	0.97	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
For >50 To 100, Deduct	-0.19	
For >100 To 250, Deduct	-0.38	
For >250 To 500, Deduct	-0.73	
For >500, Deduct	-1.08	
26 05 29 00-0182 EA 1-1/2", One Hole Iron Conduit Strap.....	4.52	
For Work In Restricted Working Space, Add	0.97	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
For >50 To 100, Deduct	-0.19	
For >100 To 250, Deduct	-0.39	
For >250 To 500, Deduct	-0.74	
For >500, Deduct	-1.10	
26 05 29 00-0183 EA 2", One Hole Iron Conduit Strap.....	5.54	
For Work In Restricted Working Space, Add	0.97	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
For >50 To 100, Deduct	-0.22	
For >100 To 250, Deduct	-0.44	
For >250 To 500, Deduct	-0.82	
For >500, Deduct	-1.20	
26 05 29 00-0184 EA 2-1/2", One Hole Iron Conduit Strap.....	7.72	
For Work In Restricted Working Space, Add	0.97	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
For >50 To 100, Deduct	-0.27	
For >100 To 250, Deduct	-0.55	
For >250 To 500, Deduct	-0.98	
For >500, Deduct	-1.42	
26 05 29 00-0185 EA 3", One Hole Iron Conduit Strap.....	9.54	
For Work In Restricted Working Space, Add	0.97	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
For >50 To 100, Deduct	-0.32	
For >100 To 250, Deduct	-0.64	
For >250 To 500, Deduct	-1.12	
For >500, Deduct	-1.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0186 EA 3-1/2", One Hole Iron Conduit Strap	12.20	
For Work In Restricted Working Space, Add	0.97	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
For >50 To 100, Deduct	-0.39	
For >100 To 250, Deduct	-0.77	
For >250 To 500, Deduct	-1.32	
For >500, Deduct	-1.87	
26 05 29 00-0187 EA 4", One Hole Iron Conduit Strap.....	22.84	
For Work In Restricted Working Space, Add	0.97	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
For >50 To 100, Deduct	-0.65	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.93	
26 05 29 00-0188 EA 5", One Hole Iron Conduit Strap.....	28.57	
For Work In Restricted Working Space, Add	0.97	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
For >50 To 100, Deduct	-0.80	
For >100 To 250, Deduct	-1.59	
For >250 To 500, Deduct	-2.55	
For >500, Deduct	-3.50	
26 05 29 00-0189 Two Hole Steel Conduit Straps (26 05 29 00-0165)		
26 05 29 00-0190 EA 1/2", Two Hole Steel Conduit Strap.....	4.18	
For Work In Restricted Working Space, Add	1.09	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.11	
For >50 To 100, Deduct	-0.20	
For >100 To 250, Deduct	-0.39	
For >250 To 500, Deduct	-0.77	
For >500, Deduct	-1.15	
26 05 29 00-0191 EA 3/4", Two Hole Steel Conduit Strap.....	4.24	
For Work In Restricted Working Space, Add	1.09	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.11	
For >50 To 100, Deduct	-0.20	
For >100 To 250, Deduct	-0.39	
For >250 To 500, Deduct	-0.77	
For >500, Deduct	-1.15	
26 05 29 00-0192 EA 1", Two Hole Steel Conduit Strap.....	4.27	
For Work In Restricted Working Space, Add	1.09	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.11	
For >50 To 100, Deduct	-0.20	
For >100 To 250, Deduct	-0.40	
For >250 To 500, Deduct	-0.78	
For >500, Deduct	-1.16	
26 05 29 00-0193 EA 1-1/4", Two Hole Steel Conduit Strap	4.32	
For Work In Restricted Working Space, Add	1.09	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.11	
For >50 To 100, Deduct	-0.20	
For >100 To 250, Deduct	-0.40	
For >250 To 500, Deduct	-0.78	
For >500, Deduct	-1.16	
26 05 29 00-0194 EA 1-1/2", Two Hole Steel Conduit Strap	4.35	
For Work In Restricted Working Space, Add	1.09	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.11	
For >50 To 100, Deduct	-0.20	
For >100 To 250, Deduct	-0.40	
For >250 To 500, Deduct	-0.78	
For >500, Deduct	-1.16	
26 05 29 00-0195 EA 2", Two Hole Steel Conduit Strap.....	4.43	
For Work In Restricted Working Space, Add	1.09	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.11	
For >50 To 100, Deduct	-0.20	
For >100 To 250, Deduct	-0.40	
For >250 To 500, Deduct	-0.79	
For >500, Deduct	-1.17	
26 05 29 00-0196 EA 2-1/2", Two Hole Steel Conduit Strap	4.87	
For Work In Restricted Working Space, Add	1.09	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.11	
For >50 To 100, Deduct	-0.21	
For >100 To 250, Deduct	-0.43	
For >250 To 500, Deduct	-0.82	
For >500, Deduct	-1.22	
26 05 29 00-0197 EA 3", Two Hole Steel Conduit Strap.....	4.96	
For Work In Restricted Working Space, Add	1.09	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.11	
For >50 To 100, Deduct	-0.22	
For >100 To 250, Deduct	-0.43	
For >250 To 500, Deduct	-0.83	
For >500, Deduct	-1.22	
26 05 29 00-0198 EA 3-1/2", Two Hole Steel Conduit Strap	5.30	
For Work In Restricted Working Space, Add	1.09	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.11	
For >50 To 100, Deduct	-0.22	
For >100 To 250, Deduct	-0.45	
For >250 To 500, Deduct	-0.85	
For >500, Deduct	-1.26	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0199 EA 4", Two Hole Steel Conduit Strap.....	5.54	
For Work In Restricted Working Space, Add	1.09	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.11	
For >50 To 100, Deduct	-0.23	
For >100 To 250, Deduct	-0.46	
For >250 To 500, Deduct	-0.87	
For >500, Deduct	-1.28	
26 05 29 00-0200 EA 5", Two Hole Steel Conduit Strap.....	5.85	
For Work In Restricted Working Space, Add	1.09	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.11	
For >50 To 100, Deduct	-0.24	
For >100 To 250, Deduct	-0.47	
For >250 To 500, Deduct	-0.89	
For >500, Deduct	-1.31	
26 05 29 00-0201 Clamp Back Spacers (26 05 29 00-0165)		
26 05 29 00-0202 EA 1/2" Conduit, Clamp Back Spacer.....	3.29	
For Work In Restricted Working Space, Add	0.76	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.73	
For >50 To 100, Deduct	-0.15	
For >100 To 250, Deduct	-0.29	
For >250 To 500, Deduct	-0.56	
For >500, Deduct	-0.84	
26 05 29 00-0203 EA 3/4" Conduit, Clamp Back Spacer.....	3.54	
For Work In Restricted Working Space, Add	0.76	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.73	
For >50 To 100, Deduct	-0.15	
For >100 To 250, Deduct	-0.30	
For >250 To 500, Deduct	-0.58	
For >500, Deduct	-0.86	
26 05 29 00-0204 EA 1" Conduit, Clamp Back Spacer.....	3.77	
For Work In Restricted Working Space, Add	0.76	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.73	
For >50 To 100, Deduct	-0.16	
For >100 To 250, Deduct	-0.32	
For >250 To 500, Deduct	-0.60	
For >500, Deduct	-0.88	
26 05 29 00-0205 EA 1-1/4" Conduit, Clamp Back Spacer.....	4.69	
For Work In Restricted Working Space, Add	0.76	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.73	
For >50 To 100, Deduct	-0.18	
For >100 To 250, Deduct	-0.36	
For >250 To 500, Deduct	-0.67	
For >500, Deduct	-0.98	
26 05 29 00-0206 EA 1-1/2" Conduit, Clamp Back Spacer.....	5.42	
For Work In Restricted Working Space, Add	0.76	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.73	
For >50 To 100, Deduct	-0.20	
For >100 To 250, Deduct	-0.40	
For >250 To 500, Deduct	-0.72	
For >500, Deduct	-1.05	
26 05 29 00-0207 EA 2" Conduit, Clamp Back Spacer.....	6.19	
For Work In Restricted Working Space, Add	0.76	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.73	
For >50 To 100, Deduct	-0.22	
For >100 To 250, Deduct	-0.44	
For >250 To 500, Deduct	-0.78	
For >500, Deduct	-1.13	
26 05 29 00-0208 EA 2-1/2" Conduit, Clamp Back Spacer.....	9.33	
For Work In Restricted Working Space, Add	0.76	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.73	
For >50 To 100, Deduct	-0.30	
For >100 To 250, Deduct	-0.59	
For >250 To 500, Deduct	-1.02	
For >500, Deduct	-1.44	
26 05 29 00-0209 EA 3" Conduit, Clamp Back Spacer.....	13.08	
For Work In Restricted Working Space, Add	0.76	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.73	
For >50 To 100, Deduct	-0.39	
For >100 To 250, Deduct	-0.78	
For >250 To 500, Deduct	-1.30	
For >500, Deduct	-1.81	
26 05 29 00-0210 EA 3-1/2" Conduit, Clamp Back Spacer.....	16.72	
For Work In Restricted Working Space, Add	0.76	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.73	
For >50 To 100, Deduct	-0.48	
For >100 To 250, Deduct	-0.96	
For >250 To 500, Deduct	-1.57	
For >500, Deduct	-2.18	
26 05 29 00-0211 EA 4" Conduit, Clamp Back Spacer.....	33.81	
For Work In Restricted Working Space, Add	0.76	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.73	
For >50 To 100, Deduct	-0.91	
For >100 To 250, Deduct	-1.82	
For >250 To 500, Deduct	-2.85	
For >500, Deduct	-3.89	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0212 EA 5" Conduit, Clamp Back Spacer.....	62.67	
<i>For Work In Restricted Working Space, Add</i>	0.76	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.73	
<i>For >50 To 100, Deduct</i>	-1.63	
<i>For >100 To 250, Deduct</i>	-3.26	
<i>For >250 To 500, Deduct</i>	-5.02	
<i>For >500, Deduct</i>	-6.77	
26 05 29 00-0213 Conduit Clips <small>(26 05 29 00-0165)</small>		
Note: Push in or clip.		
26 05 29 00-0214 EA 1/2" Conduit Clip.....	4.03	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.91	
<i>For >50 To 100, Deduct</i>	-0.18	
<i>For >100 To 250, Deduct</i>	-0.36	
<i>For >250 To 500, Deduct</i>	-0.71	
<i>For >500, Deduct</i>	-1.05	
26 05 29 00-0215 EA 3/4" Conduit Clip.....	4.03	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.91	
<i>For >50 To 100, Deduct</i>	-0.18	
<i>For >100 To 250, Deduct</i>	-0.36	
<i>For >250 To 500, Deduct</i>	-0.71	
<i>For >500, Deduct</i>	-1.05	
26 05 29 00-0216 EA 1" Conduit Clip.....	3.97	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.91	
<i>For >50 To 100, Deduct</i>	-0.18	
<i>For >100 To 250, Deduct</i>	-0.36	
<i>For >250 To 500, Deduct</i>	-0.70	
<i>For >500, Deduct</i>	-1.04	
26 05 29 00-0217 EA 1-1/4" Conduit Clip.....	4.12	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.91	
<i>For >50 To 100, Deduct</i>	-0.18	
<i>For >100 To 250, Deduct</i>	-0.37	
<i>For >250 To 500, Deduct</i>	-0.71	
<i>For >500, Deduct</i>	-1.06	
26 05 29 00-0218 Bolt And Nut Conduit Clips <small>(26 05 29 00-0165)</small>		
26 05 29 00-0219 EA 3/4" Bolt And Nut Conduit Clip (Minerallac 1B).....	5.01	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.11	
<i>For >50 To 100, Deduct</i>	-0.23	
<i>For >100 To 250, Deduct</i>	-0.45	
<i>For >250 To 500, Deduct</i>	-0.88	
<i>For >500, Deduct</i>	-1.31	
26 05 29 00-0220 EA 1" Bolt And Nut Conduit Clip (Minerallac 2B).....	5.17	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.11	
<i>For >50 To 100, Deduct</i>	-0.23	
<i>For >100 To 250, Deduct</i>	-0.46	
<i>For >250 To 500, Deduct</i>	-0.89	
<i>For >500, Deduct</i>	-1.33	
26 05 29 00-0221 EA 1-1/4" Bolt And Nut Conduit Clip (Minerallac 2-1/2B).....	5.51	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.17	
<i>For >50 To 100, Deduct</i>	-0.25	
<i>For >100 To 250, Deduct</i>	-0.49	
<i>For >250 To 500, Deduct</i>	-0.95	
<i>For >500, Deduct</i>	-1.41	
26 05 29 00-0222 EA 1-1/2" Bolt And Nut Conduit Clip (Minerallac 3B).....	5.59	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.17	
<i>For >50 To 100, Deduct</i>	-0.25	
<i>For >100 To 250, Deduct</i>	-0.49	
<i>For >250 To 500, Deduct</i>	-0.96	
<i>For >500, Deduct</i>	-1.42	
26 05 29 00-0223 EA 2" Bolt And Nut Conduit Clip (Minerallac 5B).....	6.19	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.17	
<i>For >50 To 100, Deduct</i>	-0.26	
<i>For >100 To 250, Deduct</i>	-0.52	
<i>For >250 To 500, Deduct</i>	-1.00	
<i>For >500, Deduct</i>	-1.48	
26 05 29 00-0224 EA 2-1/2" Bolt And Nut Conduit Clip (Minerallac 6B).....	6.69	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.24	
<i>For >50 To 100, Deduct</i>	-0.28	
<i>For >100 To 250, Deduct</i>	-0.56	
<i>For >250 To 500, Deduct</i>	-1.07	
<i>For >500, Deduct</i>	-1.58	
26 05 29 00-0225 EA 3" Bolt And Nut Conduit Clip (Minerallac 7B).....	7.22	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.24	
<i>For >50 To 100, Deduct</i>	-0.29	
<i>For >100 To 250, Deduct</i>	-0.59	
<i>For >250 To 500, Deduct</i>	-1.11	
<i>For >500, Deduct</i>	-1.63	
26 05 29 00-0226 EA 4" Bolt And Nut Conduit Clip (Minerallac 9B).....	12.69	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.36	
<i>For >50 To 100, Deduct</i>	-0.44	
<i>For >100 To 250, Deduct</i>	-0.89	
<i>For >250 To 500, Deduct</i>	-1.58	
<i>For >500, Deduct</i>	-2.28	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0227 Conduit Hanger From Flange, Wire Or Rod (26 05 29 00-0165) Note: Bat wing.		
26 05 29 00-0228 EA 1/2", Conduit Hanger From Flange, Wire Or Rod.....	2.93	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.71	
For >50 To 100, Deduct	-0.13	
For >100 To 250, Deduct	-0.27	
For >250 To 500, Deduct	-0.52	
For >500, Deduct	-0.78	
26 05 29 00-0229 EA 3/4", Conduit Hanger From Flange, Wire Or Rod.....	2.97	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.71	
For >50 To 100, Deduct	-0.14	
For >100 To 250, Deduct	-0.27	
For >250 To 500, Deduct	-0.53	
For >500, Deduct	-0.78	
26 05 29 00-0230 EA 1", Conduit Hanger From Flange, Wire Or Rod.....	3.09	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.71	
For >50 To 100, Deduct	-0.14	
For >100 To 250, Deduct	-0.28	
For >250 To 500, Deduct	-0.54	
For >500, Deduct	-0.80	
26 05 29 00-0231 EA 1-1/4", Conduit Hanger From Flange, Wire Or Rod.....	3.39	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.71	
For >50 To 100, Deduct	-0.15	
For >100 To 250, Deduct	-0.29	
For >250 To 500, Deduct	-0.56	
For >500, Deduct	-0.83	
26 05 29 00-0232 Beam Flange Clamps (26 05 29 00-0165) Note: For threaded rod, nut not required.		
26 05 29 00-0233 EA 1/8" To 1/4" Flange Thickness, Beam Clamp (Caddy 6TA24).....	4.20	
For >50 To 100, Deduct	-0.17	
For >100 To 250, Deduct	-0.34	
For >250 To 500, Deduct	-0.63	
For >500, Deduct	-0.93	
26 05 29 00-0234 EA 5/16" To 1/2" Flange Thickness, Beam Clamp (Caddy 6TA58).....	4.12	
For >50 To 100, Deduct	-0.17	
For >100 To 250, Deduct	-0.33	
For >250 To 500, Deduct	-0.63	
For >500, Deduct	-0.92	
26 05 29 00-0235 EA 9/16" To 3/4" Flange Thickness, Beam Clamp (Caddy 6TA912).....	4.58	
For >50 To 100, Deduct	-0.18	
For >100 To 250, Deduct	-0.36	
For >250 To 500, Deduct	-0.66	
For >500, Deduct	-0.96	
26 05 29 00-0236 T-Bar Support Clips (26 05 29 00-0165)		
26 05 29 00-0237 EA 9/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS95).....	7.07	
For >50 To 100, Deduct	-0.30	
For >100 To 250, Deduct	-0.61	
For >250 To 500, Deduct	-1.16	
For >500, Deduct	-1.72	
26 05 29 00-0238 EA 15/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS).....	6.71	
For >50 To 100, Deduct	-0.29	
For >100 To 250, Deduct	-0.59	
For >250 To 500, Deduct	-1.13	
For >500, Deduct	-1.68	
26 05 29 00-0239 EA 15/16 Grid Size, Twist On T-Bar Support Clip (Caddy 4G16).....	2.50	
For >50 To 100, Deduct	-0.09	
For >100 To 250, Deduct	-0.19	
For >250 To 500, Deduct	-0.35	
For >500, Deduct	-0.50	
26 05 29 00-0240 EA 24" Long Snap On T-Bar Electrical Box Hanger (Caddy 512).....	19.82	
For >50 To 100, Deduct	-0.55	
For >100 To 250, Deduct	-1.09	
For >250 To 500, Deduct	-1.74	
For >500, Deduct	-2.39	
26 05 29 00-0241 Switch And Outlet Box Type Supports (26 05 29 00-0165)		
26 05 29 00-0242 EA 1/4" To 3/4" Drywall Thickness, Adjustable Switch And Outlet Box Support (Caddy MFS).....	5.06	
For >50 To 100, Deduct	-0.18	
For >100 To 250, Deduct	-0.35	
For >250 To 500, Deduct	-0.63	
For >500, Deduct	-0.91	
26 05 29 00-0243 EA 1/2" Drywall Thickness, Riveted Switch And Outlet Box Support (Caddy MF500).....	4.31	
For >50 To 100, Deduct	-0.16	
For >100 To 250, Deduct	-0.32	
For >250 To 500, Deduct	-0.58	
For >500, Deduct	-0.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0244 EA Flush, Riveted Switch And Outlet Box Support (Caddy MFO)	4.95	
<i>For >50 To 100, Deduct</i>	-0.17	
<i>For >100 To 250, Deduct</i>	-0.35	
<i>For >250 To 500, Deduct</i>	-0.62	
<i>For >500, Deduct</i>	-0.90	
26 05 29 00-0245 EA Snap On, Switch And Outlet Box Support (Caddy MSF).....	3.24	
<i>For >50 To 100, Deduct</i>	-0.13	
<i>For >100 To 250, Deduct</i>	-0.26	
<i>For >250 To 500, Deduct</i>	-0.50	
<i>For >500, Deduct</i>	-0.73	
26 05 29 00-0246 EA 1/4-20 Thread Impression, Switch And Outlet Box Support (Caddy MFI)	3.38	
<i>For >50 To 100, Deduct</i>	-0.14	
<i>For >100 To 250, Deduct</i>	-0.27	
<i>For >250 To 500, Deduct</i>	-0.51	
<i>For >500, Deduct</i>	-0.74	
26 05 29 00-0247 Lighting Fixture Hanger <small>(26 05 29 00-0165)</small>		
Note: For existing or owner furnished fixtures.		
26 05 29 00-0248 EA Lay-In/Troffer, Straight Lip Type Fixture Support Clip (Caddy 515)	4.77	
<i>For >50 To 100, Deduct</i>	-0.22	
<i>For >100 To 250, Deduct</i>	-0.44	
<i>For >250 To 500, Deduct</i>	-0.86	
<i>For >500, Deduct</i>	-1.29	
26 05 29 00-0249 PR Support Bars For Recessed "High Hat" Light Fixtures (Caddy 517)	15.88	
<i>For >50 To 100, Deduct</i>	-0.50	
<i>For >100 To 250, Deduct</i>	-1.00	
<i>For >250 To 500, Deduct</i>	-1.70	
<i>For >500, Deduct</i>	-2.40	
26 05 29 00-0250 PR Support Bars For Recessed "Lightolier" Light Fixtures (Caddy 520).....	21.72	
<i>For >50 To 100, Deduct</i>	-0.64	
<i>For >100 To 250, Deduct</i>	-1.29	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-2.98	
26 05 29 00-0251 Rigid Steel Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0165)</small>		
26 05 29 00-0252 EA 1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	4.19	
<i>For >50 To 100, Deduct</i>	-0.18	
<i>For >100 To 250, Deduct</i>	-0.36	
<i>For >250 To 500, Deduct</i>	-0.69	
<i>For >500, Deduct</i>	-1.03	
<i>For Work In Restricted Working Space, Add</i>	0.91	
26 05 29 00-0253 EA 3/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	4.21	
<i>For >50 To 100, Deduct</i>	-0.18	
<i>For >100 To 250, Deduct</i>	-0.36	
<i>For >250 To 500, Deduct</i>	-0.69	
<i>For >500, Deduct</i>	-1.03	
<i>For Work In Restricted Working Space, Add</i>	0.91	
26 05 29 00-0254 EA 1" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	4.30	
<i>For >50 To 100, Deduct</i>	-0.18	
<i>For >100 To 250, Deduct</i>	-0.37	
<i>For >250 To 500, Deduct</i>	-0.70	
<i>For >500, Deduct</i>	-1.04	
<i>For Work In Restricted Working Space, Add</i>	0.91	
26 05 29 00-0255 EA 1-1/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	5.44	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.47	
<i>For >250 To 500, Deduct</i>	-0.91	
<i>For >500, Deduct</i>	-1.35	
<i>For Work In Restricted Working Space, Add</i>	1.21	
26 05 29 00-0256 EA 1-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	5.91	
<i>For >50 To 100, Deduct</i>	-0.25	
<i>For >100 To 250, Deduct</i>	-0.50	
<i>For >250 To 500, Deduct</i>	-0.95	
<i>For >500, Deduct</i>	-1.40	
<i>For Work In Restricted Working Space, Add</i>	1.21	
26 05 29 00-0257 EA 2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	5.96	
<i>For >50 To 100, Deduct</i>	-0.25	
<i>For >100 To 250, Deduct</i>	-0.50	
<i>For >250 To 500, Deduct</i>	-0.95	
<i>For >500, Deduct</i>	-1.40	
<i>For Work In Restricted Working Space, Add</i>	1.21	
26 05 29 00-0258 EA 2-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	7.31	
<i>For >50 To 100, Deduct</i>	-0.31	
<i>For >100 To 250, Deduct</i>	-0.62	
<i>For >250 To 500, Deduct</i>	-1.18	
<i>For >500, Deduct</i>	-1.74	
<i>For Work In Restricted Working Space, Add</i>	1.52	
26 05 29 00-0259 EA 3" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	7.73	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100 To 250, Deduct</i>	-0.64	
<i>For >250 To 500, Deduct</i>	-1.21	
<i>For >500, Deduct</i>	-1.78	
<i>For Work In Restricted Working Space, Add</i>	1.52	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0260 EA 3-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	8.13	
For >50 To 100, Deduct	-0.33	
For >100 To 250, Deduct	-0.66	
For >250 To 500, Deduct	-1.24	
For >500, Deduct	-1.82	
For Work In Restricted Working Space, Add	1.52	
26 05 29 00-0261 EA 4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	8.28	
For >50 To 100, Deduct	-0.33	
For >100 To 250, Deduct	-0.67	
For >250 To 500, Deduct	-1.25	
For >500, Deduct	-1.84	
For Work In Restricted Working Space, Add	1.52	
26 05 29 00-0262 Electrical Metallic Tubing (EMT) Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0165)</small>		
26 05 29 00-0263 EA 1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel	4.50	
For >50 To 100, Deduct	-0.19	
For >100 To 250, Deduct	-0.38	
For >250 To 500, Deduct	-0.72	
For >500, Deduct	-1.06	
For Work In Restricted Working Space, Add	0.91	
26 05 29 00-0264 EA 3/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel	4.46	
For >50 To 100, Deduct	-0.19	
For >100 To 250, Deduct	-0.37	
For >250 To 500, Deduct	-0.71	
For >500, Deduct	-1.05	
For Work In Restricted Working Space, Add	0.91	
26 05 29 00-0265 EA 1" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel	4.42	
For >50 To 100, Deduct	-0.19	
For >100 To 250, Deduct	-0.37	
For >250 To 500, Deduct	-0.71	
For >500, Deduct	-1.05	
For Work In Restricted Working Space, Add	0.91	
26 05 29 00-0266 EA 1-1/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel	5.82	
For >50 To 100, Deduct	-0.25	
For >100 To 250, Deduct	-0.49	
For >250 To 500, Deduct	-0.94	
For >500, Deduct	-1.39	
For Work In Restricted Working Space, Add	1.21	
26 05 29 00-0267 EA 1-1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel	6.64	
For >50 To 100, Deduct	-0.27	
For >100 To 250, Deduct	-0.53	
For >250 To 500, Deduct	-1.00	
For >500, Deduct	-1.47	
For Work In Restricted Working Space, Add	1.21	
26 05 29 00-0268 EA 2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel	6.69	
For >50 To 100, Deduct	-0.27	
For >100 To 250, Deduct	-0.54	
For >250 To 500, Deduct	-1.01	
For >500, Deduct	-1.48	
For Work In Restricted Working Space, Add	1.21	
26 05 29 00-0269 "J" Type Conduit Hangers <small>(26 05 29 00-0165)</small>		
26 05 29 00-0270 EA 1/2", "J" Type Conduit Hanger (Unistrut J1205)	19.32	
For >50 To 100, Deduct	-0.66	
For >100 To 250, Deduct	-1.32	
For >250 To 500, Deduct	-2.33	
For >500, Deduct	-3.35	
For Work In Restricted Working Space, Add	2.12	
26 05 29 00-0271 EA 3/4", "J" Type Conduit Hanger (Unistrut J1207)	19.54	
For >50 To 100, Deduct	-0.67	
For >100 To 250, Deduct	-1.33	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-3.37	
For Work In Restricted Working Space, Add	2.12	
26 05 29 00-0272 EA 1", "J" Type Conduit Hanger (Unistrut J1210)	20.75	
For >50 To 100, Deduct	-0.72	
For >100 To 250, Deduct	-1.44	
For >250 To 500, Deduct	-2.57	
For >500, Deduct	-3.69	
For Work In Restricted Working Space, Add	2.42	
26 05 29 00-0273 EA 1-1/4", "J" Type Conduit Hanger (Unistrut J1212)	20.98	
For >50 To 100, Deduct	-0.73	
For >100 To 250, Deduct	-1.45	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.71	
For Work In Restricted Working Space, Add	2.42	
26 05 29 00-0274 EA 1-1/2", "J" Type Conduit Hanger (Unistrut J1215)	22.13	
For >50 To 100, Deduct	-0.78	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-2.79	
For >500, Deduct	-4.03	
For Work In Restricted Working Space, Add	2.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0275 EA 2", "J" Type Conduit Hanger (Unistrut J1220).....	23.00	
<i>For >50 To 100, Deduct</i>	-0.80	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.86	
<i>For >500, Deduct</i>	-4.12	
<i>For Work In Restricted Working Space, Add</i>	2.72	
26 05 29 00-0276 EA 2-1/2", "J" Type Conduit Hanger (Unistrut J1225).....	36.46	
<i>For >50 To 100, Deduct</i>	-1.16	
<i>For >100 To 250, Deduct</i>	-2.33	
<i>For >250 To 500, Deduct</i>	-4.00	
<i>For >500, Deduct</i>	-5.67	
<i>For Work In Restricted Working Space, Add</i>	3.03	
26 05 29 00-0277 EA 3", "J" Type Conduit Hanger (Unistrut J1230).....	38.78	
<i>For >50 To 100, Deduct</i>	-1.25	
<i>For >100 To 250, Deduct</i>	-2.49	
<i>For >250 To 500, Deduct</i>	-4.30	
<i>For >500, Deduct</i>	-6.10	
<i>For Work In Restricted Working Space, Add</i>	3.33	
26 05 29 00-0278 EA 3-1/2", "J" Type Conduit Hanger (Unistrut J1235).....	41.76	
<i>For >50 To 100, Deduct</i>	-1.35	
<i>For >100 To 250, Deduct</i>	-2.69	
<i>For >250 To 500, Deduct</i>	-4.65	
<i>For >500, Deduct</i>	-6.60	
<i>For Work In Restricted Working Space, Add</i>	3.64	
26 05 29 00-0279 EA 4", "J" Type Conduit Hanger (Unistrut J1240).....	55.26	
<i>For >50 To 100, Deduct</i>	-1.68	
<i>For >100 To 250, Deduct</i>	-3.37	
<i>For >250 To 500, Deduct</i>	-5.66	
<i>For >500, Deduct</i>	-7.95	
<i>For Work In Restricted Working Space, Add</i>	3.64	
26 05 29 00-0280 EA 5", "J" Type Conduit Hanger (Unistrut J1250).....	60.69	
<i>For >50 To 100, Deduct</i>	-1.85	
<i>For >100 To 250, Deduct</i>	-3.69	
<i>For >250 To 500, Deduct</i>	-6.19	
<i>For >500, Deduct</i>	-8.69	
<i>For Work In Restricted Working Space, Add</i>	3.94	
26 05 29 00-0281 EA 6", "J" Type Conduit Hanger (Unistrut J1260).....	85.33	
<i>For >50 To 100, Deduct</i>	-2.51	
<i>For >100 To 250, Deduct</i>	-5.02	
<i>For >250 To 500, Deduct</i>	-8.29	
<i>For >500, Deduct</i>	-11.56	
<i>For Work In Restricted Working Space, Add</i>	4.55	
26 05 29 00-0282 Between Studs Box Brackets <small>(26 05 29 00-0165)</small>		
26 05 29 00-0283 EA 16" Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB16A).....	7.00	
<i>For >50 To 100, Deduct</i>	-0.25	
<i>For >100 To 250, Deduct</i>	-0.50	
<i>For >250 To 500, Deduct</i>	-0.90	
<i>For >500, Deduct</i>	-1.31	
<i>For Work In Restricted Working Space, Add</i>	0.91	
26 05 29 00-0284 EA 24" Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB24A).....	8.38	
<i>For >50 To 100, Deduct</i>	-0.29	
<i>For >100 To 250, Deduct</i>	-0.57	
<i>For >250 To 500, Deduct</i>	-1.01	
<i>For >500, Deduct</i>	-1.44	
<i>For Work In Restricted Working Space, Add</i>	0.91	
26 05 29 00-0285 Hangers And Brackets <small>(26 05 29 00-0165)</small>		
26 05 29 00-0286 EA Rod Hangers Only With 1/4" Thread Impression (Caddy 4T1).....	2.54	
<i>For >50 To 100, Deduct</i>	-0.11	
<i>For >100 To 250, Deduct</i>	-0.23	
<i>For >250 To 500, Deduct</i>	-0.44	
<i>For >500, Deduct</i>	-0.66	
26 05 29 00-0287 EA Angle Bracket Only With 1/4" Hole (Caddy AB).....	2.46	
<i>For >50 To 100, Deduct</i>	-0.11	
<i>For >100 To 250, Deduct</i>	-0.22	
<i>For >250 To 500, Deduct</i>	-0.44	
<i>For >500, Deduct</i>	-0.65	
26 05 29 00-0288 EA Offset Bracket Only With 1/4" Hole (Caddy AO).....	2.46	
<i>For >50 To 100, Deduct</i>	-0.11	
<i>For >100 To 250, Deduct</i>	-0.22	
<i>For >250 To 500, Deduct</i>	-0.44	
<i>For >500, Deduct</i>	-0.65	
26 05 29 00-0289 EA Angle Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIB).....	3.29	
<i>For >50 To 100, Deduct</i>	-0.13	
<i>For >100 To 250, Deduct</i>	-0.27	
<i>For >250 To 500, Deduct</i>	-0.50	
<i>For >500, Deduct</i>	-0.73	
26 05 29 00-0290 EA Angle Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIB).....	3.30	
<i>For >50 To 100, Deduct</i>	-0.13	
<i>For >100 To 250, Deduct</i>	-0.27	
<i>For >250 To 500, Deduct</i>	-0.50	
<i>For >500, Deduct</i>	-0.73	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0291	EA		Angle Bracket Mount, 1/4" Or 3/8" Threaded Rod Hanger With Nut (Caddy 6TB).....	3.21	
			<i>For >50 To 100, Deduct</i>	-0.13	
			<i>For >100 To 250, Deduct</i>	-0.26	
			<i>For >250 To 500, Deduct</i>	-0.49	
			<i>For >500, Deduct</i>	-0.73	
26 05 29 00-0292	EA		Offset Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIO).....	3.29	
			<i>For >50 To 100, Deduct</i>	-0.13	
			<i>For >100 To 250, Deduct</i>	-0.27	
			<i>For >250 To 500, Deduct</i>	-0.50	
			<i>For >500, Deduct</i>	-0.73	
26 05 29 00-0293	EA		Offset Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIO).....	3.30	
			<i>For >50 To 100, Deduct</i>	-0.13	
			<i>For >100 To 250, Deduct</i>	-0.27	
			<i>For >250 To 500, Deduct</i>	-0.50	
			<i>For >500, Deduct</i>	-0.73	
26 05 29 00-0294			Clips And Accessories <small>(26 05 29 00-0165)</small>		
26 05 29 00-0295	EA		1/2" Diameter Center, Bridle Ring (Caddy 2BR).....	1.72	
			<i>For >50 To 100, Deduct</i>	-0.07	
			<i>For >100 To 250, Deduct</i>	-0.15	
			<i>For >250 To 500, Deduct</i>	-0.29	
			<i>For >500, Deduct</i>	-0.42	
26 05 29 00-0296	EA		3/4" Diameter Center, Bridle Ring (Caddy 2BR12).....	1.75	
			<i>For >50 To 100, Deduct</i>	-0.08	
			<i>For >100 To 250, Deduct</i>	-0.15	
			<i>For >250 To 500, Deduct</i>	-0.29	
			<i>For >500, Deduct</i>	-0.43	
26 05 29 00-0297	EA		1-1/4" Diameter Center, Bridle Ring (Caddy 2BR20).....	1.87	
			<i>For >50 To 100, Deduct</i>	-0.08	
			<i>For >100 To 250, Deduct</i>	-0.16	
			<i>For >250 To 500, Deduct</i>	-0.30	
			<i>For >500, Deduct</i>	-0.44	
26 05 29 00-0298	EA		2" Diameter Center, Bridle Ring (Caddy 2BR32).....	2.13	
			<i>For >50 To 100, Deduct</i>	-0.08	
			<i>For >100 To 250, Deduct</i>	-0.17	
			<i>For >250 To 500, Deduct</i>	-0.32	
			<i>For >500, Deduct</i>	-0.47	
26 05 29 00-0299			Wire Ties <small>(26 05 29 00-0165)</small>		
			Note: Per hundred (C).		
26 05 29 00-0300	C		3" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	25.02	
			<i>For Up To 0.1, Add</i>	21.08	
			<i>For >0.1 To 0.25, Add</i>	10.54	
			<i>For >0.25 To 0.75, Add</i>	5.27	
			<i>For >2.0, Deduct</i>	-2.11	
			<i>For UV Black, Add</i>	0.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.32	
26 05 29 00-0301	C		4" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	25.18	
			<i>For Up To 0.1, Add</i>	21.08	
			<i>For >0.1 To 0.25, Add</i>	10.54	
			<i>For >0.25 To 0.75, Add</i>	5.27	
			<i>For >2.0, Deduct</i>	-2.11	
			<i>For UV Black, Add</i>	0.62	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.32	
26 05 29 00-0302	C		4-3/4" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	25.28	
			<i>For Up To 0.1, Add</i>	21.08	
			<i>For >0.1 To 0.25, Add</i>	10.54	
			<i>For >0.25 To 0.75, Add</i>	5.27	
			<i>For >2.0, Deduct</i>	-2.11	
			<i>For UV Black, Add</i>	0.63	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.32	
26 05 29 00-0303	C		5-1/2" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	25.33	
			<i>For Up To 0.1, Add</i>	21.08	
			<i>For >0.1 To 0.25, Add</i>	10.54	
			<i>For >0.25 To 0.75, Add</i>	5.27	
			<i>For >2.0, Deduct</i>	-2.11	
			<i>For UV Black, Add</i>	0.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.32	
26 05 29 00-0304	C		6-1/2" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	26.28	
			<i>For Up To 0.1, Add</i>	21.99	
			<i>For >0.1 To 0.25, Add</i>	11.00	
			<i>For >0.25 To 0.75, Add</i>	5.50	
			<i>For >2.0, Deduct</i>	-2.20	
			<i>For UV Black, Add</i>	0.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.60	
26 05 29 00-0305	C		8" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	30.62	
			<i>For Up To 0.1, Add</i>	23.00	
			<i>For >0.1 To 0.25, Add</i>	11.50	
			<i>For >0.25 To 0.75, Add</i>	5.75	
			<i>For >2.0, Deduct</i>	-2.30	
			<i>For UV Black, Add</i>	1.14	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0306 C 4-3/4" Length, 40 LB Tensile Strength, Nylon Cable Ties	29.25	
For Up To 0.1, Add	21.08	
For >0.1 To 0.25, Add	10.54	
For >0.25 To 0.75, Add	5.27	
For >2.0, Deduct	-2.11	
For UV Black, Add	1.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.32	
26 05 29 00-0307 C 6" Length, 40 LB Tensile Strength, Nylon Cable Ties	30.23	
For Up To 0.1, Add	21.99	
For >0.1 To 0.25, Add	11.00	
For >0.25 To 0.75, Add	5.50	
For >2.0, Deduct	-2.20	
For UV Black, Add	1.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 05 29 00-0308 C 8" Length, 40 LB Tensile Strength, Nylon Cable Ties	31.28	
For Up To 0.1, Add	23.00	
For >0.1 To 0.25, Add	11.50	
For >0.25 To 0.75, Add	5.75	
For >2.0, Deduct	-2.30	
For UV Black, Add	1.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.90	
26 05 29 00-0309 C 10" Length, 40 LB Tensile Strength, Nylon Cable Ties	43.89	
For Up To 0.1, Add	24.79	
For >0.1 To 0.25, Add	12.40	
For >0.25 To 0.75, Add	6.20	
For >2.0, Deduct	-2.48	
For UV Black, Add	2.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.44	
26 05 29 00-0310 C 11-1/2" Length, 40 LB Tensile Strength, Nylon Cable Ties	45.62	
For Up To 0.1, Add	24.79	
For >0.1 To 0.25, Add	12.40	
For >0.25 To 0.75, Add	6.20	
For >2.0, Deduct	-2.48	
For UV Black, Add	3.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.44	
26 05 29 00-0311 C 7" Length, 50 LB Tensile Strength, Nylon Cable Ties	32.49	
For Up To 0.1, Add	23.00	
For >0.1 To 0.25, Add	11.50	
For >0.25 To 0.75, Add	5.75	
For >2.0, Deduct	-2.30	
For UV Black, Add	1.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.90	
26 05 29 00-0312 C 8" Length, 50 LB Tensile Strength, Nylon Cable Ties	30.96	
For Up To 0.1, Add	23.00	
For >0.1 To 0.25, Add	11.50	
For >0.25 To 0.75, Add	5.75	
For >2.0, Deduct	-2.30	
For UV Black, Add	1.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.90	
26 05 29 00-0313 C 11" Length, 50 LB Tensile Strength, Nylon Cable Ties	44.36	
For Up To 0.1, Add	24.79	
For >0.1 To 0.25, Add	12.40	
For >0.25 To 0.75, Add	6.20	
For >2.0, Deduct	-2.48	
For UV Black, Add	2.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.44	
26 05 29 00-0314 C 14-1/2" Length, 50 LB Tensile Strength, Nylon Cable Ties	50.42	
For Up To 0.1, Add	26.35	
For >0.1 To 0.25, Add	13.18	
For >0.25 To 0.75, Add	6.59	
For >2.0, Deduct	-2.64	
For UV Black, Add	3.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.91	
26 05 29 00-0315 C 8" Length, 120 LB Tensile Strength, Nylon Cable Ties	48.82	
For Up To 0.1, Add	23.00	
For >0.1 To 0.25, Add	11.50	
For >0.25 To 0.75, Add	5.75	
For >2.0, Deduct	-2.30	
For UV Black, Add	3.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.90	
26 05 29 00-0316 C 11" Length, 120 LB Tensile Strength, Nylon Cable Ties	53.38	
For Up To 0.1, Add	24.79	
For >0.1 To 0.25, Add	12.40	
For >0.25 To 0.75, Add	6.20	
For >2.0, Deduct	-2.48	
For UV Black, Add	4.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.44	
26 05 29 00-0317 C 15" Length, 120 LB Tensile Strength, Nylon Cable Ties	63.95	
For Up To 0.1, Add	26.35	
For >0.1 To 0.25, Add	13.18	
For >0.25 To 0.75, Add	6.59	
For >2.0, Deduct	-2.64	
For UV Black, Add	5.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.91	

26 Electrical

26 05 Common Work Results for Electrical

26 05 29 Hangers and Supports for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0318	C		17" Length, 120 LB Tensile Strength, Nylon Cable Ties	89.72	
			For Up To 0.1, Add	28.11	
			For >0.1 To 0.25, Add	14.06	
			For >0.25 To 0.75, Add	7.03	
			For >2.0, Deduct	-2.81	
			For UV Black, Add	9.24	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.43	
26 05 29 00-0319	C		17-3/4" Length, 175 LB Tensile Strength, Nylon Cable Ties	87.09	
			For Up To 0.1, Add	28.11	
			For >0.1 To 0.25, Add	14.06	
			For >0.25 To 0.75, Add	7.03	
			For >2.0, Deduct	-2.81	
			For UV Black, Add	8.85	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.43	
26 05 29 00-0320	C		21-11/16" Length, 175 LB Tensile Strength, Nylon Cable Ties	105.21	
			For Up To 0.1, Add	29.42	
			For >0.1 To 0.25, Add	14.71	
			For >0.25 To 0.75, Add	7.36	
			For >2.0, Deduct	-2.94	
			For UV Black, Add	11.37	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.83	
26 05 29 00-0321	C		30" Length, 175 LB Tensile Strength, Nylon Cable Ties	121.19	
			For Up To 0.1, Add	30.85	
			For >0.1 To 0.25, Add	15.43	
			For >0.25 To 0.75, Add	7.71	
			For >2.0, Deduct	-3.09	
			For UV Black, Add	13.55	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.26	
26 05 29 00-0322	C		46" Length, 175 LB Tensile Strength, Nylon Cable Ties	164.54	
			For Up To 0.1, Add	33.28	
			For >0.1 To 0.25, Add	16.64	
			For >0.25 To 0.75, Add	8.32	
			For >2.0, Deduct	-3.33	
			For UV Black, Add	19.69	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.98	
26 05 29 00-0323	C		3/4" x 3/4" Self Adhesive Tie Mounts	33.55	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.49	
26 05 29 00-0324	C		1.1" x 1.1" Tie Mounts With Screw	66.60	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.97	
26 05 29 00-0325	EA		6" Length x 1/2" Width, Velcro Grip Cable Tie	1.74	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.15	
26 05 29 00-0326	EA		8" Length x 1/2" Width, Velcro Grip Cable Tie	1.73	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.13	
26 05 29 00-0327	EA		12" Length x 1/2" Width, Velcro Grip Cable Tie	2.12	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.13	
26 05 29 00-0328	EA		15" Length x 3/4" Width, Velcro Grip Cable Tie	2.94	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.13	
26 05 29 00-0329	EA		180" Length x 3/4" Width, Velcro Grip Cable Tie Roll	74.29	
			Note: Cut to length.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.95	
26 05 29 00-0330			Fastening Devices For Wireway And Conduit <small>(26 05 29)</small>		
			Note: Bolts include drilling of holes with power tools in concrete, brick, concrete block, wood, tile or steel and alignment of hangers and supports.		
26 05 29 00-0331			Toggle Bolts <small>(26 05 29 00-0330)</small>		
			Note: Includes machine screw, toggle wing and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0332	EA		1/8" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt	7.92	
			For >50 To 100, Deduct	-0.75	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-2.62	
			For >500, Deduct	-3.74	
26 05 29 00-0333	EA		1/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt	8.13	
			For >50 To 100, Deduct	-0.77	
			For >100 To 250, Deduct	-1.54	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.84	
26 05 29 00-0334	EA		3/16" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt	8.62	
			For >50 To 100, Deduct	-0.80	
			For >100 To 250, Deduct	-1.59	
			For >250 To 500, Deduct	-2.78	
			For >500, Deduct	-3.96	
26 05 29 00-0335	EA		3/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt	8.83	
			For >50 To 100, Deduct	-0.82	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-4.06	
26 05 29 00-0336	EA		1/4" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt	9.03	
			For >50 To 100, Deduct	-0.83	
			For >100 To 250, Deduct	-1.67	
			For >250 To 500, Deduct	-2.91	
			For >500, Deduct	-4.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0337 EA 5/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	10.38	
<i>For >50 To 100, Deduct</i>	-0.88	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-3.06	
<i>For >500, Deduct</i>	-4.36	
26 05 29 00-0338 EA 3/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	10.82	
<i>For >50 To 100, Deduct</i>	-0.91	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-3.15	
<i>For >500, Deduct</i>	-4.48	
26 05 29 00-0339 Machine Screws <small>(26 05 29 00-0330)</small>		
Note: Includes drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0340 EA #8 Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	2.33	
<i>For >50 To 100, Deduct</i>	-0.23	
<i>For >100 To 250, Deduct</i>	-0.45	
<i>For >250 To 500, Deduct</i>	-0.79	
<i>For >500, Deduct</i>	-1.13	
26 05 29 00-0341 EA #10 Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	2.37	
<i>For >50 To 100, Deduct</i>	-0.23	
<i>For >100 To 250, Deduct</i>	-0.45	
<i>For >250 To 500, Deduct</i>	-0.79	
<i>For >500, Deduct</i>	-1.13	
26 05 29 00-0342 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	2.98	
<i>For >50 To 100, Deduct</i>	-0.29	
<i>For >100 To 250, Deduct</i>	-0.57	
<i>For >250 To 500, Deduct</i>	-1.00	
<i>For >500, Deduct</i>	-1.42	
26 05 29 00-0343 EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	3.13	
<i>For >50 To 100, Deduct</i>	-0.29	
<i>For >100 To 250, Deduct</i>	-0.58	
<i>For >250 To 500, Deduct</i>	-1.01	
<i>For >500, Deduct</i>	-1.44	
26 05 29 00-0344 EA 3/8" Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	3.88	
<i>For >50 To 100, Deduct</i>	-0.35	
<i>For >100 To 250, Deduct</i>	-0.70	
<i>For >250 To 500, Deduct</i>	-1.22	
<i>For >500, Deduct</i>	-1.73	
26 05 29 00-0345 Hex Lag Bolts With Lag Shield Expansion Anchors <small>(26 05 29 00-0330)</small>		
Note: Includes lag bolt, lag shield expansion anchor and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0346 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor.....	3.94	
<i>For >50 To 100, Deduct</i>	-0.31	
<i>For >100 To 250, Deduct</i>	-0.62	
<i>For >250 To 500, Deduct</i>	-1.07	
<i>For >500, Deduct</i>	-1.52	
26 05 29 00-0347 EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor.....	3.89	
<i>For >50 To 100, Deduct</i>	-0.31	
<i>For >100 To 250, Deduct</i>	-0.62	
<i>For >250 To 500, Deduct</i>	-1.06	
<i>For >500, Deduct</i>	-1.51	
26 05 29 00-0348 EA 3/8" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor.....	5.61	
<i>For >50 To 100, Deduct</i>	-0.39	
<i>For >100 To 250, Deduct</i>	-0.78	
<i>For >250 To 500, Deduct</i>	-1.34	
<i>For >500, Deduct</i>	-1.91	
26 05 29 00-0349 EA 1/2" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor.....	7.22	
<i>For >50 To 100, Deduct</i>	-0.47	
<i>For >100 To 250, Deduct</i>	-0.95	
<i>For >250 To 500, Deduct</i>	-1.62	
<i>For >500, Deduct</i>	-2.29	
26 05 29 00-0350 Hanger Lag Bolts With Hex Nuts <small>(26 05 29 00-0330)</small>		
Note: Includes hanger lag bolt (threaded one side), hex nut and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0351 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	2.92	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.48	
<i>For >250 To 500, Deduct</i>	-0.84	
<i>For >500, Deduct</i>	-1.19	
26 05 29 00-0352 EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	2.98	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.49	
<i>For >250 To 500, Deduct</i>	-0.84	
<i>For >500, Deduct</i>	-1.19	
26 05 29 00-0353 EA 3/8" Diameter, 2-1/2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	3.55	
<i>For >50 To 100, Deduct</i>	-0.28	
<i>For >100 To 250, Deduct</i>	-0.55	
<i>For >250 To 500, Deduct</i>	-0.95	
<i>For >500, Deduct</i>	-1.36	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0354			Hollow Wall Screw Anchors (26 05 29 00-0330)		
26 05 29 00-0355	EA		6-32 Screw Size, 5/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	1.71	
			For >50 To 100, Deduct	-0.14	
			For >100 To 250, Deduct	-0.29	
			For >250 To 500, Deduct	-0.50	
			For >500, Deduct	-0.71	
26 05 29 00-0356	EA		6-32 Screw Size, 5/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	1.77	
			For >50 To 100, Deduct	-0.14	
			For >100 To 250, Deduct	-0.29	
			For >250 To 500, Deduct	-0.50	
			For >500, Deduct	-0.71	
26 05 29 00-0357	EA		6-32 Screw Size, 5/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	1.87	
			For >50 To 100, Deduct	-0.15	
			For >100 To 250, Deduct	-0.29	
			For >250 To 500, Deduct	-0.51	
			For >500, Deduct	-0.72	
26 05 29 00-0358	EA		10-24 Screw Size, 3/8" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	2.39	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.35	
			For >250 To 500, Deduct	-0.61	
			For >500, Deduct	-0.86	
26 05 29 00-0359	EA		10-24 Screw Size, 3/8" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	2.52	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.62	
			For >500, Deduct	-0.88	
26 05 29 00-0360	EA		10-24 Screw Size, 3/8" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	2.56	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.62	
			For >500, Deduct	-0.88	
26 05 29 00-0361	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	2.58	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.62	
			For >500, Deduct	-0.88	
26 05 29 00-0362	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	2.77	
			For >50 To 100, Deduct	-0.19	
			For >100 To 250, Deduct	-0.37	
			For >250 To 500, Deduct	-0.64	
			For >500, Deduct	-0.90	
26 05 29 00-0363	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	2.84	
			For >50 To 100, Deduct	-0.19	
			For >100 To 250, Deduct	-0.38	
			For >250 To 500, Deduct	-0.64	
			For >500, Deduct	-0.91	
26 05 29 00-0364			Lead Screw Anchors (26 05 29 00-0330)		
			Note: Includes screw.		
26 05 29 00-0365	EA		#6-8 Screw Size, 1/4" Hole Diameter, Lead Screw Anchor With Screw	3.93	
			For >50 To 100, Deduct	-0.36	
			For >100 To 250, Deduct	-0.71	
			For >250 To 500, Deduct	-1.24	
			For >500, Deduct	-1.77	
26 05 29 00-0366	EA		#10-14 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw	4.70	
			For >50 To 100, Deduct	-0.42	
			For >100 To 250, Deduct	-0.83	
			For >250 To 500, Deduct	-1.45	
			For >500, Deduct	-2.06	
26 05 29 00-0367	EA		#16-18 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw	6.41	
			For >50 To 100, Deduct	-0.54	
			For >100 To 250, Deduct	-1.08	
			For >250 To 500, Deduct	-1.87	
			For >500, Deduct	-2.67	
26 05 29 00-0368			Acoustical T-Bar Clips (26 05 29 00-0330)		
			Note: For conduit installation above suspended ceilings up to 15' height.		
26 05 29 00-0369	EA		1/2" Conduit, Push-In Acoustical T-Bar Clip	6.11	
			For >50 To 100, Deduct	-0.48	
			For >100 To 250, Deduct	-0.95	
			For >250 To 500, Deduct	-1.64	
			For >500, Deduct	-2.33	
26 05 29 00-0370	EA		3/4" Conduit, Push-In Acoustical T-Bar Clip	6.40	
			For >50 To 100, Deduct	-0.50	
			For >100 To 250, Deduct	-1.00	
			For >250 To 500, Deduct	-1.72	
			For >500, Deduct	-2.45	
26 05 29 00-0371	EA		1" Conduit, Push-In Acoustical T-Bar Clip	6.96	
			For >50 To 100, Deduct	-0.53	
			For >100 To 250, Deduct	-1.06	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0372 Threaded Rod, Accessories And Attachments <small>(26 05 29)</small>		
26 05 29 00-0373 Threaded Rod And Rod Accessories <small>(26 05 29 00-0372)</small>		
26 05 29 00-0374 Carbon Steel Threaded Rod <small>(26 05 29 00-0373)</small>		
Note: Includes plain finish.		
26 05 29 00-0375 LF 3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.29	0.63
For Galvanized, Add	0.81	
For Zinc Coated, Add	0.58	
26 05 29 00-0376 LF 1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.57	0.67
For Galvanized, Add	1.29	
For Zinc Coated, Add	0.92	
26 05 29 00-0377 LF 5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	6.39	0.69
For Galvanized, Add	2.00	
For Zinc Coated, Add	1.42	
26 05 29 00-0378 LF 3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	10.50	0.72
For Galvanized, Add	3.62	
For Zinc Coated, Add	2.58	
26 05 29 00-0379 LF 7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	11.45	0.74
For Galvanized, Add	3.98	
For Zinc Coated, Add	2.84	
26 05 29 00-0380 LF 1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	15.67	0.84
For Galvanized, Add	5.59	
For Zinc Coated, Add	3.98	
26 05 29 00-0381 LF 1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	19.51	0.93
For Galvanized, Add	7.06	
For Zinc Coated, Add	5.03	
26 05 29 00-0382 Threaded Rod Couplings <small>(26 05 29 00-0373)</small>		
26 05 29 00-0383 EA 3/8" Diameter, Threaded Rod Coupling Nut.....	8.32	
26 05 29 00-0384 EA 1/2" Diameter, Threaded Rod Coupling Nut.....	9.47	
26 05 29 00-0385 EA 5/8" Diameter, Threaded Rod Coupling Nut.....	11.93	
26 05 29 00-0386 EA 3/4" Diameter, Threaded Rod Coupling Nut.....	14.68	
26 05 29 00-0387 EA 7/8" Diameter, Threaded Rod Coupling Nut.....	21.93	
26 05 29 00-0388 EA 1" Diameter, Threaded Rod Coupling Nut.....	26.02	
26 05 29 00-0389 EA 1-1/8" Diameter, Threaded Rod Coupling Nut	50.91	
26 05 29 00-0390 Flat Washers <small>(26 05 29 00-0373)</small>		
26 05 29 00-0391 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.71	0.25
For Galvanized, Add	0.04	
26 05 29 00-0392 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.93	0.25
For Galvanized, Add	0.08	
26 05 29 00-0393 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.24	0.25
For Galvanized, Add	0.15	
26 05 29 00-0394 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.53	0.50
For Galvanized, Add	0.21	
26 05 29 00-0395 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.73	0.50
For Galvanized, Add	0.25	
26 05 29 00-0396 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.05	0.50
For Galvanized, Add	0.30	
26 05 29 00-0397 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.30	0.50
For Galvanized, Add	0.34	
26 05 29 00-0398 Malleable Iron Eye Sockets <small>(26 05 29 00-0373)</small>		
Note: Type 16.		
26 05 29 00-0399 EA 3/8" Rod Size, Malleable Iron Eye Socket.....	9.57	
26 05 29 00-0400 EA 1/2" Rod Size, Malleable Iron Eye Socket.....	11.45	
26 05 29 00-0401 EA 5/8" Rod Size, Malleable Iron Eye Socket.....	19.99	
26 05 29 00-0402 EA 3/4" Rod Size, Malleable Iron Eye Socket.....	28.53	
26 05 29 00-0403 EA 7/8" Rod Size, Malleable Iron Eye Socket.....	30.38	
26 05 29 00-0404 Hex Nuts <small>(26 05 29 00-0373)</small>		
26 05 29 00-0405 EA 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.68	0.25
For Galvanized, Add	0.03	
26 05 29 00-0406 EA 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.89	0.25
For Galvanized, Add	0.07	
26 05 29 00-0407 EA 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.24	0.25
For Galvanized, Add	0.15	
26 05 29 00-0408 EA 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.48	0.50
For Galvanized, Add	0.20	
26 05 29 00-0409 EA 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	2.21	0.50
For Galvanized, Add	0.37	
26 05 29 00-0410 EA 1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	2.83	0.50
For Galvanized, Add	0.50	
26 05 29 00-0411 EA 1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	4.69	0.50
For Galvanized, Add	0.94	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0412 Forged Steel Turnbuckles (26 05 29 00-0373) Note: Type 13.		
26 05 29 00-0413 EA 3/8" Thread Diameter, Forged Steel Turnbuckle Body.....	23.45	
26 05 29 00-0414 EA 1/2" Thread Diameter, Forged Steel Turnbuckle Body.....	28.94	
26 05 29 00-0415 EA 5/8" Thread Diameter, Forged Steel Turnbuckle Body.....	38.73	
26 05 29 00-0416 EA 3/4" Thread Diameter, Forged Steel Turnbuckle Body.....	47.91	
26 05 29 00-0417 EA 7/8" Thread Diameter, Forged Steel Turnbuckle Body.....	117.66	
26 05 29 00-0418 EA 1" Thread Diameter, Forged Steel Turnbuckle Body.....	78.43	
26 05 29 00-0419 EA 1-1/4" Thread Diameter, Forged Steel Turnbuckle Body.....	157.50	
26 05 29 00-0420 Attachments (26 05 29 00-0372)		
26 05 29 00-0421 Welded Beam Attachments (26 05 29 00-0420) Note: Type 22.		
26 05 29 00-0422 EA 3/8" Rod Size, Welded Beam Attachment.....	43.06	10.10
26 05 29 00-0423 EA 1/2" Rod Size, Welded Beam Attachment.....	45.92	10.60
26 05 29 00-0424 EA 5/8" Rod Size, Welded Beam Attachment.....	48.88	11.21
26 05 29 00-0425 EA 3/4" Rod Size, Welded Beam Attachment.....	62.05	11.91
26 05 29 00-0426 EA 7/8" Rod Size, Welded Beam Attachment.....	74.25	12.62
26 05 29 00-0427 EA 1" Rod Size, Welded Beam Attachment.....	103.67	14.44
26 05 29 00-0428 EA 1-1/8" Rod Size, Welded Beam Attachment.....	146.11	15.15
26 05 29 00-0429 C-Clamp Style Beam Clamps (26 05 29 00-0420) Note: Type 23. Top or bottom flange mount.		
26 05 29 00-0430 EA 3/8" Rod Size, C-Clamp Style Beam Clamp.....	15.45	7.59
26 05 29 00-0431 EA 1/2" Rod Size, C-Clamp Style Beam Clamp.....	18.33	8.10
26 05 29 00-0432 EA 5/8" Rod Size, C-Clamp Style Beam Clamp.....	20.76	8.67
26 05 29 00-0433 EA 3/4" Rod Size, C-Clamp Style Beam Clamp.....	26.48	9.34
26 05 29 00-0434 EA 7/8" Rod Size, C-Clamp Style Beam Clamp.....	38.09	10.12
26 05 29 00-0435 Bottom Mount I-Beam Clamps (26 05 29 00-0420) Note: Type 21. For attaching threaded rod centered under beam flanges.		
26 05 29 00-0436 EA 3/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp.....	41.42	10.12
26 05 29 00-0437 EA 1/2" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp.....	60.47	11.04
26 05 29 00-0438 EA 5/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp.....	86.02	12.15
26 05 29 00-0439 EA 3/4" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp.....	102.85	13.49
26 05 29 00-0440 EA 1" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp.....	247.21	15.18
26 05 29 00-0441 Steel U-Bolts (26 05 29 00-0420) Note: Type 24. Includes plate and nuts.		
26 05 29 00-0442 EA 1/2" Pipe Size, Zinc Plated Steel, U-Bolt.....	12.58	6.07
26 05 29 00-0443 EA 3/4" Pipe Size, Zinc Plated Steel, U-Bolt.....	13.63	6.39
26 05 29 00-0444 EA 1" Pipe Size, Zinc Plated Steel, U-Bolt.....	14.65	6.74
26 05 29 00-0445 EA 1-1/4" Pipe Size, Zinc Plated Steel, U-Bolt.....	16.60	7.14
26 05 29 00-0446 EA 1-1/2" Pipe Size, Zinc Plated Steel, U-Bolt.....	17.17	7.59
26 05 29 00-0447 EA 2" Pipe Size, Zinc Plated Steel, U-Bolt.....	18.37	8.10
26 05 29 00-0448 EA 2-1/2" Pipe Size, Zinc Plated Steel, U-Bolt.....	26.15	8.67
26 05 29 00-0449 EA 3" Pipe Size, Zinc Plated Steel, U-Bolt.....	28.80	9.34
26 05 29 00-0450 EA 4" Pipe Size, Zinc Plated Steel, U-Bolt.....	34.68	10.12
26 05 29 00-0451 Stainless Steel Threaded Rod (26 05 29 00-0372)		
26 05 29 00-0452 LF 1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	3.10	0.50
For 316 Stainless Steel, Add	0.85	
26 05 29 00-0453 LF 5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	4.70	0.55
For 316 Stainless Steel, Add	1.45	
26 05 29 00-0454 LF 3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	6.05	0.63
For 316 Stainless Steel, Add	1.94	
26 05 29 00-0455 LF 7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	8.42	0.65
For 316 Stainless Steel, Add	2.88	
26 05 29 00-0456 LF 1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	10.11	0.67
For 316 Stainless Steel, Add	3.55	
26 05 29 00-0457 LF 5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	15.16	0.68
For 316 Stainless Steel, Add	5.58	
26 05 29 00-0458 LF 3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	21.26	0.69
For 316 Stainless Steel, Add	8.04	
26 05 29 00-0459 LF 7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	29.26	0.72
For 316 Stainless Steel, Add	11.27	
26 05 29 00-0460 LF 1" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	37.61	0.84
For 316 Stainless Steel, Add	14.55	
26 05 29 00-0461 LF 1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	79.67	1.01
For 316 Stainless Steel, Add	31.41	
26 05 29 00-0462 Polyvinyl Chloride (PVC) Coated Supports (26 05 29) Note: Includes stainless steel and/or Polyvinyl Chloride (PVC) coated hardware.		
26 05 29 00-0463 Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0462)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0464				Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0463)		
	EA			1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	48.98	20.19
	EA			3/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	53.27	22.02
	EA			1", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	57.15	24.23
	EA			1-1/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	67.65	26.96
	EA			1-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	77.81	30.29
	EA			2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	91.86	33.33
	EA			2-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	100.42	36.36
	EA			3", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	110.31	39.38
	EA			3-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	116.84	42.41
	EA			4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	126.12	45.44
26 05 29 00-0475				Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0463)		
	EA			1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	51.94	20.19
	EA			3/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	55.27	22.02
	EA			1", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	63.15	24.23
	EA			1-1/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	69.78	26.96
	EA			1-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	78.63	30.29
	EA			2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	90.44	33.33
	EA			2-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	103.09	36.36
	EA			3", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	113.85	39.38
	EA			3-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	121.30	42.41
	EA			4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	126.71	45.44
26 05 29 00-0486				Edge, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0463)		
	EA			1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	49.45	19.99
	EA			3/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	53.31	21.81
	EA			1", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	60.16	24.23
	EA			1-1/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	69.83	26.66
	EA			1-1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	89.12	30.29
	EA			2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	97.76	33.33
26 05 29 00-0493				Polyvinyl Chloride (PVC) Coated Conduit Straps (26 05 29 00-0462)		
26 05 29 00-0494				One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps (26 05 29 00-0493)		
	EA			1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	5.22	0.60
	EA			3/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	5.65	0.60
	EA			1", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	8.18	0.60
	EA			1-1/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	9.89	0.60
	EA			1-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	12.93	0.60
	EA			2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	19.29	0.60
	EA			2-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	25.61	0.60
	EA			3", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	34.22	0.60
	EA			3-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	60.36	0.60
	EA			4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	64.13	0.60
26 05 29 00-0505				Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps (26 05 29 00-0493)		
	EA			1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	10.30	1.21
	EA			3/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	10.34	1.21
	EA			1", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	10.60	1.21
	EA			1-1/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	13.20	1.21
	EA			1-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	13.56	1.21
	EA			2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	15.48	1.21
	EA			2-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	17.34	1.21
	EA			3", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	18.11	1.21
	EA			3-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	19.31	1.21
	EA			4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	20.90	1.21
26 05 29 00-0516				Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0462)		
26 05 29 00-0517				Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0516)		
	EA			1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	9.39	1.21
	EA			3/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	10.84	1.21
	EA			1" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	13.50	1.21
	EA			1-1/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	15.71	1.21
	EA			1-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	20.86	1.21
	EA			2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	44.22	1.21
	EA			2-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	50.48	1.21
	EA			3" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	68.75	1.21
	EA			3-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	119.96	1.21
	EA			4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	119.96	1.21
26 05 29 00-0528				Polyvinyl Chloride (PVC) Coated Threaded Rod And Accessories (26 05 29 00-0462)		

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0529 Polyvinyl Chloride (PVC) Coated Threaded Rod (26 05 29 00-0528)		
26 05 29 00-0530 LF 3/8" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod.....	6.45	0.81
26 05 29 00-0531 LF 1/2" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod.....	7.91	0.91
26 05 29 00-0532 Attachments (26 05 29 00-0462)		
26 05 29 00-0533 Polyvinyl Chloride (PVC) Coated U-Bolts And Encapsulation Nuts (26 05 29 00-0532)		
26 05 29 00-0534 EA 1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	14.50	6.07
26 05 29 00-0535 EA 3/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	15.03	6.37
26 05 29 00-0536 EA 1" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	15.84	6.78
26 05 29 00-0537 EA 1-1/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	16.84	7.18
26 05 29 00-0538 EA 1-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	17.93	7.59
26 05 29 00-0539 EA 2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	19.96	8.10
26 05 29 00-0540 EA 2-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	27.54	8.70
26 05 29 00-0541 EA 3" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	28.98	9.31
26 05 29 00-0542 EA 4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	30.97	10.12
26 05 29 00-0543 EA 5" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	48.39	11.53
26 05 29 00-0544 EA 6" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	59.57	13.35
26 05 29 00-0545 Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamps (26 05 29 00-0532)		
26 05 29 00-0546 EA 1/4", 20 Hole, 15/16" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	49.89	19.99
26 05 29 00-0547 EA 5/16", 18 Hole, 7/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	56.94	19.99
26 05 29 00-0548 EA 3/8", 16 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	59.84	19.99
26 05 29 00-0549 EA 1/2", 13 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	65.65	21.21
26 05 29 00-0550 EA 1/2", 13 Hole, 2-1/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	76.63	24.23
26 05 29 00-0551 Polyvinyl Chloride (PVC) Coated Pipe Straps (26 05 29 00-0532)		
Note: Includes stainless steel nuts and bolts.		
26 05 29 00-0552 EA 1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	19.57	6.67
26 05 29 00-0553 EA 3/4" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	20.60	7.27
26 05 29 00-0554 EA 1" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	22.43	7.88
26 05 29 00-0555 EA 1-1/4" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	25.27	9.08
26 05 29 00-0556 EA 1-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	28.91	10.30
26 05 29 00-0557 EA 2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	32.11	10.91
26 05 29 00-0558 EA 2-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	35.48	12.12
26 05 29 00-0559 EA 3" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	42.13	13.33
26 05 29 00-0560 EA 3-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	46.01	13.94
26 05 29 00-0561 EA 4" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	48.39	15.15
26 05 29 00-0562 EA 5" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	51.76	16.96
26 05 29 00-0563 Polyvinyl Chloride (PVC) Coated Channel (26 05 29 00-0462)		
26 05 29 00-0564 LF A12, Polyvinyl Chloride (PVC) Coated Channel.....	20.00	3.03
26 05 29 00-0565 LF A12A, Polyvinyl Chloride (PVC) Coated Channel.....	35.32	4.24
26 05 29 00-0566 LF A12P, Polyvinyl Chloride (PVC) Coated Channel.....	21.33	3.03
26 05 29 00-0567 LF C14, Polyvinyl Chloride (PVC) Coated Channel.....	15.88	3.03
26 05 29 00-0568 LF C14P, Polyvinyl Chloride (PVC) Coated Channel.....	16.71	3.03
26 05 29 00-0569 Polymer Concrete Pads (26 05 29)		
Note: Excludes excavation and backfill.		
26 05 29 00-0570 Polymer Concrete, Box Pads (26 05 29 00-0569)		
26 05 29 00-0571 EA 24" x 36", 18" Depth, Polymer Concrete, Box Pad.....	993.31	110.10
26 05 29 00-0572 EA 25" x 25", 24" Depth, Polymer Concrete, Box Pad.....	1,025.26	110.10
26 05 29 00-0573 EA 40" x 44", 15" Depth, Polymer Concrete, Box Pad.....	1,318.82	110.10
26 05 29 00-0574 EA 40" x 44", 24" Depth, Polymer Concrete, Box Pad.....	1,367.49	110.10
26 05 29 00-0575 EA 52" x 36", 18" Depth, Polymer Concrete, Box Pad.....	1,273.51	110.10
26 05 29 00-0576 EA 44" x 44", 32" Depth, Polymer Concrete, Box Pad.....	1,503.37	110.10
26 05 29 00-0577 EA 40" x 58", 24" Depth, Polymer Concrete, Box Pad.....	1,679.62	110.10
26 05 29 00-0578 EA 52" x 50", 18" Depth, Polymer Concrete, Box Pad.....	1,619.40	137.62
26 05 29 00-0579 EA 74" x 76", 36" Depth, Polymer Concrete, Box Pad.....	2,442.91	137.62
26 05 29 00-0580 EA 93" x 93", 36" Depth, Polymer Concrete, Box Pad.....	3,270.49	137.62
26 05 29 00-0581 Polymer Concrete, Telecommunications Equipment Pads (26 05 29 00-0569)		
26 05 29 00-0582 EA 42" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	474.42	56.51
26 05 29 00-0583 EA 48" x 46", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	561.69	56.51
26 05 29 00-0584 EA 60" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	737.25	82.57
26 05 29 00-0585 EA 54" x 48", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	769.68	82.57
26 05 29 00-0586 EA 57" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,099.86	82.57
26 05 29 00-0587 EA 72" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,145.75	82.57
26 05 29 00-0588 EA 64" x 72", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,231.26	82.57
26 05 29 00-0589 EA 72" x 64", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,231.26	82.57
26 05 29 00-0590 EA 76" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	2,305.49	82.57
26 05 29 00-0591 EA 96" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	2,612.00	82.57



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0592			Polymer Concrete, Electrical Equipment Pads <small>(26 05 29 00-0592)</small>		
26 05 29 00-0593	EA		24" x 25", 2" Thick, Polymer Concrete, Electrical Equipment Pad	289.59	56.51
26 05 29 00-0594	EA		24" x 36", 2" Thick, Polymer Concrete, Electrical Equipment Pad	312.02	56.51
26 05 29 00-0595	EA		24" x 44", 2" Thick, Polymer Concrete, Electrical Equipment Pad	332.46	56.51
26 05 29 00-0596	EA		24" x 58", 2" Thick, Polymer Concrete, Electrical Equipment Pad	400.35	56.51
26 05 29 00-0597	EA		40" x 40", 3" Thick, Polymer Concrete, Electrical Equipment Pad	370.05	56.51
26 05 29 00-0598	EA		42" x 42", 3" Thick, Polymer Concrete, Electrical Equipment Pad	384.33	56.51
26 05 29 00-0599	EA		48" x 42", 4" Thick, Polymer Concrete, Electrical Equipment Pad	421.33	56.51
26 05 29 00-0600	EA		48" x 46", 3" Thick, Polymer Concrete, Electrical Equipment Pad	442.92	56.51
26 05 29 00-0601	EA		54" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad	515.02	56.51
26 05 29 00-0602	EA		56" x 44", 3" Thick, Polymer Concrete, Electrical Equipment Pad	633.77	56.51
26 05 29 00-0603	EA		64" x 64", 4" Thick, Polymer Concrete, Electrical Equipment Pad	940.79	82.57
26 05 29 00-0604	EA		66" x 72", 4" Thick, Polymer Concrete, Electrical Equipment Pad	984.20	82.57
26 05 29 00-0605	EA		75" x 52", 4" Thick, Polymer Concrete, Electrical Equipment Pad	997.89	82.57
26 05 29 00-0606	EA		90" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad	1,089.14	82.57
26 05 29 00-0607	EA		84" x 96", 4" Thick, Polymer Concrete, Electrical Equipment Pad	2,309.61	82.57
26 05 29 00-0608	EA		96" x 80", 4" Thick, Polymer Concrete, Electrical Equipment Pad	2,718.40	82.57

26 05 33 Raceway and Boxes for Electrical Systems (26 05)

26 05 33 13 Conduit for Electrical Systems (26 05 33)

26 05 33 13-0001	CLF		Conduit Assemblies <small>(26 05 33 13)</small> Note: Includes conduit, fittings and wire. Excludes hangers or supports.		
26 05 33 13-0002	CLF		Electrical Metallic Tubing (EMT) Conduit Assemblies <small>(26 05 33 13-0001)</small> Note: Includes conduit, field bends, set screw connectors, set screw couplings, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0240 for larger copper conductor, 26 05 33 13-0593 for larger EMT conduit.		
26 05 33 13-0003	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	782.85	225.45
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	193.28	
			<i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	2.10	
26 05 33 13-0004	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	859.24	244.83
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	209.88	
			<i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	3.16	
26 05 33 13-0005	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	935.63	264.20
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	226.48	
			<i>For 4 #12 THWN Conductor Instead Of THHN, Add</i>	4.21	
26 05 33 13-0006	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	831.67	235.14
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	201.58	
			<i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	3.15	
26 05 33 13-0007	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	927.86	257.74
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	220.95	
			<i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	4.73	
26 05 33 13-0008	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor.....	944.41	254.51
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	218.18	
			<i>For 2 #8 THWN Conductor Instead Of THHN, Add</i>	5.50	
26 05 33 13-0009	CLF		3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	873.44	243.07
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	208.33	
			<i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	2.10	
26 05 33 13-0010	CLF		3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	949.83	262.44
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	224.93	
			<i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	3.16	
26 05 33 13-0011	CLF		3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,026.22	281.81
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	241.54	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0012	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,102.61	301.19
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	258.14	
		<i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>	5.26	
26 05 33 13-0013	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	922.25	252.75
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	216.63	
		<i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	3.15	
26 05 33 13-0014	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,018.45	275.36
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	236.00	
		<i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	4.73	
26 05 33 13-0015	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,114.64	297.96
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	255.38	
		<i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	6.31	
26 05 33 13-0016	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,210.82	320.56
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	274.75	
		<i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	7.89	
26 05 33 13-0017	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor.....	1,173.05	301.19
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	258.14	
		<i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	8.25	
26 05 33 13-0018	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor.....	1,311.10	330.25
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	283.05	
		<i>For 4 #8 THWN Conductor Instead Of THHN, Add</i>	11.01	
26 05 33 13-0019	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor.....	1,185.67	291.50
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	249.84	
		<i>For 2 #6 THWN Conductor Instead Of THHN, Add</i>	9.10	
26 05 33 13-0020	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor.....	1,378.12	327.02
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	280.28	
		<i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	13.65	
26 05 33 13-0021	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,002.25	261.61
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	224.27	
		<i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	2.10	
26 05 33 13-0022	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,078.64	280.99
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	240.88	
		<i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	3.16	
26 05 33 13-0023	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,155.04	300.36
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	257.48	
26 05 33 13-0024	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,231.42	319.72
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	274.08	
		<i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>	5.26	
26 05 33 13-0025	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,051.06	271.30
		Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	232.57	
		<i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	3.15	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0026	CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....		1,147.25	293.90
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		251.94	
	<i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>		4.73	
26 05 33 13-0027	CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....		1,243.44	316.49
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		271.32	
	<i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>		6.31	
26 05 33 13-0028	CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....		1,339.62	339.09
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		290.69	
	<i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>		7.89	
26 05 33 13-0029	CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor.....		1,301.86	319.72
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		274.08	
	<i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>		8.25	
26 05 33 13-0030	CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor.....		1,506.93	345.55
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		296.22	
	<i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>		13.65	
26 05 33 13-0031	CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor.....		1,699.38	381.07
	Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		326.66	
	<i>For 4 #6 THWN Conductor Instead Of THHN, Add</i>		18.20	
26 05 33 13-0032	Rigid Galvanized Steel (RGS) Conduit Assemblies <small>(26 05 33 13-0001)</small>			
	Note: Includes conduit, field bends, terminations, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0240 for larger copper conductor, 26 05 33 13-0059 for larger RGS conduit.			
26 05 33 13-0033	CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....		1,043.85	256.63
	Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		219.95	
	<i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>		2.10	
26 05 33 13-0034	CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....		1,120.23	276.00
	Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		236.56	
	<i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>		3.16	
26 05 33 13-0035	CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....		1,092.66	266.31
	Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		228.26	
	<i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>		3.15	
26 05 33 13-0036	CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....		1,188.85	288.92
	Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		247.63	
	<i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>		4.73	
26 05 33 13-0037	CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor.....		1,205.40	285.69
	Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		244.86	
	<i>For 2 #8 THWN Conductor Instead Of THHN, Add</i>		5.50	
26 05 33 13-0038	CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....		1,150.52	273.69
	Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		234.56	
	<i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>		2.10	
26 05 33 13-0039	CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....		1,226.91	293.06
	Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		251.17	
	<i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>		3.16	
26 05 33 13-0040	CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....		1,303.31	312.44
	Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		267.77	
26 05 33 13-0041	CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....		1,199.34	283.38
	Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.			
	<i>For Work In Restricted Working Space, Add</i>		242.87	
	<i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>		3.15	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0042 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,295.52	305.98
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	262.24	
For 3 #10 THWN Conductor Instead Of THHN, Add	4.73	
26 05 33 13-0043 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,391.71	328.58
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	281.61	
For 4 #10 THWN Conductor Instead Of THHN, Add	6.31	
26 05 33 13-0044 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor.....	1,450.13	331.81
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	284.38	
For 3 #8 THWN Conductor Instead Of THHN, Add	8.25	
26 05 33 13-0045 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor.....	1,588.17	360.87
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	309.28	
For 4 #8 THWN Conductor Instead Of THHN, Add	11.01	
26 05 33 13-0046 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor.....	1,462.76	322.12
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	276.08	
For 2 #6 THWN Conductor Instead Of THHN, Add	9.10	
26 05 33 13-0047 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor.....	1,655.20	357.64
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	306.52	
For 3 #6 THWN Conductor Instead Of THHN, Add	13.65	
26 05 33 13-0048 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,490.64	326.83
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	280.14	
For 3 #12 THWN Conductor Instead Of THHN, Add	3.16	
26 05 33 13-0049 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,567.03	346.21
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	296.75	
26 05 33 13-0050 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,643.42	365.57
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	313.35	
For 5 #12 THWN Conductor Instead Of THHN, Add	5.26	
26 05 33 13-0051 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,559.25	339.75
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	291.21	
For 3 #10 THWN Conductor Instead Of THHN, Add	4.73	
26 05 33 13-0052 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,655.45	362.34
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	310.59	
For 4 #10 THWN Conductor Instead Of THHN, Add	6.31	
26 05 33 13-0053 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,751.62	384.94
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	329.96	
For 5 #10 THWN Conductor Instead Of THHN, Add	7.89	
26 05 33 13-0054 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor.....	1,713.85	365.57
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	313.35	
For 3 #8 THWN Conductor Instead Of THHN, Add	8.25	
26 05 33 13-0055 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor.....	1,918.94	391.40
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	335.49	
For 3 #6 THWN Conductor Instead Of THHN, Add	13.65	
26 05 33 13-0056 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor.....	2,111.39	426.92
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	365.93	
For 4 #6 THWN Conductor Instead Of THHN, Add	18.20	
26 05 33 13-0057 Conduit ^(26 05 33 13)		
Note: Where 4-1/2" conduit is required, use tasks for 5" conduit. Add couplings as required at each fitting.		
26 05 33 13-0058 Conduit Installed Above Grade ^(26 05 33 13-0057)		
See CSI section 26 05 29 00-0000 for supporting strap, hanger and fastening.		
26 05 33 13-0059 Rigid Galvanized Steel (RGS) Or Galvanized Rigid Steel Conduit (GRC) Conduit ^(26 05 33 13-0058)		
Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0060 Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling <small>(26 05 33 13-0059)</small>		
<i>Note: Includes field bending for conduit up to 1".</i>		
26 05 33 13-0061 LF 1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling.....	7.47	2.03
<i>For >250 To 500, Deduct</i>	-0.12	
<i>For >500 To 1,000, Deduct</i>	-0.43	
<i>For >1,000, Deduct</i>	-0.62	
<i>For Installation In Metal Stud Wall, Add</i>	0.51	
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.27	
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.76	
<i>For Work In Restricted Working Space, Add</i>	1.52	
<i>For Elevated Installation >10' To 15', Add</i>	0.51	
<i>For Elevated Installation >15' To 20', Add</i>	1.02	
<i>For Elevated Installation >20' To 25', Add</i>	1.27	
<i>For Elevated Installation >25' To 30', Add</i>	1.78	
<i>For Elevated Installation >30' To 35', Add</i>	2.03	
<i>For Elevated Installation >35' To 40', Add</i>	2.54	
<i>For Elevated Installation >40', Add</i>	2.79	
26 05 33 13-0062 LF 3/4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling.....	8.48	2.22
<i>For >250 To 500, Deduct</i>	-0.15	
<i>For >500 To 1,000, Deduct</i>	-0.50	
<i>For >1,000, Deduct</i>	-0.71	
<i>For Installation In Metal Stud Wall, Add</i>	0.55	
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.39	
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.83	
<i>For Work In Restricted Working Space, Add</i>	1.66	
<i>For Elevated Installation >10' To 15', Add</i>	0.55	
<i>For Elevated Installation >15' To 20', Add</i>	1.11	
<i>For Elevated Installation >20' To 25', Add</i>	1.39	
<i>For Elevated Installation >25' To 30', Add</i>	1.94	
<i>For Elevated Installation >30' To 35', Add</i>	2.22	
<i>For Elevated Installation >35' To 40', Add</i>	2.77	
<i>For Elevated Installation >40', Add</i>	3.05	
26 05 33 13-0063 LF 1" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling.....	11.01	2.59
<i>For >250 To 500, Deduct</i>	-0.23	
<i>For >500 To 1,000, Deduct</i>	-0.66	
<i>For >1,000, Deduct</i>	-0.94	
<i>For Installation In Metal Stud Wall, Add</i>	0.65	
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.62	
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.97	
<i>For Work In Restricted Working Space, Add</i>	1.94	
<i>For Elevated Installation >10' To 15', Add</i>	0.65	
<i>For Elevated Installation >15' To 20', Add</i>	1.29	
<i>For Elevated Installation >20' To 25', Add</i>	1.62	
<i>For Elevated Installation >25' To 30', Add</i>	2.26	
<i>For Elevated Installation >30' To 35', Add</i>	2.58	
<i>For Elevated Installation >35' To 40', Add</i>	3.23	
<i>For Elevated Installation >40', Add</i>	3.55	
26 05 33 13-0064 LF 1-1/4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	13.45	2.95
<i>For >250 To 500, Deduct</i>	-0.30	
<i>For >500 To 1,000, Deduct</i>	-0.82	
<i>For >1,000, Deduct</i>	-1.16	
<i>For Installation In Metal Stud Wall, Add</i>	0.74	
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.85	
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.11	
<i>For Work In Restricted Working Space, Add</i>	2.21	
<i>For Elevated Installation >10' To 15', Add</i>	0.74	
<i>For Elevated Installation >15' To 20', Add</i>	1.48	
<i>For Elevated Installation >20' To 25', Add</i>	1.85	
<i>For Elevated Installation >25' To 30', Add</i>	2.58	
<i>For Elevated Installation >30' To 35', Add</i>	2.95	
<i>For Elevated Installation >35' To 40', Add</i>	3.69	
<i>For Elevated Installation >40', Add</i>	4.06	
26 05 33 13-0065 LF 1-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	15.75	3.32
<i>For >250 To 500, Deduct</i>	-0.37	
<i>For >500 To 1,000, Deduct</i>	-0.97	
<i>For >1,000, Deduct</i>	-1.37	
<i>For Installation In Metal Stud Wall, Add</i>	0.83	
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	2.08	
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.25	
<i>For Work In Restricted Working Space, Add</i>	2.49	
<i>For Elevated Installation >10' To 15', Add</i>	0.83	
<i>For Elevated Installation >15' To 20', Add</i>	1.66	
<i>For Elevated Installation >20' To 25', Add</i>	2.08	
<i>For Elevated Installation >25' To 30', Add</i>	2.91	
<i>For Elevated Installation >30' To 35', Add</i>	3.32	
<i>For Elevated Installation >35' To 40', Add</i>	4.16	
<i>For Elevated Installation >40', Add</i>	4.57	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0066 LF 2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling.....	20.09	4.06
For >250 To 500, Deduct	-0.50	
For >500 To 1,000, Deduct	-1.25	
For >1,000, Deduct	-1.76	
For Installation In Metal Stud Wall, Add	1.02	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.54	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.52	
For Work In Restricted Working Space, Add	3.05	
For Elevated Installation >10' To 15', Add	1.02	
For Elevated Installation >15' To 20', Add	2.03	
For Elevated Installation >20' To 25', Add	2.54	
For Elevated Installation >25' To 30', Add	3.55	
For Elevated Installation >30' To 35', Add	4.06	
For Elevated Installation >35' To 40', Add	5.08	
For Elevated Installation >40', Add	5.58	
26 05 33 13-0067 LF 2-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	30.31	5.54
For >250 To 500, Deduct	-0.82	
For >500 To 1,000, Deduct	-1.93	
For >1,000, Deduct	-2.69	
For Installation In Metal Stud Wall, Add	1.38	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.46	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.07	
For Work In Restricted Working Space, Add	4.15	
For Elevated Installation >10' To 15', Add	1.38	
For Elevated Installation >15' To 20', Add	2.77	
For Elevated Installation >20' To 25', Add	3.46	
For Elevated Installation >25' To 30', Add	4.84	
For Elevated Installation >30' To 35', Add	5.53	
For Elevated Installation >35' To 40', Add	6.92	
For Elevated Installation >40', Add	7.61	
26 05 33 13-0068 LF 3" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling.....	39.42	7.38
For >250 To 500, Deduct	-1.05	
For >500 To 1,000, Deduct	-2.50	
For >1,000, Deduct	-3.48	
For Installation In Metal Stud Wall, Add	1.85	
For Installation In Wood Stud Wall (Includes Drilling), Add	4.61	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.77	
For Work In Restricted Working Space, Add	5.54	
For Elevated Installation >10' To 15', Add	1.85	
For Elevated Installation >15' To 20', Add	3.69	
For Elevated Installation >20' To 25', Add	4.61	
For Elevated Installation >25' To 30', Add	6.46	
For Elevated Installation >30' To 35', Add	7.38	
For Elevated Installation >35' To 40', Add	9.23	
For Elevated Installation >40', Add	10.15	
26 05 33 13-0069 LF 3-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	48.65	9.23
For >250 To 500, Deduct	-1.28	
For >500 To 1,000, Deduct	-3.07	
For >1,000, Deduct	-4.29	
For Installation In Metal Stud Wall, Add	2.31	
For Installation In Wood Stud Wall (Includes Drilling), Add	5.77	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	3.46	
For Work In Restricted Working Space, Add	6.92	
For Elevated Installation >10' To 15', Add	2.31	
For Elevated Installation >15' To 20', Add	4.61	
For Elevated Installation >20' To 25', Add	5.77	
For Elevated Installation >25' To 30', Add	8.07	
For Elevated Installation >30' To 35', Add	9.22	
For Elevated Installation >35' To 40', Add	11.53	
For Elevated Installation >40', Add	12.68	
26 05 33 13-0070 LF 4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling.....	57.44	11.07
For >250 To 500, Deduct	-1.49	
For >500 To 1,000, Deduct	-3.62	
For >1,000, Deduct	-5.05	
For Installation In Metal Stud Wall, Add	2.77	
For Installation In Wood Stud Wall (Includes Drilling), Add	6.92	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	4.15	
For Work In Restricted Working Space, Add	8.30	
For Elevated Installation >10' To 15', Add	2.77	
For Elevated Installation >15' To 20', Add	5.53	
For Elevated Installation >20' To 25', Add	6.92	
For Elevated Installation >25' To 30', Add	9.68	
For Elevated Installation >30' To 35', Add	11.07	
For Elevated Installation >35' To 40', Add	13.84	
For Elevated Installation >40', Add	15.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0071 LF 5" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling.....	95.41	14.02
For >250 To 500, Deduct	-3.02	
For >500 To 1,000, Deduct	-6.28	
For >1,000, Deduct	-8.66	
For Installation In Metal Stud Wall, Add	3.51	
For Installation In Wood Stud Wall (Includes Drilling), Add	8.77	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	5.26	
For Work In Restricted Working Space, Add	10.52	
For Elevated Installation >10' To 15', Add	3.51	
For Elevated Installation >15' To 20', Add	7.01	
For Elevated Installation >20' To 25', Add	8.77	
For Elevated Installation >25' To 30', Add	12.27	
For Elevated Installation >30' To 35', Add	14.02	
For Elevated Installation >35' To 40', Add	17.53	
For Elevated Installation >40', Add	19.28	
26 05 33 13-0072 LF 6" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling.....	129.11	17.71
For >250 To 500, Deduct	-4.24	
For >500 To 1,000, Deduct	-8.58	
For >1,000, Deduct	-11.80	
For Installation In Metal Stud Wall, Add	4.43	
For Installation In Wood Stud Wall (Includes Drilling), Add	11.07	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	6.64	
For Work In Restricted Working Space, Add	13.28	
For Elevated Installation >10' To 15', Add	4.43	
For Elevated Installation >15' To 20', Add	8.86	
For Elevated Installation >20' To 25', Add	11.07	
For Elevated Installation >25' To 30', Add	15.50	
For Elevated Installation >30' To 35', Add	17.71	
For Elevated Installation >35' To 40', Add	22.14	
For Elevated Installation >40', Add	24.35	
26 05 33 13-0073 Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow (26 05 33 13-0059)		
See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0074 EA 2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	69.87	20.38
For Work In Restricted Working Space, Add	15.28	
For Elevated Installation >10' To 15', Add	5.09	
For Elevated Installation >15' To 20', Add	10.18	
For Elevated Installation >20' To 25', Add	12.73	
For Elevated Installation >25' To 30', Add	17.82	
For Elevated Installation >30' To 35', Add	20.37	
For Elevated Installation >35' To 40', Add	25.46	
For Elevated Installation >40', Add	28.01	
26 05 33 13-0075 EA 2-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	97.41	25.46
For Work In Restricted Working Space, Add	19.09	
For Elevated Installation >10' To 15', Add	6.36	
For Elevated Installation >15' To 20', Add	12.73	
For Elevated Installation >20' To 25', Add	15.91	
For Elevated Installation >25' To 30', Add	22.27	
For Elevated Installation >30' To 35', Add	25.46	
For Elevated Installation >35' To 40', Add	31.82	
For Elevated Installation >40', Add	35.00	
26 05 33 13-0076 EA 3" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	136.98	34.69
For Work In Restricted Working Space, Add	26.01	
For Elevated Installation >10' To 15', Add	8.67	
For Elevated Installation >15' To 20', Add	17.34	
For Elevated Installation >20' To 25', Add	21.68	
For Elevated Installation >25' To 30', Add	30.35	
For Elevated Installation >30' To 35', Add	34.68	
For Elevated Installation >35' To 40', Add	43.35	
For Elevated Installation >40', Add	47.69	
26 05 33 13-0077 EA 3-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	176.39	39.11
For Work In Restricted Working Space, Add	29.34	
For Elevated Installation >10' To 15', Add	9.78	
For Elevated Installation >15' To 20', Add	19.56	
For Elevated Installation >20' To 25', Add	24.45	
For Elevated Installation >25' To 30', Add	34.23	
For Elevated Installation >30' To 35', Add	39.12	
For Elevated Installation >35' To 40', Add	48.90	
For Elevated Installation >40', Add	53.78	
26 05 33 13-0078 EA 4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	217.86	50.92
For Work In Restricted Working Space, Add	38.18	
For Elevated Installation >10' To 15', Add	12.73	
For Elevated Installation >15' To 20', Add	25.46	
For Elevated Installation >20' To 25', Add	31.82	
For Elevated Installation >25' To 30', Add	44.55	
For Elevated Installation >30' To 35', Add	50.91	
For Elevated Installation >35' To 40', Add	63.64	
For Elevated Installation >40', Add	70.00	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0079 EA 5" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....356.19		83.02
For Work In Restricted Working Space, Add	62.27	
For Elevated Installation >10' To 15', Add	20.76	
For Elevated Installation >15' To 20', Add	41.51	
For Elevated Installation >20' To 25', Add	51.89	
For Elevated Installation >25' To 30', Add	72.65	
For Elevated Installation >30' To 35', Add	83.02	
For Elevated Installation >35' To 40', Add	103.78	
For Elevated Installation >40', Add	114.16	
26 05 33 13-0080 EA 6" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....535.42		124.72
For Work In Restricted Working Space, Add	93.53	
For Elevated Installation >10' To 15', Add	31.18	
For Elevated Installation >15' To 20', Add	62.35	
For Elevated Installation >20' To 25', Add	77.94	
For Elevated Installation >25' To 30', Add	109.12	
For Elevated Installation >30' To 35', Add	124.71	
For Elevated Installation >35' To 40', Add	155.89	
For Elevated Installation >40', Add	171.47	
26 05 33 13-0081 Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow (26 05 33 13-0059)		
See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0082 EA 1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....26.23		9.13
For Work In Restricted Working Space, Add	6.87	
For Elevated Installation >10' To 15', Add	2.29	
For Elevated Installation >15' To 20', Add	4.58	
For Elevated Installation >20' To 25', Add	5.73	
For Elevated Installation >25' To 30', Add	8.02	
For Elevated Installation >30' To 35', Add	9.16	
For Elevated Installation >35' To 40', Add	11.45	
For Elevated Installation >40', Add	12.60	
26 05 33 13-0083 EA 3/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....32.87		11.34
For Work In Restricted Working Space, Add	8.54	
For Elevated Installation >10' To 15', Add	2.85	
For Elevated Installation >15' To 20', Add	5.70	
For Elevated Installation >20' To 25', Add	7.12	
For Elevated Installation >25' To 30', Add	9.97	
For Elevated Installation >30' To 35', Add	11.39	
For Elevated Installation >35' To 40', Add	14.24	
For Elevated Installation >40', Add	15.66	
26 05 33 13-0084 EA 1" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....41.49		13.93
For Work In Restricted Working Space, Add	10.42	
For Elevated Installation >10' To 15', Add	3.47	
For Elevated Installation >15' To 20', Add	6.95	
For Elevated Installation >20' To 25', Add	8.68	
For Elevated Installation >25' To 30', Add	12.16	
For Elevated Installation >30' To 35', Add	13.89	
For Elevated Installation >35' To 40', Add	17.37	
For Elevated Installation >40', Add	19.10	
26 05 33 13-0085 EA 1-1/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....51.88		16.14
For Work In Restricted Working Space, Add	12.10	
For Elevated Installation >10' To 15', Add	4.03	
For Elevated Installation >15' To 20', Add	8.06	
For Elevated Installation >20' To 25', Add	10.08	
For Elevated Installation >25' To 30', Add	14.11	
For Elevated Installation >30' To 35', Add	16.13	
For Elevated Installation >35' To 40', Add	20.16	
For Elevated Installation >40', Add	22.18	
26 05 33 13-0086 EA 1-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....60.07		18.54
For Work In Restricted Working Space, Add	13.88	
For Elevated Installation >10' To 15', Add	4.63	
For Elevated Installation >15' To 20', Add	9.26	
For Elevated Installation >20' To 25', Add	11.57	
For Elevated Installation >25' To 30', Add	16.20	
For Elevated Installation >30' To 35', Add	18.51	
For Elevated Installation >35' To 40', Add	23.14	
For Elevated Installation >40', Add	25.45	
26 05 33 13-0087 EA 2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....69.87		20.38
For Work In Restricted Working Space, Add	15.28	
For Elevated Installation >10' To 15', Add	5.09	
For Elevated Installation >15' To 20', Add	10.18	
For Elevated Installation >20' To 25', Add	12.73	
For Elevated Installation >25' To 30', Add	17.82	
For Elevated Installation >30' To 35', Add	20.37	
For Elevated Installation >35' To 40', Add	25.46	
For Elevated Installation >40', Add	28.01	
26 05 33 13-0088 EA 2-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....96.04		25.46
For Work In Restricted Working Space, Add	19.09	
For Elevated Installation >10' To 15', Add	6.36	
For Elevated Installation >15' To 20', Add	12.73	
For Elevated Installation >20' To 25', Add	15.91	
For Elevated Installation >25' To 30', Add	22.27	
For Elevated Installation >30' To 35', Add	25.46	
For Elevated Installation >35' To 40', Add	31.82	
For Elevated Installation >40', Add	35.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0089 EA 3" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	131.64	34.69
For Work In Restricted Working Space, Add	26.01	
For Elevated Installation >10' To 15', Add	8.67	
For Elevated Installation >15' To 20', Add	17.34	
For Elevated Installation >20' To 25', Add	21.68	
For Elevated Installation >25' To 30', Add	30.35	
For Elevated Installation >30' To 35', Add	34.68	
For Elevated Installation >35' To 40', Add	43.35	
For Elevated Installation >40', Add	47.69	
26 05 33 13-0090 EA 3-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	168.89	39.11
For Work In Restricted Working Space, Add	29.34	
For Elevated Installation >10' To 15', Add	9.78	
For Elevated Installation >15' To 20', Add	19.56	
For Elevated Installation >20' To 25', Add	24.45	
For Elevated Installation >25' To 30', Add	34.23	
For Elevated Installation >30' To 35', Add	39.12	
For Elevated Installation >35' To 40', Add	48.90	
For Elevated Installation >40', Add	53.79	
26 05 33 13-0091 EA 4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	207.88	50.92
For Work In Restricted Working Space, Add	38.18	
For Elevated Installation >10' To 15', Add	12.73	
For Elevated Installation >15' To 20', Add	25.46	
For Elevated Installation >20' To 25', Add	31.82	
For Elevated Installation >25' To 30', Add	44.55	
For Elevated Installation >30' To 35', Add	50.91	
For Elevated Installation >35' To 40', Add	63.64	
For Elevated Installation >40', Add	70.00	
26 05 33 13-0092 EA 5" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	356.19	83.02
For Work In Restricted Working Space, Add	62.27	
For Elevated Installation >10' To 15', Add	20.76	
For Elevated Installation >15' To 20', Add	41.51	
For Elevated Installation >20' To 25', Add	51.89	
For Elevated Installation >25' To 30', Add	72.65	
For Elevated Installation >30' To 35', Add	83.02	
For Elevated Installation >35' To 40', Add	103.78	
For Elevated Installation >40', Add	114.16	
26 05 33 13-0093 EA 6" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	535.42	124.72
For Work In Restricted Working Space, Add	93.53	
For Elevated Installation >10' To 15', Add	31.18	
For Elevated Installation >15' To 20', Add	62.35	
For Elevated Installation >20' To 25', Add	77.94	
For Elevated Installation >25' To 30', Add	109.12	
For Elevated Installation >30' To 35', Add	124.71	
For Elevated Installation >35' To 40', Add	155.89	
For Elevated Installation >40', Add	171.47	
26 05 33 13-0094 Rigid Galvanized Steel (RGS) 12" Large Radius Elbow <small>(26 05 33 13-0095)</small>		
See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0095 EA 1" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	61.67	22.79
For Work In Restricted Working Space, Add	13.67	
For Elevated Installation >10' To 15', Add	4.56	
For Elevated Installation >15' To 20', Add	9.11	
For Elevated Installation >20' To 25', Add	11.39	
For Elevated Installation >25' To 30', Add	15.95	
For Elevated Installation >30' To 35', Add	18.23	
For Elevated Installation >35' To 40', Add	22.79	
For Elevated Installation >40', Add	25.06	
26 05 33 13-0096 EA 1-1/4" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	71.13	26.38
For Work In Restricted Working Space, Add	15.83	
For Elevated Installation >10' To 15', Add	5.28	
For Elevated Installation >15' To 20', Add	10.55	
For Elevated Installation >20' To 25', Add	13.19	
For Elevated Installation >25' To 30', Add	18.47	
For Elevated Installation >30' To 35', Add	21.10	
For Elevated Installation >35' To 40', Add	26.38	
For Elevated Installation >40', Add	29.02	
26 05 33 13-0097 EA 1-1/2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	81.97	29.98
For Work In Restricted Working Space, Add	17.99	
For Elevated Installation >10' To 15', Add	6.00	
For Elevated Installation >15' To 20', Add	11.99	
For Elevated Installation >20' To 25', Add	14.99	
For Elevated Installation >25' To 30', Add	20.99	
For Elevated Installation >30' To 35', Add	23.98	
For Elevated Installation >35' To 40', Add	29.98	
For Elevated Installation >40', Add	32.98	
26 05 33 13-0098 EA 2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	91.89	32.98
For Work In Restricted Working Space, Add	19.79	
For Elevated Installation >10' To 15', Add	6.60	
For Elevated Installation >15' To 20', Add	13.19	
For Elevated Installation >20' To 25', Add	16.49	
For Elevated Installation >25' To 30', Add	23.09	
For Elevated Installation >30' To 35', Add	26.38	
For Elevated Installation >35' To 40', Add	32.98	
For Elevated Installation >40', Add	36.28	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0099			Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <small>(26 05 33 13-0059)</small>		
			See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0100	EA		1" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow .....65.84	22.79	
			<i>For Work In Restricted Working Space, Add</i> 13.67		
			<i>For Elevated Installation >10' To 15', Add</i> 4.56		
			<i>For Elevated Installation >15' To 20', Add</i> 9.11		
			<i>For Elevated Installation >20' To 25', Add</i> 11.39		
			<i>For Elevated Installation >25' To 30', Add</i> 15.95		
			<i>For Elevated Installation >30' To 35', Add</i> 18.23		
			<i>For Elevated Installation >35' To 40', Add</i> 22.79		
			<i>For Elevated Installation >40', Add</i> 25.06		
26 05 33 13-0101	EA		1-1/4" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow .....76.50	26.38	
			<i>For Work In Restricted Working Space, Add</i> 15.83		
			<i>For Elevated Installation >10' To 15', Add</i> 5.28		
			<i>For Elevated Installation >15' To 20', Add</i> 10.55		
			<i>For Elevated Installation >20' To 25', Add</i> 13.19		
			<i>For Elevated Installation >25' To 30', Add</i> 18.47		
			<i>For Elevated Installation >30' To 35', Add</i> 21.10		
			<i>For Elevated Installation >35' To 40', Add</i> 26.38		
			<i>For Elevated Installation >40', Add</i> 29.02		
26 05 33 13-0102	EA		1-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow .....84.42	29.98	
			<i>For Work In Restricted Working Space, Add</i> 17.99		
			<i>For Elevated Installation >10' To 15', Add</i> 6.00		
			<i>For Elevated Installation >15' To 20', Add</i> 11.99		
			<i>For Elevated Installation >20' To 25', Add</i> 14.99		
			<i>For Elevated Installation >25' To 30', Add</i> 20.99		
			<i>For Elevated Installation >30' To 35', Add</i> 23.98		
			<i>For Elevated Installation >35' To 40', Add</i> 29.98		
			<i>For Elevated Installation >40', Add</i> 32.98		
26 05 33 13-0103	EA		2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow .....94.63	32.98	
			<i>For Work In Restricted Working Space, Add</i> 19.79		
			<i>For Elevated Installation >10' To 15', Add</i> 6.60		
			<i>For Elevated Installation >15' To 20', Add</i> 13.19		
			<i>For Elevated Installation >20' To 25', Add</i> 16.49		
			<i>For Elevated Installation >25' To 30', Add</i> 23.09		
			<i>For Elevated Installation >30' To 35', Add</i> 26.38		
			<i>For Elevated Installation >35' To 40', Add</i> 32.98		
			<i>For Elevated Installation >40', Add</i> 36.28		
26 05 33 13-0104	EA		2-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow .....124.34	41.38	
			<i>For Work In Restricted Working Space, Add</i> 24.82		
			<i>For Elevated Installation >10' To 15', Add</i> 8.27		
			<i>For Elevated Installation >15' To 20', Add</i> 16.55		
			<i>For Elevated Installation >20' To 25', Add</i> 20.69		
			<i>For Elevated Installation >25' To 30', Add</i> 28.96		
			<i>For Elevated Installation >30' To 35', Add</i> 33.10		
			<i>For Elevated Installation >35' To 40', Add</i> 41.37		
			<i>For Elevated Installation >40', Add</i> 45.51		
26 05 33 13-0105	EA		3" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow .....167.74	56.36	
			<i>For Work In Restricted Working Space, Add</i> 33.82		
			<i>For Elevated Installation >10' To 15', Add</i> 11.27		
			<i>For Elevated Installation >15' To 20', Add</i> 22.54		
			<i>For Elevated Installation >20' To 25', Add</i> 28.18		
			<i>For Elevated Installation >25' To 30', Add</i> 39.45		
			<i>For Elevated Installation >30' To 35', Add</i> 45.09		
			<i>For Elevated Installation >35' To 40', Add</i> 56.36		
			<i>For Elevated Installation >40', Add</i> 62.00		
26 05 33 13-0106			Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <small>(26 05 33 13-0059)</small>		
			See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0107	EA		1" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow .....66.04	22.79	
			<i>For Work In Restricted Working Space, Add</i> 13.67		
			<i>For Elevated Installation >10' To 15', Add</i> 4.56		
			<i>For Elevated Installation >15' To 20', Add</i> 9.11		
			<i>For Elevated Installation >20' To 25', Add</i> 11.39		
			<i>For Elevated Installation >25' To 30', Add</i> 15.95		
			<i>For Elevated Installation >30' To 35', Add</i> 18.23		
			<i>For Elevated Installation >35' To 40', Add</i> 22.79		
			<i>For Elevated Installation >40', Add</i> 25.06		
26 05 33 13-0108	EA		1-1/4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow .....75.97	26.38	
			<i>For Work In Restricted Working Space, Add</i> 15.83		
			<i>For Elevated Installation >10' To 15', Add</i> 5.28		
			<i>For Elevated Installation >15' To 20', Add</i> 10.55		
			<i>For Elevated Installation >20' To 25', Add</i> 13.19		
			<i>For Elevated Installation >25' To 30', Add</i> 18.47		
			<i>For Elevated Installation >30' To 35', Add</i> 21.10		
			<i>For Elevated Installation >35' To 40', Add</i> 26.38		
			<i>For Elevated Installation >40', Add</i> 29.02		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0109 EA 1-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	87.06	29.98
For Work In Restricted Working Space, Add	17.99	
For Elevated Installation >10' To 15', Add	6.00	
For Elevated Installation >15' To 20', Add	11.99	
For Elevated Installation >20' To 25', Add	14.99	
For Elevated Installation >25' To 30', Add	20.99	
For Elevated Installation >30' To 35', Add	23.98	
For Elevated Installation >35' To 40', Add	29.98	
For Elevated Installation >40', Add	32.98	
26 05 33 13-0110 EA 2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	100.54	32.98
For Work In Restricted Working Space, Add	19.79	
For Elevated Installation >10' To 15', Add	6.60	
For Elevated Installation >15' To 20', Add	13.19	
For Elevated Installation >20' To 25', Add	16.49	
For Elevated Installation >25' To 30', Add	23.09	
For Elevated Installation >30' To 35', Add	26.38	
For Elevated Installation >35' To 40', Add	32.98	
For Elevated Installation >40', Add	36.28	
26 05 33 13-0111 EA 2-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	129.85	41.38
For Work In Restricted Working Space, Add	24.82	
For Elevated Installation >10' To 15', Add	8.27	
For Elevated Installation >15' To 20', Add	16.55	
For Elevated Installation >20' To 25', Add	20.69	
For Elevated Installation >25' To 30', Add	28.96	
For Elevated Installation >30' To 35', Add	33.10	
For Elevated Installation >35' To 40', Add	41.37	
For Elevated Installation >40', Add	45.51	
26 05 33 13-0112 EA 3" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	172.18	56.36
For Work In Restricted Working Space, Add	33.82	
For Elevated Installation >10' To 15', Add	11.27	
For Elevated Installation >15' To 20', Add	22.54	
For Elevated Installation >20' To 25', Add	28.18	
For Elevated Installation >25' To 30', Add	39.45	
For Elevated Installation >30' To 35', Add	45.09	
For Elevated Installation >35' To 40', Add	56.36	
For Elevated Installation >40', Add	62.00	
26 05 33 13-0113 EA 3-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	211.17	63.55
For Work In Restricted Working Space, Add	38.14	
For Elevated Installation >10' To 15', Add	12.71	
For Elevated Installation >15' To 20', Add	25.42	
For Elevated Installation >20' To 25', Add	31.78	
For Elevated Installation >25' To 30', Add	44.49	
For Elevated Installation >30' To 35', Add	50.85	
For Elevated Installation >35' To 40', Add	63.56	
For Elevated Installation >40', Add	69.92	
26 05 33 13-0114 EA 4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	259.41	82.74
For Work In Restricted Working Space, Add	49.65	
For Elevated Installation >10' To 15', Add	16.55	
For Elevated Installation >15' To 20', Add	33.10	
For Elevated Installation >20' To 25', Add	41.37	
For Elevated Installation >25' To 30', Add	57.92	
For Elevated Installation >30' To 35', Add	66.20	
For Elevated Installation >35' To 40', Add	82.75	
For Elevated Installation >40', Add	91.02	
26 05 33 13-0115 Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0116 EA 1" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	72.69	22.79
For Work In Restricted Working Space, Add	13.67	
For Elevated Installation >10' To 15', Add	4.56	
For Elevated Installation >15' To 20', Add	9.11	
For Elevated Installation >20' To 25', Add	11.39	
For Elevated Installation >25' To 30', Add	15.95	
For Elevated Installation >30' To 35', Add	18.23	
For Elevated Installation >35' To 40', Add	22.79	
For Elevated Installation >40', Add	25.06	
26 05 33 13-0117 EA 1-1/4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	82.50	26.38
For Work In Restricted Working Space, Add	15.83	
For Elevated Installation >10' To 15', Add	5.28	
For Elevated Installation >15' To 20', Add	10.55	
For Elevated Installation >20' To 25', Add	13.19	
For Elevated Installation >25' To 30', Add	18.47	
For Elevated Installation >30' To 35', Add	21.10	
For Elevated Installation >35' To 40', Add	26.38	
For Elevated Installation >40', Add	29.02	
26 05 33 13-0118 EA 1-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	91.95	29.98
For Work In Restricted Working Space, Add	17.99	
For Elevated Installation >10' To 15', Add	6.00	
For Elevated Installation >15' To 20', Add	11.99	
For Elevated Installation >20' To 25', Add	14.99	
For Elevated Installation >25' To 30', Add	20.99	
For Elevated Installation >30' To 35', Add	23.98	
For Elevated Installation >35' To 40', Add	29.98	
For Elevated Installation >40', Add	32.98	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0119 EA 2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	107.75	32.98
For Work In Restricted Working Space, Add	19.79	
For Elevated Installation >10' To 15', Add	6.60	
For Elevated Installation >15' To 20', Add	13.19	
For Elevated Installation >20' To 25', Add	16.49	
For Elevated Installation >25' To 30', Add	23.09	
For Elevated Installation >30' To 35', Add	26.38	
For Elevated Installation >35' To 40', Add	32.98	
For Elevated Installation >40', Add	36.28	
26 05 33 13-0120 EA 2-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	139.69	41.38
For Work In Restricted Working Space, Add	24.82	
For Elevated Installation >10' To 15', Add	8.27	
For Elevated Installation >15' To 20', Add	16.55	
For Elevated Installation >20' To 25', Add	20.69	
For Elevated Installation >25' To 30', Add	28.96	
For Elevated Installation >30' To 35', Add	33.10	
For Elevated Installation >35' To 40', Add	41.37	
For Elevated Installation >40', Add	45.51	
26 05 33 13-0121 EA 3" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	187.60	56.36
For Work In Restricted Working Space, Add	33.82	
For Elevated Installation >10' To 15', Add	11.27	
For Elevated Installation >15' To 20', Add	22.54	
For Elevated Installation >20' To 25', Add	28.18	
For Elevated Installation >25' To 30', Add	39.45	
For Elevated Installation >30' To 35', Add	45.09	
For Elevated Installation >35' To 40', Add	56.36	
For Elevated Installation >40', Add	62.00	
26 05 33 13-0122 EA 3-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	226.16	63.55
For Work In Restricted Working Space, Add	38.14	
For Elevated Installation >10' To 15', Add	12.71	
For Elevated Installation >15' To 20', Add	25.42	
For Elevated Installation >20' To 25', Add	31.78	
For Elevated Installation >25' To 30', Add	44.49	
For Elevated Installation >30' To 35', Add	50.85	
For Elevated Installation >35' To 40', Add	63.56	
For Elevated Installation >40', Add	69.92	
26 05 33 13-0123 EA 4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	271.36	82.74
For Work In Restricted Working Space, Add	49.65	
For Elevated Installation >10' To 15', Add	16.55	
For Elevated Installation >15' To 20', Add	33.10	
For Elevated Installation >20' To 25', Add	41.37	
For Elevated Installation >25' To 30', Add	57.92	
For Elevated Installation >30' To 35', Add	66.20	
For Elevated Installation >35' To 40', Add	82.75	
For Elevated Installation >40', Add	91.02	
26 05 33 13-0124 Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0125 EA 1" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	72.29	22.79
For Work In Restricted Working Space, Add	13.67	
For Elevated Installation >10' To 15', Add	4.56	
For Elevated Installation >15' To 20', Add	9.11	
For Elevated Installation >20' To 25', Add	11.39	
For Elevated Installation >25' To 30', Add	15.95	
For Elevated Installation >30' To 35', Add	18.23	
For Elevated Installation >35' To 40', Add	22.79	
For Elevated Installation >40', Add	25.06	
26 05 33 13-0126 EA 1-1/4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	87.36	26.38
For Work In Restricted Working Space, Add	15.83	
For Elevated Installation >10' To 15', Add	5.28	
For Elevated Installation >15' To 20', Add	10.55	
For Elevated Installation >20' To 25', Add	13.19	
For Elevated Installation >25' To 30', Add	18.47	
For Elevated Installation >30' To 35', Add	21.10	
For Elevated Installation >35' To 40', Add	26.38	
For Elevated Installation >40', Add	29.02	
26 05 33 13-0127 EA 1-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	97.21	29.98
For Work In Restricted Working Space, Add	17.99	
For Elevated Installation >10' To 15', Add	6.00	
For Elevated Installation >15' To 20', Add	11.99	
For Elevated Installation >20' To 25', Add	14.99	
For Elevated Installation >25' To 30', Add	20.99	
For Elevated Installation >30' To 35', Add	23.98	
For Elevated Installation >35' To 40', Add	29.98	
For Elevated Installation >40', Add	32.98	
26 05 33 13-0128 EA 2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	114.62	32.98
For Work In Restricted Working Space, Add	19.79	
For Elevated Installation >10' To 15', Add	6.60	
For Elevated Installation >15' To 20', Add	13.19	
For Elevated Installation >20' To 25', Add	16.49	
For Elevated Installation >25' To 30', Add	23.09	
For Elevated Installation >30' To 35', Add	26.38	
For Elevated Installation >35' To 40', Add	32.98	
For Elevated Installation >40', Add	36.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0129 EA 2-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	149.12 24.82 8.27 16.55 20.69 28.96 33.10 41.37 45.51	41.38
26 05 33 13-0130 EA 3" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	199.77 33.82 11.27 22.54 28.18 39.45 45.09 56.36 62.00	56.36
26 05 33 13-0131 EA 3-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	240.98 38.14 12.71 25.42 31.78 44.49 50.85 63.56 69.92	63.55
26 05 33 13-0132 EA 4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	293.28 49.65 16.55 33.10 41.37 57.92 66.20 82.75 91.02	82.74
26 05 33 13-0133 EA 5" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	433.97 80.95 26.98 53.96 67.46 94.44 107.93 134.91 148.40	134.91
26 05 33 13-0134 Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <small>(26 05 33 13-0059)</small> See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0135 EA 1" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	75.85 13.67 4.56 9.11 11.39 15.95 18.23 22.79 25.06	22.79
26 05 33 13-0136 EA 1-1/4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	89.75 15.83 5.28 10.55 13.19 18.47 21.10 26.38 29.02	26.38
26 05 33 13-0137 EA 1-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	106.42 17.99 6.00 11.99 14.99 20.99 23.98 29.98 32.98	29.98
26 05 33 13-0138 EA 2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	119.99 19.79 6.60 13.19 16.49 23.09 26.38 32.98 36.28	32.98

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0139 EA 2-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	160.31	41.38
For Work In Restricted Working Space, Add	24.82	
For Elevated Installation >10' To 15', Add	8.27	
For Elevated Installation >15' To 20', Add	16.55	
For Elevated Installation >20' To 25', Add	20.69	
For Elevated Installation >25' To 30', Add	28.96	
For Elevated Installation >30' To 35', Add	33.10	
For Elevated Installation >35' To 40', Add	41.37	
For Elevated Installation >40', Add	45.51	
26 05 33 13-0140 EA 3" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	210.18	56.36
For Work In Restricted Working Space, Add	33.82	
For Elevated Installation >10' To 15', Add	11.27	
For Elevated Installation >15' To 20', Add	22.54	
For Elevated Installation >20' To 25', Add	28.18	
For Elevated Installation >25' To 30', Add	39.45	
For Elevated Installation >30' To 35', Add	45.09	
For Elevated Installation >35' To 40', Add	56.36	
For Elevated Installation >40', Add	62.00	
26 05 33 13-0141 EA 3-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	260.11	63.55
For Work In Restricted Working Space, Add	38.14	
For Elevated Installation >10' To 15', Add	12.71	
For Elevated Installation >15' To 20', Add	25.42	
For Elevated Installation >20' To 25', Add	31.78	
For Elevated Installation >25' To 30', Add	44.49	
For Elevated Installation >30' To 35', Add	50.85	
For Elevated Installation >35' To 40', Add	63.56	
For Elevated Installation >40', Add	69.92	
26 05 33 13-0142 EA 4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	303.60	82.74
For Work In Restricted Working Space, Add	49.65	
For Elevated Installation >10' To 15', Add	16.55	
For Elevated Installation >15' To 20', Add	33.10	
For Elevated Installation >20' To 25', Add	41.37	
For Elevated Installation >25' To 30', Add	57.92	
For Elevated Installation >30' To 35', Add	66.20	
For Elevated Installation >35' To 40', Add	82.75	
For Elevated Installation >40', Add	91.02	
26 05 33 13-0143 EA 5" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	518.14	134.91
For Work In Restricted Working Space, Add	80.95	
For Elevated Installation >10' To 15', Add	26.98	
For Elevated Installation >15' To 20', Add	53.96	
For Elevated Installation >20' To 25', Add	67.46	
For Elevated Installation >25' To 30', Add	94.44	
For Elevated Installation >30' To 35', Add	107.93	
For Elevated Installation >35' To 40', Add	134.91	
For Elevated Installation >40', Add	148.40	
26 05 33 13-0144 EA 6" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	678.15	202.67
For Work In Restricted Working Space, Add	121.60	
For Elevated Installation >10' To 15', Add	40.53	
For Elevated Installation >15' To 20', Add	81.07	
For Elevated Installation >20' To 25', Add	101.33	
For Elevated Installation >25' To 30', Add	141.87	
For Elevated Installation >30' To 35', Add	162.13	
For Elevated Installation >35' To 40', Add	202.67	
For Elevated Installation >40', Add	222.93	
26 05 33 13-0145 Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0146 EA 1" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	81.05	22.79
For Work In Restricted Working Space, Add	13.67	
For Elevated Installation >10' To 15', Add	4.56	
For Elevated Installation >15' To 20', Add	9.11	
For Elevated Installation >20' To 25', Add	11.39	
For Elevated Installation >25' To 30', Add	15.95	
For Elevated Installation >30' To 35', Add	18.23	
For Elevated Installation >35' To 40', Add	22.79	
For Elevated Installation >40', Add	25.06	
26 05 33 13-0147 EA 1-1/4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	96.11	26.38
For Work In Restricted Working Space, Add	15.83	
For Elevated Installation >10' To 15', Add	5.28	
For Elevated Installation >15' To 20', Add	10.55	
For Elevated Installation >20' To 25', Add	13.19	
For Elevated Installation >25' To 30', Add	18.47	
For Elevated Installation >30' To 35', Add	21.10	
For Elevated Installation >35' To 40', Add	26.38	
For Elevated Installation >40', Add	29.02	
26 05 33 13-0148 EA 1-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	113.18	29.98
For Work In Restricted Working Space, Add	17.99	
For Elevated Installation >10' To 15', Add	6.00	
For Elevated Installation >15' To 20', Add	11.99	
For Elevated Installation >20' To 25', Add	14.99	
For Elevated Installation >25' To 30', Add	20.99	
For Elevated Installation >30' To 35', Add	23.98	
For Elevated Installation >35' To 40', Add	29.98	
For Elevated Installation >40', Add	32.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0149 EA 2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	127.05	32.98
For Work In Restricted Working Space, Add	19.79	
For Elevated Installation >10' To 15', Add	6.60	
For Elevated Installation >15' To 20', Add	13.19	
For Elevated Installation >20' To 25', Add	16.49	
For Elevated Installation >25' To 30', Add	23.09	
For Elevated Installation >30' To 35', Add	26.38	
For Elevated Installation >35' To 40', Add	32.98	
For Elevated Installation >40', Add	36.28	
26 05 33 13-0150 EA 2-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	168.86	41.38
For Work In Restricted Working Space, Add	24.82	
For Elevated Installation >10' To 15', Add	8.27	
For Elevated Installation >15' To 20', Add	16.55	
For Elevated Installation >20' To 25', Add	20.69	
For Elevated Installation >25' To 30', Add	28.96	
For Elevated Installation >30' To 35', Add	33.10	
For Elevated Installation >35' To 40', Add	41.37	
For Elevated Installation >40', Add	45.51	
26 05 33 13-0151 EA 3" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	225.44	56.36
For Work In Restricted Working Space, Add	33.82	
For Elevated Installation >10' To 15', Add	11.27	
For Elevated Installation >15' To 20', Add	22.54	
For Elevated Installation >20' To 25', Add	28.18	
For Elevated Installation >25' To 30', Add	39.45	
For Elevated Installation >30' To 35', Add	45.09	
For Elevated Installation >35' To 40', Add	56.36	
For Elevated Installation >40', Add	62.00	
26 05 33 13-0152 EA 3-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	275.41	63.55
For Work In Restricted Working Space, Add	38.14	
For Elevated Installation >10' To 15', Add	12.71	
For Elevated Installation >15' To 20', Add	25.42	
For Elevated Installation >20' To 25', Add	31.78	
For Elevated Installation >25' To 30', Add	44.49	
For Elevated Installation >30' To 35', Add	50.85	
For Elevated Installation >35' To 40', Add	63.56	
For Elevated Installation >40', Add	69.92	
26 05 33 13-0153 EA 4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	347.62	82.74
For Work In Restricted Working Space, Add	49.65	
For Elevated Installation >10' To 15', Add	16.55	
For Elevated Installation >15' To 20', Add	33.10	
For Elevated Installation >20' To 25', Add	41.37	
For Elevated Installation >25' To 30', Add	57.92	
For Elevated Installation >30' To 35', Add	66.20	
For Elevated Installation >35' To 40', Add	82.75	
For Elevated Installation >40', Add	91.02	
26 05 33 13-0154 EA 5" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	578.87	134.91
For Work In Restricted Working Space, Add	80.95	
For Elevated Installation >10' To 15', Add	26.98	
For Elevated Installation >15' To 20', Add	53.96	
For Elevated Installation >20' To 25', Add	67.46	
For Elevated Installation >25' To 30', Add	94.44	
For Elevated Installation >30' To 35', Add	107.93	
For Elevated Installation >35' To 40', Add	134.91	
For Elevated Installation >40', Add	148.40	
26 05 33 13-0155 EA 6" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	730.73	202.67
For Work In Restricted Working Space, Add	121.60	
For Elevated Installation >10' To 15', Add	40.53	
For Elevated Installation >15' To 20', Add	81.07	
For Elevated Installation >20' To 25', Add	101.33	
For Elevated Installation >25' To 30', Add	141.87	
For Elevated Installation >30' To 35', Add	162.13	
For Elevated Installation >35' To 40', Add	202.67	
For Elevated Installation >40', Add	222.93	
26 05 33 13-0156 Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0157 EA 1" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	85.39	22.79
For Work In Restricted Working Space, Add	13.67	
For Elevated Installation >10' To 15', Add	4.56	
For Elevated Installation >15' To 20', Add	9.11	
For Elevated Installation >20' To 25', Add	11.39	
For Elevated Installation >25' To 30', Add	15.95	
For Elevated Installation >30' To 35', Add	18.23	
For Elevated Installation >35' To 40', Add	22.79	
For Elevated Installation >40', Add	25.06	
26 05 33 13-0158 EA 1-1/4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	101.01	26.38
For Work In Restricted Working Space, Add	15.83	
For Elevated Installation >10' To 15', Add	5.28	
For Elevated Installation >15' To 20', Add	10.55	
For Elevated Installation >20' To 25', Add	13.19	
For Elevated Installation >25' To 30', Add	18.47	
For Elevated Installation >30' To 35', Add	21.10	
For Elevated Installation >35' To 40', Add	26.38	
For Elevated Installation >40', Add	29.02	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0159 EA 1-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	117.45	29.98
For Work In Restricted Working Space, Add	17.99	
For Elevated Installation >10' To 15', Add	6.00	
For Elevated Installation >15' To 20', Add	11.99	
For Elevated Installation >20' To 25', Add	14.99	
For Elevated Installation >25' To 30', Add	20.99	
For Elevated Installation >30' To 35', Add	23.98	
For Elevated Installation >35' To 40', Add	29.98	
For Elevated Installation >40', Add	32.98	
26 05 33 13-0160 EA 2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	140.26	32.98
For Work In Restricted Working Space, Add	19.79	
For Elevated Installation >10' To 15', Add	6.60	
For Elevated Installation >15' To 20', Add	13.19	
For Elevated Installation >20' To 25', Add	16.49	
For Elevated Installation >25' To 30', Add	23.09	
For Elevated Installation >30' To 35', Add	26.38	
For Elevated Installation >35' To 40', Add	32.98	
For Elevated Installation >40', Add	36.28	
26 05 33 13-0161 EA 2-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	184.65	41.38
For Work In Restricted Working Space, Add	24.82	
For Elevated Installation >10' To 15', Add	8.27	
For Elevated Installation >15' To 20', Add	16.55	
For Elevated Installation >20' To 25', Add	20.69	
For Elevated Installation >25' To 30', Add	28.96	
For Elevated Installation >30' To 35', Add	33.10	
For Elevated Installation >35' To 40', Add	41.37	
For Elevated Installation >40', Add	45.51	
26 05 33 13-0162 EA 3" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	240.81	56.36
For Work In Restricted Working Space, Add	33.82	
For Elevated Installation >10' To 15', Add	11.27	
For Elevated Installation >15' To 20', Add	22.54	
For Elevated Installation >20' To 25', Add	28.18	
For Elevated Installation >25' To 30', Add	39.45	
For Elevated Installation >30' To 35', Add	45.09	
For Elevated Installation >35' To 40', Add	56.36	
For Elevated Installation >40', Add	62.00	
26 05 33 13-0163 EA 3-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	294.64	63.55
For Work In Restricted Working Space, Add	38.14	
For Elevated Installation >10' To 15', Add	12.71	
For Elevated Installation >15' To 20', Add	25.42	
For Elevated Installation >20' To 25', Add	31.78	
For Elevated Installation >25' To 30', Add	44.49	
For Elevated Installation >30' To 35', Add	50.85	
For Elevated Installation >35' To 40', Add	63.56	
For Elevated Installation >40', Add	69.92	
26 05 33 13-0164 EA 4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	370.99	82.74
For Work In Restricted Working Space, Add	49.65	
For Elevated Installation >10' To 15', Add	16.55	
For Elevated Installation >15' To 20', Add	33.10	
For Elevated Installation >20' To 25', Add	41.37	
For Elevated Installation >25' To 30', Add	57.92	
For Elevated Installation >30' To 35', Add	66.20	
For Elevated Installation >35' To 40', Add	82.75	
For Elevated Installation >40', Add	91.02	
26 05 33 13-0165 EA 5" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	597.89	134.91
For Work In Restricted Working Space, Add	80.95	
For Elevated Installation >10' To 15', Add	26.98	
For Elevated Installation >15' To 20', Add	53.96	
For Elevated Installation >20' To 25', Add	67.46	
For Elevated Installation >25' To 30', Add	94.44	
For Elevated Installation >30' To 35', Add	107.93	
For Elevated Installation >35' To 40', Add	134.91	
For Elevated Installation >40', Add	148.40	
26 05 33 13-0166 EA 6" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	741.37	202.67
For Work In Restricted Working Space, Add	121.60	
For Elevated Installation >10' To 15', Add	40.53	
For Elevated Installation >15' To 20', Add	81.07	
For Elevated Installation >20' To 25', Add	101.33	
For Elevated Installation >25' To 30', Add	141.87	
For Elevated Installation >30' To 35', Add	162.13	
For Elevated Installation >35' To 40', Add	202.67	
For Elevated Installation >40', Add	222.93	
26 05 33 13-0167 Rigid Galvanized Steel (RGS) Plastic Insulating Bushing (26 05 33 13-0059)		
26 05 33 13-0168 EA 1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	12.00	5.88
For Work In Restricted Working Space, Add	3.53	
For Elevated Installation >10' To 15', Add	1.18	
For Elevated Installation >15' To 20', Add	2.35	
For Elevated Installation >20' To 25', Add	2.94	
For Elevated Installation >25' To 30', Add	4.12	
For Elevated Installation >30' To 35', Add	4.71	
For Elevated Installation >35' To 40', Add	5.89	
For Elevated Installation >40', Add	6.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0169 EA 3/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	12.86	6.27
<i>For Work In Restricted Working Space, Add</i>	3.77	
<i>For Elevated Installation >10' To 15', Add</i>	1.26	
<i>For Elevated Installation >15' To 20', Add</i>	2.51	
<i>For Elevated Installation >20' To 25', Add</i>	3.14	
<i>For Elevated Installation >25' To 30', Add</i>	4.39	
<i>For Elevated Installation >30' To 35', Add</i>	5.02	
<i>For Elevated Installation >35' To 40', Add</i>	6.28	
<i>For Elevated Installation >40', Add</i>	6.90	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.77	
26 05 33 13-0170 EA 1" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	14.58	7.06
<i>For Work In Restricted Working Space, Add</i>	4.23	
<i>For Elevated Installation >10' To 15', Add</i>	1.41	
<i>For Elevated Installation >15' To 20', Add</i>	2.82	
<i>For Elevated Installation >20' To 25', Add</i>	3.53	
<i>For Elevated Installation >25' To 30', Add</i>	4.94	
<i>For Elevated Installation >30' To 35', Add</i>	5.64	
<i>For Elevated Installation >35' To 40', Add</i>	7.06	
<i>For Elevated Installation >40', Add</i>	7.76	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.23	
26 05 33 13-0171 EA 1-1/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	16.36	7.84
<i>For Work In Restricted Working Space, Add</i>	4.70	
<i>For Elevated Installation >10' To 15', Add</i>	1.57	
<i>For Elevated Installation >15' To 20', Add</i>	3.14	
<i>For Elevated Installation >20' To 25', Add</i>	3.92	
<i>For Elevated Installation >25' To 30', Add</i>	5.49	
<i>For Elevated Installation >30' To 35', Add</i>	6.27	
<i>For Elevated Installation >35' To 40', Add</i>	7.84	
<i>For Elevated Installation >40', Add</i>	8.62	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.70	
26 05 33 13-0172 EA 1-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	20.53	9.80
<i>For Work In Restricted Working Space, Add</i>	5.88	
<i>For Elevated Installation >10' To 15', Add</i>	1.96	
<i>For Elevated Installation >15' To 20', Add</i>	3.92	
<i>For Elevated Installation >20' To 25', Add</i>	4.90	
<i>For Elevated Installation >25' To 30', Add</i>	6.86	
<i>For Elevated Installation >30' To 35', Add</i>	7.84	
<i>For Elevated Installation >35' To 40', Add</i>	9.80	
<i>For Elevated Installation >40', Add</i>	10.78	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.88	
26 05 33 13-0173 EA 2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	25.25	11.77
<i>For Work In Restricted Working Space, Add</i>	7.06	
<i>For Elevated Installation >10' To 15', Add</i>	2.35	
<i>For Elevated Installation >15' To 20', Add</i>	4.70	
<i>For Elevated Installation >20' To 25', Add</i>	5.88	
<i>For Elevated Installation >25' To 30', Add</i>	8.23	
<i>For Elevated Installation >30' To 35', Add</i>	9.41	
<i>For Elevated Installation >35' To 40', Add</i>	11.76	
<i>For Elevated Installation >40', Add</i>	12.94	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.06	
26 05 33 13-0174 EA 2-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	31.26	13.72
<i>For Work In Restricted Working Space, Add</i>	8.23	
<i>For Elevated Installation >10' To 15', Add</i>	2.74	
<i>For Elevated Installation >15' To 20', Add</i>	5.49	
<i>For Elevated Installation >20' To 25', Add</i>	6.86	
<i>For Elevated Installation >25' To 30', Add</i>	9.60	
<i>For Elevated Installation >30' To 35', Add</i>	10.98	
<i>For Elevated Installation >35' To 40', Add</i>	13.72	
<i>For Elevated Installation >40', Add</i>	15.09	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.23	
26 05 33 13-0175 EA 3" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	35.39	15.68
<i>For Work In Restricted Working Space, Add</i>	9.41	
<i>For Elevated Installation >10' To 15', Add</i>	3.14	
<i>For Elevated Installation >15' To 20', Add</i>	6.27	
<i>For Elevated Installation >20' To 25', Add</i>	7.84	
<i>For Elevated Installation >25' To 30', Add</i>	10.98	
<i>For Elevated Installation >30' To 35', Add</i>	12.55	
<i>For Elevated Installation >35' To 40', Add</i>	15.69	
<i>For Elevated Installation >40', Add</i>	17.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.41	
26 05 33 13-0176 EA 3-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	40.88	14.75
<i>For Work In Restricted Working Space, Add</i>	10.59	
<i>For Elevated Installation >10' To 15', Add</i>	3.53	
<i>For Elevated Installation >15' To 20', Add</i>	7.06	
<i>For Elevated Installation >20' To 25', Add</i>	8.82	
<i>For Elevated Installation >25' To 30', Add</i>	12.35	
<i>For Elevated Installation >30' To 35', Add</i>	14.12	
<i>For Elevated Installation >35' To 40', Add</i>	17.65	
<i>For Elevated Installation >40', Add</i>	19.41	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.59	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0177	EA	4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	45.37	19.60
			<i>For Work In Restricted Working Space, Add</i>	11.76	
			<i>For Elevated Installation >10' To 15', Add</i>	3.92	
			<i>For Elevated Installation >15' To 20', Add</i>	7.84	
			<i>For Elevated Installation >20' To 25', Add</i>	9.80	
			<i>For Elevated Installation >25' To 30', Add</i>	13.72	
			<i>For Elevated Installation >30' To 35', Add</i>	15.68	
			<i>For Elevated Installation >35' To 40', Add</i>	19.61	
			<i>For Elevated Installation >40', Add</i>	21.57	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.76	
26 05 33	13-0178	EA	5" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	53.61	21.57
			<i>For Work In Restricted Working Space, Add</i>	12.94	
			<i>For Elevated Installation >10' To 15', Add</i>	4.31	
			<i>For Elevated Installation >15' To 20', Add</i>	8.62	
			<i>For Elevated Installation >20' To 25', Add</i>	10.78	
			<i>For Elevated Installation >25' To 30', Add</i>	15.09	
			<i>For Elevated Installation >30' To 35', Add</i>	17.25	
			<i>For Elevated Installation >35' To 40', Add</i>	21.56	
			<i>For Elevated Installation >40', Add</i>	23.72	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.94	
26 05 33	13-0179	EA	6" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	73.61	23.52
			<i>For Work In Restricted Working Space, Add</i>	14.11	
			<i>For Elevated Installation >10' To 15', Add</i>	4.70	
			<i>For Elevated Installation >15' To 20', Add</i>	9.41	
			<i>For Elevated Installation >20' To 25', Add</i>	11.76	
			<i>For Elevated Installation >25' To 30', Add</i>	16.46	
			<i>For Elevated Installation >30' To 35', Add</i>	18.82	
			<i>For Elevated Installation >35' To 40', Add</i>	23.52	
			<i>For Elevated Installation >40', Add</i>	25.87	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.11	
26 05 33	13-0180		Rigid Galvanized Steel (RGS) Steel Bushing (26 05 33 13-0059)		
26 05 33	13-0181	EA	1/2" Rigid Galvanized Steel (RGS) Steel Bushing	14.41	6.92
			<i>For Work In Restricted Working Space, Add</i>	4.15	
			<i>For Elevated Installation >10' To 15', Add</i>	1.38	
			<i>For Elevated Installation >15' To 20', Add</i>	2.77	
			<i>For Elevated Installation >20' To 25', Add</i>	3.46	
			<i>For Elevated Installation >25' To 30', Add</i>	4.84	
			<i>For Elevated Installation >30' To 35', Add</i>	5.53	
			<i>For Elevated Installation >35' To 40', Add</i>	6.92	
			<i>For Elevated Installation >40', Add</i>	7.61	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.15	
26 05 33	13-0182	EA	3/4" Rigid Galvanized Steel (RGS) Steel Bushing	15.60	7.38
			<i>For Work In Restricted Working Space, Add</i>	4.43	
			<i>For Elevated Installation >10' To 15', Add</i>	1.48	
			<i>For Elevated Installation >15' To 20', Add</i>	2.95	
			<i>For Elevated Installation >20' To 25', Add</i>	3.69	
			<i>For Elevated Installation >25' To 30', Add</i>	5.16	
			<i>For Elevated Installation >30' To 35', Add</i>	5.90	
			<i>For Elevated Installation >35' To 40', Add</i>	7.38	
			<i>For Elevated Installation >40', Add</i>	8.11	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.43	
26 05 33	13-0183	EA	1" Rigid Galvanized Steel (RGS) Steel Bushing	18.08	8.31
			<i>For Work In Restricted Working Space, Add</i>	4.98	
			<i>For Elevated Installation >10' To 15', Add</i>	1.66	
			<i>For Elevated Installation >15' To 20', Add</i>	3.32	
			<i>For Elevated Installation >20' To 25', Add</i>	4.15	
			<i>For Elevated Installation >25' To 30', Add</i>	5.81	
			<i>For Elevated Installation >30' To 35', Add</i>	6.64	
			<i>For Elevated Installation >35' To 40', Add</i>	8.30	
			<i>For Elevated Installation >40', Add</i>	9.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.98	
26 05 33	13-0184	EA	1-1/4" Rigid Galvanized Steel (RGS) Steel Bushing	20.28	9.23
			<i>For Work In Restricted Working Space, Add</i>	5.54	
			<i>For Elevated Installation >10' To 15', Add</i>	1.85	
			<i>For Elevated Installation >15' To 20', Add</i>	3.69	
			<i>For Elevated Installation >20' To 25', Add</i>	4.61	
			<i>For Elevated Installation >25' To 30', Add</i>	6.46	
			<i>For Elevated Installation >30' To 35', Add</i>	7.38	
			<i>For Elevated Installation >35' To 40', Add</i>	9.23	
			<i>For Elevated Installation >40', Add</i>	10.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.54	
26 05 33	13-0185	EA	1-1/2" Rigid Galvanized Steel (RGS) Steel Bushing	25.76	11.54
			<i>For Work In Restricted Working Space, Add</i>	6.92	
			<i>For Elevated Installation >10' To 15', Add</i>	2.31	
			<i>For Elevated Installation >15' To 20', Add</i>	4.61	
			<i>For Elevated Installation >20' To 25', Add</i>	5.77	
			<i>For Elevated Installation >25' To 30', Add</i>	8.07	
			<i>For Elevated Installation >30' To 35', Add</i>	9.22	
			<i>For Elevated Installation >35' To 40', Add</i>	11.53	
			<i>For Elevated Installation >40', Add</i>	12.68	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0186 EA 2" Rigid Galvanized Steel (RGS) Steel Bushing	30.58	13.83
For Work In Restricted Working Space, Add	8.30	
For Elevated Installation >10' To 15', Add	2.77	
For Elevated Installation >15' To 20', Add	5.53	
For Elevated Installation >20' To 25', Add	6.92	
For Elevated Installation >25' To 30', Add	9.68	
For Elevated Installation >30' To 35', Add	11.07	
For Elevated Installation >35' To 40', Add	13.84	
For Elevated Installation >40', Add	15.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.30	
26 05 33 13-0187 EA 2-1/2" Rigid Galvanized Steel (RGS) Steel Bushing	41.42	16.14
For Work In Restricted Working Space, Add	9.69	
For Elevated Installation >10' To 15', Add	3.23	
For Elevated Installation >15' To 20', Add	6.46	
For Elevated Installation >20' To 25', Add	8.07	
For Elevated Installation >25' To 30', Add	11.30	
For Elevated Installation >30' To 35', Add	12.92	
For Elevated Installation >35' To 40', Add	16.15	
For Elevated Installation >40', Add	17.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.69	
26 05 33 13-0188 EA 3" Rigid Galvanized Steel (RGS) Steel Bushing	48.89	18.45
For Work In Restricted Working Space, Add	11.07	
For Elevated Installation >10' To 15', Add	3.69	
For Elevated Installation >15' To 20', Add	7.38	
For Elevated Installation >20' To 25', Add	9.23	
For Elevated Installation >25' To 30', Add	12.92	
For Elevated Installation >30' To 35', Add	14.76	
For Elevated Installation >35' To 40', Add	18.45	
For Elevated Installation >40', Add	20.30	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.07	
26 05 33 13-0189 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Bushing	69.50	20.75
For Work In Restricted Working Space, Add	12.45	
For Elevated Installation >10' To 15', Add	4.15	
For Elevated Installation >15' To 20', Add	8.30	
For Elevated Installation >20' To 25', Add	10.38	
For Elevated Installation >25' To 30', Add	14.53	
For Elevated Installation >30' To 35', Add	16.60	
For Elevated Installation >35' To 40', Add	20.76	
For Elevated Installation >40', Add	22.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 05 33 13-0190 EA 4" Rigid Galvanized Steel (RGS) Steel Bushing	91.51	23.06
For Work In Restricted Working Space, Add	13.84	
For Elevated Installation >10' To 15', Add	4.61	
For Elevated Installation >15' To 20', Add	9.22	
For Elevated Installation >20' To 25', Add	11.53	
For Elevated Installation >25' To 30', Add	16.14	
For Elevated Installation >30' To 35', Add	18.45	
For Elevated Installation >35' To 40', Add	23.06	
For Elevated Installation >40', Add	25.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.84	
26 05 33 13-0191 EA 5" Rigid Galvanized Steel (RGS) Steel Bushing	119.58	25.37
For Work In Restricted Working Space, Add	15.22	
For Elevated Installation >10' To 15', Add	5.07	
For Elevated Installation >15' To 20', Add	10.15	
For Elevated Installation >20' To 25', Add	12.68	
For Elevated Installation >25' To 30', Add	17.76	
For Elevated Installation >30' To 35', Add	20.29	
For Elevated Installation >35' To 40', Add	25.37	
For Elevated Installation >40', Add	27.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.22	
26 05 33 13-0192 EA 6" Rigid Galvanized Steel (RGS) Steel Bushing	171.55	27.67
For Work In Restricted Working Space, Add	16.61	
For Elevated Installation >10' To 15', Add	5.54	
For Elevated Installation >15' To 20', Add	11.07	
For Elevated Installation >20' To 25', Add	13.84	
For Elevated Installation >25' To 30', Add	19.37	
For Elevated Installation >30' To 35', Add	22.14	
For Elevated Installation >35' To 40', Add	27.68	
For Elevated Installation >40', Add	30.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.61	
26 05 33 13-0193 Rigid Galvanized Steel (RGS) Steel Insulated Bushing (26 05 33 13-0059)		
26 05 33 13-0194 EA 1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	15.10	6.92
For Work In Restricted Working Space, Add	4.15	
For Elevated Installation >10' To 15', Add	1.38	
For Elevated Installation >15' To 20', Add	2.77	
For Elevated Installation >20' To 25', Add	3.46	
For Elevated Installation >25' To 30', Add	4.84	
For Elevated Installation >30' To 35', Add	5.53	
For Elevated Installation >35' To 40', Add	6.92	
For Elevated Installation >40', Add	7.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.15	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0195	EA	3/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	16.64	7.38
			<i>For Work In Restricted Working Space, Add</i>	4.43	
			<i>For Elevated Installation >10' To 15', Add</i>	1.48	
			<i>For Elevated Installation >15' To 20', Add</i>	2.95	
			<i>For Elevated Installation >20' To 25', Add</i>	3.69	
			<i>For Elevated Installation >25' To 30', Add</i>	5.16	
			<i>For Elevated Installation >30' To 35', Add</i>	5.90	
			<i>For Elevated Installation >35' To 40', Add</i>	7.38	
			<i>For Elevated Installation >40', Add</i>	8.11	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.43	
26 05 33	13-0196	EA	1" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	19.39	8.31
			<i>For Work In Restricted Working Space, Add</i>	4.98	
			<i>For Elevated Installation >10' To 15', Add</i>	1.66	
			<i>For Elevated Installation >15' To 20', Add</i>	3.32	
			<i>For Elevated Installation >20' To 25', Add</i>	4.15	
			<i>For Elevated Installation >25' To 30', Add</i>	5.81	
			<i>For Elevated Installation >30' To 35', Add</i>	6.64	
			<i>For Elevated Installation >35' To 40', Add</i>	8.30	
			<i>For Elevated Installation >40', Add</i>	9.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.98	
26 05 33	13-0197	EA	1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	22.49	9.23
			<i>For Work In Restricted Working Space, Add</i>	5.54	
			<i>For Elevated Installation >10' To 15', Add</i>	1.85	
			<i>For Elevated Installation >15' To 20', Add</i>	3.69	
			<i>For Elevated Installation >20' To 25', Add</i>	4.61	
			<i>For Elevated Installation >25' To 30', Add</i>	6.46	
			<i>For Elevated Installation >30' To 35', Add</i>	7.38	
			<i>For Elevated Installation >35' To 40', Add</i>	9.23	
			<i>For Elevated Installation >40', Add</i>	10.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.54	
26 05 33	13-0198	EA	1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	28.06	11.54
			<i>For Work In Restricted Working Space, Add</i>	6.92	
			<i>For Elevated Installation >10' To 15', Add</i>	2.31	
			<i>For Elevated Installation >15' To 20', Add</i>	4.61	
			<i>For Elevated Installation >20' To 25', Add</i>	5.77	
			<i>For Elevated Installation >25' To 30', Add</i>	8.07	
			<i>For Elevated Installation >30' To 35', Add</i>	9.22	
			<i>For Elevated Installation >35' To 40', Add</i>	11.53	
			<i>For Elevated Installation >40', Add</i>	12.68	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.92	
26 05 33	13-0199	EA	2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	34.66	13.83
			<i>For Work In Restricted Working Space, Add</i>	8.30	
			<i>For Elevated Installation >10' To 15', Add</i>	2.77	
			<i>For Elevated Installation >15' To 20', Add</i>	5.53	
			<i>For Elevated Installation >20' To 25', Add</i>	6.92	
			<i>For Elevated Installation >25' To 30', Add</i>	9.68	
			<i>For Elevated Installation >30' To 35', Add</i>	11.07	
			<i>For Elevated Installation >35' To 40', Add</i>	13.84	
			<i>For Elevated Installation >40', Add</i>	15.22	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.30	
26 05 33	13-0200	EA	2-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	46.95	16.14
			<i>For Work In Restricted Working Space, Add</i>	9.69	
			<i>For Elevated Installation >10' To 15', Add</i>	3.23	
			<i>For Elevated Installation >15' To 20', Add</i>	6.46	
			<i>For Elevated Installation >20' To 25', Add</i>	8.07	
			<i>For Elevated Installation >25' To 30', Add</i>	11.30	
			<i>For Elevated Installation >30' To 35', Add</i>	12.92	
			<i>For Elevated Installation >35' To 40', Add</i>	16.15	
			<i>For Elevated Installation >40', Add</i>	17.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.69	
26 05 33	13-0201	EA	3" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	55.36	18.45
			<i>For Work In Restricted Working Space, Add</i>	11.07	
			<i>For Elevated Installation >10' To 15', Add</i>	3.69	
			<i>For Elevated Installation >15' To 20', Add</i>	7.38	
			<i>For Elevated Installation >20' To 25', Add</i>	9.23	
			<i>For Elevated Installation >25' To 30', Add</i>	12.92	
			<i>For Elevated Installation >30' To 35', Add</i>	14.76	
			<i>For Elevated Installation >35' To 40', Add</i>	18.45	
			<i>For Elevated Installation >40', Add</i>	20.30	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.07	
26 05 33	13-0202	EA	3-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	70.70	20.75
			<i>For Work In Restricted Working Space, Add</i>	12.45	
			<i>For Elevated Installation >10' To 15', Add</i>	4.15	
			<i>For Elevated Installation >15' To 20', Add</i>	8.30	
			<i>For Elevated Installation >20' To 25', Add</i>	10.38	
			<i>For Elevated Installation >25' To 30', Add</i>	14.53	
			<i>For Elevated Installation >30' To 35', Add</i>	16.60	
			<i>For Elevated Installation >35' To 40', Add</i>	20.76	
			<i>For Elevated Installation >40', Add</i>	22.83	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0203 EA 4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	96.91	23.06
For Work In Restricted Working Space, Add	13.84	
For Elevated Installation >10' To 15', Add	4.61	
For Elevated Installation >15' To 20', Add	9.22	
For Elevated Installation >20' To 25', Add	11.53	
For Elevated Installation >25' To 30', Add	16.14	
For Elevated Installation >30' To 35', Add	18.45	
For Elevated Installation >35' To 40', Add	23.06	
For Elevated Installation >40', Add	25.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.84	
26 05 33 13-0204 EA 5" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	125.46	25.37
For Work In Restricted Working Space, Add	15.22	
For Elevated Installation >10' To 15', Add	5.07	
For Elevated Installation >15' To 20', Add	10.15	
For Elevated Installation >20' To 25', Add	12.68	
For Elevated Installation >25' To 30', Add	17.76	
For Elevated Installation >30' To 35', Add	20.29	
For Elevated Installation >35' To 40', Add	25.37	
For Elevated Installation >40', Add	27.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.22	
26 05 33 13-0205 EA 6" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	173.62	27.67
For Work In Restricted Working Space, Add	16.61	
For Elevated Installation >10' To 15', Add	5.54	
For Elevated Installation >15' To 20', Add	11.07	
For Elevated Installation >20' To 25', Add	13.84	
For Elevated Installation >25' To 30', Add	19.37	
For Elevated Installation >30' To 35', Add	22.14	
For Elevated Installation >35' To 40', Add	27.68	
For Elevated Installation >40', Add	30.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.61	
26 05 33 13-0206 Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing (26 05 33 13-0059)		
26 05 33 13-0207 EA 1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	21.73	8.31
For Work In Restricted Working Space, Add	4.98	
For Elevated Installation >10' To 15', Add	1.66	
For Elevated Installation >15' To 20', Add	3.32	
For Elevated Installation >20' To 25', Add	4.15	
For Elevated Installation >25' To 30', Add	5.81	
For Elevated Installation >30' To 35', Add	6.64	
For Elevated Installation >35' To 40', Add	8.30	
For Elevated Installation >40', Add	9.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26 05 33 13-0208 EA 3/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	24.31	9.23
For Work In Restricted Working Space, Add	5.54	
For Elevated Installation >10' To 15', Add	1.85	
For Elevated Installation >15' To 20', Add	3.69	
For Elevated Installation >20' To 25', Add	4.61	
For Elevated Installation >25' To 30', Add	6.46	
For Elevated Installation >30' To 35', Add	7.38	
For Elevated Installation >35' To 40', Add	9.23	
For Elevated Installation >40', Add	10.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.54	
26 05 33 13-0209 EA 1" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	27.59	10.15
For Work In Restricted Working Space, Add	6.09	
For Elevated Installation >10' To 15', Add	2.03	
For Elevated Installation >15' To 20', Add	4.06	
For Elevated Installation >20' To 25', Add	5.07	
For Elevated Installation >25' To 30', Add	7.10	
For Elevated Installation >30' To 35', Add	8.12	
For Elevated Installation >35' To 40', Add	10.15	
For Elevated Installation >40', Add	11.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.09	
26 05 33 13-0210 EA 1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	32.51	11.54
For Work In Restricted Working Space, Add	6.92	
For Elevated Installation >10' To 15', Add	2.31	
For Elevated Installation >15' To 20', Add	4.61	
For Elevated Installation >20' To 25', Add	5.77	
For Elevated Installation >25' To 30', Add	8.07	
For Elevated Installation >30' To 35', Add	9.22	
For Elevated Installation >35' To 40', Add	11.53	
For Elevated Installation >40', Add	12.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.92	
26 05 33 13-0211 EA 1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	39.50	14.29
For Work In Restricted Working Space, Add	8.58	
For Elevated Installation >10' To 15', Add	2.86	
For Elevated Installation >15' To 20', Add	5.72	
For Elevated Installation >20' To 25', Add	7.15	
For Elevated Installation >25' To 30', Add	10.01	
For Elevated Installation >30' To 35', Add	11.44	
For Elevated Installation >35' To 40', Add	14.30	
For Elevated Installation >40', Add	15.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.58	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0212 EA 2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	49.28	17.06
For Work In Restricted Working Space, Add	10.24	
For Elevated Installation >10' To 15', Add	3.41	
For Elevated Installation >15' To 20', Add	6.83	
For Elevated Installation >20' To 25', Add	8.53	
For Elevated Installation >25' To 30', Add	11.95	
For Elevated Installation >30' To 35', Add	13.65	
For Elevated Installation >35' To 40', Add	17.07	
For Elevated Installation >40', Add	18.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.24	
26 05 33 13-0213 EA 2-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	64.41	19.83
For Work In Restricted Working Space, Add	11.90	
For Elevated Installation >10' To 15', Add	3.97	
For Elevated Installation >15' To 20', Add	7.93	
For Elevated Installation >20' To 25', Add	9.92	
For Elevated Installation >25' To 30', Add	13.88	
For Elevated Installation >30' To 35', Add	15.87	
For Elevated Installation >35' To 40', Add	19.84	
For Elevated Installation >40', Add	21.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.90	
26 05 33 13-0214 EA 3" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	71.65	23.06
For Work In Restricted Working Space, Add	13.84	
For Elevated Installation >10' To 15', Add	4.61	
For Elevated Installation >15' To 20', Add	9.22	
For Elevated Installation >20' To 25', Add	11.53	
For Elevated Installation >25' To 30', Add	16.14	
For Elevated Installation >30' To 35', Add	18.45	
For Elevated Installation >35' To 40', Add	23.06	
For Elevated Installation >40', Add	25.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.84	
26 05 33 13-0215 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	80.90	25.83
For Work In Restricted Working Space, Add	15.50	
For Elevated Installation >10' To 15', Add	5.17	
For Elevated Installation >15' To 20', Add	10.33	
For Elevated Installation >20' To 25', Add	12.92	
For Elevated Installation >25' To 30', Add	18.08	
For Elevated Installation >30' To 35', Add	20.66	
For Elevated Installation >35' To 40', Add	25.83	
For Elevated Installation >40', Add	28.41	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.50	
26 05 33 13-0216 EA 4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	101.94	28.60
For Work In Restricted Working Space, Add	17.16	
For Elevated Installation >10' To 15', Add	5.72	
For Elevated Installation >15' To 20', Add	11.44	
For Elevated Installation >20' To 25', Add	14.30	
For Elevated Installation >25' To 30', Add	20.02	
For Elevated Installation >30' To 35', Add	22.88	
For Elevated Installation >35' To 40', Add	28.60	
For Elevated Installation >40', Add	31.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.16	
26 05 33 13-0217 EA 5" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	139.76	31.37
For Work In Restricted Working Space, Add	18.82	
For Elevated Installation >10' To 15', Add	6.27	
For Elevated Installation >15' To 20', Add	12.55	
For Elevated Installation >20' To 25', Add	15.68	
For Elevated Installation >25' To 30', Add	21.96	
For Elevated Installation >30' To 35', Add	25.09	
For Elevated Installation >35' To 40', Add	31.37	
For Elevated Installation >40', Add	34.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.82	
26 05 33 13-0218 EA 6" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	187.92	34.60
For Work In Restricted Working Space, Add	20.75	
For Elevated Installation >10' To 15', Add	6.92	
For Elevated Installation >15' To 20', Add	13.84	
For Elevated Installation >20' To 25', Add	17.30	
For Elevated Installation >25' To 30', Add	24.21	
For Elevated Installation >30' To 35', Add	27.67	
For Elevated Installation >35' To 40', Add	34.59	
For Elevated Installation >40', Add	38.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.75	
26 05 33 13-0219 Rigid Galvanized Steel (RGS) Box Connectors With Set Screw (26 05 33 13-0059)		
26 05 33 13-0220 EA 1/2" Rigid Galvanized Steel (RGS) Box Connector With Set Screw	14.36	4.24
For Work In Restricted Working Space, Add	3.16	
For Elevated Installation >10' To 15', Add	1.05	
For Elevated Installation >15' To 20', Add	2.11	
For Elevated Installation >20' To 25', Add	2.63	
For Elevated Installation >25' To 30', Add	3.69	
For Elevated Installation >30' To 35', Add	4.21	
For Elevated Installation >35' To 40', Add	5.27	
For Elevated Installation >40', Add	5.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0221 EA 3/4" Rigid Galvanized Steel (RGS) Box Connector With Set Screw	17.51	4.88
For Work In Restricted Working Space, Add	3.66	
For Elevated Installation >10' To 15', Add	1.22	
For Elevated Installation >15' To 20', Add	2.44	
For Elevated Installation >20' To 25', Add	3.05	
For Elevated Installation >25' To 30', Add	4.27	
For Elevated Installation >30' To 35', Add	4.88	
For Elevated Installation >35' To 40', Add	6.10	
For Elevated Installation >40', Add	6.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.66	
26 05 33 13-0222 EA 1" Rigid Galvanized Steel (RGS) Box Connector With Set Screw	23.17	5.91
For Work In Restricted Working Space, Add	4.41	
For Elevated Installation >10' To 15', Add	1.47	
For Elevated Installation >15' To 20', Add	2.94	
For Elevated Installation >20' To 25', Add	3.67	
For Elevated Installation >25' To 30', Add	5.14	
For Elevated Installation >30' To 35', Add	5.88	
For Elevated Installation >35' To 40', Add	7.35	
For Elevated Installation >40', Add	8.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.41	
26 05 33 13-0223 EA 1-1/4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	34.90	7.29
For Work In Restricted Working Space, Add	5.48	
For Elevated Installation >10' To 15', Add	1.83	
For Elevated Installation >15' To 20', Add	3.66	
For Elevated Installation >20' To 25', Add	4.57	
For Elevated Installation >25' To 30', Add	6.40	
For Elevated Installation >30' To 35', Add	7.31	
For Elevated Installation >35' To 40', Add	9.14	
For Elevated Installation >40', Add	10.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.48	
26 05 33 13-0224 EA 1-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	47.30	9.78
For Work In Restricted Working Space, Add	7.34	
For Elevated Installation >10' To 15', Add	2.45	
For Elevated Installation >15' To 20', Add	4.89	
For Elevated Installation >20' To 25', Add	6.12	
For Elevated Installation >25' To 30', Add	8.56	
For Elevated Installation >30' To 35', Add	9.79	
For Elevated Installation >35' To 40', Add	12.24	
For Elevated Installation >40', Add	13.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.34	
26 05 33 13-0225 EA 2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	81.41	14.66
For Work In Restricted Working Space, Add	11.00	
For Elevated Installation >10' To 15', Add	3.67	
For Elevated Installation >15' To 20', Add	7.33	
For Elevated Installation >20' To 25', Add	9.16	
For Elevated Installation >25' To 30', Add	12.83	
For Elevated Installation >30' To 35', Add	14.66	
For Elevated Installation >35' To 40', Add	18.33	
For Elevated Installation >40', Add	20.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.00	
26 05 33 13-0226 EA 2-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	151.34	16.24
For Work In Restricted Working Space, Add	12.17	
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.12	
For Elevated Installation >20' To 25', Add	10.15	
For Elevated Installation >25' To 30', Add	14.20	
For Elevated Installation >30' To 35', Add	16.23	
For Elevated Installation >35' To 40', Add	20.29	
For Elevated Installation >40', Add	22.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.17	
26 05 33 13-0227 EA 3" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	180.26	19.65
For Work In Restricted Working Space, Add	14.75	
For Elevated Installation >10' To 15', Add	4.92	
For Elevated Installation >15' To 20', Add	9.83	
For Elevated Installation >20' To 25', Add	12.29	
For Elevated Installation >25' To 30', Add	17.21	
For Elevated Installation >30' To 35', Add	19.66	
For Elevated Installation >35' To 40', Add	24.58	
For Elevated Installation >40', Add	27.04	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.75	
26 05 33 13-0228 EA 3-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	244.63	24.63
For Work In Restricted Working Space, Add	18.46	
For Elevated Installation >10' To 15', Add	6.15	
For Elevated Installation >15' To 20', Add	12.31	
For Elevated Installation >20' To 25', Add	15.39	
For Elevated Installation >25' To 30', Add	21.54	
For Elevated Installation >30' To 35', Add	24.62	
For Elevated Installation >35' To 40', Add	30.77	
For Elevated Installation >40', Add	33.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0229	EA	4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	286.27	29.52
			<i>For Work In Restricted Working Space, Add</i>	22.14	
			<i>For Elevated Installation >10' To 15', Add</i>	7.38	
			<i>For Elevated Installation >15' To 20', Add</i>	14.76	
			<i>For Elevated Installation >20' To 25', Add</i>	18.45	
			<i>For Elevated Installation >25' To 30', Add</i>	25.83	
			<i>For Elevated Installation >30' To 35', Add</i>	29.52	
			<i>For Elevated Installation >35' To 40', Add</i>	36.90	
			<i>For Elevated Installation >40', Add</i>	40.58	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.14	
26 05 33	13-0230	EA	5" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	511.47	32.84
			<i>For Work In Restricted Working Space, Add</i>	24.60	
			<i>For Elevated Installation >10' To 15', Add</i>	8.20	
			<i>For Elevated Installation >15' To 20', Add</i>	16.40	
			<i>For Elevated Installation >20' To 25', Add</i>	20.50	
			<i>For Elevated Installation >25' To 30', Add</i>	28.70	
			<i>For Elevated Installation >30' To 35', Add</i>	32.80	
			<i>For Elevated Installation >35' To 40', Add</i>	41.00	
			<i>For Elevated Installation >40', Add</i>	45.10	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.60	
26 05 33	13-0231	EA	6" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	612.12	36.90
			<i>For Work In Restricted Working Space, Add</i>	27.67	
			<i>For Elevated Installation >10' To 15', Add</i>	9.22	
			<i>For Elevated Installation >15' To 20', Add</i>	18.45	
			<i>For Elevated Installation >20' To 25', Add</i>	23.06	
			<i>For Elevated Installation >25' To 30', Add</i>	32.28	
			<i>For Elevated Installation >30' To 35', Add</i>	36.89	
			<i>For Elevated Installation >35' To 40', Add</i>	46.12	
			<i>For Elevated Installation >40', Add</i>	50.73	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.67	
26 05 33	13-0232		Rigid Galvanized Steel (RGS) Nipples (26 05 33 13-0059)		
26 05 33	13-0233	EA	1/2" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	13.04	6.00
			<i>For Work In Restricted Working Space, Add</i>	3.60	
			<i>For Elevated Installation >10' To 15', Add</i>	1.20	
			<i>For Elevated Installation >15' To 20', Add</i>	2.40	
			<i>For Elevated Installation >20' To 25', Add</i>	3.00	
			<i>For Elevated Installation >25' To 30', Add</i>	4.20	
			<i>For Elevated Installation >30' To 35', Add</i>	4.80	
			<i>For Elevated Installation >35' To 40', Add</i>	6.00	
			<i>For Elevated Installation >40', Add</i>	6.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.60	
26 05 33	13-0234	EA	3/4" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	15.01	6.92
			<i>For Work In Restricted Working Space, Add</i>	4.15	
			<i>For Elevated Installation >10' To 15', Add</i>	1.38	
			<i>For Elevated Installation >15' To 20', Add</i>	2.77	
			<i>For Elevated Installation >20' To 25', Add</i>	3.46	
			<i>For Elevated Installation >25' To 30', Add</i>	4.84	
			<i>For Elevated Installation >30' To 35', Add</i>	5.53	
			<i>For Elevated Installation >35' To 40', Add</i>	6.92	
			<i>For Elevated Installation >40', Add</i>	7.61	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.15	
26 05 33	13-0235	EA	1" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	19.17	8.77
			<i>For Work In Restricted Working Space, Add</i>	5.26	
			<i>For Elevated Installation >10' To 15', Add</i>	1.75	
			<i>For Elevated Installation >15' To 20', Add</i>	3.50	
			<i>For Elevated Installation >20' To 25', Add</i>	4.38	
			<i>For Elevated Installation >25' To 30', Add</i>	6.13	
			<i>For Elevated Installation >30' To 35', Add</i>	7.01	
			<i>For Elevated Installation >35' To 40', Add</i>	8.76	
			<i>For Elevated Installation >40', Add</i>	9.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.26	
26 05 33	13-0236	EA	1-1/4" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	22.38	10.15
			<i>For Work In Restricted Working Space, Add</i>	6.09	
			<i>For Elevated Installation >10' To 15', Add</i>	2.03	
			<i>For Elevated Installation >15' To 20', Add</i>	4.06	
			<i>For Elevated Installation >20' To 25', Add</i>	5.07	
			<i>For Elevated Installation >25' To 30', Add</i>	7.10	
			<i>For Elevated Installation >30' To 35', Add</i>	8.12	
			<i>For Elevated Installation >35' To 40', Add</i>	10.15	
			<i>For Elevated Installation >40', Add</i>	11.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.09	
26 05 33	13-0237	EA	1-1/2" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	25.54	11.54
			<i>For Work In Restricted Working Space, Add</i>	6.92	
			<i>For Elevated Installation >10' To 15', Add</i>	2.31	
			<i>For Elevated Installation >15' To 20', Add</i>	4.61	
			<i>For Elevated Installation >20' To 25', Add</i>	5.77	
			<i>For Elevated Installation >25' To 30', Add</i>	8.07	
			<i>For Elevated Installation >30' To 35', Add</i>	9.22	
			<i>For Elevated Installation >35' To 40', Add</i>	11.53	
			<i>For Elevated Installation >40', Add</i>	12.68	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0238 EA 1/2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	13.12	6.00
For Work In Restricted Working Space, Add	3.60	
For Elevated Installation >10' To 15', Add	1.20	
For Elevated Installation >15' To 20', Add	2.40	
For Elevated Installation >20' To 25', Add	3.00	
For Elevated Installation >25' To 30', Add	4.20	
For Elevated Installation >30' To 35', Add	4.80	
For Elevated Installation >35' To 40', Add	6.00	
For Elevated Installation >40', Add	6.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.60	
26 05 33 13-0239 EA 3/4" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	15.14	6.92
For Work In Restricted Working Space, Add	4.15	
For Elevated Installation >10' To 15', Add	1.38	
For Elevated Installation >15' To 20', Add	2.77	
For Elevated Installation >20' To 25', Add	3.46	
For Elevated Installation >25' To 30', Add	4.84	
For Elevated Installation >30' To 35', Add	5.53	
For Elevated Installation >35' To 40', Add	6.92	
For Elevated Installation >40', Add	7.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.15	
26 05 33 13-0240 EA 1" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	19.31	8.77
For Work In Restricted Working Space, Add	5.26	
For Elevated Installation >10' To 15', Add	1.75	
For Elevated Installation >15' To 20', Add	3.50	
For Elevated Installation >20' To 25', Add	4.38	
For Elevated Installation >25' To 30', Add	6.13	
For Elevated Installation >30' To 35', Add	7.01	
For Elevated Installation >35' To 40', Add	8.76	
For Elevated Installation >40', Add	9.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.26	
26 05 33 13-0241 EA 1-1/4" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	22.58	10.15
For Work In Restricted Working Space, Add	6.09	
For Elevated Installation >10' To 15', Add	2.03	
For Elevated Installation >15' To 20', Add	4.06	
For Elevated Installation >20' To 25', Add	5.07	
For Elevated Installation >25' To 30', Add	7.10	
For Elevated Installation >30' To 35', Add	8.12	
For Elevated Installation >35' To 40', Add	10.15	
For Elevated Installation >40', Add	11.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.09	
26 05 33 13-0242 EA 1-1/2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	25.86	11.54
For Work In Restricted Working Space, Add	6.92	
For Elevated Installation >10' To 15', Add	2.31	
For Elevated Installation >15' To 20', Add	4.61	
For Elevated Installation >20' To 25', Add	5.77	
For Elevated Installation >25' To 30', Add	8.07	
For Elevated Installation >30' To 35', Add	9.22	
For Elevated Installation >35' To 40', Add	11.53	
For Elevated Installation >40', Add	12.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.92	
26 05 33 13-0243 EA 2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	29.21	12.92
For Work In Restricted Working Space, Add	7.75	
For Elevated Installation >10' To 15', Add	2.58	
For Elevated Installation >15' To 20', Add	5.17	
For Elevated Installation >20' To 25', Add	6.46	
For Elevated Installation >25' To 30', Add	9.04	
For Elevated Installation >30' To 35', Add	10.33	
For Elevated Installation >35' To 40', Add	12.92	
For Elevated Installation >40', Add	14.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.75	
26 05 33 13-0244 EA 1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	13.21	6.00
For Work In Restricted Working Space, Add	3.60	
For Elevated Installation >10' To 15', Add	1.20	
For Elevated Installation >15' To 20', Add	2.40	
For Elevated Installation >20' To 25', Add	3.00	
For Elevated Installation >25' To 30', Add	4.20	
For Elevated Installation >30' To 35', Add	4.80	
For Elevated Installation >35' To 40', Add	6.00	
For Elevated Installation >40', Add	6.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.60	
26 05 33 13-0245 EA 3/4" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	15.26	6.92
For Work In Restricted Working Space, Add	4.15	
For Elevated Installation >10' To 15', Add	1.38	
For Elevated Installation >15' To 20', Add	2.77	
For Elevated Installation >20' To 25', Add	3.46	
For Elevated Installation >25' To 30', Add	4.84	
For Elevated Installation >30' To 35', Add	5.53	
For Elevated Installation >35' To 40', Add	6.92	
For Elevated Installation >40', Add	7.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.15	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0246 EA 1" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	19.52	8.77
For Work In Restricted Working Space, Add	5.26	
For Elevated Installation >10' To 15', Add	1.75	
For Elevated Installation >15' To 20', Add	3.50	
For Elevated Installation >20' To 25', Add	4.38	
For Elevated Installation >25' To 30', Add	6.13	
For Elevated Installation >30' To 35', Add	7.01	
For Elevated Installation >35' To 40', Add	8.76	
For Elevated Installation >40', Add	9.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.26	
26 05 33 13-0247 EA 1-1/4" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	22.76	10.15
For Work In Restricted Working Space, Add	6.09	
For Elevated Installation >10' To 15', Add	2.03	
For Elevated Installation >15' To 20', Add	4.06	
For Elevated Installation >20' To 25', Add	5.07	
For Elevated Installation >25' To 30', Add	7.10	
For Elevated Installation >30' To 35', Add	8.12	
For Elevated Installation >35' To 40', Add	10.15	
For Elevated Installation >40', Add	11.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.09	
26 05 33 13-0248 EA 1-1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	26.08	11.54
For Work In Restricted Working Space, Add	6.92	
For Elevated Installation >10' To 15', Add	2.31	
For Elevated Installation >15' To 20', Add	4.61	
For Elevated Installation >20' To 25', Add	5.77	
For Elevated Installation >25' To 30', Add	8.07	
For Elevated Installation >30' To 35', Add	9.22	
For Elevated Installation >35' To 40', Add	11.53	
For Elevated Installation >40', Add	12.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.92	
26 05 33 13-0249 EA 2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	29.74	12.92
For Work In Restricted Working Space, Add	7.75	
For Elevated Installation >10' To 15', Add	2.58	
For Elevated Installation >15' To 20', Add	5.17	
For Elevated Installation >20' To 25', Add	6.46	
For Elevated Installation >25' To 30', Add	9.04	
For Elevated Installation >30' To 35', Add	10.33	
For Elevated Installation >35' To 40', Add	12.92	
For Elevated Installation >40', Add	14.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.75	
26 05 33 13-0250 EA 2-1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	39.45	15.68
For Work In Restricted Working Space, Add	9.41	
For Elevated Installation >10' To 15', Add	3.14	
For Elevated Installation >15' To 20', Add	6.27	
For Elevated Installation >20' To 25', Add	7.84	
For Elevated Installation >25' To 30', Add	10.98	
For Elevated Installation >30' To 35', Add	12.55	
For Elevated Installation >35' To 40', Add	15.69	
For Elevated Installation >40', Add	17.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.41	
26 05 33 13-0251 EA 3" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	53.28	21.68
For Work In Restricted Working Space, Add	13.01	
For Elevated Installation >10' To 15', Add	4.34	
For Elevated Installation >15' To 20', Add	8.67	
For Elevated Installation >20' To 25', Add	10.84	
For Elevated Installation >25' To 30', Add	15.17	
For Elevated Installation >30' To 35', Add	17.34	
For Elevated Installation >35' To 40', Add	21.68	
For Elevated Installation >40', Add	23.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.01	
26 05 33 13-0252 EA 1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	13.33	6.00
For Work In Restricted Working Space, Add	3.60	
For Elevated Installation >10' To 15', Add	1.20	
For Elevated Installation >15' To 20', Add	2.40	
For Elevated Installation >20' To 25', Add	3.00	
For Elevated Installation >25' To 30', Add	4.20	
For Elevated Installation >30' To 35', Add	4.80	
For Elevated Installation >35' To 40', Add	6.00	
For Elevated Installation >40', Add	6.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.60	
26 05 33 13-0253 EA 3/4" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	15.32	6.92
For Work In Restricted Working Space, Add	4.15	
For Elevated Installation >10' To 15', Add	1.38	
For Elevated Installation >15' To 20', Add	2.77	
For Elevated Installation >20' To 25', Add	3.46	
For Elevated Installation >25' To 30', Add	4.84	
For Elevated Installation >30' To 35', Add	5.53	
For Elevated Installation >35' To 40', Add	6.92	
For Elevated Installation >40', Add	7.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0254 EA 1" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	19.78	8.77
For Work In Restricted Working Space, Add	5.26	
For Elevated Installation >10' To 15', Add	1.75	
For Elevated Installation >15' To 20', Add	3.50	
For Elevated Installation >20' To 25', Add	4.38	
For Elevated Installation >25' To 30', Add	6.13	
For Elevated Installation >30' To 35', Add	7.01	
For Elevated Installation >35' To 40', Add	8.76	
For Elevated Installation >40', Add	9.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.26	
26 05 33 13-0255 EA 1-1/4" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	23.10	10.15
For Work In Restricted Working Space, Add	6.09	
For Elevated Installation >10' To 15', Add	2.03	
For Elevated Installation >15' To 20', Add	4.06	
For Elevated Installation >20' To 25', Add	5.07	
For Elevated Installation >25' To 30', Add	7.10	
For Elevated Installation >30' To 35', Add	8.12	
For Elevated Installation >35' To 40', Add	10.15	
For Elevated Installation >40', Add	11.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.09	
26 05 33 13-0256 EA 1-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	26.52	11.54
For Work In Restricted Working Space, Add	6.92	
For Elevated Installation >10' To 15', Add	2.31	
For Elevated Installation >15' To 20', Add	4.61	
For Elevated Installation >20' To 25', Add	5.77	
For Elevated Installation >25' To 30', Add	8.07	
For Elevated Installation >30' To 35', Add	9.22	
For Elevated Installation >35' To 40', Add	11.53	
For Elevated Installation >40', Add	12.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.92	
26 05 33 13-0257 EA 2" x 3-1/2" Long, Rigid Galvanized Steel (RGS), Nipple	30.29	12.92
For Work In Restricted Working Space, Add	7.75	
For Elevated Installation >10' To 15', Add	2.58	
For Elevated Installation >15' To 20', Add	5.17	
For Elevated Installation >20' To 25', Add	6.46	
For Elevated Installation >25' To 30', Add	9.04	
For Elevated Installation >30' To 35', Add	10.33	
For Elevated Installation >35' To 40', Add	12.92	
For Elevated Installation >40', Add	14.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.75	
26 05 33 13-0258 EA 2-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	40.92	15.68
For Work In Restricted Working Space, Add	9.41	
For Elevated Installation >10' To 15', Add	3.14	
For Elevated Installation >15' To 20', Add	6.27	
For Elevated Installation >20' To 25', Add	7.84	
For Elevated Installation >25' To 30', Add	10.98	
For Elevated Installation >30' To 35', Add	12.55	
For Elevated Installation >35' To 40', Add	15.69	
For Elevated Installation >40', Add	17.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.41	
26 05 33 13-0259 EA 3" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	54.56	21.68
For Work In Restricted Working Space, Add	13.01	
For Elevated Installation >10' To 15', Add	4.34	
For Elevated Installation >15' To 20', Add	8.67	
For Elevated Installation >20' To 25', Add	10.84	
For Elevated Installation >25' To 30', Add	15.17	
For Elevated Installation >30' To 35', Add	17.34	
For Elevated Installation >35' To 40', Add	21.68	
For Elevated Installation >40', Add	23.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.01	
26 05 33 13-0260 EA 1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	13.44	6.00
For Work In Restricted Working Space, Add	3.60	
For Elevated Installation >10' To 15', Add	1.20	
For Elevated Installation >15' To 20', Add	2.40	
For Elevated Installation >20' To 25', Add	3.00	
For Elevated Installation >25' To 30', Add	4.20	
For Elevated Installation >30' To 35', Add	4.80	
For Elevated Installation >35' To 40', Add	6.00	
For Elevated Installation >40', Add	6.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.60	
26 05 33 13-0261 EA 3/4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	15.52	6.92
For Work In Restricted Working Space, Add	4.15	
For Elevated Installation >10' To 15', Add	1.38	
For Elevated Installation >15' To 20', Add	2.77	
For Elevated Installation >20' To 25', Add	3.46	
For Elevated Installation >25' To 30', Add	4.84	
For Elevated Installation >30' To 35', Add	5.53	
For Elevated Installation >35' To 40', Add	6.92	
For Elevated Installation >40', Add	7.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.15	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0262	EA	1" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	19.95	8.77
			<i>For Work In Restricted Working Space, Add</i>	5.26	
			<i>For Elevated Installation >10' To 15', Add</i>	1.75	
			<i>For Elevated Installation >15' To 20', Add</i>	3.50	
			<i>For Elevated Installation >20' To 25', Add</i>	4.38	
			<i>For Elevated Installation >25' To 30', Add</i>	6.13	
			<i>For Elevated Installation >30' To 35', Add</i>	7.01	
			<i>For Elevated Installation >35' To 40', Add</i>	8.76	
			<i>For Elevated Installation >40', Add</i>	9.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.26	
26 05 33	13-0263	EA	1-1/4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	23.27	10.15
			<i>For Work In Restricted Working Space, Add</i>	6.09	
			<i>For Elevated Installation >10' To 15', Add</i>	2.03	
			<i>For Elevated Installation >15' To 20', Add</i>	4.06	
			<i>For Elevated Installation >20' To 25', Add</i>	5.07	
			<i>For Elevated Installation >25' To 30', Add</i>	7.10	
			<i>For Elevated Installation >30' To 35', Add</i>	8.12	
			<i>For Elevated Installation >35' To 40', Add</i>	10.15	
			<i>For Elevated Installation >40', Add</i>	11.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.09	
26 05 33	13-0264	EA	1-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	26.83	11.54
			<i>For Work In Restricted Working Space, Add</i>	6.92	
			<i>For Elevated Installation >10' To 15', Add</i>	2.31	
			<i>For Elevated Installation >15' To 20', Add</i>	4.61	
			<i>For Elevated Installation >20' To 25', Add</i>	5.77	
			<i>For Elevated Installation >25' To 30', Add</i>	8.07	
			<i>For Elevated Installation >30' To 35', Add</i>	9.22	
			<i>For Elevated Installation >35' To 40', Add</i>	11.53	
			<i>For Elevated Installation >40', Add</i>	12.68	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.92	
26 05 33	13-0265	EA	2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	30.75	12.92
			<i>For Work In Restricted Working Space, Add</i>	7.75	
			<i>For Elevated Installation >10' To 15', Add</i>	2.58	
			<i>For Elevated Installation >15' To 20', Add</i>	5.17	
			<i>For Elevated Installation >20' To 25', Add</i>	6.46	
			<i>For Elevated Installation >25' To 30', Add</i>	9.04	
			<i>For Elevated Installation >30' To 35', Add</i>	10.33	
			<i>For Elevated Installation >35' To 40', Add</i>	12.92	
			<i>For Elevated Installation >40', Add</i>	14.21	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.75	
26 05 33	13-0266	EA	2-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	41.37	15.68
			<i>For Work In Restricted Working Space, Add</i>	9.41	
			<i>For Elevated Installation >10' To 15', Add</i>	3.14	
			<i>For Elevated Installation >15' To 20', Add</i>	6.27	
			<i>For Elevated Installation >20' To 25', Add</i>	7.84	
			<i>For Elevated Installation >25' To 30', Add</i>	10.98	
			<i>For Elevated Installation >30' To 35', Add</i>	12.55	
			<i>For Elevated Installation >35' To 40', Add</i>	15.69	
			<i>For Elevated Installation >40', Add</i>	17.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.41	
26 05 33	13-0267	EA	3" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	55.50	21.68
			<i>For Work In Restricted Working Space, Add</i>	13.01	
			<i>For Elevated Installation >10' To 15', Add</i>	4.34	
			<i>For Elevated Installation >15' To 20', Add</i>	8.67	
			<i>For Elevated Installation >20' To 25', Add</i>	10.84	
			<i>For Elevated Installation >25' To 30', Add</i>	15.17	
			<i>For Elevated Installation >30' To 35', Add</i>	17.34	
			<i>For Elevated Installation >35' To 40', Add</i>	21.68	
			<i>For Elevated Installation >40', Add</i>	23.84	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.01	
26 05 33	13-0268	EA	3-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	63.68	24.44
			<i>For Work In Restricted Working Space, Add</i>	14.67	
			<i>For Elevated Installation >10' To 15', Add</i>	4.89	
			<i>For Elevated Installation >15' To 20', Add</i>	9.78	
			<i>For Elevated Installation >20' To 25', Add</i>	12.22	
			<i>For Elevated Installation >25' To 30', Add</i>	17.11	
			<i>For Elevated Installation >30' To 35', Add</i>	19.56	
			<i>For Elevated Installation >35' To 40', Add</i>	24.45	
			<i>For Elevated Installation >40', Add</i>	26.89	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.67	
26 05 33	13-0269	EA	4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	80.24	31.83
			<i>For Work In Restricted Working Space, Add</i>	19.09	
			<i>For Elevated Installation >10' To 15', Add</i>	6.36	
			<i>For Elevated Installation >15' To 20', Add</i>	12.73	
			<i>For Elevated Installation >20' To 25', Add</i>	15.91	
			<i>For Elevated Installation >25' To 30', Add</i>	22.27	
			<i>For Elevated Installation >30' To 35', Add</i>	25.46	
			<i>For Elevated Installation >35' To 40', Add</i>	31.82	
			<i>For Elevated Installation >40', Add</i>	35.00	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0270 EA 1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.62 3.60 1.20 2.40 3.00 4.20 4.80 6.00 6.59 3.60	6.00
26 05 33 13-0271 EA 3/4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.78 4.15 1.38 2.77 3.46 4.84 5.53 6.92 7.61 4.15	6.92
26 05 33 13-0272 EA 1" x 5" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.27 5.26 1.75 3.50 4.38 6.13 7.01 8.76 9.64 5.26	8.77
26 05 33 13-0273 EA 1-1/4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.74 6.09 2.03 4.06 5.07 7.10 8.12 10.15 11.16 6.09	10.15
26 05 33 13-0274 EA 1-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.29 6.92 2.31 4.61 5.77 8.07 9.22 11.53 12.68 6.92	11.54
26 05 33 13-0275 EA 2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.57 7.75 2.58 5.17 6.46 9.04 10.33 12.92 14.21 7.75	12.92
26 05 33 13-0276 EA 2-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.19 9.41 3.14 6.27 7.84 10.98 12.55 15.69 17.25 9.41	15.68
26 05 33 13-0277 EA 3" x 5" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.47 13.01 4.34 8.67 10.84 15.17 17.34 21.68 23.84 13.01	21.68

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0278	EA	3-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	65.64	24.44
			<i>For Work In Restricted Working Space, Add</i>	14.67	
			<i>For Elevated Installation >10' To 15', Add</i>	4.89	
			<i>For Elevated Installation >15' To 20', Add</i>	9.78	
			<i>For Elevated Installation >20' To 25', Add</i>	12.22	
			<i>For Elevated Installation >25' To 30', Add</i>	17.11	
			<i>For Elevated Installation >30' To 35', Add</i>	19.56	
			<i>For Elevated Installation >35' To 40', Add</i>	24.45	
			<i>For Elevated Installation >40', Add</i>	26.89	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.67	
26 05 33	13-0279	EA	4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	83.11	31.83
			<i>For Work In Restricted Working Space, Add</i>	19.09	
			<i>For Elevated Installation >10' To 15', Add</i>	6.36	
			<i>For Elevated Installation >15' To 20', Add</i>	12.73	
			<i>For Elevated Installation >20' To 25', Add</i>	15.91	
			<i>For Elevated Installation >25' To 30', Add</i>	22.27	
			<i>For Elevated Installation >30' To 35', Add</i>	25.46	
			<i>For Elevated Installation >35' To 40', Add</i>	31.82	
			<i>For Elevated Installation >40', Add</i>	35.00	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.09	
26 05 33	13-0280	EA	5" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	125.42	43.81
			<i>For Work In Restricted Working Space, Add</i>	26.29	
			<i>For Elevated Installation >10' To 15', Add</i>	8.76	
			<i>For Elevated Installation >15' To 20', Add</i>	17.53	
			<i>For Elevated Installation >20' To 25', Add</i>	21.91	
			<i>For Elevated Installation >25' To 30', Add</i>	30.67	
			<i>For Elevated Installation >30' To 35', Add</i>	35.05	
			<i>For Elevated Installation >35' To 40', Add</i>	43.82	
			<i>For Elevated Installation >40', Add</i>	48.20	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.29	
26 05 33	13-0281	EA	6" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	159.52	56.18
			<i>For Work In Restricted Working Space, Add</i>	33.73	
			<i>For Elevated Installation >10' To 15', Add</i>	11.24	
			<i>For Elevated Installation >15' To 20', Add</i>	22.49	
			<i>For Elevated Installation >20' To 25', Add</i>	28.11	
			<i>For Elevated Installation >25' To 30', Add</i>	39.35	
			<i>For Elevated Installation >30' To 35', Add</i>	44.97	
			<i>For Elevated Installation >35' To 40', Add</i>	56.22	
			<i>For Elevated Installation >40', Add</i>	61.84	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.73	
26 05 33	13-0282	EA	1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	13.93	6.00
			<i>For Work In Restricted Working Space, Add</i>	3.60	
			<i>For Elevated Installation >10' To 15', Add</i>	1.20	
			<i>For Elevated Installation >15' To 20', Add</i>	2.40	
			<i>For Elevated Installation >20' To 25', Add</i>	3.00	
			<i>For Elevated Installation >25' To 30', Add</i>	4.20	
			<i>For Elevated Installation >30' To 35', Add</i>	4.80	
			<i>For Elevated Installation >35' To 40', Add</i>	6.00	
			<i>For Elevated Installation >40', Add</i>	6.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.60	
26 05 33	13-0283	EA	3/4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	16.10	6.92
			<i>For Work In Restricted Working Space, Add</i>	4.15	
			<i>For Elevated Installation >10' To 15', Add</i>	1.38	
			<i>For Elevated Installation >15' To 20', Add</i>	2.77	
			<i>For Elevated Installation >20' To 25', Add</i>	3.46	
			<i>For Elevated Installation >25' To 30', Add</i>	4.84	
			<i>For Elevated Installation >30' To 35', Add</i>	5.53	
			<i>For Elevated Installation >35' To 40', Add</i>	6.92	
			<i>For Elevated Installation >40', Add</i>	7.61	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.15	
26 05 33	13-0284	EA	1" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	20.53	8.77
			<i>For Work In Restricted Working Space, Add</i>	5.26	
			<i>For Elevated Installation >10' To 15', Add</i>	1.75	
			<i>For Elevated Installation >15' To 20', Add</i>	3.50	
			<i>For Elevated Installation >20' To 25', Add</i>	4.38	
			<i>For Elevated Installation >25' To 30', Add</i>	6.13	
			<i>For Elevated Installation >30' To 35', Add</i>	7.01	
			<i>For Elevated Installation >35' To 40', Add</i>	8.76	
			<i>For Elevated Installation >40', Add</i>	9.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.26	
26 05 33	13-0285	EA	1-1/4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	24.17	10.15
			<i>For Work In Restricted Working Space, Add</i>	6.09	
			<i>For Elevated Installation >10' To 15', Add</i>	2.03	
			<i>For Elevated Installation >15' To 20', Add</i>	4.06	
			<i>For Elevated Installation >20' To 25', Add</i>	5.07	
			<i>For Elevated Installation >25' To 30', Add</i>	7.10	
			<i>For Elevated Installation >30' To 35', Add</i>	8.12	
			<i>For Elevated Installation >35' To 40', Add</i>	10.15	
			<i>For Elevated Installation >40', Add</i>	11.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0286 EA 1-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	28.26	11.54
For Work In Restricted Working Space, Add	6.92	
For Elevated Installation >10' To 15', Add	2.31	
For Elevated Installation >15' To 20', Add	4.61	
For Elevated Installation >20' To 25', Add	5.77	
For Elevated Installation >25' To 30', Add	8.07	
For Elevated Installation >30' To 35', Add	9.22	
For Elevated Installation >35' To 40', Add	11.53	
For Elevated Installation >40', Add	12.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.92	
26 05 33 13-0287 EA 2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	32.39	12.92
For Work In Restricted Working Space, Add	7.75	
For Elevated Installation >10' To 15', Add	2.58	
For Elevated Installation >15' To 20', Add	5.17	
For Elevated Installation >20' To 25', Add	6.46	
For Elevated Installation >25' To 30', Add	9.04	
For Elevated Installation >30' To 35', Add	10.33	
For Elevated Installation >35' To 40', Add	12.92	
For Elevated Installation >40', Add	14.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.75	
26 05 33 13-0288 EA 2-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	44.79	15.68
For Work In Restricted Working Space, Add	9.41	
For Elevated Installation >10' To 15', Add	3.14	
For Elevated Installation >15' To 20', Add	6.27	
For Elevated Installation >20' To 25', Add	7.84	
For Elevated Installation >25' To 30', Add	10.98	
For Elevated Installation >30' To 35', Add	12.55	
For Elevated Installation >35' To 40', Add	15.69	
For Elevated Installation >40', Add	17.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.41	
26 05 33 13-0289 EA 3" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	59.48	21.68
For Work In Restricted Working Space, Add	13.01	
For Elevated Installation >10' To 15', Add	4.34	
For Elevated Installation >15' To 20', Add	8.67	
For Elevated Installation >20' To 25', Add	10.84	
For Elevated Installation >25' To 30', Add	15.17	
For Elevated Installation >30' To 35', Add	17.34	
For Elevated Installation >35' To 40', Add	21.68	
For Elevated Installation >40', Add	23.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.01	
26 05 33 13-0290 EA 3-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	68.03	24.44
For Work In Restricted Working Space, Add	14.67	
For Elevated Installation >10' To 15', Add	4.89	
For Elevated Installation >15' To 20', Add	9.78	
For Elevated Installation >20' To 25', Add	12.22	
For Elevated Installation >25' To 30', Add	17.11	
For Elevated Installation >30' To 35', Add	19.56	
For Elevated Installation >35' To 40', Add	24.45	
For Elevated Installation >40', Add	26.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.67	
26 05 33 13-0291 EA 4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	85.38	31.83
For Work In Restricted Working Space, Add	19.09	
For Elevated Installation >10' To 15', Add	6.36	
For Elevated Installation >15' To 20', Add	12.73	
For Elevated Installation >20' To 25', Add	15.91	
For Elevated Installation >25' To 30', Add	22.27	
For Elevated Installation >30' To 35', Add	25.46	
For Elevated Installation >35' To 40', Add	31.82	
For Elevated Installation >40', Add	35.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.09	
26 05 33 13-0292 EA 5" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	128.75	43.81
For Work In Restricted Working Space, Add	26.29	
For Elevated Installation >10' To 15', Add	8.76	
For Elevated Installation >15' To 20', Add	17.53	
For Elevated Installation >20' To 25', Add	21.91	
For Elevated Installation >25' To 30', Add	30.67	
For Elevated Installation >30' To 35', Add	35.05	
For Elevated Installation >35' To 40', Add	43.82	
For Elevated Installation >40', Add	48.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.29	
26 05 33 13-0293 EA 6" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	164.40	56.18
For Work In Restricted Working Space, Add	33.73	
For Elevated Installation >10' To 15', Add	11.24	
For Elevated Installation >15' To 20', Add	22.49	
For Elevated Installation >20' To 25', Add	28.11	
For Elevated Installation >25' To 30', Add	39.35	
For Elevated Installation >30' To 35', Add	44.97	
For Elevated Installation >35' To 40', Add	56.22	
For Elevated Installation >40', Add	61.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.73	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0294	EA	1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	15.09	6.00
			<i>For Work In Restricted Working Space, Add</i>	3.60	
			<i>For Elevated Installation >10' To 15', Add</i>	1.20	
			<i>For Elevated Installation >15' To 20', Add</i>	2.40	
			<i>For Elevated Installation >20' To 25', Add</i>	3.00	
			<i>For Elevated Installation >25' To 30', Add</i>	4.20	
			<i>For Elevated Installation >30' To 35', Add</i>	4.80	
			<i>For Elevated Installation >35' To 40', Add</i>	6.00	
			<i>For Elevated Installation >40', Add</i>	6.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.60	
26 05 33	13-0295	EA	3/4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	17.58	6.92
			<i>For Work In Restricted Working Space, Add</i>	4.15	
			<i>For Elevated Installation >10' To 15', Add</i>	1.38	
			<i>For Elevated Installation >15' To 20', Add</i>	2.77	
			<i>For Elevated Installation >20' To 25', Add</i>	3.46	
			<i>For Elevated Installation >25' To 30', Add</i>	4.84	
			<i>For Elevated Installation >30' To 35', Add</i>	5.53	
			<i>For Elevated Installation >35' To 40', Add</i>	6.92	
			<i>For Elevated Installation >40', Add</i>	7.61	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.15	
26 05 33	13-0296	EA	1" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	22.26	8.77
			<i>For Work In Restricted Working Space, Add</i>	5.26	
			<i>For Elevated Installation >10' To 15', Add</i>	1.75	
			<i>For Elevated Installation >15' To 20', Add</i>	3.50	
			<i>For Elevated Installation >20' To 25', Add</i>	4.38	
			<i>For Elevated Installation >25' To 30', Add</i>	6.13	
			<i>For Elevated Installation >30' To 35', Add</i>	7.01	
			<i>For Elevated Installation >35' To 40', Add</i>	8.76	
			<i>For Elevated Installation >40', Add</i>	9.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.26	
26 05 33	13-0297	EA	1-1/4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	26.64	10.15
			<i>For Work In Restricted Working Space, Add</i>	6.09	
			<i>For Elevated Installation >10' To 15', Add</i>	2.03	
			<i>For Elevated Installation >15' To 20', Add</i>	4.06	
			<i>For Elevated Installation >20' To 25', Add</i>	5.07	
			<i>For Elevated Installation >25' To 30', Add</i>	7.10	
			<i>For Elevated Installation >30' To 35', Add</i>	8.12	
			<i>For Elevated Installation >35' To 40', Add</i>	10.15	
			<i>For Elevated Installation >40', Add</i>	11.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.09	
26 05 33	13-0298	EA	1-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	31.02	11.54
			<i>For Work In Restricted Working Space, Add</i>	6.92	
			<i>For Elevated Installation >10' To 15', Add</i>	2.31	
			<i>For Elevated Installation >15' To 20', Add</i>	4.61	
			<i>For Elevated Installation >20' To 25', Add</i>	5.77	
			<i>For Elevated Installation >25' To 30', Add</i>	8.07	
			<i>For Elevated Installation >30' To 35', Add</i>	9.22	
			<i>For Elevated Installation >35' To 40', Add</i>	11.53	
			<i>For Elevated Installation >40', Add</i>	12.68	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.92	
26 05 33	13-0299	EA	2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	35.30	12.92
			<i>For Work In Restricted Working Space, Add</i>	7.75	
			<i>For Elevated Installation >10' To 15', Add</i>	2.58	
			<i>For Elevated Installation >15' To 20', Add</i>	5.17	
			<i>For Elevated Installation >20' To 25', Add</i>	6.46	
			<i>For Elevated Installation >25' To 30', Add</i>	9.04	
			<i>For Elevated Installation >30' To 35', Add</i>	10.33	
			<i>For Elevated Installation >35' To 40', Add</i>	12.92	
			<i>For Elevated Installation >40', Add</i>	14.21	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.75	
26 05 33	13-0300	EA	2-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	49.02	15.68
			<i>For Work In Restricted Working Space, Add</i>	9.41	
			<i>For Elevated Installation >10' To 15', Add</i>	3.14	
			<i>For Elevated Installation >15' To 20', Add</i>	6.27	
			<i>For Elevated Installation >20' To 25', Add</i>	7.84	
			<i>For Elevated Installation >25' To 30', Add</i>	10.98	
			<i>For Elevated Installation >30' To 35', Add</i>	12.55	
			<i>For Elevated Installation >35' To 40', Add</i>	15.69	
			<i>For Elevated Installation >40', Add</i>	17.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.41	
26 05 33	13-0301	EA	3" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	64.34	21.68
			<i>For Work In Restricted Working Space, Add</i>	13.01	
			<i>For Elevated Installation >10' To 15', Add</i>	4.34	
			<i>For Elevated Installation >15' To 20', Add</i>	8.67	
			<i>For Elevated Installation >20' To 25', Add</i>	10.84	
			<i>For Elevated Installation >25' To 30', Add</i>	15.17	
			<i>For Elevated Installation >30' To 35', Add</i>	17.34	
			<i>For Elevated Installation >35' To 40', Add</i>	21.68	
			<i>For Elevated Installation >40', Add</i>	23.84	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0302 EA 3-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	72.88	24.44
For Work In Restricted Working Space, Add	14.67	
For Elevated Installation >10' To 15', Add	4.89	
For Elevated Installation >15' To 20', Add	9.78	
For Elevated Installation >20' To 25', Add	12.22	
For Elevated Installation >25' To 30', Add	17.11	
For Elevated Installation >30' To 35', Add	19.56	
For Elevated Installation >35' To 40', Add	24.45	
For Elevated Installation >40', Add	26.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.67	
26 05 33 13-0303 EA 4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	90.73	31.83
For Work In Restricted Working Space, Add	19.09	
For Elevated Installation >10' To 15', Add	6.36	
For Elevated Installation >15' To 20', Add	12.73	
For Elevated Installation >20' To 25', Add	15.91	
For Elevated Installation >25' To 30', Add	22.27	
For Elevated Installation >30' To 35', Add	25.46	
For Elevated Installation >35' To 40', Add	31.82	
For Elevated Installation >40', Add	35.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.09	
26 05 33 13-0304 EA 5" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	136.47	43.81
For Work In Restricted Working Space, Add	26.29	
For Elevated Installation >10' To 15', Add	8.76	
For Elevated Installation >15' To 20', Add	17.53	
For Elevated Installation >20' To 25', Add	21.91	
For Elevated Installation >25' To 30', Add	30.67	
For Elevated Installation >30' To 35', Add	35.05	
For Elevated Installation >35' To 40', Add	43.82	
For Elevated Installation >40', Add	48.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.29	
26 05 33 13-0305 EA 6" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	173.07	56.18
For Work In Restricted Working Space, Add	33.73	
For Elevated Installation >10' To 15', Add	11.24	
For Elevated Installation >15' To 20', Add	22.49	
For Elevated Installation >20' To 25', Add	28.11	
For Elevated Installation >25' To 30', Add	39.35	
For Elevated Installation >30' To 35', Add	44.97	
For Elevated Installation >35' To 40', Add	56.22	
For Elevated Installation >40', Add	61.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.73	
26 05 33 13-0306 EA 1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	15.86	6.00
For Work In Restricted Working Space, Add	3.60	
For Elevated Installation >10' To 15', Add	1.20	
For Elevated Installation >15' To 20', Add	2.40	
For Elevated Installation >20' To 25', Add	3.00	
For Elevated Installation >25' To 30', Add	4.20	
For Elevated Installation >30' To 35', Add	4.80	
For Elevated Installation >35' To 40', Add	6.00	
For Elevated Installation >40', Add	6.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.60	
26 05 33 13-0307 EA 3/4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	18.33	6.92
For Work In Restricted Working Space, Add	4.15	
For Elevated Installation >10' To 15', Add	1.38	
For Elevated Installation >15' To 20', Add	2.77	
For Elevated Installation >20' To 25', Add	3.46	
For Elevated Installation >25' To 30', Add	4.84	
For Elevated Installation >30' To 35', Add	5.53	
For Elevated Installation >35' To 40', Add	6.92	
For Elevated Installation >40', Add	7.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.15	
26 05 33 13-0308 EA 1" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	23.64	8.77
For Work In Restricted Working Space, Add	5.26	
For Elevated Installation >10' To 15', Add	1.75	
For Elevated Installation >15' To 20', Add	3.50	
For Elevated Installation >20' To 25', Add	4.38	
For Elevated Installation >25' To 30', Add	6.13	
For Elevated Installation >30' To 35', Add	7.01	
For Elevated Installation >35' To 40', Add	8.76	
For Elevated Installation >40', Add	9.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.26	
26 05 33 13-0309 EA 1-1/4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	28.28	10.15
For Work In Restricted Working Space, Add	6.09	
For Elevated Installation >10' To 15', Add	2.03	
For Elevated Installation >15' To 20', Add	4.06	
For Elevated Installation >20' To 25', Add	5.07	
For Elevated Installation >25' To 30', Add	7.10	
For Elevated Installation >30' To 35', Add	8.12	
For Elevated Installation >35' To 40', Add	10.15	
For Elevated Installation >40', Add	11.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.09	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0310	EA	1-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	32.63	11.54
			<i>For Work In Restricted Working Space, Add</i>	6.92	
			<i>For Elevated Installation >10' To 15', Add</i>	2.31	
			<i>For Elevated Installation >15' To 20', Add</i>	4.61	
			<i>For Elevated Installation >20' To 25', Add</i>	5.77	
			<i>For Elevated Installation >25' To 30', Add</i>	8.07	
			<i>For Elevated Installation >30' To 35', Add</i>	9.22	
			<i>For Elevated Installation >35' To 40', Add</i>	11.53	
			<i>For Elevated Installation >40', Add</i>	12.68	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.92	
26 05 33	13-0311	EA	2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	37.17	12.92
			<i>For Work In Restricted Working Space, Add</i>	7.75	
			<i>For Elevated Installation >10' To 15', Add</i>	2.58	
			<i>For Elevated Installation >15' To 20', Add</i>	5.17	
			<i>For Elevated Installation >20' To 25', Add</i>	6.46	
			<i>For Elevated Installation >25' To 30', Add</i>	9.04	
			<i>For Elevated Installation >30' To 35', Add</i>	10.33	
			<i>For Elevated Installation >35' To 40', Add</i>	12.92	
			<i>For Elevated Installation >40', Add</i>	14.21	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.75	
26 05 33	13-0312	EA	2-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	51.86	15.68
			<i>For Work In Restricted Working Space, Add</i>	9.41	
			<i>For Elevated Installation >10' To 15', Add</i>	3.14	
			<i>For Elevated Installation >15' To 20', Add</i>	6.27	
			<i>For Elevated Installation >20' To 25', Add</i>	7.84	
			<i>For Elevated Installation >25' To 30', Add</i>	10.98	
			<i>For Elevated Installation >30' To 35', Add</i>	12.55	
			<i>For Elevated Installation >35' To 40', Add</i>	15.69	
			<i>For Elevated Installation >40', Add</i>	17.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.41	
26 05 33	13-0313	EA	3" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	68.15	21.68
			<i>For Work In Restricted Working Space, Add</i>	13.01	
			<i>For Elevated Installation >10' To 15', Add</i>	4.34	
			<i>For Elevated Installation >15' To 20', Add</i>	8.67	
			<i>For Elevated Installation >20' To 25', Add</i>	10.84	
			<i>For Elevated Installation >25' To 30', Add</i>	15.17	
			<i>For Elevated Installation >30' To 35', Add</i>	17.34	
			<i>For Elevated Installation >35' To 40', Add</i>	21.68	
			<i>For Elevated Installation >40', Add</i>	23.84	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.01	
26 05 33	13-0314	EA	3-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	77.91	24.44
			<i>For Work In Restricted Working Space, Add</i>	14.67	
			<i>For Elevated Installation >10' To 15', Add</i>	4.89	
			<i>For Elevated Installation >15' To 20', Add</i>	9.78	
			<i>For Elevated Installation >20' To 25', Add</i>	12.22	
			<i>For Elevated Installation >25' To 30', Add</i>	17.11	
			<i>For Elevated Installation >30' To 35', Add</i>	19.56	
			<i>For Elevated Installation >35' To 40', Add</i>	24.45	
			<i>For Elevated Installation >40', Add</i>	26.89	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.67	
26 05 33	13-0315	EA	4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	97.10	31.83
			<i>For Work In Restricted Working Space, Add</i>	19.09	
			<i>For Elevated Installation >10' To 15', Add</i>	6.36	
			<i>For Elevated Installation >15' To 20', Add</i>	12.73	
			<i>For Elevated Installation >20' To 25', Add</i>	15.91	
			<i>For Elevated Installation >25' To 30', Add</i>	22.27	
			<i>For Elevated Installation >30' To 35', Add</i>	25.46	
			<i>For Elevated Installation >35' To 40', Add</i>	31.82	
			<i>For Elevated Installation >40', Add</i>	35.00	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.09	
26 05 33	13-0316	EA	5" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	144.89	43.81
			<i>For Work In Restricted Working Space, Add</i>	26.29	
			<i>For Elevated Installation >10' To 15', Add</i>	8.76	
			<i>For Elevated Installation >15' To 20', Add</i>	17.53	
			<i>For Elevated Installation >20' To 25', Add</i>	21.91	
			<i>For Elevated Installation >25' To 30', Add</i>	30.67	
			<i>For Elevated Installation >30' To 35', Add</i>	35.05	
			<i>For Elevated Installation >35' To 40', Add</i>	43.82	
			<i>For Elevated Installation >40', Add</i>	48.20	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.29	
26 05 33	13-0317	EA	6" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	188.21	56.18
			<i>For Work In Restricted Working Space, Add</i>	33.73	
			<i>For Elevated Installation >10' To 15', Add</i>	11.24	
			<i>For Elevated Installation >15' To 20', Add</i>	22.49	
			<i>For Elevated Installation >20' To 25', Add</i>	28.11	
			<i>For Elevated Installation >25' To 30', Add</i>	39.35	
			<i>For Elevated Installation >30' To 35', Add</i>	44.97	
			<i>For Elevated Installation >35' To 40', Add</i>	56.22	
			<i>For Elevated Installation >40', Add</i>	61.84	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.73	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0318 EA 1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.46 3.60 1.20 2.40 3.00 4.20 4.80 6.00 6.59 3.60	6.00
26 05 33 13-0319 EA 3/4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.89 4.15 1.38 2.77 3.46 4.84 5.53 6.92 7.61 4.15	6.92
26 05 33 13-0320 EA 1" x 12" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.47 5.26 1.75 3.50 4.38 6.13 7.01 8.76 9.64 5.26	8.77
26 05 33 13-0321 EA 1-1/4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.60 6.09 2.03 4.06 5.07 7.10 8.12 10.15 11.16 6.09	10.15
26 05 33 13-0322 EA 1-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.44 6.92 2.31 4.61 5.77 8.07 9.22 11.53 12.68 6.92	11.54
26 05 33 13-0323 EA 2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.74 7.75 2.58 5.17 6.46 9.04 10.33 12.92 14.21 7.75	12.92
26 05 33 13-0324 EA 2-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.21 9.41 3.14 6.27 7.84 10.98 12.55 15.69 17.25 9.41	15.68
26 05 33 13-0325 EA 3" x 12" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.47 13.01 4.34 8.67 10.84 15.17 17.34 21.68 23.84 13.01	21.68

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0326 EA 3-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	82.80	24.44
For Work In Restricted Working Space, Add	14.67	
For Elevated Installation >10' To 15', Add	4.89	
For Elevated Installation >15' To 20', Add	9.78	
For Elevated Installation >20' To 25', Add	12.22	
For Elevated Installation >25' To 30', Add	17.11	
For Elevated Installation >30' To 35', Add	19.56	
For Elevated Installation >35' To 40', Add	24.45	
For Elevated Installation >40', Add	26.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.67	
26 05 33 13-0327 EA 4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	103.48	31.83
For Work In Restricted Working Space, Add	19.09	
For Elevated Installation >10' To 15', Add	6.36	
For Elevated Installation >15' To 20', Add	12.73	
For Elevated Installation >20' To 25', Add	15.91	
For Elevated Installation >25' To 30', Add	22.27	
For Elevated Installation >30' To 35', Add	25.46	
For Elevated Installation >35' To 40', Add	31.82	
For Elevated Installation >40', Add	35.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.09	
26 05 33 13-0328 EA 5" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	156.99	43.81
For Work In Restricted Working Space, Add	26.29	
For Elevated Installation >10' To 15', Add	8.76	
For Elevated Installation >15' To 20', Add	17.53	
For Elevated Installation >20' To 25', Add	21.91	
For Elevated Installation >25' To 30', Add	30.67	
For Elevated Installation >30' To 35', Add	35.05	
For Elevated Installation >35' To 40', Add	43.82	
For Elevated Installation >40', Add	48.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.29	
26 05 33 13-0329 EA 6" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	196.63	56.18
For Work In Restricted Working Space, Add	33.73	
For Elevated Installation >10' To 15', Add	11.24	
For Elevated Installation >15' To 20', Add	22.49	
For Elevated Installation >20' To 25', Add	28.11	
For Elevated Installation >25' To 30', Add	39.35	
For Elevated Installation >30' To 35', Add	44.97	
For Elevated Installation >35' To 40', Add	56.22	
For Elevated Installation >40', Add	61.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.73	
26 05 33 13-0330 Rigid Galvanized Steel (RGS) Off-Set Nipples (26 05 33 13-0059)		
26 05 33 13-0331 EA 1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple	14.13	4.79
For Work In Restricted Working Space, Add	3.63	
For Elevated Installation >10' To 15', Add	1.21	
For Elevated Installation >15' To 20', Add	2.42	
For Elevated Installation >20' To 25', Add	3.02	
For Elevated Installation >25' To 30', Add	4.23	
For Elevated Installation >30' To 35', Add	4.84	
For Elevated Installation >35' To 40', Add	6.05	
For Elevated Installation >40', Add	6.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.63	
26 05 33 13-0332 EA 3/4" Rigid Galvanized Steel (RGS) Off-Set Nipple	16.88	5.54
For Work In Restricted Working Space, Add	4.13	
For Elevated Installation >10' To 15', Add	1.38	
For Elevated Installation >15' To 20', Add	2.75	
For Elevated Installation >20' To 25', Add	3.44	
For Elevated Installation >25' To 30', Add	4.82	
For Elevated Installation >30' To 35', Add	5.50	
For Elevated Installation >35' To 40', Add	6.88	
For Elevated Installation >40', Add	7.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.13	
26 05 33 13-0333 EA 1" Rigid Galvanized Steel (RGS) Off-Set Nipple	21.16	7.01
For Work In Restricted Working Space, Add	5.28	
For Elevated Installation >10' To 15', Add	1.76	
For Elevated Installation >15' To 20', Add	3.52	
For Elevated Installation >20' To 25', Add	4.40	
For Elevated Installation >25' To 30', Add	6.16	
For Elevated Installation >30' To 35', Add	7.04	
For Elevated Installation >35' To 40', Add	8.80	
For Elevated Installation >40', Add	9.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.28	
26 05 33 13-0334 EA 1-1/4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	26.85	8.40
For Work In Restricted Working Space, Add	6.33	
For Elevated Installation >10' To 15', Add	2.11	
For Elevated Installation >15' To 20', Add	4.22	
For Elevated Installation >20' To 25', Add	5.27	
For Elevated Installation >25' To 30', Add	7.38	
For Elevated Installation >30' To 35', Add	8.44	
For Elevated Installation >35' To 40', Add	10.55	
For Elevated Installation >40', Add	11.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0335 EA 1-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	29.40	9.23
For Work In Restricted Working Space, Add	6.92	
For Elevated Installation >10' To 15', Add	2.31	
For Elevated Installation >15' To 20', Add	4.62	
For Elevated Installation >20' To 25', Add	5.77	
For Elevated Installation >25' To 30', Add	8.08	
For Elevated Installation >30' To 35', Add	9.23	
For Elevated Installation >35' To 40', Add	11.54	
For Elevated Installation >40', Add	12.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.92	
26 05 33 13-0336 EA 2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	38.47	11.34
For Work In Restricted Working Space, Add	8.53	
For Elevated Installation >10' To 15', Add	2.84	
For Elevated Installation >15' To 20', Add	5.69	
For Elevated Installation >20' To 25', Add	7.11	
For Elevated Installation >25' To 30', Add	9.95	
For Elevated Installation >30' To 35', Add	11.37	
For Elevated Installation >35' To 40', Add	14.22	
For Elevated Installation >40', Add	15.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.53	
26 05 33 13-0337 EA 2-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	62.85	18.45
For Work In Restricted Working Space, Add	13.84	
For Elevated Installation >10' To 15', Add	4.61	
For Elevated Installation >15' To 20', Add	9.22	
For Elevated Installation >20' To 25', Add	11.53	
For Elevated Installation >25' To 30', Add	16.14	
For Elevated Installation >30' To 35', Add	18.45	
For Elevated Installation >35' To 40', Add	23.06	
For Elevated Installation >40', Add	25.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.84	
26 05 33 13-0338 EA 3" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	101.65	25.46
For Work In Restricted Working Space, Add	19.10	
For Elevated Installation >10' To 15', Add	6.37	
For Elevated Installation >15' To 20', Add	12.73	
For Elevated Installation >20' To 25', Add	15.91	
For Elevated Installation >25' To 30', Add	22.28	
For Elevated Installation >30' To 35', Add	25.46	
For Elevated Installation >35' To 40', Add	31.83	
For Elevated Installation >40', Add	35.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.10	
26 05 33 13-0339 EA 3-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	126.07	30.07
For Work In Restricted Working Space, Add	22.43	
For Elevated Installation >10' To 15', Add	7.48	
For Elevated Installation >15' To 20', Add	14.95	
For Elevated Installation >20' To 25', Add	18.69	
For Elevated Installation >25' To 30', Add	26.17	
For Elevated Installation >30' To 35', Add	29.91	
For Elevated Installation >35' To 40', Add	37.39	
For Elevated Installation >40', Add	41.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.43	
26 05 33 13-0340 EA 4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	151.26	34.69
For Work In Restricted Working Space, Add	26.02	
For Elevated Installation >10' To 15', Add	8.67	
For Elevated Installation >15' To 20', Add	17.34	
For Elevated Installation >20' To 25', Add	21.68	
For Elevated Installation >25' To 30', Add	30.35	
For Elevated Installation >30' To 35', Add	34.69	
For Elevated Installation >35' To 40', Add	43.36	
For Elevated Installation >40', Add	47.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.02	
26 05 33 13-0341 Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling <small>(26 05 33 13-0059)</small>		
Note: Erickson fittings.		
26 05 33 13-0342 EA 1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	38.54	14.75
For Work In Restricted Working Space, Add	11.08	
For Elevated Installation >10' To 15', Add	3.69	
For Elevated Installation >15' To 20', Add	7.39	
For Elevated Installation >20' To 25', Add	9.24	
For Elevated Installation >25' To 30', Add	12.93	
For Elevated Installation >30' To 35', Add	14.78	
For Elevated Installation >35' To 40', Add	18.47	
For Elevated Installation >40', Add	20.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.08	
26 05 33 13-0343 EA 3/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	43.28	16.51
For Work In Restricted Working Space, Add	12.37	
For Elevated Installation >10' To 15', Add	4.12	
For Elevated Installation >15' To 20', Add	8.25	
For Elevated Installation >20' To 25', Add	10.31	
For Elevated Installation >25' To 30', Add	14.43	
For Elevated Installation >30' To 35', Add	16.49	
For Elevated Installation >35' To 40', Add	20.62	
For Elevated Installation >40', Add	22.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	

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26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0344	EA	1" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	49.72	18.36
			<i>For Work In Restricted Working Space, Add</i>	13.78	
			<i>For Elevated Installation >10' To 15', Add</i>	4.59	
			<i>For Elevated Installation >15' To 20', Add</i>	9.19	
			<i>For Elevated Installation >20' To 25', Add</i>	11.48	
			<i>For Elevated Installation >25' To 30', Add</i>	16.08	
			<i>For Elevated Installation >30' To 35', Add</i>	18.37	
			<i>For Elevated Installation >35' To 40', Add</i>	22.97	
			<i>For Elevated Installation >40', Add</i>	25.26	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.78	
26 05 33	13-0345	EA	1-1/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	58.34	20.11
			<i>For Work In Restricted Working Space, Add</i>	15.08	
			<i>For Elevated Installation >10' To 15', Add</i>	5.03	
			<i>For Elevated Installation >15' To 20', Add</i>	10.05	
			<i>For Elevated Installation >20' To 25', Add</i>	12.57	
			<i>For Elevated Installation >25' To 30', Add</i>	17.59	
			<i>For Elevated Installation >30' To 35', Add</i>	20.10	
			<i>For Elevated Installation >35' To 40', Add</i>	25.13	
			<i>For Elevated Installation >40', Add</i>	27.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.08	
26 05 33	13-0346	EA	1-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	64.67	21.96
			<i>For Work In Restricted Working Space, Add</i>	16.50	
			<i>For Elevated Installation >10' To 15', Add</i>	5.50	
			<i>For Elevated Installation >15' To 20', Add</i>	11.00	
			<i>For Elevated Installation >20' To 25', Add</i>	13.75	
			<i>For Elevated Installation >25' To 30', Add</i>	19.25	
			<i>For Elevated Installation >30' To 35', Add</i>	22.00	
			<i>For Elevated Installation >35' To 40', Add</i>	27.50	
			<i>For Elevated Installation >40', Add</i>	30.24	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.50	
26 05 33	13-0347	EA	2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	78.95	23.80
			<i>For Work In Restricted Working Space, Add</i>	17.87	
			<i>For Elevated Installation >10' To 15', Add</i>	5.96	
			<i>For Elevated Installation >15' To 20', Add</i>	11.91	
			<i>For Elevated Installation >20' To 25', Add</i>	14.89	
			<i>For Elevated Installation >25' To 30', Add</i>	20.84	
			<i>For Elevated Installation >30' To 35', Add</i>	23.82	
			<i>For Elevated Installation >35' To 40', Add</i>	29.78	
			<i>For Elevated Installation >40', Add</i>	32.75	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.87	
26 05 33	13-0348	EA	2-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	118.72	29.52
			<i>For Work In Restricted Working Space, Add</i>	22.14	
			<i>For Elevated Installation >10' To 15', Add</i>	7.38	
			<i>For Elevated Installation >15' To 20', Add</i>	14.76	
			<i>For Elevated Installation >20' To 25', Add</i>	18.45	
			<i>For Elevated Installation >25' To 30', Add</i>	25.83	
			<i>For Elevated Installation >30' To 35', Add</i>	29.52	
			<i>For Elevated Installation >35' To 40', Add</i>	36.90	
			<i>For Elevated Installation >40', Add</i>	40.58	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.14	
26 05 33	13-0349	EA	3" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	160.44	36.90
			<i>For Work In Restricted Working Space, Add</i>	27.68	
			<i>For Elevated Installation >10' To 15', Add</i>	9.23	
			<i>For Elevated Installation >15' To 20', Add</i>	18.45	
			<i>For Elevated Installation >20' To 25', Add</i>	23.06	
			<i>For Elevated Installation >25' To 30', Add</i>	32.29	
			<i>For Elevated Installation >30' To 35', Add</i>	36.90	
			<i>For Elevated Installation >35' To 40', Add</i>	46.13	
			<i>For Elevated Installation >40', Add</i>	50.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.68	
26 05 33	13-0350	EA	3-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	224.32	44.28
			<i>For Work In Restricted Working Space, Add</i>	33.22	
			<i>For Elevated Installation >10' To 15', Add</i>	11.07	
			<i>For Elevated Installation >15' To 20', Add</i>	22.15	
			<i>For Elevated Installation >20' To 25', Add</i>	27.69	
			<i>For Elevated Installation >25' To 30', Add</i>	38.76	
			<i>For Elevated Installation >30' To 35', Add</i>	44.30	
			<i>For Elevated Installation >35' To 40', Add</i>	55.37	
			<i>For Elevated Installation >40', Add</i>	60.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.22	
26 05 33	13-0351	EA	4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	253.48	47.97
			<i>For Work In Restricted Working Space, Add</i>	35.97	
			<i>For Elevated Installation >10' To 15', Add</i>	11.99	
			<i>For Elevated Installation >15' To 20', Add</i>	23.98	
			<i>For Elevated Installation >20' To 25', Add</i>	29.98	
			<i>For Elevated Installation >25' To 30', Add</i>	41.97	
			<i>For Elevated Installation >30' To 35', Add</i>	47.96	
			<i>For Elevated Installation >35' To 40', Add</i>	59.96	
			<i>For Elevated Installation >40', Add</i>	65.95	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0352 EA 5" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	421.70	59.04
For Work In Restricted Working Space, Add	44.27	
For Elevated Installation >10' To 15', Add	14.76	
For Elevated Installation >15' To 20', Add	29.52	
For Elevated Installation >20' To 25', Add	36.90	
For Elevated Installation >25' To 30', Add	51.65	
For Elevated Installation >30' To 35', Add	59.03	
For Elevated Installation >35' To 40', Add	73.79	
For Elevated Installation >40', Add	81.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.27	
26 05 33 13-0353 EA 6" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	536.02	68.26
For Work In Restricted Working Space, Add	51.19	
For Elevated Installation >10' To 15', Add	17.06	
For Elevated Installation >15' To 20', Add	34.13	
For Elevated Installation >20' To 25', Add	42.66	
For Elevated Installation >25' To 30', Add	59.72	
For Elevated Installation >30' To 35', Add	68.26	
For Elevated Installation >35' To 40', Add	85.32	
For Elevated Installation >40', Add	93.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.19	
26 05 33 13-0354 Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connectors <small>(26 05 33 13-0059)</small>		
26 05 33 13-0355 EA 1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	23.93	7.38
For Work In Restricted Working Space, Add	5.54	
For Elevated Installation >10' To 15', Add	1.85	
For Elevated Installation >15' To 20', Add	3.69	
For Elevated Installation >20' To 25', Add	4.61	
For Elevated Installation >25' To 30', Add	6.46	
For Elevated Installation >30' To 35', Add	7.38	
For Elevated Installation >35' To 40', Add	9.23	
For Elevated Installation >40', Add	10.15	
26 05 33 13-0356 EA 3/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	26.77	8.11
For Work In Restricted Working Space, Add	6.09	
For Elevated Installation >10' To 15', Add	2.03	
For Elevated Installation >15' To 20', Add	4.06	
For Elevated Installation >20' To 25', Add	5.07	
For Elevated Installation >25' To 30', Add	7.10	
For Elevated Installation >30' To 35', Add	8.12	
For Elevated Installation >35' To 40', Add	10.15	
For Elevated Installation >40', Add	11.16	
26 05 33 13-0357 EA 1" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	30.78	9.23
For Work In Restricted Working Space, Add	6.92	
For Elevated Installation >10' To 15', Add	2.31	
For Elevated Installation >15' To 20', Add	4.61	
For Elevated Installation >20' To 25', Add	5.77	
For Elevated Installation >25' To 30', Add	8.07	
For Elevated Installation >30' To 35', Add	9.22	
For Elevated Installation >35' To 40', Add	11.53	
For Elevated Installation >40', Add	12.68	
26 05 33 13-0358 EA 1-1/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	35.10	9.96
For Work In Restricted Working Space, Add	7.47	
For Elevated Installation >10' To 15', Add	2.49	
For Elevated Installation >15' To 20', Add	4.98	
For Elevated Installation >20' To 25', Add	6.23	
For Elevated Installation >25' To 30', Add	8.72	
For Elevated Installation >30' To 35', Add	9.96	
For Elevated Installation >35' To 40', Add	12.46	
For Elevated Installation >40', Add	13.70	
26 05 33 13-0359 EA 1-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	41.87	11.07
For Work In Restricted Working Space, Add	8.30	
For Elevated Installation >10' To 15', Add	2.77	
For Elevated Installation >15' To 20', Add	5.53	
For Elevated Installation >20' To 25', Add	6.92	
For Elevated Installation >25' To 30', Add	9.68	
For Elevated Installation >30' To 35', Add	11.07	
For Elevated Installation >35' To 40', Add	13.84	
For Elevated Installation >40', Add	15.22	
26 05 33 13-0360 EA 2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	51.43	12.18
For Work In Restricted Working Space, Add	9.13	
For Elevated Installation >10' To 15', Add	3.04	
For Elevated Installation >15' To 20', Add	6.09	
For Elevated Installation >20' To 25', Add	7.61	
For Elevated Installation >25' To 30', Add	10.65	
For Elevated Installation >30' To 35', Add	12.18	
For Elevated Installation >35' To 40', Add	15.22	
For Elevated Installation >40', Add	16.74	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0361 EA 2-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	70.55	14.75
For Work In Restricted Working Space, Add	11.07	
For Elevated Installation >10' To 15', Add	3.69	
For Elevated Installation >15' To 20', Add	7.38	
For Elevated Installation >20' To 25', Add	9.23	
For Elevated Installation >25' To 30', Add	12.92	
For Elevated Installation >30' To 35', Add	14.76	
For Elevated Installation >35' To 40', Add	18.45	
For Elevated Installation >40', Add	20.30	
26 05 33 13-0362 EA 3" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	87.18	18.45
For Work In Restricted Working Space, Add	13.84	
For Elevated Installation >10' To 15', Add	4.61	
For Elevated Installation >15' To 20', Add	9.22	
For Elevated Installation >20' To 25', Add	11.53	
For Elevated Installation >25' To 30', Add	16.14	
For Elevated Installation >30' To 35', Add	18.45	
For Elevated Installation >35' To 40', Add	23.06	
For Elevated Installation >40', Add	25.37	
26 05 33 13-0363 EA 3-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	104.74	22.14
For Work In Restricted Working Space, Add	16.61	
For Elevated Installation >10' To 15', Add	5.54	
For Elevated Installation >15' To 20', Add	11.07	
For Elevated Installation >20' To 25', Add	13.84	
For Elevated Installation >25' To 30', Add	19.37	
For Elevated Installation >30' To 35', Add	22.14	
For Elevated Installation >35' To 40', Add	27.68	
For Elevated Installation >40', Add	30.44	
26 05 33 13-0364 EA 4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	118.62	23.98
For Work In Restricted Working Space, Add	17.99	
For Elevated Installation >10' To 15', Add	6.00	
For Elevated Installation >15' To 20', Add	11.99	
For Elevated Installation >20' To 25', Add	14.99	
For Elevated Installation >25' To 30', Add	20.99	
For Elevated Installation >30' To 35', Add	23.98	
For Elevated Installation >35' To 40', Add	29.98	
For Elevated Installation >40', Add	32.98	
26 05 33 13-0365 Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs (26 05 33 13-0059)		
26 05 33 13-0366 EA 1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	19.42	8.31
For Work In Restricted Working Space, Add	4.98	
For Elevated Installation >10' To 15', Add	1.66	
For Elevated Installation >15' To 20', Add	3.32	
For Elevated Installation >20' To 25', Add	4.15	
For Elevated Installation >25' To 30', Add	5.81	
For Elevated Installation >30' To 35', Add	6.64	
For Elevated Installation >35' To 40', Add	8.30	
For Elevated Installation >40', Add	9.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26 05 33 13-0367 EA 3/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	21.63	9.23
For Work In Restricted Working Space, Add	5.54	
For Elevated Installation >10' To 15', Add	1.85	
For Elevated Installation >15' To 20', Add	3.69	
For Elevated Installation >20' To 25', Add	4.61	
For Elevated Installation >25' To 30', Add	6.46	
For Elevated Installation >30' To 35', Add	7.38	
For Elevated Installation >35' To 40', Add	9.23	
For Elevated Installation >40', Add	10.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.54	
26 05 33 13-0368 EA 1" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	26.80	11.54
For Work In Restricted Working Space, Add	6.92	
For Elevated Installation >10' To 15', Add	2.31	
For Elevated Installation >15' To 20', Add	4.61	
For Elevated Installation >20' To 25', Add	5.77	
For Elevated Installation >25' To 30', Add	8.07	
For Elevated Installation >30' To 35', Add	9.22	
For Elevated Installation >35' To 40', Add	11.53	
For Elevated Installation >40', Add	12.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.92	
26 05 33 13-0369 EA 1-1/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	32.75	13.83
For Work In Restricted Working Space, Add	8.30	
For Elevated Installation >10' To 15', Add	2.77	
For Elevated Installation >15' To 20', Add	5.53	
For Elevated Installation >20' To 25', Add	6.92	
For Elevated Installation >25' To 30', Add	9.68	
For Elevated Installation >30' To 35', Add	11.07	
For Elevated Installation >35' To 40', Add	13.84	
For Elevated Installation >40', Add	15.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0370 EA 1-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	42.48	18.45
For Work In Restricted Working Space, Add	11.07	
For Elevated Installation >10' To 15', Add	3.69	
For Elevated Installation >15' To 20', Add	7.38	
For Elevated Installation >20' To 25', Add	9.23	
For Elevated Installation >25' To 30', Add	12.92	
For Elevated Installation >30' To 35', Add	14.76	
For Elevated Installation >35' To 40', Add	18.45	
For Elevated Installation >40', Add	20.30	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.07	
26 05 33 13-0371 EA 2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	48.96	20.75
For Work In Restricted Working Space, Add	12.45	
For Elevated Installation >10' To 15', Add	4.15	
For Elevated Installation >15' To 20', Add	8.30	
For Elevated Installation >20' To 25', Add	10.38	
For Elevated Installation >25' To 30', Add	14.53	
For Elevated Installation >30' To 35', Add	16.60	
For Elevated Installation >35' To 40', Add	20.76	
For Elevated Installation >40', Add	22.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 05 33 13-0372 EA 2-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	58.78	23.06
For Work In Restricted Working Space, Add	13.84	
For Elevated Installation >10' To 15', Add	4.61	
For Elevated Installation >15' To 20', Add	9.22	
For Elevated Installation >20' To 25', Add	11.53	
For Elevated Installation >25' To 30', Add	16.14	
For Elevated Installation >30' To 35', Add	18.45	
For Elevated Installation >35' To 40', Add	23.06	
For Elevated Installation >40', Add	25.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.84	
26 05 33 13-0373 EA 3" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	77.96	29.06
For Work In Restricted Working Space, Add	17.44	
For Elevated Installation >10' To 15', Add	5.81	
For Elevated Installation >15' To 20', Add	11.62	
For Elevated Installation >20' To 25', Add	14.53	
For Elevated Installation >25' To 30', Add	20.34	
For Elevated Installation >30' To 35', Add	23.25	
For Elevated Installation >35' To 40', Add	29.06	
For Elevated Installation >40', Add	31.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.44	
26 05 33 13-0374 EA 3-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	92.88	35.06
For Work In Restricted Working Space, Add	21.03	
For Elevated Installation >10' To 15', Add	7.01	
For Elevated Installation >15' To 20', Add	14.02	
For Elevated Installation >20' To 25', Add	17.53	
For Elevated Installation >25' To 30', Add	24.54	
For Elevated Installation >30' To 35', Add	28.04	
For Elevated Installation >35' To 40', Add	35.05	
For Elevated Installation >40', Add	38.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.03	
26 05 33 13-0375 EA 4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	113.05	41.51
For Work In Restricted Working Space, Add	24.91	
For Elevated Installation >10' To 15', Add	8.30	
For Elevated Installation >15' To 20', Add	16.60	
For Elevated Installation >20' To 25', Add	20.76	
For Elevated Installation >25' To 30', Add	29.06	
For Elevated Installation >30' To 35', Add	33.21	
For Elevated Installation >35' To 40', Add	41.51	
For Elevated Installation >40', Add	45.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.91	
26 05 33 13-0376 Rigid Galvanized Steel (RGS) Expansion Fittings, 4" Conduit Movement^(26 05 33 13-0376)		
Note: Type AX		
26 05 33 13-0377 EA 1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	100.96	14.75
For Work In Restricted Working Space, Add	11.07	
For Elevated Installation >10' To 15', Add	3.69	
For Elevated Installation >15' To 20', Add	7.38	
For Elevated Installation >20' To 25', Add	9.23	
For Elevated Installation >25' To 30', Add	12.92	
For Elevated Installation >30' To 35', Add	14.76	
For Elevated Installation >35' To 40', Add	18.45	
For Elevated Installation >40', Add	20.30	
26 05 33 13-0378 EA 3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	114.64	16.60
For Work In Restricted Working Space, Add	12.45	
For Elevated Installation >10' To 15', Add	4.15	
For Elevated Installation >15' To 20', Add	8.30	
For Elevated Installation >20' To 25', Add	10.38	
For Elevated Installation >25' To 30', Add	14.53	
For Elevated Installation >30' To 35', Add	16.60	
For Elevated Installation >35' To 40', Add	20.76	
For Elevated Installation >40', Add	22.83	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0379	EA	1" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	136.09	18.45
			<i>For Work In Restricted Working Space, Add</i>	13.84	
			<i>For Elevated Installation >10' To 15', Add</i>	4.61	
			<i>For Elevated Installation >15' To 20', Add</i>	9.23	
			<i>For Elevated Installation >20' To 25', Add</i>	11.53	
			<i>For Elevated Installation >25' To 30', Add</i>	16.15	
			<i>For Elevated Installation >30' To 35', Add</i>	18.45	
			<i>For Elevated Installation >35' To 40', Add</i>	23.07	
			<i>For Elevated Installation >40', Add</i>	25.37	
26 05 33	13-0380	EA	1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	167.27	20.29
			<i>For Work In Restricted Working Space, Add</i>	15.22	
			<i>For Elevated Installation >10' To 15', Add</i>	5.07	
			<i>For Elevated Installation >15' To 20', Add</i>	10.15	
			<i>For Elevated Installation >20' To 25', Add</i>	12.69	
			<i>For Elevated Installation >25' To 30', Add</i>	17.76	
			<i>For Elevated Installation >30' To 35', Add</i>	20.30	
			<i>For Elevated Installation >35' To 40', Add</i>	25.37	
			<i>For Elevated Installation >40', Add</i>	27.91	
26 05 33	13-0381	EA	1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	211.08	22.14
			<i>For Work In Restricted Working Space, Add</i>	16.61	
			<i>For Elevated Installation >10' To 15', Add</i>	5.54	
			<i>For Elevated Installation >15' To 20', Add</i>	11.07	
			<i>For Elevated Installation >20' To 25', Add</i>	13.84	
			<i>For Elevated Installation >25' To 30', Add</i>	19.37	
			<i>For Elevated Installation >30' To 35', Add</i>	22.14	
			<i>For Elevated Installation >35' To 40', Add</i>	27.68	
			<i>For Elevated Installation >40', Add</i>	30.44	
26 05 33	13-0382	EA	2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	293.54	23.98
			<i>For Work In Restricted Working Space, Add</i>	17.99	
			<i>For Elevated Installation >10' To 15', Add</i>	6.00	
			<i>For Elevated Installation >15' To 20', Add</i>	11.99	
			<i>For Elevated Installation >20' To 25', Add</i>	14.99	
			<i>For Elevated Installation >25' To 30', Add</i>	20.98	
			<i>For Elevated Installation >30' To 35', Add</i>	23.98	
			<i>For Elevated Installation >35' To 40', Add</i>	29.98	
			<i>For Elevated Installation >40', Add</i>	32.97	
26 05 33	13-0383	EA	2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	451.40	29.52
			<i>For Work In Restricted Working Space, Add</i>	22.14	
			<i>For Elevated Installation >10' To 15', Add</i>	7.38	
			<i>For Elevated Installation >15' To 20', Add</i>	14.76	
			<i>For Elevated Installation >20' To 25', Add</i>	18.45	
			<i>For Elevated Installation >25' To 30', Add</i>	25.83	
			<i>For Elevated Installation >30' To 35', Add</i>	29.52	
			<i>For Elevated Installation >35' To 40', Add</i>	36.90	
			<i>For Elevated Installation >40', Add</i>	40.58	
26 05 33	13-0384	EA	3" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	578.60	36.90
			<i>For Work In Restricted Working Space, Add</i>	27.68	
			<i>For Elevated Installation >10' To 15', Add</i>	9.23	
			<i>For Elevated Installation >15' To 20', Add</i>	18.45	
			<i>For Elevated Installation >20' To 25', Add</i>	23.06	
			<i>For Elevated Installation >25' To 30', Add</i>	32.29	
			<i>For Elevated Installation >30' To 35', Add</i>	36.90	
			<i>For Elevated Installation >35' To 40', Add</i>	46.13	
			<i>For Elevated Installation >40', Add</i>	50.74	
26 05 33	13-0385	EA	3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	847.20	44.28
			<i>For Work In Restricted Working Space, Add</i>	33.21	
			<i>For Elevated Installation >10' To 15', Add</i>	11.07	
			<i>For Elevated Installation >15' To 20', Add</i>	22.14	
			<i>For Elevated Installation >20' To 25', Add</i>	27.68	
			<i>For Elevated Installation >25' To 30', Add</i>	38.75	
			<i>For Elevated Installation >30' To 35', Add</i>	44.28	
			<i>For Elevated Installation >35' To 40', Add</i>	55.36	
			<i>For Elevated Installation >40', Add</i>	60.89	
26 05 33	13-0386	EA	4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	902.90	47.97
			<i>For Work In Restricted Working Space, Add</i>	35.97	
			<i>For Elevated Installation >10' To 15', Add</i>	11.99	
			<i>For Elevated Installation >15' To 20', Add</i>	23.98	
			<i>For Elevated Installation >20' To 25', Add</i>	29.98	
			<i>For Elevated Installation >25' To 30', Add</i>	41.97	
			<i>For Elevated Installation >30' To 35', Add</i>	47.96	
			<i>For Elevated Installation >35' To 40', Add</i>	59.96	
			<i>For Elevated Installation >40', Add</i>	65.95	
26 05 33	13-0387	EA	5" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	1,386.79	59.04
			<i>For Work In Restricted Working Space, Add</i>	44.28	
			<i>For Elevated Installation >10' To 15', Add</i>	14.76	
			<i>For Elevated Installation >15' To 20', Add</i>	29.52	
			<i>For Elevated Installation >20' To 25', Add</i>	36.90	
			<i>For Elevated Installation >25' To 30', Add</i>	51.66	
			<i>For Elevated Installation >30' To 35', Add</i>	59.04	
			<i>For Elevated Installation >35' To 40', Add</i>	73.80	
			<i>For Elevated Installation >40', Add</i>	81.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0388 EA 6" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	1,705.43	65.50
<i>For Work In Restricted Working Space, Add</i>	49.15	
<i>For Elevated Installation >10' To 15', Add</i>	16.38	
<i>For Elevated Installation >15' To 20', Add</i>	32.77	
<i>For Elevated Installation >20' To 25', Add</i>	40.96	
<i>For Elevated Installation >25' To 30', Add</i>	57.34	
<i>For Elevated Installation >30' To 35', Add</i>	65.53	
<i>For Elevated Installation >35' To 40', Add</i>	81.92	
<i>For Elevated Installation >40', Add</i>	90.11	
26 05 33 13-0389 Rigid Galvanized Steel (RGS) Expansion Fittings, 8" Conduit Movement^{(26 05}		
<small>33 13-0059)</small>		
Note: Type AX-8		
26 05 33 13-0390 EA 1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	111.67	14.75
<i>For Work In Restricted Working Space, Add</i>	11.07	
<i>For Elevated Installation >10' To 15', Add</i>	3.69	
<i>For Elevated Installation >15' To 20', Add</i>	7.38	
<i>For Elevated Installation >20' To 25', Add</i>	9.23	
<i>For Elevated Installation >25' To 30', Add</i>	12.92	
<i>For Elevated Installation >30' To 35', Add</i>	14.76	
<i>For Elevated Installation >35' To 40', Add</i>	18.45	
<i>For Elevated Installation >40', Add</i>	20.30	
26 05 33 13-0391 EA 3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	124.12	16.60
<i>For Work In Restricted Working Space, Add</i>	12.45	
<i>For Elevated Installation >10' To 15', Add</i>	4.15	
<i>For Elevated Installation >15' To 20', Add</i>	8.30	
<i>For Elevated Installation >20' To 25', Add</i>	10.38	
<i>For Elevated Installation >25' To 30', Add</i>	14.53	
<i>For Elevated Installation >30' To 35', Add</i>	16.60	
<i>For Elevated Installation >35' To 40', Add</i>	20.76	
<i>For Elevated Installation >40', Add</i>	22.83	
26 05 33 13-0392 EA 1" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	150.98	18.45
<i>For Work In Restricted Working Space, Add</i>	13.84	
<i>For Elevated Installation >10' To 15', Add</i>	4.61	
<i>For Elevated Installation >15' To 20', Add</i>	9.23	
<i>For Elevated Installation >20' To 25', Add</i>	11.53	
<i>For Elevated Installation >25' To 30', Add</i>	16.15	
<i>For Elevated Installation >30' To 35', Add</i>	18.45	
<i>For Elevated Installation >35' To 40', Add</i>	23.07	
<i>For Elevated Installation >40', Add</i>	25.37	
26 05 33 13-0393 EA 1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	190.71	20.29
<i>For Work In Restricted Working Space, Add</i>	15.22	
<i>For Elevated Installation >10' To 15', Add</i>	5.07	
<i>For Elevated Installation >15' To 20', Add</i>	10.15	
<i>For Elevated Installation >20' To 25', Add</i>	12.69	
<i>For Elevated Installation >25' To 30', Add</i>	17.76	
<i>For Elevated Installation >30' To 35', Add</i>	20.30	
<i>For Elevated Installation >35' To 40', Add</i>	25.37	
<i>For Elevated Installation >40', Add</i>	27.91	
26 05 33 13-0394 EA 1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	257.67	22.14
<i>For Work In Restricted Working Space, Add</i>	16.61	
<i>For Elevated Installation >10' To 15', Add</i>	5.54	
<i>For Elevated Installation >15' To 20', Add</i>	11.07	
<i>For Elevated Installation >20' To 25', Add</i>	13.84	
<i>For Elevated Installation >25' To 30', Add</i>	19.37	
<i>For Elevated Installation >30' To 35', Add</i>	22.14	
<i>For Elevated Installation >35' To 40', Add</i>	27.68	
<i>For Elevated Installation >40', Add</i>	30.44	
26 05 33 13-0395 EA 2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	315.80	23.98
<i>For Work In Restricted Working Space, Add</i>	17.99	
<i>For Elevated Installation >10' To 15', Add</i>	6.00	
<i>For Elevated Installation >15' To 20', Add</i>	11.99	
<i>For Elevated Installation >20' To 25', Add</i>	14.99	
<i>For Elevated Installation >25' To 30', Add</i>	20.98	
<i>For Elevated Installation >30' To 35', Add</i>	23.98	
<i>For Elevated Installation >35' To 40', Add</i>	29.98	
<i>For Elevated Installation >40', Add</i>	32.97	
26 05 33 13-0396 EA 2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	595.73	29.52
<i>For Work In Restricted Working Space, Add</i>	22.14	
<i>For Elevated Installation >10' To 15', Add</i>	7.38	
<i>For Elevated Installation >15' To 20', Add</i>	14.76	
<i>For Elevated Installation >20' To 25', Add</i>	18.45	
<i>For Elevated Installation >25' To 30', Add</i>	25.83	
<i>For Elevated Installation >30' To 35', Add</i>	29.52	
<i>For Elevated Installation >35' To 40', Add</i>	36.90	
<i>For Elevated Installation >40', Add</i>	40.58	
26 05 33 13-0397 EA 3" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	677.15	36.90
<i>For Work In Restricted Working Space, Add</i>	27.68	
<i>For Elevated Installation >10' To 15', Add</i>	9.23	
<i>For Elevated Installation >15' To 20', Add</i>	18.45	
<i>For Elevated Installation >20' To 25', Add</i>	23.06	
<i>For Elevated Installation >25' To 30', Add</i>	32.29	
<i>For Elevated Installation >30' To 35', Add</i>	36.90	
<i>For Elevated Installation >35' To 40', Add</i>	46.13	
<i>For Elevated Installation >40', Add</i>	50.74	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0398 EA 3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	1,041.96	44.28
For Work In Restricted Working Space, Add	33.21	
For Elevated Installation >10' To 15', Add	11.07	
For Elevated Installation >15' To 20', Add	22.14	
For Elevated Installation >20' To 25', Add	27.68	
For Elevated Installation >25' To 30', Add	38.75	
For Elevated Installation >30' To 35', Add	44.28	
For Elevated Installation >35' To 40', Add	55.36	
For Elevated Installation >40', Add	60.89	
26 05 33 13-0399 EA 4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	1,128.01	47.97
For Work In Restricted Working Space, Add	35.97	
For Elevated Installation >10' To 15', Add	11.99	
For Elevated Installation >15' To 20', Add	23.98	
For Elevated Installation >20' To 25', Add	29.98	
For Elevated Installation >25' To 30', Add	41.97	
For Elevated Installation >30' To 35', Add	47.96	
For Elevated Installation >35' To 40', Add	59.96	
For Elevated Installation >40', Add	65.95	
26 05 33 13-0400 EA 5" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	1,576.55	59.04
For Work In Restricted Working Space, Add	44.28	
For Elevated Installation >10' To 15', Add	14.76	
For Elevated Installation >15' To 20', Add	29.52	
For Elevated Installation >20' To 25', Add	36.90	
For Elevated Installation >25' To 30', Add	51.66	
For Elevated Installation >30' To 35', Add	59.04	
For Elevated Installation >35' To 40', Add	73.80	
For Elevated Installation >40', Add	81.17	
26 05 33 13-0401 EA 6" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	1,949.56	65.50
For Work In Restricted Working Space, Add	49.15	
For Elevated Installation >10' To 15', Add	16.38	
For Elevated Installation >15' To 20', Add	32.77	
For Elevated Installation >20' To 25', Add	40.96	
For Elevated Installation >25' To 30', Add	57.34	
For Elevated Installation >30' To 35', Add	65.53	
For Elevated Installation >35' To 40', Add	81.92	
For Elevated Installation >40', Add	90.11	
26 05 33 13-0402 Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fittings, 8" Conduit Movement <small>(26 05 33 13-0059)</small>		
Note: Type EX		
26 05 33 13-0403 EA 1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	127.34	14.75
For Work In Restricted Working Space, Add	11.07	
For Elevated Installation >10' To 15', Add	3.69	
For Elevated Installation >15' To 20', Add	7.38	
For Elevated Installation >20' To 25', Add	9.23	
For Elevated Installation >25' To 30', Add	12.92	
For Elevated Installation >30' To 35', Add	14.76	
For Elevated Installation >35' To 40', Add	18.45	
For Elevated Installation >40', Add	20.30	
26 05 33 13-0404 EA 3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	161.08	16.60
For Work In Restricted Working Space, Add	12.45	
For Elevated Installation >10' To 15', Add	4.15	
For Elevated Installation >15' To 20', Add	8.30	
For Elevated Installation >20' To 25', Add	10.38	
For Elevated Installation >25' To 30', Add	14.53	
For Elevated Installation >30' To 35', Add	16.60	
For Elevated Installation >35' To 40', Add	20.76	
For Elevated Installation >40', Add	22.83	
26 05 33 13-0405 EA 1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	200.90	18.45
For Work In Restricted Working Space, Add	13.84	
For Elevated Installation >10' To 15', Add	4.61	
For Elevated Installation >15' To 20', Add	9.23	
For Elevated Installation >20' To 25', Add	11.53	
For Elevated Installation >25' To 30', Add	16.15	
For Elevated Installation >30' To 35', Add	18.45	
For Elevated Installation >35' To 40', Add	23.07	
For Elevated Installation >40', Add	25.37	
26 05 33 13-0406 EA 1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	244.77	20.29
For Work In Restricted Working Space, Add	15.22	
For Elevated Installation >10' To 15', Add	5.07	
For Elevated Installation >15' To 20', Add	10.15	
For Elevated Installation >20' To 25', Add	12.69	
For Elevated Installation >25' To 30', Add	17.76	
For Elevated Installation >30' To 35', Add	20.30	
For Elevated Installation >35' To 40', Add	25.37	
For Elevated Installation >40', Add	27.91	
26 05 33 13-0407 EA 1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	330.87	22.14
For Work In Restricted Working Space, Add	16.61	
For Elevated Installation >10' To 15', Add	5.54	
For Elevated Installation >15' To 20', Add	11.07	
For Elevated Installation >20' To 25', Add	13.84	
For Elevated Installation >25' To 30', Add	19.37	
For Elevated Installation >30' To 35', Add	22.14	
For Elevated Installation >35' To 40', Add	27.68	
For Elevated Installation >40', Add	30.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0408 EA 2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	457.25	23.98
<i>For Work In Restricted Working Space, Add</i>	17.99	
<i>For Elevated Installation >10' To 15', Add</i>	6.00	
<i>For Elevated Installation >15' To 20', Add</i>	11.99	
<i>For Elevated Installation >20' To 25', Add</i>	14.99	
<i>For Elevated Installation >25' To 30', Add</i>	20.98	
<i>For Elevated Installation >30' To 35', Add</i>	23.98	
<i>For Elevated Installation >35' To 40', Add</i>	29.98	
<i>For Elevated Installation >40', Add</i>	32.97	
26 05 33 13-0409 EA 2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	712.17	29.52
<i>For Work In Restricted Working Space, Add</i>	22.14	
<i>For Elevated Installation >10' To 15', Add</i>	7.38	
<i>For Elevated Installation >15' To 20', Add</i>	14.76	
<i>For Elevated Installation >20' To 25', Add</i>	18.45	
<i>For Elevated Installation >25' To 30', Add</i>	25.83	
<i>For Elevated Installation >30' To 35', Add</i>	29.52	
<i>For Elevated Installation >35' To 40', Add</i>	36.90	
<i>For Elevated Installation >40', Add</i>	40.58	
26 05 33 13-0410 EA 3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	960.67	36.90
<i>For Work In Restricted Working Space, Add</i>	27.68	
<i>For Elevated Installation >10' To 15', Add</i>	9.23	
<i>For Elevated Installation >15' To 20', Add</i>	18.45	
<i>For Elevated Installation >20' To 25', Add</i>	23.06	
<i>For Elevated Installation >25' To 30', Add</i>	32.29	
<i>For Elevated Installation >30' To 35', Add</i>	36.90	
<i>For Elevated Installation >35' To 40', Add</i>	46.13	
<i>For Elevated Installation >40', Add</i>	50.74	
26 05 33 13-0411 EA 3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,445.23	44.28
<i>For Work In Restricted Working Space, Add</i>	33.21	
<i>For Elevated Installation >10' To 15', Add</i>	11.07	
<i>For Elevated Installation >15' To 20', Add</i>	22.14	
<i>For Elevated Installation >20' To 25', Add</i>	27.68	
<i>For Elevated Installation >25' To 30', Add</i>	38.75	
<i>For Elevated Installation >30' To 35', Add</i>	44.28	
<i>For Elevated Installation >35' To 40', Add</i>	55.36	
<i>For Elevated Installation >40', Add</i>	60.89	
26 05 33 13-0412 EA 4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,495.32	47.97
<i>For Work In Restricted Working Space, Add</i>	35.97	
<i>For Elevated Installation >10' To 15', Add</i>	11.99	
<i>For Elevated Installation >15' To 20', Add</i>	23.98	
<i>For Elevated Installation >20' To 25', Add</i>	29.98	
<i>For Elevated Installation >25' To 30', Add</i>	41.97	
<i>For Elevated Installation >30' To 35', Add</i>	47.96	
<i>For Elevated Installation >35' To 40', Add</i>	59.96	
<i>For Elevated Installation >40', Add</i>	65.95	
26 05 33 13-0413 EA 5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	2,253.63	59.04
<i>For Work In Restricted Working Space, Add</i>	44.28	
<i>For Elevated Installation >10' To 15', Add</i>	14.76	
<i>For Elevated Installation >15' To 20', Add</i>	29.52	
<i>For Elevated Installation >20' To 25', Add</i>	36.90	
<i>For Elevated Installation >25' To 30', Add</i>	51.66	
<i>For Elevated Installation >30' To 35', Add</i>	59.04	
<i>For Elevated Installation >35' To 40', Add</i>	73.80	
<i>For Elevated Installation >40', Add</i>	81.17	
26 05 33 13-0414 EA 6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	2,795.70	65.50
<i>For Work In Restricted Working Space, Add</i>	49.15	
<i>For Elevated Installation >10' To 15', Add</i>	16.38	
<i>For Elevated Installation >15' To 20', Add</i>	32.77	
<i>For Elevated Installation >20' To 25', Add</i>	40.96	
<i>For Elevated Installation >25' To 30', Add</i>	57.34	
<i>For Elevated Installation >30' To 35', Add</i>	65.53	
<i>For Elevated Installation >35' To 40', Add</i>	81.92	
<i>For Elevated Installation >40', Add</i>	90.11	
26 05 33 13-0415 Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fittings <small>(26 05 33 13-0059)</small>		
Note: Type DX		
26 05 33 13-0416 EA 1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	223.99	14.75
<i>For Work In Restricted Working Space, Add</i>	11.07	
<i>For Elevated Installation >10' To 15', Add</i>	3.69	
<i>For Elevated Installation >15' To 20', Add</i>	7.38	
<i>For Elevated Installation >20' To 25', Add</i>	9.23	
<i>For Elevated Installation >25' To 30', Add</i>	12.92	
<i>For Elevated Installation >30' To 35', Add</i>	14.76	
<i>For Elevated Installation >35' To 40', Add</i>	18.45	
<i>For Elevated Installation >40', Add</i>	20.30	
26 05 33 13-0417 EA 3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	267.07	16.60
<i>For Work In Restricted Working Space, Add</i>	12.45	
<i>For Elevated Installation >10' To 15', Add</i>	4.15	
<i>For Elevated Installation >15' To 20', Add</i>	8.30	
<i>For Elevated Installation >20' To 25', Add</i>	10.38	
<i>For Elevated Installation >25' To 30', Add</i>	14.53	
<i>For Elevated Installation >30' To 35', Add</i>	16.60	
<i>For Elevated Installation >35' To 40', Add</i>	20.76	
<i>For Elevated Installation >40', Add</i>	22.83	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0418 EA 1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	323.22	18.45
For Work In Restricted Working Space, Add	13.84	
For Elevated Installation >10' To 15', Add	4.61	
For Elevated Installation >15' To 20', Add	9.23	
For Elevated Installation >20' To 25', Add	11.53	
For Elevated Installation >25' To 30', Add	16.15	
For Elevated Installation >30' To 35', Add	18.45	
For Elevated Installation >35' To 40', Add	23.07	
For Elevated Installation >40', Add	25.37	
26 05 33 13-0419 EA 1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	380.30	20.29
For Work In Restricted Working Space, Add	15.22	
For Elevated Installation >10' To 15', Add	5.07	
For Elevated Installation >15' To 20', Add	10.15	
For Elevated Installation >20' To 25', Add	12.69	
For Elevated Installation >25' To 30', Add	17.76	
For Elevated Installation >30' To 35', Add	20.30	
For Elevated Installation >35' To 40', Add	25.37	
For Elevated Installation >40', Add	27.91	
26 05 33 13-0420 EA 1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	420.62	22.14
For Work In Restricted Working Space, Add	16.61	
For Elevated Installation >10' To 15', Add	5.54	
For Elevated Installation >15' To 20', Add	11.07	
For Elevated Installation >20' To 25', Add	13.84	
For Elevated Installation >25' To 30', Add	19.37	
For Elevated Installation >30' To 35', Add	22.14	
For Elevated Installation >35' To 40', Add	27.68	
For Elevated Installation >40', Add	30.44	
26 05 33 13-0421 EA 2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	520.63	23.98
For Work In Restricted Working Space, Add	17.99	
For Elevated Installation >10' To 15', Add	6.00	
For Elevated Installation >15' To 20', Add	11.99	
For Elevated Installation >20' To 25', Add	14.99	
For Elevated Installation >25' To 30', Add	20.98	
For Elevated Installation >30' To 35', Add	23.98	
For Elevated Installation >35' To 40', Add	29.98	
For Elevated Installation >40', Add	32.97	
26 05 33 13-0422 EA 2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	688.64	29.52
For Work In Restricted Working Space, Add	22.14	
For Elevated Installation >10' To 15', Add	7.38	
For Elevated Installation >15' To 20', Add	14.76	
For Elevated Installation >20' To 25', Add	18.45	
For Elevated Installation >25' To 30', Add	25.83	
For Elevated Installation >30' To 35', Add	29.52	
For Elevated Installation >35' To 40', Add	36.90	
For Elevated Installation >40', Add	40.58	
26 05 33 13-0423 EA 3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	873.47	36.90
For Work In Restricted Working Space, Add	27.68	
For Elevated Installation >10' To 15', Add	9.23	
For Elevated Installation >15' To 20', Add	18.45	
For Elevated Installation >20' To 25', Add	23.06	
For Elevated Installation >25' To 30', Add	32.29	
For Elevated Installation >30' To 35', Add	36.90	
For Elevated Installation >35' To 40', Add	46.13	
For Elevated Installation >40', Add	50.74	
26 05 33 13-0424 EA 3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	982.18	44.28
For Work In Restricted Working Space, Add	33.21	
For Elevated Installation >10' To 15', Add	11.07	
For Elevated Installation >15' To 20', Add	22.14	
For Elevated Installation >20' To 25', Add	27.68	
For Elevated Installation >25' To 30', Add	38.75	
For Elevated Installation >30' To 35', Add	44.28	
For Elevated Installation >35' To 40', Add	55.36	
For Elevated Installation >40', Add	60.89	
26 05 33 13-0425 EA 4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	1,192.34	47.97
For Work In Restricted Working Space, Add	35.97	
For Elevated Installation >10' To 15', Add	11.99	
For Elevated Installation >15' To 20', Add	23.98	
For Elevated Installation >20' To 25', Add	29.98	
For Elevated Installation >25' To 30', Add	41.97	
For Elevated Installation >30' To 35', Add	47.96	
For Elevated Installation >35' To 40', Add	59.96	
For Elevated Installation >40', Add	65.95	
26 05 33 13-0426 EA 5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	2,044.70	59.04
For Work In Restricted Working Space, Add	44.28	
For Elevated Installation >10' To 15', Add	14.76	
For Elevated Installation >15' To 20', Add	29.52	
For Elevated Installation >20' To 25', Add	36.90	
For Elevated Installation >25' To 30', Add	51.66	
For Elevated Installation >30' To 35', Add	59.04	
For Elevated Installation >35' To 40', Add	73.80	
For Elevated Installation >40', Add	81.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0427 EA 6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	3,257.75	65.50
For Work In Restricted Working Space, Add	49.15	
For Elevated Installation >10' To 15', Add	16.38	
For Elevated Installation >15' To 20', Add	32.77	
For Elevated Installation >20' To 25', Add	40.96	
For Elevated Installation >25' To 30', Add	57.34	
For Elevated Installation >30' To 35', Add	65.53	
For Elevated Installation >35' To 40', Add	81.92	
For Elevated Installation >40', Add	90.11	
26 05 33 13-0428 Rigid Galvanized Steel (RGS) Conduit Bonding Jumpers (26 05 33 13-0059)		
26 05 33 13-0429 EA 1/2" To 3/4" Conduit, 14" Bonding Jumper.....	57.03	7.38
For Work In Restricted Working Space, Add	5.54	
For Elevated Installation >10' To 15', Add	1.85	
For Elevated Installation >15' To 20', Add	3.69	
For Elevated Installation >20' To 25', Add	4.62	
For Elevated Installation >25' To 30', Add	6.46	
For Elevated Installation >30' To 35', Add	7.38	
For Elevated Installation >35' To 40', Add	9.23	
For Elevated Installation >40', Add	10.15	
26 05 33 13-0430 EA 1" To 1-1/4" Conduit, 14" Bonding Jumper.....	65.53	9.23
For Work In Restricted Working Space, Add	6.92	
For Elevated Installation >10' To 15', Add	2.31	
For Elevated Installation >15' To 20', Add	4.61	
For Elevated Installation >20' To 25', Add	5.77	
For Elevated Installation >25' To 30', Add	8.07	
For Elevated Installation >30' To 35', Add	9.22	
For Elevated Installation >35' To 40', Add	11.53	
For Elevated Installation >40', Add	12.68	
26 05 33 13-0431 EA 1-1/2" To 2" Conduit, 14" Bonding Jumper.....	80.86	11.07
For Work In Restricted Working Space, Add	8.30	
For Elevated Installation >10' To 15', Add	2.77	
For Elevated Installation >15' To 20', Add	5.53	
For Elevated Installation >20' To 25', Add	6.92	
For Elevated Installation >25' To 30', Add	9.68	
For Elevated Installation >30' To 35', Add	11.07	
For Elevated Installation >35' To 40', Add	13.84	
For Elevated Installation >40', Add	15.22	
26 05 33 13-0432 EA 2-1/2" To 3" Conduit, 14" Bonding Jumper.....	113.76	14.75
For Work In Restricted Working Space, Add	11.07	
For Elevated Installation >10' To 15', Add	3.69	
For Elevated Installation >15' To 20', Add	7.38	
For Elevated Installation >20' To 25', Add	9.23	
For Elevated Installation >25' To 30', Add	12.92	
For Elevated Installation >30' To 35', Add	14.76	
For Elevated Installation >35' To 40', Add	18.45	
For Elevated Installation >40', Add	20.30	
26 05 33 13-0433 EA 3-1/2" To 4" Conduit, 14" Bonding Jumper.....	172.40	22.14
For Work In Restricted Working Space, Add	16.61	
For Elevated Installation >10' To 15', Add	5.54	
For Elevated Installation >15' To 20', Add	11.07	
For Elevated Installation >20' To 25', Add	13.84	
For Elevated Installation >25' To 30', Add	19.37	
For Elevated Installation >30' To 35', Add	22.14	
For Elevated Installation >35' To 40', Add	27.68	
For Elevated Installation >40', Add	30.44	
26 05 33 13-0434 EA 5" To 6" Conduit, 14" Bonding Jumper.....	296.18	29.52
For Work In Restricted Working Space, Add	22.14	
For Elevated Installation >10' To 15', Add	7.38	
For Elevated Installation >15' To 20', Add	14.76	
For Elevated Installation >20' To 25', Add	18.45	
For Elevated Installation >25' To 30', Add	25.83	
For Elevated Installation >30' To 35', Add	29.52	
For Elevated Installation >35' To 40', Add	36.90	
For Elevated Installation >40', Add	40.58	
26 05 33 13-0435 EA 1/2" To 3/4" Conduit, 24" Bonding Jumper.....	63.64	7.38
For Work In Restricted Working Space, Add	5.54	
For Elevated Installation >10' To 15', Add	1.85	
For Elevated Installation >15' To 20', Add	3.69	
For Elevated Installation >20' To 25', Add	4.62	
For Elevated Installation >25' To 30', Add	6.46	
For Elevated Installation >30' To 35', Add	7.38	
For Elevated Installation >35' To 40', Add	9.23	
For Elevated Installation >40', Add	10.15	
26 05 33 13-0436 EA 1" To 1-1/4" Conduit, 24" Bonding Jumper.....	73.88	9.23
For Work In Restricted Working Space, Add	6.92	
For Elevated Installation >10' To 15', Add	2.31	
For Elevated Installation >15' To 20', Add	4.61	
For Elevated Installation >20' To 25', Add	5.77	
For Elevated Installation >25' To 30', Add	8.07	
For Elevated Installation >30' To 35', Add	9.22	
For Elevated Installation >35' To 40', Add	11.53	
For Elevated Installation >40', Add	12.68	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0437 EA 1-1/2" To 2" Conduit, 24" Bonding Jumper.....	88.50	11.07
For Work In Restricted Working Space, Add	8.30	
For Elevated Installation >10' To 15', Add	2.77	
For Elevated Installation >15' To 20', Add	5.53	
For Elevated Installation >20' To 25', Add	6.92	
For Elevated Installation >25' To 30', Add	9.68	
For Elevated Installation >30' To 35', Add	11.07	
For Elevated Installation >35' To 40', Add	13.84	
For Elevated Installation >40', Add	15.22	
26 05 33 13-0438 EA 2-1/2" To 3" Conduit, 24" Bonding Jumper.....	123.91	14.75
For Work In Restricted Working Space, Add	11.07	
For Elevated Installation >10' To 15', Add	3.69	
For Elevated Installation >15' To 20', Add	7.38	
For Elevated Installation >20' To 25', Add	9.23	
For Elevated Installation >25' To 30', Add	12.92	
For Elevated Installation >30' To 35', Add	14.76	
For Elevated Installation >35' To 40', Add	18.45	
For Elevated Installation >40', Add	20.30	
26 05 33 13-0439 EA 3-1/2" To 4" Conduit, 24" Bonding Jumper.....	185.87	22.14
For Work In Restricted Working Space, Add	16.61	
For Elevated Installation >10' To 15', Add	5.54	
For Elevated Installation >15' To 20', Add	11.07	
For Elevated Installation >20' To 25', Add	13.84	
For Elevated Installation >25' To 30', Add	19.37	
For Elevated Installation >30' To 35', Add	22.14	
For Elevated Installation >35' To 40', Add	27.68	
For Elevated Installation >40', Add	30.44	
26 05 33 13-0440 EA 5" To 6" Conduit, 24" Bonding Jumper.....	339.61	29.52
For Work In Restricted Working Space, Add	22.14	
For Elevated Installation >10' To 15', Add	7.38	
For Elevated Installation >15' To 20', Add	14.76	
For Elevated Installation >20' To 25', Add	18.45	
For Elevated Installation >25' To 30', Add	25.83	
For Elevated Installation >30' To 35', Add	29.52	
For Elevated Installation >35' To 40', Add	36.90	
For Elevated Installation >40', Add	40.58	
26 05 33 13-0441 Rigid Galvanized Steel (RGS) Sealing Fittings, Vertical/Horizontal <small>(26 05 33 13-0059)</small>		
26 05 33 13-0442 EA 1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	84.13	23.06
For Work In Restricted Working Space, Add	13.84	
For Elevated Installation >10' To 15', Add	4.61	
For Elevated Installation >15' To 20', Add	9.22	
For Elevated Installation >20' To 25', Add	11.53	
For Elevated Installation >25' To 30', Add	16.14	
For Elevated Installation >30' To 35', Add	18.45	
For Elevated Installation >35' To 40', Add	23.06	
For Elevated Installation >40', Add	25.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.84	
26 05 33 13-0443 EA 3/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	99.99	27.67
For Work In Restricted Working Space, Add	16.61	
For Elevated Installation >10' To 15', Add	5.54	
For Elevated Installation >15' To 20', Add	11.07	
For Elevated Installation >20' To 25', Add	13.84	
For Elevated Installation >25' To 30', Add	19.37	
For Elevated Installation >30' To 35', Add	22.14	
For Elevated Installation >35' To 40', Add	27.68	
For Elevated Installation >40', Add	30.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.61	
26 05 33 13-0444 EA 1" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	121.96	32.29
For Work In Restricted Working Space, Add	19.37	
For Elevated Installation >10' To 15', Add	6.46	
For Elevated Installation >15' To 20', Add	12.92	
For Elevated Installation >20' To 25', Add	16.15	
For Elevated Installation >25' To 30', Add	22.60	
For Elevated Installation >30' To 35', Add	25.83	
For Elevated Installation >35' To 40', Add	32.29	
For Elevated Installation >40', Add	35.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.37	
26 05 33 13-0445 EA 1-1/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	143.47	36.90
For Work In Restricted Working Space, Add	22.14	
For Elevated Installation >10' To 15', Add	7.38	
For Elevated Installation >15' To 20', Add	14.76	
For Elevated Installation >20' To 25', Add	18.45	
For Elevated Installation >25' To 30', Add	25.83	
For Elevated Installation >30' To 35', Add	29.52	
For Elevated Installation >35' To 40', Add	36.90	
For Elevated Installation >40', Add	40.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0446 EA 1-1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	187.92	41.51
For Work In Restricted Working Space, Add	24.91	
For Elevated Installation >10' To 15', Add	8.30	
For Elevated Installation >15' To 20', Add	16.60	
For Elevated Installation >20' To 25', Add	20.76	
For Elevated Installation >25' To 30', Add	29.06	
For Elevated Installation >30' To 35', Add	33.21	
For Elevated Installation >35' To 40', Add	41.51	
For Elevated Installation >40', Add	45.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.91	
26 05 33 13-0447 EA 2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	228.16	46.12
For Work In Restricted Working Space, Add	27.68	
For Elevated Installation >10' To 15', Add	9.23	
For Elevated Installation >15' To 20', Add	18.45	
For Elevated Installation >20' To 25', Add	23.06	
For Elevated Installation >25' To 30', Add	32.29	
For Elevated Installation >30' To 35', Add	36.90	
For Elevated Installation >35' To 40', Add	46.13	
For Elevated Installation >40', Add	50.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.68	
26 05 33 13-0448 EA 2-1/2" Rigid Galvanized Steel (RGS) Conduit Sealing Fitting, Vertical/Horizontal.....	321.87	55.35
For Work In Restricted Working Space, Add	33.21	
For Elevated Installation >10' To 15', Add	11.07	
For Elevated Installation >15' To 20', Add	22.14	
For Elevated Installation >20' To 25', Add	27.68	
For Elevated Installation >25' To 30', Add	38.75	
For Elevated Installation >30' To 35', Add	44.28	
For Elevated Installation >35' To 40', Add	55.35	
For Elevated Installation >40', Add	60.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.21	
26 05 33 13-0449 EA 3" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	387.09	64.58
For Work In Restricted Working Space, Add	38.74	
For Elevated Installation >10' To 15', Add	12.91	
For Elevated Installation >15' To 20', Add	25.83	
For Elevated Installation >20' To 25', Add	32.29	
For Elevated Installation >25' To 30', Add	45.20	
For Elevated Installation >30' To 35', Add	51.66	
For Elevated Installation >35' To 40', Add	64.57	
For Elevated Installation >40', Add	71.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.74	
26 05 33 13-0450 EA 3-1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	891.53	73.79
For Work In Restricted Working Space, Add	44.28	
For Elevated Installation >10' To 15', Add	14.76	
For Elevated Installation >15' To 20', Add	29.52	
For Elevated Installation >20' To 25', Add	36.90	
For Elevated Installation >25' To 30', Add	51.66	
For Elevated Installation >30' To 35', Add	59.04	
For Elevated Installation >35' To 40', Add	73.80	
For Elevated Installation >40', Add	81.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.28	
26 05 33 13-0451 EA 4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	1,027.05	83.02
For Work In Restricted Working Space, Add	49.82	
For Elevated Installation >10' To 15', Add	16.61	
For Elevated Installation >15' To 20', Add	33.21	
For Elevated Installation >20' To 25', Add	41.51	
For Elevated Installation >25' To 30', Add	58.12	
For Elevated Installation >30' To 35', Add	66.42	
For Elevated Installation >35' To 40', Add	83.03	
For Elevated Installation >40', Add	91.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.82	
26 05 33 13-0452 Rigid Galvanized Steel (RGS) Threaded Couplings (26 05 33 13-0059)		
26 05 33 13-0453 EA 1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	11.91	5.54
For Work In Restricted Working Space, Add	3.32	
For Elevated Installation >10' To 15', Add	1.11	
For Elevated Installation >15' To 20', Add	2.21	
For Elevated Installation >20' To 25', Add	2.77	
For Elevated Installation >25' To 30', Add	3.87	
For Elevated Installation >30' To 35', Add	4.43	
For Elevated Installation >35' To 40', Add	5.54	
For Elevated Installation >40', Add	6.09	
26 05 33 13-0454 EA 3/4" Rigid Galvanized Steel (RGS) Threaded Coupling.....	16.73	7.84
For Work In Restricted Working Space, Add	4.70	
For Elevated Installation >10' To 15', Add	1.57	
For Elevated Installation >15' To 20', Add	3.14	
For Elevated Installation >20' To 25', Add	3.92	
For Elevated Installation >25' To 30', Add	5.49	
For Elevated Installation >30' To 35', Add	6.27	
For Elevated Installation >35' To 40', Add	7.84	
For Elevated Installation >40', Add	8.62	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0455 EA 1" Rigid Galvanized Steel (RGS) Threaded Coupling	21.89	10.15
For Work In Restricted Working Space, Add	6.09	
For Elevated Installation >10' To 15', Add	2.03	
For Elevated Installation >15' To 20', Add	4.06	
For Elevated Installation >20' To 25', Add	5.07	
For Elevated Installation >25' To 30', Add	7.10	
For Elevated Installation >30' To 35', Add	8.12	
For Elevated Installation >35' To 40', Add	10.15	
For Elevated Installation >40', Add	11.16	
26 05 33 13-0456 EA 1-1/4" Rigid Galvanized Steel (RGS) Threaded Coupling	25.08	11.54
For Work In Restricted Working Space, Add	6.92	
For Elevated Installation >10' To 15', Add	2.31	
For Elevated Installation >15' To 20', Add	4.61	
For Elevated Installation >20' To 25', Add	5.77	
For Elevated Installation >25' To 30', Add	8.07	
For Elevated Installation >30' To 35', Add	9.22	
For Elevated Installation >35' To 40', Add	11.53	
For Elevated Installation >40', Add	12.68	
26 05 33 13-0457 EA 1-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling	30.20	13.83
For Work In Restricted Working Space, Add	8.30	
For Elevated Installation >10' To 15', Add	2.77	
For Elevated Installation >15' To 20', Add	5.53	
For Elevated Installation >20' To 25', Add	6.92	
For Elevated Installation >25' To 30', Add	9.68	
For Elevated Installation >30' To 35', Add	11.07	
For Elevated Installation >35' To 40', Add	13.84	
For Elevated Installation >40', Add	15.22	
26 05 33 13-0458 EA 2" Rigid Galvanized Steel (RGS) Threaded Coupling	35.14	15.68
For Work In Restricted Working Space, Add	9.41	
For Elevated Installation >10' To 15', Add	3.14	
For Elevated Installation >15' To 20', Add	6.27	
For Elevated Installation >20' To 25', Add	7.84	
For Elevated Installation >25' To 30', Add	10.98	
For Elevated Installation >30' To 35', Add	12.55	
For Elevated Installation >35' To 40', Add	15.69	
For Elevated Installation >40', Add	17.25	
26 05 33 13-0459 EA 2-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling	43.53	17.52
For Work In Restricted Working Space, Add	10.52	
For Elevated Installation >10' To 15', Add	3.51	
For Elevated Installation >15' To 20', Add	7.01	
For Elevated Installation >20' To 25', Add	8.77	
For Elevated Installation >25' To 30', Add	12.27	
For Elevated Installation >30' To 35', Add	14.02	
For Elevated Installation >35' To 40', Add	17.53	
For Elevated Installation >40', Add	19.28	
26 05 33 13-0460 EA 3" Rigid Galvanized Steel (RGS) Threaded Coupling	50.69	19.83
For Work In Restricted Working Space, Add	11.90	
For Elevated Installation >10' To 15', Add	3.97	
For Elevated Installation >15' To 20', Add	7.93	
For Elevated Installation >20' To 25', Add	9.92	
For Elevated Installation >25' To 30', Add	13.88	
For Elevated Installation >30' To 35', Add	15.87	
For Elevated Installation >35' To 40', Add	19.84	
For Elevated Installation >40', Add	21.82	
26 05 33 13-0461 EA 3-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling	58.23	21.68
For Work In Restricted Working Space, Add	13.01	
For Elevated Installation >10' To 15', Add	4.34	
For Elevated Installation >15' To 20', Add	8.67	
For Elevated Installation >20' To 25', Add	10.84	
For Elevated Installation >25' To 30', Add	15.17	
For Elevated Installation >30' To 35', Add	17.34	
For Elevated Installation >35' To 40', Add	21.68	
For Elevated Installation >40', Add	23.84	
26 05 33 13-0462 EA 4" Threaded Rigid Galvanized Steel (RGS) Coupling	61.62	23.06
For Work In Restricted Working Space, Add	13.84	
For Elevated Installation >10' To 15', Add	4.61	
For Elevated Installation >15' To 20', Add	9.22	
For Elevated Installation >20' To 25', Add	11.53	
For Elevated Installation >25' To 30', Add	16.14	
For Elevated Installation >30' To 35', Add	18.45	
For Elevated Installation >35' To 40', Add	23.06	
For Elevated Installation >40', Add	25.37	
26 05 33 13-0463 Rigid Galvanized Steel (RGS) Sealing Locknut <small>(26 05 33 13-0059)</small>		
26 05 33 13-0464 EA 1/2" Rigid Galvanized Steel (RGS) Sealing Locknut	2.59	0.92
26 05 33 13-0465 EA 3/4" Rigid Galvanized Steel (RGS) Sealing Locknut	3.63	1.38
26 05 33 13-0466 EA 1" Rigid Galvanized Steel (RGS) Sealing Locknut	6.02	2.31
26 05 33 13-0467 EA 1-1/4" Rigid Galvanized Steel (RGS) Sealing Locknut	8.66	3.23
26 05 33 13-0468 EA 1-1/2" Rigid Galvanized Steel (RGS) Sealing Locknut	10.29	3.69
26 05 33 13-0469 EA 2" Rigid Galvanized Steel (RGS) Sealing Locknut	12.01	4.15
26 05 33 13-0470 Rigid Galvanized Steel (RGS) Fire Stop Fittings <small>(26 05 33 13-0059)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0471 EA 1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting	179.43	11.19
For Work In Restricted Working Space, Add	8.40	
For Elevated Installation >10' To 15', Add	2.80	
For Elevated Installation >15' To 20', Add	5.60	
For Elevated Installation >20' To 25', Add	7.00	
For Elevated Installation >25' To 30', Add	9.80	
For Elevated Installation >30' To 35', Add	11.20	
For Elevated Installation >35' To 40', Add	14.00	
For Elevated Installation >40', Add	15.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.40	
26 05 33 13-0472 EA 3/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting	182.13	12.27
For Work In Restricted Working Space, Add	9.21	
For Elevated Installation >10' To 15', Add	3.07	
For Elevated Installation >15' To 20', Add	6.14	
For Elevated Installation >20' To 25', Add	7.67	
For Elevated Installation >25' To 30', Add	10.74	
For Elevated Installation >30' To 35', Add	12.28	
For Elevated Installation >35' To 40', Add	15.35	
For Elevated Installation >40', Add	16.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.21	
26 05 33 13-0473 EA 1" Rigid Galvanized Steel (RGS) Fire Stop Fitting	218.95	13.47
For Work In Restricted Working Space, Add	10.08	
For Elevated Installation >10' To 15', Add	3.36	
For Elevated Installation >15' To 20', Add	6.72	
For Elevated Installation >20' To 25', Add	8.40	
For Elevated Installation >25' To 30', Add	11.76	
For Elevated Installation >30' To 35', Add	13.44	
For Elevated Installation >35' To 40', Add	16.80	
For Elevated Installation >40', Add	18.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.08	
26 05 33 13-0474 EA 1-1/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting	240.36	14.75
For Work In Restricted Working Space, Add	11.08	
For Elevated Installation >10' To 15', Add	3.69	
For Elevated Installation >15' To 20', Add	7.39	
For Elevated Installation >20' To 25', Add	9.23	
For Elevated Installation >25' To 30', Add	12.93	
For Elevated Installation >30' To 35', Add	14.77	
For Elevated Installation >35' To 40', Add	18.47	
For Elevated Installation >40', Add	20.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.08	
26 05 33 13-0475 EA 1-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting	274.33	16.60
For Work In Restricted Working Space, Add	12.45	
For Elevated Installation >10' To 15', Add	4.15	
For Elevated Installation >15' To 20', Add	8.30	
For Elevated Installation >20' To 25', Add	10.38	
For Elevated Installation >25' To 30', Add	14.53	
For Elevated Installation >30' To 35', Add	16.60	
For Elevated Installation >35' To 40', Add	20.76	
For Elevated Installation >40', Add	22.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 05 33 13-0476 EA 2" Rigid Galvanized Steel (RGS) Fire Stop Fitting	407.81	18.45
For Work In Restricted Working Space, Add	13.85	
For Elevated Installation >10' To 15', Add	4.62	
For Elevated Installation >15' To 20', Add	9.23	
For Elevated Installation >20' To 25', Add	11.54	
For Elevated Installation >25' To 30', Add	16.15	
For Elevated Installation >30' To 35', Add	18.46	
For Elevated Installation >35' To 40', Add	23.08	
For Elevated Installation >40', Add	25.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.85	
26 05 33 13-0477 EA 2-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting	468.41	24.63
For Work In Restricted Working Space, Add	18.46	
For Elevated Installation >10' To 15', Add	6.15	
For Elevated Installation >15' To 20', Add	12.31	
For Elevated Installation >20' To 25', Add	15.39	
For Elevated Installation >25' To 30', Add	21.54	
For Elevated Installation >30' To 35', Add	24.62	
For Elevated Installation >35' To 40', Add	30.77	
For Elevated Installation >40', Add	33.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 05 33 13-0478 EA 3" Rigid Galvanized Steel (RGS) Fire Stop Fitting	519.69	27.03
For Work In Restricted Working Space, Add	20.29	
For Elevated Installation >10' To 15', Add	6.76	
For Elevated Installation >15' To 20', Add	13.52	
For Elevated Installation >20' To 25', Add	16.91	
For Elevated Installation >25' To 30', Add	23.67	
For Elevated Installation >30' To 35', Add	27.05	
For Elevated Installation >35' To 40', Add	33.81	
For Elevated Installation >40', Add	37.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.29	

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26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0479	EA		3-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting	604.99	29.52
			<i>For Work In Restricted Working Space, Add</i>	22.14	
			<i>For Elevated Installation >10' To 15', Add</i>	7.38	
			<i>For Elevated Installation >15' To 20', Add</i>	14.76	
			<i>For Elevated Installation >20' To 25', Add</i>	18.45	
			<i>For Elevated Installation >25' To 30', Add</i>	25.83	
			<i>For Elevated Installation >30' To 35', Add</i>	29.52	
			<i>For Elevated Installation >35' To 40', Add</i>	36.90	
			<i>For Elevated Installation >40', Add</i>	40.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.14	
26 05 33 13-0480	EA		4" Rigid Galvanized Steel (RGS) Fire Stop Fitting	682.02	33.21
			<i>For Work In Restricted Working Space, Add</i>	24.91	
			<i>For Elevated Installation >10' To 15', Add</i>	8.30	
			<i>For Elevated Installation >15' To 20', Add</i>	16.60	
			<i>For Elevated Installation >20' To 25', Add</i>	20.76	
			<i>For Elevated Installation >25' To 30', Add</i>	29.06	
			<i>For Elevated Installation >30' To 35', Add</i>	33.21	
			<i>For Elevated Installation >35' To 40', Add</i>	41.51	
			<i>For Elevated Installation >40', Add</i>	45.66	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.91	
26 05 33 13-0481	EA		5" Rigid Galvanized Steel (RGS) Fire Stop Fitting	917.29	36.90
			<i>For Work In Restricted Working Space, Add</i>	27.68	
			<i>For Elevated Installation >10' To 15', Add</i>	9.23	
			<i>For Elevated Installation >15' To 20', Add</i>	18.45	
			<i>For Elevated Installation >20' To 25', Add</i>	23.06	
			<i>For Elevated Installation >25' To 30', Add</i>	32.29	
			<i>For Elevated Installation >30' To 35', Add</i>	36.90	
			<i>For Elevated Installation >35' To 40', Add</i>	46.13	
			<i>For Elevated Installation >40', Add</i>	50.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.68	
26 05 33 13-0482	EA		6" Rigid Galvanized Steel (RGS) Fire Stop Fitting	1,142.16	40.95
			<i>For Work In Restricted Working Space, Add</i>	30.72	
			<i>For Elevated Installation >10' To 15', Add</i>	10.24	
			<i>For Elevated Installation >15' To 20', Add</i>	20.48	
			<i>For Elevated Installation >20' To 25', Add</i>	25.60	
			<i>For Elevated Installation >25' To 30', Add</i>	35.84	
			<i>For Elevated Installation >30' To 35', Add</i>	40.96	
			<i>For Elevated Installation >35' To 40', Add</i>	51.20	
			<i>For Elevated Installation >40', Add</i>	56.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.72	
26 05 33 13-0483			Rigid Galvanized Steel (RGS) Reducing Bushings <small>(26 05 33 13-0059)</small>		
26 05 33 13-0484	EA		3/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	14.86	7.15
			<i>For Work In Restricted Working Space, Add</i>	4.29	
			<i>For Elevated Installation >10' To 15', Add</i>	1.43	
			<i>For Elevated Installation >15' To 20', Add</i>	2.86	
			<i>For Elevated Installation >20' To 25', Add</i>	3.57	
			<i>For Elevated Installation >25' To 30', Add</i>	5.00	
			<i>For Elevated Installation >30' To 35', Add</i>	5.72	
			<i>For Elevated Installation >35' To 40', Add</i>	7.15	
			<i>For Elevated Installation >40', Add</i>	7.86	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.29	
26 05 33 13-0485	EA		1" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	16.27	7.61
			<i>For Work In Restricted Working Space, Add</i>	4.57	
			<i>For Elevated Installation >10' To 15', Add</i>	1.52	
			<i>For Elevated Installation >15' To 20', Add</i>	3.04	
			<i>For Elevated Installation >20' To 25', Add</i>	3.81	
			<i>For Elevated Installation >25' To 30', Add</i>	5.33	
			<i>For Elevated Installation >30' To 35', Add</i>	6.09	
			<i>For Elevated Installation >35' To 40', Add</i>	7.61	
			<i>For Elevated Installation >40', Add</i>	8.37	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.57	
26 05 33 13-0486	EA		1" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	16.73	7.84
			<i>For Work In Restricted Working Space, Add</i>	4.70	
			<i>For Elevated Installation >10' To 15', Add</i>	1.57	
			<i>For Elevated Installation >15' To 20', Add</i>	3.14	
			<i>For Elevated Installation >20' To 25', Add</i>	3.92	
			<i>For Elevated Installation >25' To 30', Add</i>	5.49	
			<i>For Elevated Installation >30' To 35', Add</i>	6.27	
			<i>For Elevated Installation >35' To 40', Add</i>	7.84	
			<i>For Elevated Installation >40', Add</i>	8.62	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.70	
26 05 33 13-0487	EA		1-1/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	18.87	8.07
			<i>For Work In Restricted Working Space, Add</i>	4.84	
			<i>For Elevated Installation >10' To 15', Add</i>	1.61	
			<i>For Elevated Installation >15' To 20', Add</i>	3.23	
			<i>For Elevated Installation >20' To 25', Add</i>	4.04	
			<i>For Elevated Installation >25' To 30', Add</i>	5.65	
			<i>For Elevated Installation >30' To 35', Add</i>	6.46	
			<i>For Elevated Installation >35' To 40', Add</i>	8.07	
			<i>For Elevated Installation >40', Add</i>	8.88	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0488 EA 1-1/4" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	19.33	8.31
For Work In Restricted Working Space, Add	4.98	
For Elevated Installation >10' To 15', Add	1.66	
For Elevated Installation >15' To 20', Add	3.32	
For Elevated Installation >20' To 25', Add	4.15	
For Elevated Installation >25' To 30', Add	5.81	
For Elevated Installation >30' To 35', Add	6.64	
For Elevated Installation >35' To 40', Add	8.30	
For Elevated Installation >40', Add	9.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26 05 33 13-0489 EA 1-1/4" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing	20.25	8.77
For Work In Restricted Working Space, Add	5.26	
For Elevated Installation >10' To 15', Add	1.75	
For Elevated Installation >15' To 20', Add	3.50	
For Elevated Installation >20' To 25', Add	4.38	
For Elevated Installation >25' To 30', Add	6.13	
For Elevated Installation >30' To 35', Add	7.01	
For Elevated Installation >35' To 40', Add	8.76	
For Elevated Installation >40', Add	9.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.26	
26 05 33 13-0490 EA 1-1/2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	21.76	9.23
For Work In Restricted Working Space, Add	5.54	
For Elevated Installation >10' To 15', Add	1.85	
For Elevated Installation >15' To 20', Add	3.69	
For Elevated Installation >20' To 25', Add	4.61	
For Elevated Installation >25' To 30', Add	6.46	
For Elevated Installation >30' To 35', Add	7.38	
For Elevated Installation >35' To 40', Add	9.23	
For Elevated Installation >40', Add	10.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.54	
26 05 33 13-0491 EA 1-1/2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	22.22	9.46
For Work In Restricted Working Space, Add	5.67	
For Elevated Installation >10' To 15', Add	1.89	
For Elevated Installation >15' To 20', Add	3.78	
For Elevated Installation >20' To 25', Add	4.73	
For Elevated Installation >25' To 30', Add	6.62	
For Elevated Installation >30' To 35', Add	7.56	
For Elevated Installation >35' To 40', Add	9.46	
For Elevated Installation >40', Add	10.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.67	
26 05 33 13-0492 EA 1-1/2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing	23.14	9.92
For Work In Restricted Working Space, Add	5.95	
For Elevated Installation >10' To 15', Add	1.98	
For Elevated Installation >15' To 20', Add	3.97	
For Elevated Installation >20' To 25', Add	4.96	
For Elevated Installation >25' To 30', Add	6.94	
For Elevated Installation >30' To 35', Add	7.93	
For Elevated Installation >35' To 40', Add	9.92	
For Elevated Installation >40', Add	10.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.95	
26 05 33 13-0493 EA 1-1/2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing	24.06	10.38
For Work In Restricted Working Space, Add	6.23	
For Elevated Installation >10' To 15', Add	2.08	
For Elevated Installation >15' To 20', Add	4.15	
For Elevated Installation >20' To 25', Add	5.19	
For Elevated Installation >25' To 30', Add	7.26	
For Elevated Installation >30' To 35', Add	8.30	
For Elevated Installation >35' To 40', Add	10.38	
For Elevated Installation >40', Add	11.41	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 05 33 13-0494 EA 2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	28.01	10.38
For Work In Restricted Working Space, Add	6.23	
For Elevated Installation >10' To 15', Add	2.08	
For Elevated Installation >15' To 20', Add	4.15	
For Elevated Installation >20' To 25', Add	5.19	
For Elevated Installation >25' To 30', Add	7.26	
For Elevated Installation >30' To 35', Add	8.30	
For Elevated Installation >35' To 40', Add	10.38	
For Elevated Installation >40', Add	11.41	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 05 33 13-0495 EA 2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	28.47	10.61
For Work In Restricted Working Space, Add	6.36	
For Elevated Installation >10' To 15', Add	2.12	
For Elevated Installation >15' To 20', Add	4.24	
For Elevated Installation >20' To 25', Add	5.30	
For Elevated Installation >25' To 30', Add	7.42	
For Elevated Installation >30' To 35', Add	8.48	
For Elevated Installation >35' To 40', Add	10.61	
For Elevated Installation >40', Add	11.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.36	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0496 EA 2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing	29.40	11.07
For Work In Restricted Working Space, Add	6.64	
For Elevated Installation >10' To 15', Add	2.21	
For Elevated Installation >15' To 20', Add	4.43	
For Elevated Installation >20' To 25', Add	5.54	
For Elevated Installation >25' To 30', Add	7.75	
For Elevated Installation >30' To 35', Add	8.86	
For Elevated Installation >35' To 40', Add	11.07	
For Elevated Installation >40', Add	12.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.64	
26 05 33 13-0497 EA 2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing	30.32	11.54
For Work In Restricted Working Space, Add	6.92	
For Elevated Installation >10' To 15', Add	2.31	
For Elevated Installation >15' To 20', Add	4.61	
For Elevated Installation >20' To 25', Add	5.77	
For Elevated Installation >25' To 30', Add	8.07	
For Elevated Installation >30' To 35', Add	9.22	
For Elevated Installation >35' To 40', Add	11.53	
For Elevated Installation >40', Add	12.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.92	
26 05 33 13-0498 EA 2" x 1-1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	32.63	12.69
For Work In Restricted Working Space, Add	7.61	
For Elevated Installation >10' To 15', Add	2.54	
For Elevated Installation >15' To 20', Add	5.07	
For Elevated Installation >20' To 25', Add	6.34	
For Elevated Installation >25' To 30', Add	8.88	
For Elevated Installation >30' To 35', Add	10.15	
For Elevated Installation >35' To 40', Add	12.69	
For Elevated Installation >40', Add	13.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.61	
26 05 33 13-0499 EA 2-1/2" x 2" Rigid Galvanized Steel (RGS) Reducing Bushing	40.74	14.99
For Work In Restricted Working Space, Add	8.99	
For Elevated Installation >10' To 15', Add	3.00	
For Elevated Installation >15' To 20', Add	6.00	
For Elevated Installation >20' To 25', Add	7.50	
For Elevated Installation >25' To 30', Add	10.49	
For Elevated Installation >30' To 35', Add	11.99	
For Elevated Installation >35' To 40', Add	14.99	
For Elevated Installation >40', Add	16.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.99	
26 05 33 13-0500 Rigid Galvanized Steel (RGS) Locknuts (26 05 33 13-0059)		
26 05 33 13-0501 EA 1/2" Rigid Galvanized Steel (RGS) Locknuts	1.90	0.92
For Work In Restricted Working Space, Add	0.56	
For Elevated Installation >10' To 15', Add	0.19	
For Elevated Installation >15' To 20', Add	0.37	
For Elevated Installation >20' To 25', Add	0.46	
For Elevated Installation >25' To 30', Add	0.65	
For Elevated Installation >30' To 35', Add	0.74	
For Elevated Installation >35' To 40', Add	0.93	
For Elevated Installation >40', Add	1.02	
26 05 33 13-0502 EA 3/4" Rigid Galvanized Steel (RGS) Locknuts	2.84	1.38
For Work In Restricted Working Space, Add	0.83	
For Elevated Installation >10' To 15', Add	0.28	
For Elevated Installation >15' To 20', Add	0.55	
For Elevated Installation >20' To 25', Add	0.69	
For Elevated Installation >25' To 30', Add	0.97	
For Elevated Installation >30' To 35', Add	1.11	
For Elevated Installation >35' To 40', Add	1.39	
For Elevated Installation >40', Add	1.52	
26 05 33 13-0503 EA 1" Rigid Galvanized Steel (RGS) Locknuts	4.73	2.31
For Work In Restricted Working Space, Add	1.38	
For Elevated Installation >10' To 15', Add	0.46	
For Elevated Installation >15' To 20', Add	0.92	
For Elevated Installation >20' To 25', Add	1.15	
For Elevated Installation >25' To 30', Add	1.61	
For Elevated Installation >30' To 35', Add	1.84	
For Elevated Installation >35' To 40', Add	2.31	
For Elevated Installation >40', Add	2.54	
26 05 33 13-0504 EA 1-1/4" Rigid Galvanized Steel (RGS) Locknuts	6.66	3.23
For Work In Restricted Working Space, Add	1.94	
For Elevated Installation >10' To 15', Add	0.65	
For Elevated Installation >15' To 20', Add	1.29	
For Elevated Installation >20' To 25', Add	1.62	
For Elevated Installation >25' To 30', Add	2.26	
For Elevated Installation >30' To 35', Add	2.58	
For Elevated Installation >35' To 40', Add	3.23	
For Elevated Installation >40', Add	3.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0505 EA 1-1/2" Rigid Galvanized Steel (RGS) Locknuts	7.64	3.69
For Work In Restricted Working Space, Add	2.21	
For Elevated Installation >10' To 15', Add	0.74	
For Elevated Installation >15' To 20', Add	1.48	
For Elevated Installation >20' To 25', Add	1.85	
For Elevated Installation >25' To 30', Add	2.58	
For Elevated Installation >30' To 35', Add	2.95	
For Elevated Installation >35' To 40', Add	3.69	
For Elevated Installation >40', Add	4.06	
26 05 33 13-0506 EA 2" Rigid Galvanized Steel (RGS) Locknuts	8.63	4.15
For Work In Restricted Working Space, Add	2.49	
For Elevated Installation >10' To 15', Add	0.83	
For Elevated Installation >15' To 20', Add	1.66	
For Elevated Installation >20' To 25', Add	2.08	
For Elevated Installation >25' To 30', Add	2.91	
For Elevated Installation >30' To 35', Add	3.32	
For Elevated Installation >35' To 40', Add	4.16	
For Elevated Installation >40', Add	4.57	
26 05 33 13-0507 EA 2-1/2" Rigid Galvanized Steel (RGS) Locknuts	11.93	5.54
For Work In Restricted Working Space, Add	3.32	
For Elevated Installation >10' To 15', Add	1.11	
For Elevated Installation >15' To 20', Add	2.21	
For Elevated Installation >20' To 25', Add	2.77	
For Elevated Installation >25' To 30', Add	3.87	
For Elevated Installation >30' To 35', Add	4.43	
For Elevated Installation >35' To 40', Add	5.54	
For Elevated Installation >40', Add	6.09	
26 05 33 13-0508 EA 3" Rigid Galvanized Steel (RGS) Locknuts	14.78	6.92
For Work In Restricted Working Space, Add	4.15	
For Elevated Installation >10' To 15', Add	1.38	
For Elevated Installation >15' To 20', Add	2.77	
For Elevated Installation >20' To 25', Add	3.46	
For Elevated Installation >25' To 30', Add	4.84	
For Elevated Installation >30' To 35', Add	5.53	
For Elevated Installation >35' To 40', Add	6.92	
For Elevated Installation >40', Add	7.61	
26 05 33 13-0509 EA 3-1/2" Rigid Galvanized Steel (RGS) Locknuts	17.26	7.84
For Work In Restricted Working Space, Add	4.70	
For Elevated Installation >10' To 15', Add	1.57	
For Elevated Installation >15' To 20', Add	3.14	
For Elevated Installation >20' To 25', Add	3.92	
For Elevated Installation >25' To 30', Add	5.49	
For Elevated Installation >30' To 35', Add	6.27	
For Elevated Installation >35' To 40', Add	7.84	
For Elevated Installation >40', Add	8.62	
26 05 33 13-0510 EA 4" Rigid Galvanized Steel (RGS) Locknuts	19.34	8.77
For Work In Restricted Working Space, Add	5.26	
For Elevated Installation >10' To 15', Add	1.75	
For Elevated Installation >15' To 20', Add	3.50	
For Elevated Installation >20' To 25', Add	4.38	
For Elevated Installation >25' To 30', Add	6.13	
For Elevated Installation >30' To 35', Add	7.01	
For Elevated Installation >35' To 40', Add	8.76	
For Elevated Installation >40', Add	9.64	
26 05 33 13-0511 Rigid Galvanized Steel (RGS) Grounding Locknuts <small>(26 05 33 13-0059)</small>	2.64	0.92
26 05 33 13-0512 EA 1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts	2.64	0.92
For Work In Restricted Working Space, Add	0.56	
For Elevated Installation >10' To 15', Add	0.19	
For Elevated Installation >15' To 20', Add	0.37	
For Elevated Installation >20' To 25', Add	0.46	
For Elevated Installation >25' To 30', Add	0.65	
For Elevated Installation >30' To 35', Add	0.74	
For Elevated Installation >35' To 40', Add	0.93	
For Elevated Installation >40', Add	1.02	
26 05 33 13-0513 EA 3/4" Rigid Galvanized Steel (RGS) Grounding Locknuts	3.71	1.38
For Work In Restricted Working Space, Add	0.83	
For Elevated Installation >10' To 15', Add	0.28	
For Elevated Installation >15' To 20', Add	0.55	
For Elevated Installation >20' To 25', Add	0.69	
For Elevated Installation >25' To 30', Add	0.97	
For Elevated Installation >30' To 35', Add	1.11	
For Elevated Installation >35' To 40', Add	1.39	
For Elevated Installation >40', Add	1.52	
26 05 33 13-0514 EA 1" Rigid Galvanized Steel (RGS) Grounding Locknuts	5.96	2.31
For Work In Restricted Working Space, Add	1.38	
For Elevated Installation >10' To 15', Add	0.46	
For Elevated Installation >15' To 20', Add	0.92	
For Elevated Installation >20' To 25', Add	1.15	
For Elevated Installation >25' To 30', Add	1.61	
For Elevated Installation >30' To 35', Add	1.84	
For Elevated Installation >35' To 40', Add	2.31	
For Elevated Installation >40', Add	2.54	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0515 EA 1-1/4" Rigid Galvanized Steel (RGS) Grounding Locknuts	8.34	3.23
For Work In Restricted Working Space, Add	1.94	
For Elevated Installation >10' To 15', Add	0.65	
For Elevated Installation >15' To 20', Add	1.29	
For Elevated Installation >20' To 25', Add	1.62	
For Elevated Installation >25' To 30', Add	2.26	
For Elevated Installation >30' To 35', Add	2.58	
For Elevated Installation >35' To 40', Add	3.23	
For Elevated Installation >40', Add	3.55	
26 05 33 13-0516 EA 1-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts	9.44	3.69
For Work In Restricted Working Space, Add	2.21	
For Elevated Installation >10' To 15', Add	0.74	
For Elevated Installation >15' To 20', Add	1.48	
For Elevated Installation >20' To 25', Add	1.85	
For Elevated Installation >25' To 30', Add	2.58	
For Elevated Installation >30' To 35', Add	2.95	
For Elevated Installation >35' To 40', Add	3.69	
For Elevated Installation >40', Add	4.06	
26 05 33 13-0517 EA 2" Rigid Galvanized Steel (RGS) Grounding Locknuts	11.00	4.15
For Work In Restricted Working Space, Add	2.49	
For Elevated Installation >10' To 15', Add	0.83	
For Elevated Installation >15' To 20', Add	1.66	
For Elevated Installation >20' To 25', Add	2.08	
For Elevated Installation >25' To 30', Add	2.91	
For Elevated Installation >30' To 35', Add	3.32	
For Elevated Installation >35' To 40', Add	4.16	
For Elevated Installation >40', Add	4.57	
26 05 33 13-0518 EA 2-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts	16.06	5.54
For Work In Restricted Working Space, Add	3.32	
For Elevated Installation >10' To 15', Add	1.11	
For Elevated Installation >15' To 20', Add	2.21	
For Elevated Installation >20' To 25', Add	2.77	
For Elevated Installation >25' To 30', Add	3.87	
For Elevated Installation >30' To 35', Add	4.43	
For Elevated Installation >35' To 40', Add	5.54	
For Elevated Installation >40', Add	6.09	
26 05 33 13-0519 EA 3" Rigid Galvanized Steel (RGS) Grounding Locknuts	20.17	6.92
For Work In Restricted Working Space, Add	4.15	
For Elevated Installation >10' To 15', Add	1.38	
For Elevated Installation >15' To 20', Add	2.77	
For Elevated Installation >20' To 25', Add	3.46	
For Elevated Installation >25' To 30', Add	4.84	
For Elevated Installation >30' To 35', Add	5.53	
For Elevated Installation >35' To 40', Add	6.92	
For Elevated Installation >40', Add	7.61	
26 05 33 13-0520 EA 3-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts	25.97	7.84
For Work In Restricted Working Space, Add	4.70	
For Elevated Installation >10' To 15', Add	1.57	
For Elevated Installation >15' To 20', Add	3.14	
For Elevated Installation >20' To 25', Add	3.92	
For Elevated Installation >25' To 30', Add	5.49	
For Elevated Installation >30' To 35', Add	6.27	
For Elevated Installation >35' To 40', Add	7.84	
For Elevated Installation >40', Add	8.62	
26 05 33 13-0521 EA 4" Rigid Galvanized Steel (RGS) Grounding Locknuts	30.79	8.77
For Work In Restricted Working Space, Add	5.26	
For Elevated Installation >10' To 15', Add	1.75	
For Elevated Installation >15' To 20', Add	3.50	
For Elevated Installation >20' To 25', Add	4.38	
For Elevated Installation >25' To 30', Add	6.13	
For Elevated Installation >30' To 35', Add	7.01	
For Elevated Installation >35' To 40', Add	8.76	
For Elevated Installation >40', Add	9.64	
26 05 33 13-0522 Rigid Galvanized Steel (RGS) Insulated Ground Bushing <small>(26 05 33 13-0059)</small>		
26 05 33 13-0523 EA 1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	7.51	2.77
For Work In Restricted Working Space, Add	1.66	
For Elevated Installation >10' To 15', Add	0.55	
For Elevated Installation >15' To 20', Add	1.11	
For Elevated Installation >20' To 25', Add	1.39	
For Elevated Installation >25' To 30', Add	1.94	
For Elevated Installation >30' To 35', Add	2.22	
For Elevated Installation >35' To 40', Add	2.77	
For Elevated Installation >40', Add	3.05	
26 05 33 13-0524 EA 3/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	9.52	3.69
For Work In Restricted Working Space, Add	2.21	
For Elevated Installation >10' To 15', Add	0.74	
For Elevated Installation >15' To 20', Add	1.48	
For Elevated Installation >20' To 25', Add	1.85	
For Elevated Installation >25' To 30', Add	2.58	
For Elevated Installation >30' To 35', Add	2.95	
For Elevated Installation >35' To 40', Add	3.69	
For Elevated Installation >40', Add	4.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0525 EA 1" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	12.11	4.61
For Work In Restricted Working Space, Add	2.77	
For Elevated Installation >10' To 15', Add	0.92	
For Elevated Installation >15' To 20', Add	1.85	
For Elevated Installation >20' To 25', Add	2.31	
For Elevated Installation >25' To 30', Add	3.23	
For Elevated Installation >30' To 35', Add	3.69	
For Elevated Installation >35' To 40', Add	4.62	
For Elevated Installation >40', Add	5.08	
26 05 33 13-0526 EA 1-1/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	17.96	7.38
For Work In Restricted Working Space, Add	4.43	
For Elevated Installation >10' To 15', Add	1.48	
For Elevated Installation >15' To 20', Add	2.95	
For Elevated Installation >20' To 25', Add	3.69	
For Elevated Installation >25' To 30', Add	5.16	
For Elevated Installation >30' To 35', Add	5.90	
For Elevated Installation >35' To 40', Add	7.38	
For Elevated Installation >40', Add	8.11	
26 05 33 13-0527 EA 1-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	20.24	8.31
For Work In Restricted Working Space, Add	4.98	
For Elevated Installation >10' To 15', Add	1.66	
For Elevated Installation >15' To 20', Add	3.32	
For Elevated Installation >20' To 25', Add	4.15	
For Elevated Installation >25' To 30', Add	5.81	
For Elevated Installation >30' To 35', Add	6.64	
For Elevated Installation >35' To 40', Add	8.30	
For Elevated Installation >40', Add	9.13	
26 05 33 13-0528 EA 2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	22.91	9.23
For Work In Restricted Working Space, Add	5.54	
For Elevated Installation >10' To 15', Add	1.85	
For Elevated Installation >15' To 20', Add	3.69	
For Elevated Installation >20' To 25', Add	4.61	
For Elevated Installation >25' To 30', Add	6.46	
For Elevated Installation >30' To 35', Add	7.38	
For Elevated Installation >35' To 40', Add	9.23	
For Elevated Installation >40', Add	10.15	
26 05 33 13-0529 EA 2-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	30.75	11.07
For Work In Restricted Working Space, Add	6.64	
For Elevated Installation >10' To 15', Add	2.21	
For Elevated Installation >15' To 20', Add	4.43	
For Elevated Installation >20' To 25', Add	5.54	
For Elevated Installation >25' To 30', Add	7.75	
For Elevated Installation >30' To 35', Add	8.86	
For Elevated Installation >35' To 40', Add	11.07	
For Elevated Installation >40', Add	12.18	
26 05 33 13-0530 EA 3" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	37.54	13.83
For Work In Restricted Working Space, Add	8.30	
For Elevated Installation >10' To 15', Add	2.77	
For Elevated Installation >15' To 20', Add	5.53	
For Elevated Installation >20' To 25', Add	6.92	
For Elevated Installation >25' To 30', Add	9.68	
For Elevated Installation >30' To 35', Add	11.07	
For Elevated Installation >35' To 40', Add	13.84	
For Elevated Installation >40', Add	15.22	
26 05 33 13-0531 EA 3-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	47.09	18.45
For Work In Restricted Working Space, Add	11.07	
For Elevated Installation >10' To 15', Add	3.69	
For Elevated Installation >15' To 20', Add	7.38	
For Elevated Installation >20' To 25', Add	9.23	
For Elevated Installation >25' To 30', Add	12.92	
For Elevated Installation >30' To 35', Add	14.76	
For Elevated Installation >35' To 40', Add	18.45	
For Elevated Installation >40', Add	20.30	
26 05 33 13-0532 EA 4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	57.64	23.06
For Work In Restricted Working Space, Add	13.84	
For Elevated Installation >10' To 15', Add	4.61	
For Elevated Installation >15' To 20', Add	9.22	
For Elevated Installation >20' To 25', Add	11.53	
For Elevated Installation >25' To 30', Add	16.14	
For Elevated Installation >30' To 35', Add	18.45	
For Elevated Installation >35' To 40', Add	23.06	
For Elevated Installation >40', Add	25.37	
26 05 33 13-0533 Rigid Galvanized Steel (RGS) Threadless Compression Connectors <small>(26 05 33 13-0059)</small>		
26 05 33 13-0534 EA 1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	19.83	8.31
For Work In Restricted Working Space, Add	4.98	
For Elevated Installation >10' To 15', Add	1.66	
For Elevated Installation >15' To 20', Add	3.32	
For Elevated Installation >20' To 25', Add	4.15	
For Elevated Installation >25' To 30', Add	5.81	
For Elevated Installation >30' To 35', Add	6.64	
For Elevated Installation >35' To 40', Add	8.30	
For Elevated Installation >40', Add	9.13	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0535 EA 3/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	23.66	9.23
For Work In Restricted Working Space, Add	5.54	
For Elevated Installation >10' To 15', Add	1.85	
For Elevated Installation >15' To 20', Add	3.69	
For Elevated Installation >20' To 25', Add	4.61	
For Elevated Installation >25' To 30', Add	6.46	
For Elevated Installation >30' To 35', Add	7.38	
For Elevated Installation >35' To 40', Add	9.23	
For Elevated Installation >40', Add	10.15	
26 05 33 13-0536 EA 1" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	31.19	11.54
For Work In Restricted Working Space, Add	6.92	
For Elevated Installation >10' To 15', Add	2.31	
For Elevated Installation >15' To 20', Add	4.61	
For Elevated Installation >20' To 25', Add	5.77	
For Elevated Installation >25' To 30', Add	8.07	
For Elevated Installation >30' To 35', Add	9.22	
For Elevated Installation >35' To 40', Add	11.53	
For Elevated Installation >40', Add	12.68	
26 05 33 13-0537 EA 1-1/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	42.98	13.83
For Work In Restricted Working Space, Add	8.30	
For Elevated Installation >10' To 15', Add	2.77	
For Elevated Installation >15' To 20', Add	5.53	
For Elevated Installation >20' To 25', Add	6.92	
For Elevated Installation >25' To 30', Add	9.68	
For Elevated Installation >30' To 35', Add	11.07	
For Elevated Installation >35' To 40', Add	13.84	
For Elevated Installation >40', Add	15.22	
26 05 33 13-0538 EA 1-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	58.10	18.45
For Work In Restricted Working Space, Add	11.07	
For Elevated Installation >10' To 15', Add	3.69	
For Elevated Installation >15' To 20', Add	7.38	
For Elevated Installation >20' To 25', Add	9.23	
For Elevated Installation >25' To 30', Add	12.92	
For Elevated Installation >30' To 35', Add	14.76	
For Elevated Installation >35' To 40', Add	18.45	
For Elevated Installation >40', Add	20.30	
26 05 33 13-0539 EA 2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	86.80	23.06
For Work In Restricted Working Space, Add	13.84	
For Elevated Installation >10' To 15', Add	4.61	
For Elevated Installation >15' To 20', Add	9.22	
For Elevated Installation >20' To 25', Add	11.53	
For Elevated Installation >25' To 30', Add	16.14	
For Elevated Installation >30' To 35', Add	18.45	
For Elevated Installation >35' To 40', Add	23.06	
For Elevated Installation >40', Add	25.37	
26 05 33 13-0540 EA 2-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	149.19	27.67
For Work In Restricted Working Space, Add	16.61	
For Elevated Installation >10' To 15', Add	5.54	
For Elevated Installation >15' To 20', Add	11.07	
For Elevated Installation >20' To 25', Add	13.84	
For Elevated Installation >25' To 30', Add	19.37	
For Elevated Installation >30' To 35', Add	22.14	
For Elevated Installation >35' To 40', Add	27.68	
For Elevated Installation >40', Add	30.44	
26 05 33 13-0541 EA 3" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	188.99	32.29
For Work In Restricted Working Space, Add	19.37	
For Elevated Installation >10' To 15', Add	6.46	
For Elevated Installation >15' To 20', Add	12.92	
For Elevated Installation >20' To 25', Add	16.15	
For Elevated Installation >25' To 30', Add	22.60	
For Elevated Installation >30' To 35', Add	25.83	
For Elevated Installation >35' To 40', Add	32.29	
For Elevated Installation >40', Add	35.52	
26 05 33 13-0542 EA 3-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	240.98	39.21
For Work In Restricted Working Space, Add	23.52	
For Elevated Installation >10' To 15', Add	7.84	
For Elevated Installation >15' To 20', Add	15.68	
For Elevated Installation >20' To 25', Add	19.60	
For Elevated Installation >25' To 30', Add	27.44	
For Elevated Installation >30' To 35', Add	31.36	
For Elevated Installation >35' To 40', Add	39.21	
For Elevated Installation >40', Add	43.13	
26 05 33 13-0543 EA 4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	291.28	46.12
For Work In Restricted Working Space, Add	27.68	
For Elevated Installation >10' To 15', Add	9.23	
For Elevated Installation >15' To 20', Add	18.45	
For Elevated Installation >20' To 25', Add	23.06	
For Elevated Installation >25' To 30', Add	32.29	
For Elevated Installation >30' To 35', Add	36.90	
For Elevated Installation >35' To 40', Add	46.13	
For Elevated Installation >40', Add	50.74	

26 05 33 13-0544 Rigid Galvanized Steel (RGS) Compression Coupling (26 05 33 13-0059)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0545 EA 1/2" Rigid Galvanized Steel (RGS) Compression Coupling	28.28	11.54
<i>For Work In Restricted Working Space, Add</i>	6.92	
<i>For Elevated Installation >10' To 15', Add</i>	2.31	
<i>For Elevated Installation >15' To 20', Add</i>	4.61	
<i>For Elevated Installation >20' To 25', Add</i>	5.77	
<i>For Elevated Installation >25' To 30', Add</i>	8.07	
<i>For Elevated Installation >30' To 35', Add</i>	9.22	
<i>For Elevated Installation >35' To 40', Add</i>	11.53	
<i>For Elevated Installation >40', Add</i>	12.68	
26 05 33 13-0546 EA 3/4" Rigid Galvanized Steel (RGS) Compression Coupling	36.04	13.83
<i>For Work In Restricted Working Space, Add</i>	8.30	
<i>For Elevated Installation >10' To 15', Add</i>	2.77	
<i>For Elevated Installation >15' To 20', Add</i>	5.53	
<i>For Elevated Installation >20' To 25', Add</i>	6.92	
<i>For Elevated Installation >25' To 30', Add</i>	9.68	
<i>For Elevated Installation >30' To 35', Add</i>	11.07	
<i>For Elevated Installation >35' To 40', Add</i>	13.84	
<i>For Elevated Installation >40', Add</i>	15.22	
26 05 33 13-0547 EA 1" Rigid Galvanized Steel (RGS) Compression Coupling	51.50	18.45
<i>For Work In Restricted Working Space, Add</i>	11.07	
<i>For Elevated Installation >10' To 15', Add</i>	3.69	
<i>For Elevated Installation >15' To 20', Add</i>	7.38	
<i>For Elevated Installation >20' To 25', Add</i>	9.23	
<i>For Elevated Installation >25' To 30', Add</i>	12.92	
<i>For Elevated Installation >30' To 35', Add</i>	14.76	
<i>For Elevated Installation >35' To 40', Add</i>	18.45	
<i>For Elevated Installation >40', Add</i>	20.30	
26 05 33 13-0548 EA 1-1/4" Rigid Galvanized Steel (RGS) Compression Coupling	67.73	23.06
<i>For Work In Restricted Working Space, Add</i>	13.84	
<i>For Elevated Installation >10' To 15', Add</i>	4.61	
<i>For Elevated Installation >15' To 20', Add</i>	9.22	
<i>For Elevated Installation >20' To 25', Add</i>	11.53	
<i>For Elevated Installation >25' To 30', Add</i>	16.14	
<i>For Elevated Installation >30' To 35', Add</i>	18.45	
<i>For Elevated Installation >35' To 40', Add</i>	23.06	
<i>For Elevated Installation >40', Add</i>	25.37	
26 05 33 13-0549 EA 1-1/2" Rigid Galvanized Steel (RGS) Compression Coupling	83.48	27.67
<i>For Work In Restricted Working Space, Add</i>	16.61	
<i>For Elevated Installation >10' To 15', Add</i>	5.54	
<i>For Elevated Installation >15' To 20', Add</i>	11.07	
<i>For Elevated Installation >20' To 25', Add</i>	13.84	
<i>For Elevated Installation >25' To 30', Add</i>	19.37	
<i>For Elevated Installation >30' To 35', Add</i>	22.14	
<i>For Elevated Installation >35' To 40', Add</i>	27.68	
<i>For Elevated Installation >40', Add</i>	30.44	
26 05 33 13-0550 EA 2" Rigid Galvanized Steel (RGS) Compression Coupling	126.10	32.29
<i>For Work In Restricted Working Space, Add</i>	19.37	
<i>For Elevated Installation >10' To 15', Add</i>	6.46	
<i>For Elevated Installation >15' To 20', Add</i>	12.92	
<i>For Elevated Installation >20' To 25', Add</i>	16.15	
<i>For Elevated Installation >25' To 30', Add</i>	22.60	
<i>For Elevated Installation >30' To 35', Add</i>	25.83	
<i>For Elevated Installation >35' To 40', Add</i>	32.29	
<i>For Elevated Installation >40', Add</i>	35.52	
26 05 33 13-0551 EA 2-1/2" Rigid Galvanized Steel (RGS) Compression Coupling	203.37	36.90
<i>For Work In Restricted Working Space, Add</i>	22.14	
<i>For Elevated Installation >10' To 15', Add</i>	7.38	
<i>For Elevated Installation >15' To 20', Add</i>	14.76	
<i>For Elevated Installation >20' To 25', Add</i>	18.45	
<i>For Elevated Installation >25' To 30', Add</i>	25.83	
<i>For Elevated Installation >30' To 35', Add</i>	29.52	
<i>For Elevated Installation >35' To 40', Add</i>	36.90	
<i>For Elevated Installation >40', Add</i>	40.58	
26 05 33 13-0552 EA 3" Rigid Galvanized Steel (RGS) Compression Coupling	235.33	31.83
<i>For Work In Restricted Working Space, Add</i>	19.10	
<i>For Elevated Installation >10' To 15', Add</i>	6.37	
<i>For Elevated Installation >15' To 20', Add</i>	12.73	
<i>For Elevated Installation >20' To 25', Add</i>	15.91	
<i>For Elevated Installation >25' To 30', Add</i>	22.28	
<i>For Elevated Installation >30' To 35', Add</i>	25.46	
<i>For Elevated Installation >35' To 40', Add</i>	31.83	
<i>For Elevated Installation >40', Add</i>	35.01	
26 05 33 13-0553 EA 3-1/2" Rigid Galvanized Steel (RGS) Compression Coupling	322.86	48.43
<i>For Work In Restricted Working Space, Add</i>	29.06	
<i>For Elevated Installation >10' To 15', Add</i>	9.69	
<i>For Elevated Installation >15' To 20', Add</i>	19.37	
<i>For Elevated Installation >20' To 25', Add</i>	24.22	
<i>For Elevated Installation >25' To 30', Add</i>	33.90	
<i>For Elevated Installation >30' To 35', Add</i>	38.74	
<i>For Elevated Installation >35' To 40', Add</i>	48.43	
<i>For Elevated Installation >40', Add</i>	53.27	

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26 05 33 Raceway and Boxes for Electrical Systems



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0554	EA 4" Rigid Galvanized Steel (RGS) Compression Coupling <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	399.89 33.21 11.07 22.14 27.68 38.75 44.28 55.35 60.89	55.35
26 05 33 13-0555	Zinc Plated Steel Snap-in Knock Out Seal <small>(26 05 33 13-0059)</small>		
26 05 33 13-0556	EA 1/2" Zinc Plated Steel Snap-in Knock Out Seal..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	4.78 1.38 0.46 0.92 1.15 1.61 1.84 2.31 2.54	2.31
26 05 33 13-0557	EA 3/4" Zinc Plated Steel Snap-in Knock Out Seal..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	5.76 1.66 0.55 1.11 1.39 1.94 2.22 2.77 3.05	2.77
26 05 33 13-0558	EA 1" Zinc Plated Steel Snap-in Knock Out Seal..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	6.81 1.94 0.65 1.29 1.62 2.26 2.58 3.23 3.55	3.23
26 05 33 13-0559	EA 1-1/4" Zinc Plated Steel Snap-in Knock Out Seal <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	8.77 2.49 0.83 1.66 2.08 2.91 3.32 4.16 4.57	4.15
26 05 33 13-0560	EA 1-1/2" Zinc Plated Steel Snap-in Knock Out Seal <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	9.86 2.77 0.92 1.85 2.31 3.23 3.69 4.62 5.08	4.61
26 05 33 13-0561	EA 2" Zinc Plated Steel Snap-in Knock Out Seal..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	11.96 3.32 1.11 2.21 2.77 3.87 4.43 5.54 6.09	5.54
26 05 33 13-0562	Zinc Plated Steel 3-Piece Knock Out Seal <small>(26 05 33 13-0059)</small>		
26 05 33 13-0563	EA 1/2" Zinc Plated Steel 3-Piece Knock Out Seal..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	5.61 1.38 0.46 0.92 1.15 1.61 1.84 2.31 2.54	2.31



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0564 EA 3/4" Zinc Plated Steel 3-Piece Knock Out Seal.....	6.70	2.77
<i>For Work In Restricted Working Space, Add</i>	1.66	
<i>For Elevated Installation >10' To 15', Add</i>	0.55	
<i>For Elevated Installation >15' To 20', Add</i>	1.11	
<i>For Elevated Installation >20' To 25', Add</i>	1.39	
<i>For Elevated Installation >25' To 30', Add</i>	1.94	
<i>For Elevated Installation >30' To 35', Add</i>	2.22	
<i>For Elevated Installation >35' To 40', Add</i>	2.77	
<i>For Elevated Installation >40', Add</i>	3.05	
26 05 33 13-0565 EA 1" Zinc Plated Steel 3-Piece Knock Out Seal.....	8.06	3.23
<i>For Work In Restricted Working Space, Add</i>	1.94	
<i>For Elevated Installation >10' To 15', Add</i>	0.65	
<i>For Elevated Installation >15' To 20', Add</i>	1.29	
<i>For Elevated Installation >20' To 25', Add</i>	1.62	
<i>For Elevated Installation >25' To 30', Add</i>	2.26	
<i>For Elevated Installation >30' To 35', Add</i>	2.58	
<i>For Elevated Installation >35' To 40', Add</i>	3.23	
<i>For Elevated Installation >40', Add</i>	3.55	
26 05 33 13-0566 EA 1-1/4" Zinc Plated Steel 3-Piece Knock Out Seal.....	10.37	4.15
<i>For Work In Restricted Working Space, Add</i>	2.49	
<i>For Elevated Installation >10' To 15', Add</i>	0.83	
<i>For Elevated Installation >15' To 20', Add</i>	1.66	
<i>For Elevated Installation >20' To 25', Add</i>	2.08	
<i>For Elevated Installation >25' To 30', Add</i>	2.91	
<i>For Elevated Installation >30' To 35', Add</i>	3.32	
<i>For Elevated Installation >35' To 40', Add</i>	4.16	
<i>For Elevated Installation >40', Add</i>	4.57	
26 05 33 13-0567 EA 1-1/2" Zinc Plated Steel 3-Piece Knock Out Seal.....	12.53	4.61
<i>For Work In Restricted Working Space, Add</i>	2.77	
<i>For Elevated Installation >10' To 15', Add</i>	0.92	
<i>For Elevated Installation >15' To 20', Add</i>	1.85	
<i>For Elevated Installation >20' To 25', Add</i>	2.31	
<i>For Elevated Installation >25' To 30', Add</i>	3.23	
<i>For Elevated Installation >30' To 35', Add</i>	3.69	
<i>For Elevated Installation >35' To 40', Add</i>	4.62	
<i>For Elevated Installation >40', Add</i>	5.08	
26 05 33 13-0568 EA 2" Zinc Plated Steel 3-Piece Knock Out Seal.....	15.13	5.54
<i>For Work In Restricted Working Space, Add</i>	3.32	
<i>For Elevated Installation >10' To 15', Add</i>	1.11	
<i>For Elevated Installation >15' To 20', Add</i>	2.21	
<i>For Elevated Installation >20' To 25', Add</i>	2.77	
<i>For Elevated Installation >25' To 30', Add</i>	3.87	
<i>For Elevated Installation >30' To 35', Add</i>	4.43	
<i>For Elevated Installation >35' To 40', Add</i>	5.54	
<i>For Elevated Installation >40', Add</i>	6.09	
26 05 33 13-0569 EA 2-1/2" Zinc Plated Steel 3-Piece Knock Out Seal.....	18.60	6.92
<i>For Work In Restricted Working Space, Add</i>	4.15	
<i>For Elevated Installation >10' To 15', Add</i>	1.38	
<i>For Elevated Installation >15' To 20', Add</i>	2.77	
<i>For Elevated Installation >20' To 25', Add</i>	3.46	
<i>For Elevated Installation >25' To 30', Add</i>	4.84	
<i>For Elevated Installation >30' To 35', Add</i>	5.53	
<i>For Elevated Installation >35' To 40', Add</i>	6.92	
<i>For Elevated Installation >40', Add</i>	7.61	
26 05 33 13-0570 EA 3" Zinc Plated Steel 3-Piece Knock Out Seal.....	21.64	7.84
<i>For Work In Restricted Working Space, Add</i>	4.70	
<i>For Elevated Installation >10' To 15', Add</i>	1.57	
<i>For Elevated Installation >15' To 20', Add</i>	3.14	
<i>For Elevated Installation >20' To 25', Add</i>	3.92	
<i>For Elevated Installation >25' To 30', Add</i>	5.49	
<i>For Elevated Installation >30' To 35', Add</i>	6.27	
<i>For Elevated Installation >35' To 40', Add</i>	7.84	
<i>For Elevated Installation >40', Add</i>	8.62	
26 05 33 13-0571 EA 3-1/2" Zinc Plated Steel 3-Piece Knock Out Seal.....	25.91	8.77
<i>For Work In Restricted Working Space, Add</i>	5.26	
<i>For Elevated Installation >10' To 15', Add</i>	1.75	
<i>For Elevated Installation >15' To 20', Add</i>	3.50	
<i>For Elevated Installation >20' To 25', Add</i>	4.38	
<i>For Elevated Installation >25' To 30', Add</i>	6.13	
<i>For Elevated Installation >30' To 35', Add</i>	7.01	
<i>For Elevated Installation >35' To 40', Add</i>	8.76	
<i>For Elevated Installation >40', Add</i>	9.64	
26 05 33 13-0572 EA 4" Zinc Plated Steel 3-Piece Knock Out Seal.....	30.14	9.69
<i>For Work In Restricted Working Space, Add</i>	5.81	
<i>For Elevated Installation >10' To 15', Add</i>	1.94	
<i>For Elevated Installation >15' To 20', Add</i>	3.87	
<i>For Elevated Installation >20' To 25', Add</i>	4.84	
<i>For Elevated Installation >25' To 30', Add</i>	6.78	
<i>For Elevated Installation >30' To 35', Add</i>	7.75	
<i>For Elevated Installation >35' To 40', Add</i>	9.69	
<i>For Elevated Installation >40', Add</i>	10.65	

26 05 33 13-0573 Rigid Galvanized Steel (RGS) Chase Nipples (26 05 33 13-0059)

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0574	EA	1/2" Rigid Galvanized Steel (RGS) Chase Nipple	11.33	5.54
			<i>For Work In Restricted Working Space, Add</i>	3.32	
			<i>For Elevated Installation >10' To 15', Add</i>	1.11	
			<i>For Elevated Installation >15' To 20', Add</i>	2.21	
			<i>For Elevated Installation >20' To 25', Add</i>	2.77	
			<i>For Elevated Installation >25' To 30', Add</i>	3.87	
			<i>For Elevated Installation >30' To 35', Add</i>	4.43	
			<i>For Elevated Installation >35' To 40', Add</i>	5.54	
			<i>For Elevated Installation >40', Add</i>	6.09	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.32	
26 05 33	13-0575	EA	3/4" Rigid Galvanized Steel (RGS) Chase Nipple	13.35	6.46
			<i>For Work In Restricted Working Space, Add</i>	3.88	
			<i>For Elevated Installation >10' To 15', Add</i>	1.29	
			<i>For Elevated Installation >15' To 20', Add</i>	2.58	
			<i>For Elevated Installation >20' To 25', Add</i>	3.23	
			<i>For Elevated Installation >25' To 30', Add</i>	4.52	
			<i>For Elevated Installation >30' To 35', Add</i>	5.17	
			<i>For Elevated Installation >35' To 40', Add</i>	6.46	
			<i>For Elevated Installation >40', Add</i>	7.11	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.88	
26 05 33	13-0576	EA	1" Rigid Galvanized Steel (RGS) Chase Nipple	16.61	7.84
			<i>For Work In Restricted Working Space, Add</i>	4.70	
			<i>For Elevated Installation >10' To 15', Add</i>	1.57	
			<i>For Elevated Installation >15' To 20', Add</i>	3.14	
			<i>For Elevated Installation >20' To 25', Add</i>	3.92	
			<i>For Elevated Installation >25' To 30', Add</i>	5.49	
			<i>For Elevated Installation >30' To 35', Add</i>	6.27	
			<i>For Elevated Installation >35' To 40', Add</i>	7.84	
			<i>For Elevated Installation >40', Add</i>	8.62	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.70	
26 05 33	13-0577	EA	1-1/4" Rigid Galvanized Steel (RGS) Chase Nipple	20.07	9.23
			<i>For Work In Restricted Working Space, Add</i>	5.54	
			<i>For Elevated Installation >10' To 15', Add</i>	1.85	
			<i>For Elevated Installation >15' To 20', Add</i>	3.69	
			<i>For Elevated Installation >20' To 25', Add</i>	4.61	
			<i>For Elevated Installation >25' To 30', Add</i>	6.46	
			<i>For Elevated Installation >30' To 35', Add</i>	7.38	
			<i>For Elevated Installation >35' To 40', Add</i>	9.23	
			<i>For Elevated Installation >40', Add</i>	10.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.54	
26 05 33	13-0578	EA	1-1/2" Rigid Galvanized Steel (RGS) Chase Nipple	25.14	11.54
			<i>For Work In Restricted Working Space, Add</i>	6.92	
			<i>For Elevated Installation >10' To 15', Add</i>	2.31	
			<i>For Elevated Installation >15' To 20', Add</i>	4.61	
			<i>For Elevated Installation >20' To 25', Add</i>	5.77	
			<i>For Elevated Installation >25' To 30', Add</i>	8.07	
			<i>For Elevated Installation >30' To 35', Add</i>	9.22	
			<i>For Elevated Installation >35' To 40', Add</i>	11.53	
			<i>For Elevated Installation >40', Add</i>	12.68	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.92	
26 05 33	13-0579	EA	2" Rigid Galvanized Steel (RGS) Chase Nipple	31.05	13.83
			<i>For Work In Restricted Working Space, Add</i>	8.30	
			<i>For Elevated Installation >10' To 15', Add</i>	2.77	
			<i>For Elevated Installation >15' To 20', Add</i>	5.53	
			<i>For Elevated Installation >20' To 25', Add</i>	6.92	
			<i>For Elevated Installation >25' To 30', Add</i>	9.68	
			<i>For Elevated Installation >30' To 35', Add</i>	11.07	
			<i>For Elevated Installation >35' To 40', Add</i>	13.84	
			<i>For Elevated Installation >40', Add</i>	15.22	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.30	
26 05 33	13-0580	EA	2-1/2" Rigid Galvanized Steel (RGS) Chase Nipple	38.72	16.14
			<i>For Work In Restricted Working Space, Add</i>	9.69	
			<i>For Elevated Installation >10' To 15', Add</i>	3.23	
			<i>For Elevated Installation >15' To 20', Add</i>	6.46	
			<i>For Elevated Installation >20' To 25', Add</i>	8.07	
			<i>For Elevated Installation >25' To 30', Add</i>	11.30	
			<i>For Elevated Installation >30' To 35', Add</i>	12.92	
			<i>For Elevated Installation >35' To 40', Add</i>	16.15	
			<i>For Elevated Installation >40', Add</i>	17.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.69	
26 05 33	13-0581	EA	3" Rigid Galvanized Steel (RGS) Chase Nipple	43.50	18.45
			<i>For Work In Restricted Working Space, Add</i>	11.07	
			<i>For Elevated Installation >10' To 15', Add</i>	3.69	
			<i>For Elevated Installation >15' To 20', Add</i>	7.38	
			<i>For Elevated Installation >20' To 25', Add</i>	9.23	
			<i>For Elevated Installation >25' To 30', Add</i>	12.92	
			<i>For Elevated Installation >30' To 35', Add</i>	14.76	
			<i>For Elevated Installation >35' To 40', Add</i>	18.45	
			<i>For Elevated Installation >40', Add</i>	20.30	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0582 EA 3-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	53.17	20.75
For Work In Restricted Working Space, Add	12.45	
For Elevated Installation >10' To 15', Add	4.15	
For Elevated Installation >15' To 20', Add	8.30	
For Elevated Installation >20' To 25', Add	10.38	
For Elevated Installation >25' To 30', Add	14.53	
For Elevated Installation >30' To 35', Add	16.60	
For Elevated Installation >35' To 40', Add	20.76	
For Elevated Installation >40', Add	22.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 05 33 13-0583 EA 4" Rigid Galvanized Steel (RGS) Chase Nipple.....	70.55	23.06
For Work In Restricted Working Space, Add	13.84	
For Elevated Installation >10' To 15', Add	4.61	
For Elevated Installation >15' To 20', Add	9.22	
For Elevated Installation >20' To 25', Add	11.53	
For Elevated Installation >25' To 30', Add	16.14	
For Elevated Installation >30' To 35', Add	18.45	
For Elevated Installation >35' To 40', Add	23.06	
For Elevated Installation >40', Add	25.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.84	
26 05 33 13-0584 Rigid Galvanized Steel (RGS) Pulling Elbow <small>(26 05 33 13-0059)</small>		
26 05 33 13-0585 EA 1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	21.03	8.31
For Work In Restricted Working Space, Add	4.98	
For Elevated Installation >10' To 15', Add	1.66	
For Elevated Installation >15' To 20', Add	3.32	
For Elevated Installation >20' To 25', Add	4.15	
For Elevated Installation >25' To 30', Add	5.81	
For Elevated Installation >30' To 35', Add	6.64	
For Elevated Installation >35' To 40', Add	8.30	
For Elevated Installation >40', Add	9.13	
26 05 33 13-0586 EA 3/4" Rigid Galvanized Steel (RGS) Pulling Elbow.....	24.46	9.69
For Work In Restricted Working Space, Add	5.81	
For Elevated Installation >10' To 15', Add	1.94	
For Elevated Installation >15' To 20', Add	3.87	
For Elevated Installation >20' To 25', Add	4.64	
For Elevated Installation >25' To 30', Add	6.78	
For Elevated Installation >30' To 35', Add	7.75	
For Elevated Installation >35' To 40', Add	9.69	
For Elevated Installation >40', Add	10.65	
26 05 33 13-0587 EA 1" Rigid Galvanized Steel (RGS) Pulling Elbow.....	30.59	11.07
For Work In Restricted Working Space, Add	6.64	
For Elevated Installation >10' To 15', Add	2.21	
For Elevated Installation >15' To 20', Add	4.43	
For Elevated Installation >20' To 25', Add	5.54	
For Elevated Installation >25' To 30', Add	7.75	
For Elevated Installation >30' To 35', Add	8.86	
For Elevated Installation >35' To 40', Add	11.07	
For Elevated Installation >40', Add	12.18	
26 05 33 13-0588 EA 1-1/4" Rigid Galvanized Steel (RGS) Pulling Elbow.....	39.04	13.83
For Work In Restricted Working Space, Add	8.30	
For Elevated Installation >10' To 15', Add	2.77	
For Elevated Installation >15' To 20', Add	5.53	
For Elevated Installation >20' To 25', Add	6.92	
For Elevated Installation >25' To 30', Add	9.68	
For Elevated Installation >30' To 35', Add	11.07	
For Elevated Installation >35' To 40', Add	13.84	
For Elevated Installation >40', Add	15.22	
26 05 33 13-0589 EA 1-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	51.26	16.60
For Work In Restricted Working Space, Add	9.96	
For Elevated Installation >10' To 15', Add	3.32	
For Elevated Installation >15' To 20', Add	6.64	
For Elevated Installation >20' To 25', Add	8.30	
For Elevated Installation >25' To 30', Add	11.62	
For Elevated Installation >30' To 35', Add	13.28	
For Elevated Installation >35' To 40', Add	16.61	
For Elevated Installation >40', Add	18.27	
26 05 33 13-0590 EA 2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	67.32	19.37
For Work In Restricted Working Space, Add	11.63	
For Elevated Installation >10' To 15', Add	3.88	
For Elevated Installation >15' To 20', Add	7.75	
For Elevated Installation >20' To 25', Add	9.69	
For Elevated Installation >25' To 30', Add	13.56	
For Elevated Installation >30' To 35', Add	15.50	
For Elevated Installation >35' To 40', Add	19.38	
For Elevated Installation >40', Add	21.31	
26 05 33 13-0591 EA 2-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	91.45	22.14
For Work In Restricted Working Space, Add	13.28	
For Elevated Installation >10' To 15', Add	4.43	
For Elevated Installation >15' To 20', Add	8.86	
For Elevated Installation >20' To 25', Add	11.07	
For Elevated Installation >25' To 30', Add	15.50	
For Elevated Installation >30' To 35', Add	17.71	
For Elevated Installation >35' To 40', Add	22.14	
For Elevated Installation >40', Add	24.35	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0592 EA 3" Rigid Galvanized Steel (RGS) Pulling Elbow	155.29	27.67
For Work In Restricted Working Space, Add	16.61	
For Elevated Installation >10' To 15', Add	5.54	
For Elevated Installation >15' To 20', Add	11.07	
For Elevated Installation >20' To 25', Add	13.84	
For Elevated Installation >25' To 30', Add	19.37	
For Elevated Installation >30' To 35', Add	22.14	
For Elevated Installation >35' To 40', Add	27.68	
For Elevated Installation >40', Add	30.44	
26 05 33 13-0593 Electrical Metallic Tubing (EMT) Thinwall Conduit (26 05 33 13-0058)		
Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0594 Electrical Metallic Tubing (EMT) Thinwall Conduit (26 05 33 13-0593)		
Note: Includes field bending conduit up to and including 1".		
26 05 33 13-0595 LF 1/2" Electrical Metallic Tubing (EMT) Conduit	4.83	1.67
For >250 To 500, Deduct	-0.03	
For >500 To 1,000, Deduct	-0.26	
For >1,000, Deduct	-0.38	
For Installation In Metal Stud Wall, Add	0.42	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.04	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.62	
For Work In Restricted Working Space, Add	1.25	
For Elevated Installation >10' To 15', Add	0.42	
For Elevated Installation >15' To 20', Add	0.83	
For Elevated Installation >20' To 25', Add	1.04	
For Elevated Installation >25' To 30', Add	1.45	
For Elevated Installation >30' To 35', Add	1.66	
For Elevated Installation >35' To 40', Add	2.08	
For Elevated Installation >40', Add	2.28	
For Factory Applied Color Coating, Add	0.20	
26 05 33 13-0596 LF 3/4" Electrical Metallic Tubing (EMT) Conduit	5.68	1.85
For >250 To 500, Deduct	-0.05	
For >500 To 1,000, Deduct	-0.31	
For >1,000, Deduct	-0.45	
For Installation In Metal Stud Wall, Add	0.46	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.15	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.69	
For Work In Restricted Working Space, Add	1.38	
For Elevated Installation >10' To 15', Add	0.46	
For Elevated Installation >15' To 20', Add	0.92	
For Elevated Installation >20' To 25', Add	1.15	
For Elevated Installation >25' To 30', Add	1.61	
For Elevated Installation >30' To 35', Add	1.84	
For Elevated Installation >35' To 40', Add	2.31	
For Elevated Installation >40', Add	2.54	
For Factory Applied Color Coating, Add	0.32	
26 05 33 13-0597 LF 1" Electrical Metallic Tubing (EMT) Conduit	6.86	2.03
For >250 To 500, Deduct	-0.09	
For >500 To 1,000, Deduct	-0.39	
For >1,000, Deduct	-0.56	
For Installation In Metal Stud Wall, Add	0.51	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.27	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.76	
For Work In Restricted Working Space, Add	1.52	
For Elevated Installation >10' To 15', Add	0.51	
For Elevated Installation >15' To 20', Add	1.02	
For Elevated Installation >20' To 25', Add	1.27	
For Elevated Installation >25' To 30', Add	1.78	
For Elevated Installation >30' To 35', Add	2.03	
For Elevated Installation >35' To 40', Add	2.54	
For Elevated Installation >40', Add	2.79	
For Factory Applied Color Coating, Add	0.53	
26 05 33 13-0598 LF 1-1/4" Electrical Metallic Tubing (EMT) Conduit	8.53	2.29
For >250 To 500, Deduct	-0.14	
For >500 To 1,000, Deduct	-0.50	
For >1,000, Deduct	-0.71	
For Installation In Metal Stud Wall, Add	0.57	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.43	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.86	
For Work In Restricted Working Space, Add	1.72	
For Elevated Installation >10' To 15', Add	0.57	
For Elevated Installation >15' To 20', Add	1.14	
For Elevated Installation >20' To 25', Add	1.43	
For Elevated Installation >25' To 30', Add	2.00	
For Elevated Installation >30' To 35', Add	2.29	
For Elevated Installation >35' To 40', Add	2.86	
For Elevated Installation >40', Add	3.15	
For Factory Applied Color Coating, Add	0.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0599 LF 1-1/2" Electrical Metallic Tubing (EMT) Conduit.....	9.96	2.59
For >250 To 500, Deduct	-0.18	
For >500 To 1,000, Deduct	-0.59	
For >1,000, Deduct	-0.83	
For Installation In Metal Stud Wall, Add	0.65	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.62	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.97	
For Work In Restricted Working Space, Add	1.94	
For Elevated Installation >10' To 15', Add	0.65	
For Elevated Installation >15' To 20', Add	1.29	
For Elevated Installation >20' To 25', Add	1.62	
For Elevated Installation >25' To 30', Add	2.26	
For Elevated Installation >30' To 35', Add	2.58	
For Elevated Installation >35' To 40', Add	3.23	
For Elevated Installation >40', Add	3.55	
For Factory Applied Color Coating, Add	1.05	
26 05 33 13-0600 LF 2" Electrical Metallic Tubing (EMT) Conduit.....	11.53	2.95
For >250 To 500, Deduct	-0.21	
For >500 To 1,000, Deduct	-0.68	
For >1,000, Deduct	-0.97	
For Installation In Metal Stud Wall, Add	0.74	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.85	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.11	
For Work In Restricted Working Space, Add	2.21	
For Elevated Installation >10' To 15', Add	0.74	
For Elevated Installation >15' To 20', Add	1.48	
For Elevated Installation >20' To 25', Add	1.85	
For Elevated Installation >25' To 30', Add	2.58	
For Elevated Installation >30' To 35', Add	2.95	
For Elevated Installation >35' To 40', Add	3.69	
For Elevated Installation >40', Add	4.06	
For Factory Applied Color Coating, Add	1.25	
26 05 33 13-0601 LF 2-1/2" Electrical Metallic Tubing (EMT) Conduit.....	14.91	3.50
For >250 To 500, Deduct	-0.31	
For >500 To 1,000, Deduct	-0.90	
For >1,000, Deduct	-1.27	
For Installation In Metal Stud Wall, Add	0.88	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.19	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.32	
For Work In Restricted Working Space, Add	2.63	
For Elevated Installation >10' To 15', Add	0.88	
For Elevated Installation >15' To 20', Add	1.75	
For Elevated Installation >20' To 25', Add	2.19	
For Elevated Installation >25' To 30', Add	3.07	
For Elevated Installation >30' To 35', Add	3.51	
For Elevated Installation >35' To 40', Add	4.39	
For Elevated Installation >40', Add	4.82	
For Factory Applied Color Coating, Add	1.84	
26 05 33 13-0602 LF 3" Electrical Metallic Tubing (EMT) Conduit.....	17.84	4.06
For >250 To 500, Deduct	-0.38	
For >500 To 1,000, Deduct	-1.08	
For >1,000, Deduct	-1.53	
For Installation In Metal Stud Wall, Add	1.02	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.54	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.52	
For Work In Restricted Working Space, Add	3.05	
For Elevated Installation >10' To 15', Add	1.02	
For Elevated Installation >15' To 20', Add	2.03	
For Elevated Installation >20' To 25', Add	2.54	
For Elevated Installation >25' To 30', Add	3.55	
For Elevated Installation >30' To 35', Add	4.06	
For Elevated Installation >35' To 40', Add	5.08	
For Elevated Installation >40', Add	5.58	
For Factory Applied Color Coating, Add	2.31	
26 05 33 13-0603 LF 3-1/2" Electrical Metallic Tubing (EMT) Conduit.....	22.28	4.79
For >250 To 500, Deduct	-0.51	
For >500 To 1,000, Deduct	-1.37	
For >1,000, Deduct	-1.93	
For Installation In Metal Stud Wall, Add	1.20	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.00	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.80	
For Work In Restricted Working Space, Add	3.60	
For Elevated Installation >10' To 15', Add	1.20	
For Elevated Installation >15' To 20', Add	2.40	
For Elevated Installation >20' To 25', Add	3.00	
For Elevated Installation >25' To 30', Add	4.20	
For Elevated Installation >30' To 35', Add	4.80	
For Elevated Installation >35' To 40', Add	6.00	
For Elevated Installation >40', Add	6.60	
For Factory Applied Color Coating, Add	3.08	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0604 LF 4" Electrical Metallic Tubing (EMT) Conduit.....	29.04	7.40
For >250 To 500, Deduct	-0.53	
For >500 To 1,000, Deduct	-1.72	
For >1,000, Deduct	-2.44	
For Installation In Metal Stud Wall, Add	1.85	
For Installation In Wood Stud Wall (Includes Drilling), Add	4.63	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.78	
For Work In Restricted Working Space, Add	5.55	
For Elevated Installation >10' To 15', Add	1.85	
For Elevated Installation >15' To 20', Add	3.70	
For Elevated Installation >20' To 25', Add	4.63	
For Elevated Installation >25' To 30', Add	6.48	
For Elevated Installation >30' To 35', Add	7.40	
For Elevated Installation >35' To 40', Add	9.26	
For Elevated Installation >40', Add	10.18	
For Factory Applied Color Coating, Add	3.16	
26 05 33 13-0605 Electrical Metallic Tubing (EMT) 90 Degree Elbows (26 05 33 13-0593)		
See CSI section 26 05 33 13-2413 for conduit field bending.		
26 05 33 13-0606 Electrical Metallic Tubing (EMT) Set Screw Couplings (26 05 33 13-0593)		
26 05 33 13-0607 EA 1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	4.86	2.22
For Work In Restricted Working Space, Add	1.38	
For Elevated Installation >10' To 15', Add	0.46	
For Elevated Installation >15' To 20', Add	0.92	
For Elevated Installation >20' To 25', Add	1.15	
For Elevated Installation >25' To 30', Add	1.61	
For Elevated Installation >30' To 35', Add	1.84	
For Elevated Installation >35' To 40', Add	2.31	
For Elevated Installation >40', Add	2.54	
26 05 33 13-0608 EA 3/4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	5.91	2.22
For Work In Restricted Working Space, Add	1.66	
For Elevated Installation >10' To 15', Add	0.55	
For Elevated Installation >15' To 20', Add	1.11	
For Elevated Installation >20' To 25', Add	1.39	
For Elevated Installation >25' To 30', Add	1.94	
For Elevated Installation >30' To 35', Add	2.22	
For Elevated Installation >35' To 40', Add	2.77	
For Elevated Installation >40', Add	3.05	
26 05 33 13-0609 EA 1" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	7.02	2.59
For Work In Restricted Working Space, Add	1.94	
For Elevated Installation >10' To 15', Add	0.65	
For Elevated Installation >15' To 20', Add	1.29	
For Elevated Installation >20' To 25', Add	1.62	
For Elevated Installation >25' To 30', Add	2.26	
For Elevated Installation >30' To 35', Add	2.58	
For Elevated Installation >35' To 40', Add	3.23	
For Elevated Installation >40', Add	3.55	
26 05 33 13-0610 EA 1-1/4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	9.53	3.32
For Work In Restricted Working Space, Add	2.49	
For Elevated Installation >10' To 15', Add	0.83	
For Elevated Installation >15' To 20', Add	1.66	
For Elevated Installation >20' To 25', Add	2.08	
For Elevated Installation >25' To 30', Add	2.91	
For Elevated Installation >30' To 35', Add	3.32	
For Elevated Installation >35' To 40', Add	4.15	
For Elevated Installation >40', Add	4.57	
26 05 33 13-0611 EA 1-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	11.78	4.06
For Work In Restricted Working Space, Add	3.05	
For Elevated Installation >10' To 15', Add	1.02	
For Elevated Installation >15' To 20', Add	2.03	
For Elevated Installation >20' To 25', Add	2.54	
For Elevated Installation >25' To 30', Add	3.55	
For Elevated Installation >30' To 35', Add	4.06	
For Elevated Installation >35' To 40', Add	5.08	
For Elevated Installation >40', Add	5.58	
26 05 33 13-0612 EA 2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	16.00	5.54
For Work In Restricted Working Space, Add	4.15	
For Elevated Installation >10' To 15', Add	1.38	
For Elevated Installation >15' To 20', Add	2.77	
For Elevated Installation >20' To 25', Add	3.46	
For Elevated Installation >25' To 30', Add	4.84	
For Elevated Installation >30' To 35', Add	5.53	
For Elevated Installation >35' To 40', Add	6.92	
For Elevated Installation >40', Add	7.61	
26 05 33 13-0613 EA 2-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	22.25	7.38
For Work In Restricted Working Space, Add	5.54	
For Elevated Installation >10' To 15', Add	1.85	
For Elevated Installation >15' To 20', Add	3.69	
For Elevated Installation >20' To 25', Add	4.61	
For Elevated Installation >25' To 30', Add	6.46	
For Elevated Installation >30' To 35', Add	7.38	
For Elevated Installation >35' To 40', Add	9.23	
For Elevated Installation >40', Add	10.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0614 EA 3" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	28.97	8.49
<i>For Work In Restricted Working Space, Add</i>	6.92	
<i>For Elevated Installation >10' To 15', Add</i>	2.31	
<i>For Elevated Installation >15' To 20', Add</i>	4.61	
<i>For Elevated Installation >20' To 25', Add</i>	5.77	
<i>For Elevated Installation >25' To 30', Add</i>	8.07	
<i>For Elevated Installation >30' To 35', Add</i>	9.22	
<i>For Elevated Installation >35' To 40', Add</i>	11.53	
<i>For Elevated Installation >40', Add</i>	12.68	
26 05 33 13-0615 EA 3-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	32.35	9.23
<i>For Work In Restricted Working Space, Add</i>	8.30	
<i>For Elevated Installation >10' To 15', Add</i>	2.77	
<i>For Elevated Installation >15' To 20', Add</i>	5.53	
<i>For Elevated Installation >20' To 25', Add</i>	6.92	
<i>For Elevated Installation >25' To 30', Add</i>	9.68	
<i>For Elevated Installation >30' To 35', Add</i>	11.07	
<i>For Elevated Installation >35' To 40', Add</i>	13.84	
<i>For Elevated Installation >40', Add</i>	15.22	
26 05 33 13-0616 EA 4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	95.21	26.85
<i>For Work In Restricted Working Space, Add</i>	26.06	
<i>For Elevated Installation >10' To 15', Add</i>	8.69	
<i>For Elevated Installation >15' To 20', Add</i>	17.38	
<i>For Elevated Installation >20' To 25', Add</i>	21.72	
<i>For Elevated Installation >25' To 30', Add</i>	30.41	
<i>For Elevated Installation >30' To 35', Add</i>	34.75	
<i>For Elevated Installation >35' To 40', Add</i>	43.44	
<i>For Elevated Installation >40', Add</i>	47.78	
26 05 33 13-0617 Electrical Metallic Tubing (EMT) Compression Couplings <small>(26 05 33 13-0593)</small>		
26 05 33 13-0618 EA 1/2 Electrical Metallic Tubing (EMT) Compression Coupling.....	6.16	2.22
<i>For Work In Restricted Working Space, Add</i>	1.66	
<i>For Elevated Installation >10' To 15', Add</i>	0.55	
<i>For Elevated Installation >15' To 20', Add</i>	1.11	
<i>For Elevated Installation >20' To 25', Add</i>	1.39	
<i>For Elevated Installation >25' To 30', Add</i>	1.94	
<i>For Elevated Installation >30' To 35', Add</i>	2.22	
<i>For Elevated Installation >35' To 40', Add</i>	2.77	
<i>For Elevated Installation >40', Add</i>	3.05	
26 05 33 13-0619 EA 3/4" Electrical Metallic Tubing (EMT) Compression Coupling.....	7.15	2.59
<i>For Work In Restricted Working Space, Add</i>	1.94	
<i>For Elevated Installation >10' To 15', Add</i>	0.65	
<i>For Elevated Installation >15' To 20', Add</i>	1.29	
<i>For Elevated Installation >20' To 25', Add</i>	1.62	
<i>For Elevated Installation >25' To 30', Add</i>	2.26	
<i>For Elevated Installation >30' To 35', Add</i>	2.58	
<i>For Elevated Installation >35' To 40', Add</i>	3.23	
<i>For Elevated Installation >40', Add</i>	3.55	
26 05 33 13-0620 EA 1" Electrical Metallic Tubing (EMT) Compression Coupling.....	10.18	3.69
<i>For Work In Restricted Working Space, Add</i>	2.77	
<i>For Elevated Installation >10' To 15', Add</i>	0.92	
<i>For Elevated Installation >15' To 20', Add</i>	1.85	
<i>For Elevated Installation >20' To 25', Add</i>	2.31	
<i>For Elevated Installation >25' To 30', Add</i>	3.23	
<i>For Elevated Installation >30' To 35', Add</i>	3.69	
<i>For Elevated Installation >35' To 40', Add</i>	4.62	
<i>For Elevated Installation >40', Add</i>	5.08	
26 05 33 13-0621 EA 1-1/4" Electrical Metallic Tubing (EMT) Compression Coupling.....	13.07	4.42
<i>For Work In Restricted Working Space, Add</i>	3.32	
<i>For Elevated Installation >10' To 15', Add</i>	1.11	
<i>For Elevated Installation >15' To 20', Add</i>	2.21	
<i>For Elevated Installation >20' To 25', Add</i>	2.77	
<i>For Elevated Installation >25' To 30', Add</i>	3.87	
<i>For Elevated Installation >30' To 35', Add</i>	4.43	
<i>For Elevated Installation >35' To 40', Add</i>	5.54	
<i>For Elevated Installation >40', Add</i>	6.09	
26 05 33 13-0622 EA 1-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	15.73	5.17
<i>For Work In Restricted Working Space, Add</i>	3.88	
<i>For Elevated Installation >10' To 15', Add</i>	1.29	
<i>For Elevated Installation >15' To 20', Add</i>	2.58	
<i>For Elevated Installation >20' To 25', Add</i>	3.23	
<i>For Elevated Installation >25' To 30', Add</i>	4.52	
<i>For Elevated Installation >30' To 35', Add</i>	5.17	
<i>For Elevated Installation >35' To 40', Add</i>	6.46	
<i>For Elevated Installation >40', Add</i>	7.11	
26 05 33 13-0623 EA 2" Electrical Metallic Tubing (EMT) Compression Coupling.....	21.02	6.64
<i>For Work In Restricted Working Space, Add</i>	4.98	
<i>For Elevated Installation >10' To 15', Add</i>	1.66	
<i>For Elevated Installation >15' To 20', Add</i>	3.32	
<i>For Elevated Installation >20' To 25', Add</i>	4.15	
<i>For Elevated Installation >25' To 30', Add</i>	5.81	
<i>For Elevated Installation >30' To 35', Add</i>	6.64	
<i>For Elevated Installation >35' To 40', Add</i>	8.30	
<i>For Elevated Installation >40', Add</i>	9.13	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0624 EA 2-1/2" Electrical Metallic Tubing (EMT) Compression Coupling	33.68	8.86
For Work In Restricted Working Space, Add	6.64	
For Elevated Installation >10' To 15', Add	2.21	
For Elevated Installation >15' To 20', Add	4.43	
For Elevated Installation >20' To 25', Add	5.54	
For Elevated Installation >25' To 30', Add	7.75	
For Elevated Installation >30' To 35', Add	8.86	
For Elevated Installation >35' To 40', Add	11.07	
For Elevated Installation >40', Add	12.18	
26 05 33 13-0625 EA 3" Electrical Metallic Tubing (EMT) Compression Coupling	38.95	10.33
For Work In Restricted Working Space, Add	7.75	
For Elevated Installation >10' To 15', Add	2.58	
For Elevated Installation >15' To 20', Add	5.17	
For Elevated Installation >20' To 25', Add	6.46	
For Elevated Installation >25' To 30', Add	9.04	
For Elevated Installation >30' To 35', Add	10.33	
For Elevated Installation >35' To 40', Add	12.92	
For Elevated Installation >40', Add	14.21	
26 05 33 13-0626 EA 3-1/2" Electrical Metallic Tubing (EMT) Compression Coupling	48.70	12.92
For Work In Restricted Working Space, Add	9.69	
For Elevated Installation >10' To 15', Add	3.23	
For Elevated Installation >15' To 20', Add	6.46	
For Elevated Installation >20' To 25', Add	8.07	
For Elevated Installation >25' To 30', Add	11.30	
For Elevated Installation >30' To 35', Add	12.92	
For Elevated Installation >35' To 40', Add	16.15	
For Elevated Installation >40', Add	17.76	
26 05 33 13-0627 EA 4" Electrical Metallic Tubing (EMT) Compression Coupling	62.43	16.60
For Work In Restricted Working Space, Add	12.45	
For Elevated Installation >10' To 15', Add	4.15	
For Elevated Installation >15' To 20', Add	8.30	
For Elevated Installation >20' To 25', Add	10.38	
For Elevated Installation >25' To 30', Add	14.53	
For Elevated Installation >30' To 35', Add	16.60	
For Elevated Installation >35' To 40', Add	20.76	
For Elevated Installation >40', Add	22.83	
26 05 33 13-0628 Electrical Metallic Tubing (EMT) Straight Box Connectors With Set Screw⁽²⁶⁾		
26 05 33 13-0629 EA 1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw	4.81	1.85
For Work In Restricted Working Space, Add	1.38	
For Elevated Installation >10' To 15', Add	0.46	
For Elevated Installation >15' To 20', Add	0.92	
For Elevated Installation >20' To 25', Add	1.15	
For Elevated Installation >25' To 30', Add	1.61	
For Elevated Installation >30' To 35', Add	1.84	
For Elevated Installation >35' To 40', Add	2.31	
For Elevated Installation >40', Add	2.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.38	
26 05 33 13-0630 EA 3/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw	5.86	2.22
For Work In Restricted Working Space, Add	1.66	
For Elevated Installation >10' To 15', Add	0.55	
For Elevated Installation >15' To 20', Add	1.11	
For Elevated Installation >20' To 25', Add	1.39	
For Elevated Installation >25' To 30', Add	1.94	
For Elevated Installation >30' To 35', Add	2.22	
For Elevated Installation >35' To 40', Add	2.77	
For Elevated Installation >40', Add	3.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.66	
26 05 33 13-0631 EA 1" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw	7.03	2.59
For Work In Restricted Working Space, Add	1.94	
For Elevated Installation >10' To 15', Add	0.65	
For Elevated Installation >15' To 20', Add	1.29	
For Elevated Installation >20' To 25', Add	1.62	
For Elevated Installation >25' To 30', Add	2.26	
For Elevated Installation >30' To 35', Add	2.58	
For Elevated Installation >35' To 40', Add	3.23	
For Elevated Installation >40', Add	3.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.94	
26 05 33 13-0632 EA 1-1/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw	10.27	3.69
For Work In Restricted Working Space, Add	2.77	
For Elevated Installation >10' To 15', Add	0.92	
For Elevated Installation >15' To 20', Add	1.85	
For Elevated Installation >20' To 25', Add	2.31	
For Elevated Installation >25' To 30', Add	3.23	
For Elevated Installation >30' To 35', Add	3.69	
For Elevated Installation >35' To 40', Add	4.62	
For Elevated Installation >40', Add	5.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0633 EA 1-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	12.58	4.42
<i>For Work In Restricted Working Space, Add</i>	3.32	
<i>For Elevated Installation >10' To 15', Add</i>	1.11	
<i>For Elevated Installation >15' To 20', Add</i>	2.21	
<i>For Elevated Installation >20' To 25', Add</i>	2.77	
<i>For Elevated Installation >25' To 30', Add</i>	3.87	
<i>For Elevated Installation >30' To 35', Add</i>	4.43	
<i>For Elevated Installation >35' To 40', Add</i>	5.54	
<i>For Elevated Installation >40', Add</i>	6.09	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.32	
26 05 33 13-0634 EA 2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	16.07	5.54
<i>For Work In Restricted Working Space, Add</i>	4.15	
<i>For Elevated Installation >10' To 15', Add</i>	1.38	
<i>For Elevated Installation >15' To 20', Add</i>	2.77	
<i>For Elevated Installation >20' To 25', Add</i>	3.46	
<i>For Elevated Installation >25' To 30', Add</i>	4.84	
<i>For Elevated Installation >30' To 35', Add</i>	5.53	
<i>For Elevated Installation >35' To 40', Add</i>	6.92	
<i>For Elevated Installation >40', Add</i>	7.61	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.15	
26 05 33 13-0635 EA 2-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	24.68	7.38
<i>For Work In Restricted Working Space, Add</i>	5.54	
<i>For Elevated Installation >10' To 15', Add</i>	1.85	
<i>For Elevated Installation >15' To 20', Add</i>	3.69	
<i>For Elevated Installation >20' To 25', Add</i>	4.61	
<i>For Elevated Installation >25' To 30', Add</i>	6.46	
<i>For Elevated Installation >30' To 35', Add</i>	7.38	
<i>For Elevated Installation >35' To 40', Add</i>	9.23	
<i>For Elevated Installation >40', Add</i>	10.15	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.54	
26 05 33 13-0636 EA 3" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	30.68	9.23
<i>For Work In Restricted Working Space, Add</i>	6.92	
<i>For Elevated Installation >10' To 15', Add</i>	2.31	
<i>For Elevated Installation >15' To 20', Add</i>	4.61	
<i>For Elevated Installation >20' To 25', Add</i>	5.77	
<i>For Elevated Installation >25' To 30', Add</i>	8.07	
<i>For Elevated Installation >30' To 35', Add</i>	9.22	
<i>For Elevated Installation >35' To 40', Add</i>	11.53	
<i>For Elevated Installation >40', Add</i>	12.68	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.92	
26 05 33 13-0637 EA 3-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	36.24	11.07
<i>For Work In Restricted Working Space, Add</i>	8.30	
<i>For Elevated Installation >10' To 15', Add</i>	2.77	
<i>For Elevated Installation >15' To 20', Add</i>	5.53	
<i>For Elevated Installation >20' To 25', Add</i>	6.92	
<i>For Elevated Installation >25' To 30', Add</i>	9.68	
<i>For Elevated Installation >30' To 35', Add</i>	11.07	
<i>For Elevated Installation >35' To 40', Add</i>	13.84	
<i>For Elevated Installation >40', Add</i>	15.22	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.30	
26 05 33 13-0638 EA 4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	42.21	12.92
<i>For Work In Restricted Working Space, Add</i>	9.69	
<i>For Elevated Installation >10' To 15', Add</i>	3.23	
<i>For Elevated Installation >15' To 20', Add</i>	6.46	
<i>For Elevated Installation >20' To 25', Add</i>	8.07	
<i>For Elevated Installation >25' To 30', Add</i>	11.30	
<i>For Elevated Installation >30' To 35', Add</i>	12.92	
<i>For Elevated Installation >35' To 40', Add</i>	16.15	
<i>For Elevated Installation >40', Add</i>	17.76	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.69	
26 05 33 13-0639 Electrical Metallic Tubing (EMT) Insulated Straight Box Connectors With Set Screw		
<small>(26 05 33 13-0593)</small>		
26 05 33 13-0640 EA 1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw.....	6.51	2.49
<i>For Work In Restricted Working Space, Add</i>	1.85	
<i>For Elevated Installation >10' To 15', Add</i>	0.62	
<i>For Elevated Installation >15' To 20', Add</i>	1.24	
<i>For Elevated Installation >20' To 25', Add</i>	1.55	
<i>For Elevated Installation >25' To 30', Add</i>	2.16	
<i>For Elevated Installation >30' To 35', Add</i>	2.47	
<i>For Elevated Installation >35' To 40', Add</i>	3.09	
<i>For Elevated Installation >40', Add</i>	3.40	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.85	
26 05 33 13-0641 EA 3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw.....	7.26	2.68
<i>For Work In Restricted Working Space, Add</i>	2.02	
<i>For Elevated Installation >10' To 15', Add</i>	0.67	
<i>For Elevated Installation >15' To 20', Add</i>	1.35	
<i>For Elevated Installation >20' To 25', Add</i>	1.68	
<i>For Elevated Installation >25' To 30', Add</i>	2.36	
<i>For Elevated Installation >30' To 35', Add</i>	2.69	
<i>For Elevated Installation >35' To 40', Add</i>	3.37	
<i>For Elevated Installation >40', Add</i>	3.70	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.02	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0642	EA	1" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	9.15	3.32
			<i>For Work In Restricted Working Space, Add</i>	2.46	
			<i>For Elevated Installation >10' To 15', Add</i>	0.82	
			<i>For Elevated Installation >15' To 20', Add</i>	1.64	
			<i>For Elevated Installation >20' To 25', Add</i>	2.05	
			<i>For Elevated Installation >25' To 30', Add</i>	2.87	
			<i>For Elevated Installation >30' To 35', Add</i>	3.28	
			<i>For Elevated Installation >35' To 40', Add</i>	4.10	
			<i>For Elevated Installation >40', Add</i>	4.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.46	
26 05 33	13-0643	EA	1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	12.09	4.24
			<i>For Work In Restricted Working Space, Add</i>	3.15	
			<i>For Elevated Installation >10' To 15', Add</i>	1.05	
			<i>For Elevated Installation >15' To 20', Add</i>	2.10	
			<i>For Elevated Installation >20' To 25', Add</i>	2.63	
			<i>For Elevated Installation >25' To 30', Add</i>	3.68	
			<i>For Elevated Installation >30' To 35', Add</i>	4.20	
			<i>For Elevated Installation >35' To 40', Add</i>	5.26	
			<i>For Elevated Installation >40', Add</i>	5.78	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.15	
26 05 33	13-0644	EA	1-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	14.37	4.88
			<i>For Work In Restricted Working Space, Add</i>	3.68	
			<i>For Elevated Installation >10' To 15', Add</i>	1.23	
			<i>For Elevated Installation >15' To 20', Add</i>	2.45	
			<i>For Elevated Installation >20' To 25', Add</i>	3.07	
			<i>For Elevated Installation >25' To 30', Add</i>	4.29	
			<i>For Elevated Installation >30' To 35', Add</i>	4.91	
			<i>For Elevated Installation >35' To 40', Add</i>	6.14	
			<i>For Elevated Installation >40', Add</i>	6.75	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.68	
26 05 33	13-0645	EA	2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	17.63	5.91
			<i>For Work In Restricted Working Space, Add</i>	4.43	
			<i>For Elevated Installation >10' To 15', Add</i>	1.48	
			<i>For Elevated Installation >15' To 20', Add</i>	2.95	
			<i>For Elevated Installation >20' To 25', Add</i>	3.69	
			<i>For Elevated Installation >25' To 30', Add</i>	5.16	
			<i>For Elevated Installation >30' To 35', Add</i>	5.90	
			<i>For Elevated Installation >35' To 40', Add</i>	7.38	
			<i>For Elevated Installation >40', Add</i>	8.11	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.43	
26 05 33	13-0646	EA	2-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	29.92	8.20
			<i>For Work In Restricted Working Space, Add</i>	6.14	
			<i>For Elevated Installation >10' To 15', Add</i>	2.05	
			<i>For Elevated Installation >15' To 20', Add</i>	4.10	
			<i>For Elevated Installation >20' To 25', Add</i>	5.12	
			<i>For Elevated Installation >25' To 30', Add</i>	7.17	
			<i>For Elevated Installation >30' To 35', Add</i>	8.19	
			<i>For Elevated Installation >35' To 40', Add</i>	10.24	
			<i>For Elevated Installation >40', Add</i>	11.26	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.14	
26 05 33	13-0647	EA	3" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	38.59	10.88
			<i>For Work In Restricted Working Space, Add</i>	8.19	
			<i>For Elevated Installation >10' To 15', Add</i>	2.73	
			<i>For Elevated Installation >15' To 20', Add</i>	5.46	
			<i>For Elevated Installation >20' To 25', Add</i>	6.83	
			<i>For Elevated Installation >25' To 30', Add</i>	9.56	
			<i>For Elevated Installation >30' To 35', Add</i>	10.92	
			<i>For Elevated Installation >35' To 40', Add</i>	13.65	
			<i>For Elevated Installation >40', Add</i>	15.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.19	
26 05 33	13-0648	EA	3-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	49.27	14.02
			<i>For Work In Restricted Working Space, Add</i>	10.55	
			<i>For Elevated Installation >10' To 15', Add</i>	3.52	
			<i>For Elevated Installation >15' To 20', Add</i>	7.03	
			<i>For Elevated Installation >20' To 25', Add</i>	8.79	
			<i>For Elevated Installation >25' To 30', Add</i>	12.30	
			<i>For Elevated Installation >30' To 35', Add</i>	14.06	
			<i>For Elevated Installation >35' To 40', Add</i>	17.58	
			<i>For Elevated Installation >40', Add</i>	19.33	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.55	
26 05 33	13-0649	EA	4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	61.65	18.45
			<i>For Work In Restricted Working Space, Add</i>	13.84	
			<i>For Elevated Installation >10' To 15', Add</i>	4.61	
			<i>For Elevated Installation >15' To 20', Add</i>	9.22	
			<i>For Elevated Installation >20' To 25', Add</i>	11.53	
			<i>For Elevated Installation >25' To 30', Add</i>	16.14	
			<i>For Elevated Installation >30' To 35', Add</i>	18.45	
			<i>For Elevated Installation >35' To 40', Add</i>	23.06	
			<i>For Elevated Installation >40', Add</i>	25.37	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.84	

26 05 33 13-0650 Electrical Metallic Tubing (EMT) Straight Box Compression Connectors (26 05 33 13-0649)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0651 EA 1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	5.86	2.22
For Work In Restricted Working Space, Add	1.66	
For Elevated Installation >10' To 15', Add	0.55	
For Elevated Installation >15' To 20', Add	1.11	
For Elevated Installation >20' To 25', Add	1.39	
For Elevated Installation >25' To 30', Add	1.94	
For Elevated Installation >30' To 35', Add	2.22	
For Elevated Installation >35' To 40', Add	2.77	
For Elevated Installation >40', Add	3.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.66	
26 05 33 13-0652 EA 3/4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	6.95	2.59
For Work In Restricted Working Space, Add	1.94	
For Elevated Installation >10' To 15', Add	0.65	
For Elevated Installation >15' To 20', Add	1.29	
For Elevated Installation >20' To 25', Add	1.62	
For Elevated Installation >25' To 30', Add	2.26	
For Elevated Installation >30' To 35', Add	2.58	
For Elevated Installation >35' To 40', Add	3.23	
For Elevated Installation >40', Add	3.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.94	
26 05 33 13-0653 EA 1" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	9.93	3.69
For Work In Restricted Working Space, Add	2.77	
For Elevated Installation >10' To 15', Add	0.92	
For Elevated Installation >15' To 20', Add	1.85	
For Elevated Installation >20' To 25', Add	2.31	
For Elevated Installation >25' To 30', Add	3.23	
For Elevated Installation >30' To 35', Add	3.69	
For Elevated Installation >35' To 40', Add	4.62	
For Elevated Installation >40', Add	5.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.77	
26 05 33 13-0654 EA 1-1/4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	12.38	4.42
For Work In Restricted Working Space, Add	3.32	
For Elevated Installation >10' To 15', Add	1.11	
For Elevated Installation >15' To 20', Add	2.21	
For Elevated Installation >20' To 25', Add	2.77	
For Elevated Installation >25' To 30', Add	3.87	
For Elevated Installation >30' To 35', Add	4.43	
For Elevated Installation >35' To 40', Add	5.54	
For Elevated Installation >40', Add	6.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.32	
26 05 33 13-0655 EA 1-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	14.77	5.17
For Work In Restricted Working Space, Add	3.88	
For Elevated Installation >10' To 15', Add	1.29	
For Elevated Installation >15' To 20', Add	2.58	
For Elevated Installation >20' To 25', Add	3.23	
For Elevated Installation >25' To 30', Add	4.52	
For Elevated Installation >30' To 35', Add	5.17	
For Elevated Installation >35' To 40', Add	6.46	
For Elevated Installation >40', Add	7.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.88	
26 05 33 13-0656 EA 2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	19.28	6.64
For Work In Restricted Working Space, Add	4.98	
For Elevated Installation >10' To 15', Add	1.66	
For Elevated Installation >15' To 20', Add	3.32	
For Elevated Installation >20' To 25', Add	4.15	
For Elevated Installation >25' To 30', Add	5.81	
For Elevated Installation >30' To 35', Add	6.64	
For Elevated Installation >35' To 40', Add	8.30	
For Elevated Installation >40', Add	9.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26 05 33 13-0657 EA 2-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	30.21	8.86
For Work In Restricted Working Space, Add	6.64	
For Elevated Installation >10' To 15', Add	2.21	
For Elevated Installation >15' To 20', Add	4.43	
For Elevated Installation >20' To 25', Add	5.54	
For Elevated Installation >25' To 30', Add	7.75	
For Elevated Installation >30' To 35', Add	8.86	
For Elevated Installation >35' To 40', Add	11.07	
For Elevated Installation >40', Add	12.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.64	
26 05 33 13-0658 EA 3" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	38.23	11.07
For Work In Restricted Working Space, Add	8.30	
For Elevated Installation >10' To 15', Add	2.77	
For Elevated Installation >15' To 20', Add	5.53	
For Elevated Installation >20' To 25', Add	6.92	
For Elevated Installation >25' To 30', Add	9.68	
For Elevated Installation >30' To 35', Add	11.07	
For Elevated Installation >35' To 40', Add	13.84	
For Elevated Installation >40', Add	15.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.30	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0659	EA	3-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	48.56	12.92
			<i>For Work In Restricted Working Space, Add</i>	9.69	
			<i>For Elevated Installation >10' To 15', Add</i>	3.23	
			<i>For Elevated Installation >15' To 20', Add</i>	6.46	
			<i>For Elevated Installation >20' To 25', Add</i>	8.07	
			<i>For Elevated Installation >25' To 30', Add</i>	11.30	
			<i>For Elevated Installation >30' To 35', Add</i>	12.92	
			<i>For Elevated Installation >35' To 40', Add</i>	16.15	
			<i>For Elevated Installation >40', Add</i>	17.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.69	
26 05 33	13-0660	EA	4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	54.54	14.75
			<i>For Work In Restricted Working Space, Add</i>	11.07	
			<i>For Elevated Installation >10' To 15', Add</i>	3.69	
			<i>For Elevated Installation >15' To 20', Add</i>	7.38	
			<i>For Elevated Installation >20' To 25', Add</i>	9.23	
			<i>For Elevated Installation >25' To 30', Add</i>	12.92	
			<i>For Elevated Installation >30' To 35', Add</i>	14.76	
			<i>For Elevated Installation >35' To 40', Add</i>	18.45	
			<i>For Elevated Installation >40', Add</i>	20.30	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.07	
26 05 33 13-0661 Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connectors <small>(26 05 33 13-0593)</small>					
26 05 33	13-0662	EA	1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	6.73	2.49
			<i>For Work In Restricted Working Space, Add</i>	1.85	
			<i>For Elevated Installation >10' To 15', Add</i>	0.62	
			<i>For Elevated Installation >15' To 20', Add</i>	1.24	
			<i>For Elevated Installation >20' To 25', Add</i>	1.55	
			<i>For Elevated Installation >25' To 30', Add</i>	2.16	
			<i>For Elevated Installation >30' To 35', Add</i>	2.47	
			<i>For Elevated Installation >35' To 40', Add</i>	3.09	
			<i>For Elevated Installation >40', Add</i>	3.40	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.85	
26 05 33	13-0663	EA	3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	7.50	2.68
			<i>For Work In Restricted Working Space, Add</i>	2.02	
			<i>For Elevated Installation >10' To 15', Add</i>	0.67	
			<i>For Elevated Installation >15' To 20', Add</i>	1.35	
			<i>For Elevated Installation >20' To 25', Add</i>	1.68	
			<i>For Elevated Installation >25' To 30', Add</i>	2.36	
			<i>For Elevated Installation >30' To 35', Add</i>	2.69	
			<i>For Elevated Installation >35' To 40', Add</i>	3.37	
			<i>For Elevated Installation >40', Add</i>	3.70	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.02	
26 05 33	13-0664	EA	1" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	9.34	3.32
			<i>For Work In Restricted Working Space, Add</i>	2.46	
			<i>For Elevated Installation >10' To 15', Add</i>	0.82	
			<i>For Elevated Installation >15' To 20', Add</i>	1.64	
			<i>For Elevated Installation >20' To 25', Add</i>	2.05	
			<i>For Elevated Installation >25' To 30', Add</i>	2.87	
			<i>For Elevated Installation >30' To 35', Add</i>	3.28	
			<i>For Elevated Installation >35' To 40', Add</i>	4.10	
			<i>For Elevated Installation >40', Add</i>	4.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.46	
26 05 33	13-0665	EA	1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	12.64	4.24
			<i>For Work In Restricted Working Space, Add</i>	3.15	
			<i>For Elevated Installation >10' To 15', Add</i>	1.05	
			<i>For Elevated Installation >15' To 20', Add</i>	2.10	
			<i>For Elevated Installation >20' To 25', Add</i>	2.63	
			<i>For Elevated Installation >25' To 30', Add</i>	3.68	
			<i>For Elevated Installation >30' To 35', Add</i>	4.20	
			<i>For Elevated Installation >35' To 40', Add</i>	5.26	
			<i>For Elevated Installation >40', Add</i>	5.78	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.15	
26 05 33	13-0666	EA	1-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	15.29	4.88
			<i>For Work In Restricted Working Space, Add</i>	3.68	
			<i>For Elevated Installation >10' To 15', Add</i>	1.23	
			<i>For Elevated Installation >15' To 20', Add</i>	2.45	
			<i>For Elevated Installation >20' To 25', Add</i>	3.07	
			<i>For Elevated Installation >25' To 30', Add</i>	4.29	
			<i>For Elevated Installation >30' To 35', Add</i>	4.91	
			<i>For Elevated Installation >35' To 40', Add</i>	6.14	
			<i>For Elevated Installation >40', Add</i>	6.75	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.68	
26 05 33	13-0667	EA	2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	18.97	5.91
			<i>For Work In Restricted Working Space, Add</i>	4.43	
			<i>For Elevated Installation >10' To 15', Add</i>	1.48	
			<i>For Elevated Installation >15' To 20', Add</i>	2.95	
			<i>For Elevated Installation >20' To 25', Add</i>	3.69	
			<i>For Elevated Installation >25' To 30', Add</i>	5.16	
			<i>For Elevated Installation >30' To 35', Add</i>	5.90	
			<i>For Elevated Installation >35' To 40', Add</i>	7.38	
			<i>For Elevated Installation >40', Add</i>	8.11	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0668 EA 2-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	34.79	8.20
For Work In Restricted Working Space, Add	6.14	
For Elevated Installation >10' To 15', Add	2.05	
For Elevated Installation >15' To 20', Add	4.10	
For Elevated Installation >20' To 25', Add	5.12	
For Elevated Installation >25' To 30', Add	7.17	
For Elevated Installation >30' To 35', Add	8.19	
For Elevated Installation >35' To 40', Add	10.24	
For Elevated Installation >40', Add	11.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.14	
26 05 33 13-0669 EA 3" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	46.77	10.88
For Work In Restricted Working Space, Add	8.19	
For Elevated Installation >10' To 15', Add	2.73	
For Elevated Installation >15' To 20', Add	5.46	
For Elevated Installation >20' To 25', Add	6.83	
For Elevated Installation >25' To 30', Add	9.56	
For Elevated Installation >30' To 35', Add	10.92	
For Elevated Installation >35' To 40', Add	13.65	
For Elevated Installation >40', Add	15.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.19	
26 05 33 13-0670 EA 3-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	63.60	14.02
For Work In Restricted Working Space, Add	10.55	
For Elevated Installation >10' To 15', Add	3.52	
For Elevated Installation >15' To 20', Add	7.03	
For Elevated Installation >20' To 25', Add	8.79	
For Elevated Installation >25' To 30', Add	12.30	
For Elevated Installation >30' To 35', Add	14.06	
For Elevated Installation >35' To 40', Add	17.58	
For Elevated Installation >40', Add	19.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.55	
26 05 33 13-0671 EA 4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	79.40	18.45
For Work In Restricted Working Space, Add	13.84	
For Elevated Installation >10' To 15', Add	4.61	
For Elevated Installation >15' To 20', Add	9.22	
For Elevated Installation >20' To 25', Add	11.53	
For Elevated Installation >25' To 30', Add	16.14	
For Elevated Installation >30' To 35', Add	18.45	
For Elevated Installation >35' To 40', Add	23.06	
For Elevated Installation >40', Add	25.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.84	
26 05 33 13-0672 Electrical Metallic Tubing (EMT) Expansion Coupling (26 05 33 13-0593)		
Note: Excludes jumper.		
26 05 33 13-0673 EA 1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	53.27	12.27
For Work In Restricted Working Space, Add	9.21	
For Elevated Installation >10' To 15', Add	3.07	
For Elevated Installation >15' To 20', Add	6.14	
For Elevated Installation >20' To 25', Add	7.68	
For Elevated Installation >25' To 30', Add	10.75	
For Elevated Installation >30' To 35', Add	12.28	
For Elevated Installation >35' To 40', Add	15.35	
For Elevated Installation >40', Add	16.89	
26 05 33 13-0674 EA 3/4" Electrical Metallic Tubing (EMT) Expansion Coupling	64.13	14.86
For Work In Restricted Working Space, Add	11.16	
For Elevated Installation >10' To 15', Add	3.72	
For Elevated Installation >15' To 20', Add	7.44	
For Elevated Installation >20' To 25', Add	9.30	
For Elevated Installation >25' To 30', Add	13.02	
For Elevated Installation >30' To 35', Add	14.88	
For Elevated Installation >35' To 40', Add	18.61	
For Elevated Installation >40', Add	20.47	
26 05 33 13-0675 EA 1" Electrical Metallic Tubing (EMT) Expansion Coupling	78.66	18.64
For Work In Restricted Working Space, Add	13.96	
For Elevated Installation >10' To 15', Add	4.65	
For Elevated Installation >15' To 20', Add	9.30	
For Elevated Installation >20' To 25', Add	11.63	
For Elevated Installation >25' To 30', Add	16.28	
For Elevated Installation >30' To 35', Add	18.61	
For Elevated Installation >35' To 40', Add	23.26	
For Elevated Installation >40', Add	25.59	
26 05 33 13-0676 EA 1-1/4" Electrical Metallic Tubing (EMT) Expansion Coupling	102.25	22.88
For Work In Restricted Working Space, Add	17.17	
For Elevated Installation >10' To 15', Add	5.72	
For Elevated Installation >15' To 20', Add	11.44	
For Elevated Installation >20' To 25', Add	14.31	
For Elevated Installation >25' To 30', Add	20.03	
For Elevated Installation >30' To 35', Add	22.89	
For Elevated Installation >35' To 40', Add	28.61	
For Elevated Installation >40', Add	31.47	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0677 EA 1-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	127.79	26.84
For Work In Restricted Working Space, Add	20.13	
For Elevated Installation >10' To 15', Add	6.71	
For Elevated Installation >15' To 20', Add	13.42	
For Elevated Installation >20' To 25', Add	16.78	
For Elevated Installation >25' To 30', Add	23.49	
For Elevated Installation >30' To 35', Add	26.84	
For Elevated Installation >35' To 40', Add	33.56	
For Elevated Installation >40', Add	36.91	
26 05 33 13-0678 EA 2" Electrical Metallic Tubing (EMT) Expansion Coupling.....	160.63	32.66
For Work In Restricted Working Space, Add	24.52	
For Elevated Installation >10' To 15', Add	8.17	
For Elevated Installation >15' To 20', Add	16.34	
For Elevated Installation >20' To 25', Add	20.43	
For Elevated Installation >25' To 30', Add	28.60	
For Elevated Installation >30' To 35', Add	32.69	
For Elevated Installation >35' To 40', Add	40.86	
For Elevated Installation >40', Add	44.95	
26 05 33 13-0679 EA 2-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	316.19	41.97
For Work In Restricted Working Space, Add	31.49	
For Elevated Installation >10' To 15', Add	10.50	
For Elevated Installation >15' To 20', Add	20.99	
For Elevated Installation >20' To 25', Add	26.24	
For Elevated Installation >25' To 30', Add	36.74	
For Elevated Installation >30' To 35', Add	41.98	
For Elevated Installation >35' To 40', Add	52.48	
For Elevated Installation >40', Add	57.73	
26 05 33 13-0680 EA 3" Electrical Metallic Tubing (EMT) Expansion Coupling.....	387.77	49.08
For Work In Restricted Working Space, Add	36.82	
For Elevated Installation >10' To 15', Add	12.27	
For Elevated Installation >15' To 20', Add	24.54	
For Elevated Installation >20' To 25', Add	30.68	
For Elevated Installation >25' To 30', Add	42.95	
For Elevated Installation >30' To 35', Add	49.09	
For Elevated Installation >35' To 40', Add	61.36	
For Elevated Installation >40', Add	67.50	
26 05 33 13-0681 EA 3-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	479.42	53.50
For Work In Restricted Working Space, Add	40.14	
For Elevated Installation >10' To 15', Add	13.38	
For Elevated Installation >15' To 20', Add	26.76	
For Elevated Installation >20' To 25', Add	33.45	
For Elevated Installation >25' To 30', Add	46.83	
For Elevated Installation >30' To 35', Add	53.52	
For Elevated Installation >35' To 40', Add	66.90	
For Elevated Installation >40', Add	73.59	
26 05 33 13-0682 EA 4" Electrical Metallic Tubing (EMT) Expansion Coupling.....	518.37	59.04
For Work In Restricted Working Space, Add	44.29	
For Elevated Installation >10' To 15', Add	14.76	
For Elevated Installation >15' To 20', Add	29.53	
For Elevated Installation >20' To 25', Add	36.91	
For Elevated Installation >25' To 30', Add	51.67	
For Elevated Installation >30' To 35', Add	59.06	
For Elevated Installation >35' To 40', Add	73.82	
For Elevated Installation >40', Add	81.20	
26 05 33 13-0683 Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapters		
<small>(26 05 33 13-0593)</small>		
26 05 33 13-0684 EA 1/2" To 3/8" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	9.55	3.32
For Work In Restricted Working Space, Add	2.46	
For Elevated Installation >10' To 15', Add	0.82	
For Elevated Installation >15' To 20', Add	1.64	
For Elevated Installation >20' To 25', Add	2.05	
For Elevated Installation >25' To 30', Add	2.87	
For Elevated Installation >30' To 35', Add	3.28	
For Elevated Installation >35' To 40', Add	4.10	
For Elevated Installation >40', Add	4.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.46	
26 05 33 13-0685 EA 1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter	10.29	3.32
For Work In Restricted Working Space, Add	2.46	
For Elevated Installation >10' To 15', Add	0.82	
For Elevated Installation >15' To 20', Add	1.64	
For Elevated Installation >20' To 25', Add	2.05	
For Elevated Installation >25' To 30', Add	2.87	
For Elevated Installation >30' To 35', Add	3.28	
For Elevated Installation >35' To 40', Add	4.10	
For Elevated Installation >40', Add	4.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0686 EA 3/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter .....11.51		3.60
<i>For Work In Restricted Working Space, Add</i>	2.73	
<i>For Elevated Installation >10' To 15', Add</i>	0.91	
<i>For Elevated Installation >15' To 20', Add</i>	1.82	
<i>For Elevated Installation >20' To 25', Add</i>	2.28	
<i>For Elevated Installation >25' To 30', Add</i>	3.19	
<i>For Elevated Installation >30' To 35', Add</i>	3.64	
<i>For Elevated Installation >35' To 40', Add</i>	4.55	
<i>For Elevated Installation >40', Add</i>	5.01	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.73	
26 05 33 13-0687 EA 1" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter .....13.45		4.15
<i>For Work In Restricted Working Space, Add</i>	3.11	
<i>For Elevated Installation >10' To 15', Add</i>	1.04	
<i>For Elevated Installation >15' To 20', Add</i>	2.07	
<i>For Elevated Installation >20' To 25', Add</i>	2.59	
<i>For Elevated Installation >25' To 30', Add</i>	3.63	
<i>For Elevated Installation >30' To 35', Add</i>	4.14	
<i>For Elevated Installation >35' To 40', Add</i>	5.18	
<i>For Elevated Installation >40', Add</i>	5.70	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.11	
26 05 33 13-0688 EA 1-1/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter .....19.54		4.99
<i>For Work In Restricted Working Space, Add</i>	3.76	
<i>For Elevated Installation >10' To 15', Add</i>	1.25	
<i>For Elevated Installation >15' To 20', Add</i>	2.51	
<i>For Elevated Installation >20' To 25', Add</i>	3.13	
<i>For Elevated Installation >25' To 30', Add</i>	4.39	
<i>For Elevated Installation >30' To 35', Add</i>	5.01	
<i>For Elevated Installation >35' To 40', Add</i>	6.27	
<i>For Elevated Installation >40', Add</i>	6.89	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.76	
26 05 33 13-0689 EA 1-1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter .....24.06		5.72
<i>For Work In Restricted Working Space, Add</i>	4.29	
<i>For Elevated Installation >10' To 15', Add</i>	1.43	
<i>For Elevated Installation >15' To 20', Add</i>	2.86	
<i>For Elevated Installation >20' To 25', Add</i>	3.58	
<i>For Elevated Installation >25' To 30', Add</i>	5.01	
<i>For Elevated Installation >30' To 35', Add</i>	5.72	
<i>For Elevated Installation >35' To 40', Add</i>	7.16	
<i>For Elevated Installation >40', Add</i>	7.87	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.29	
26 05 33 13-0690 EA 2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter .....31.49		7.19
<i>For Work In Restricted Working Space, Add</i>	5.37	
<i>For Elevated Installation >10' To 15', Add</i>	1.79	
<i>For Elevated Installation >15' To 20', Add</i>	3.58	
<i>For Elevated Installation >20' To 25', Add</i>	4.47	
<i>For Elevated Installation >25' To 30', Add</i>	6.26	
<i>For Elevated Installation >30' To 35', Add</i>	7.16	
<i>For Elevated Installation >35' To 40', Add</i>	8.95	
<i>For Elevated Installation >40', Add</i>	9.84	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.37	
26 05 33 13-0691 Electrical Metallic Tubing (EMT) Pulling Elbows <small>(26 05 33 13-0593)</small>		
26 05 33 13-0692 EA 1/2" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws .....20.14		8.31
<i>For Work In Restricted Working Space, Add</i>	4.98	
<i>For Elevated Installation >15' To 20', Add</i>	3.32	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.98	
26 05 33 13-0693 EA 3/4" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws .....23.47		9.69
<i>For Work In Restricted Working Space, Add</i>	5.81	
<i>For Elevated Installation >15' To 20', Add</i>	3.87	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.81	
26 05 33 13-0694 EA 1" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws .....29.47		11.07
<i>For Work In Restricted Working Space, Add</i>	6.64	
<i>For Elevated Installation >15' To 20', Add</i>	4.43	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.64	
26 05 33 13-0695 EA 1-1/4" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws .....37.76		13.83
<i>For Work In Restricted Working Space, Add</i>	8.30	
<i>For Elevated Installation >15' To 20', Add</i>	5.53	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.30	
26 05 33 13-0696 Intermediate Metal Conduit (IMC) <small>(26 05 33 13-0058)</small>		
Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0697 Intermediate Metal Conduit (IMC) Conduit <small>(26 05 33 13-0696)</small>		
Note: Includes field bending conduit up to 1".		

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0698	LF	1/2" Intermediate Metal Conduit (IMC) Conduit.....	6.44	1.85
			<i>For >250 To 500, Deduct</i>	-0.09	
			<i>For >500 To 1,000, Deduct</i>	-0.14	
			<i>For >1,000, Deduct</i>	-0.18	
			<i>For Installation In Metal Stud Wall, Add</i>	0.46	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.15	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.69	
			<i>For Work In Restricted Working Space, Add</i>	1.38	
			<i>For Elevated Installation >10' To 15', Add</i>	0.46	
			<i>For Elevated Installation >15' To 20', Add</i>	0.92	
			<i>For Elevated Installation >20' To 25', Add</i>	1.15	
			<i>For Elevated Installation >25' To 30', Add</i>	1.61	
			<i>For Elevated Installation >30' To 35', Add</i>	1.84	
			<i>For Elevated Installation >35' To 40', Add</i>	2.31	
			<i>For Elevated Installation >40', Add</i>	2.54	
26 05 33	13-0699	LF	3/4" Intermediate Metal Conduit (IMC) Conduit.....	7.27	2.03
			<i>For >250 To 500, Deduct</i>	-0.11	
			<i>For >500 To 1,000, Deduct</i>	-0.16	
			<i>For >1,000, Deduct</i>	-0.22	
			<i>For Installation In Metal Stud Wall, Add</i>	0.51	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.27	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.76	
			<i>For Work In Restricted Working Space, Add</i>	1.52	
			<i>For Elevated Installation >10' To 15', Add</i>	0.51	
			<i>For Elevated Installation >15' To 20', Add</i>	1.02	
			<i>For Elevated Installation >20' To 25', Add</i>	1.27	
			<i>For Elevated Installation >25' To 30', Add</i>	1.78	
			<i>For Elevated Installation >30' To 35', Add</i>	2.03	
			<i>For Elevated Installation >35' To 40', Add</i>	2.54	
			<i>For Elevated Installation >40', Add</i>	2.79	
26 05 33	13-0700	LF	1" Intermediate Metal Conduit (IMC) Conduit.....	8.92	2.22
			<i>For >250 To 500, Deduct</i>	-0.17	
			<i>For >500 To 1,000, Deduct</i>	-0.25	
			<i>For >1,000, Deduct</i>	-0.34	
			<i>For Installation In Metal Stud Wall, Add</i>	0.55	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.39	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.83	
			<i>For Work In Restricted Working Space, Add</i>	1.66	
			<i>For Elevated Installation >10' To 15', Add</i>	0.55	
			<i>For Elevated Installation >15' To 20', Add</i>	1.11	
			<i>For Elevated Installation >20' To 25', Add</i>	1.39	
			<i>For Elevated Installation >25' To 30', Add</i>	1.94	
			<i>For Elevated Installation >30' To 35', Add</i>	2.22	
			<i>For Elevated Installation >35' To 40', Add</i>	2.77	
			<i>For Elevated Installation >40', Add</i>	3.05	
26 05 33	13-0701	LF	1-1/4" Intermediate Metal Conduit (IMC) Conduit	10.74	4.42
			<i>For >250 To 500, Deduct</i>	-0.21	
			<i>For >500 To 1,000, Deduct</i>	-0.32	
			<i>For >1,000, Deduct</i>	-0.43	
			<i>For Installation In Metal Stud Wall, Add</i>	0.65	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.62	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.97	
			<i>For Work In Restricted Working Space, Add</i>	1.94	
			<i>For Elevated Installation >10' To 15', Add</i>	0.65	
			<i>For Elevated Installation >15' To 20', Add</i>	1.29	
			<i>For Elevated Installation >20' To 25', Add</i>	1.62	
			<i>For Elevated Installation >25' To 30', Add</i>	2.26	
			<i>For Elevated Installation >30' To 35', Add</i>	2.58	
			<i>For Elevated Installation >35' To 40', Add</i>	3.23	
			<i>For Elevated Installation >40', Add</i>	3.55	
26 05 33	13-0702	LF	1-1/2" Intermediate Metal Conduit (IMC) Conduit	12.43	2.95
			<i>For >250 To 500, Deduct</i>	-0.25	
			<i>For >500 To 1,000, Deduct</i>	-0.38	
			<i>For >1,000, Deduct</i>	-0.51	
			<i>For Installation In Metal Stud Wall, Add</i>	0.74	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.85	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.11	
			<i>For Work In Restricted Working Space, Add</i>	2.21	
			<i>For Elevated Installation >10' To 15', Add</i>	0.74	
			<i>For Elevated Installation >15' To 20', Add</i>	1.48	
			<i>For Elevated Installation >20' To 25', Add</i>	1.85	
			<i>For Elevated Installation >25' To 30', Add</i>	2.58	
			<i>For Elevated Installation >30' To 35', Add</i>	2.95	
			<i>For Elevated Installation >35' To 40', Add</i>	3.69	
			<i>For Elevated Installation >40', Add</i>	4.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0703 LF 2" Intermediate Metal Conduit (IMC) Conduit	15.16	3.32
For >250 To 500, Deduct	-0.34	
For >500 To 1,000, Deduct	-0.51	
For >1,000, Deduct	-0.69	
For Installation In Metal Stub Wall, Add	0.83	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.08	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.25	
For Work In Restricted Working Space, Add	2.49	
For Elevated Installation >10' To 15', Add	0.83	
For Elevated Installation >15' To 20', Add	1.66	
For Elevated Installation >20' To 25', Add	2.08	
For Elevated Installation >25' To 30', Add	2.91	
For Elevated Installation >30' To 35', Add	3.32	
For Elevated Installation >35' To 40', Add	4.16	
For Elevated Installation >40', Add	4.57	
26 05 33 13-0704 LF 2-1/2" Intermediate Metal Conduit (IMC) Conduit	26.25	4.42
For >250 To 500, Deduct	-0.76	
For >500 To 1,000, Deduct	-1.14	
For >1,000, Deduct	-1.52	
For Installation In Metal Stub Wall, Add	1.11	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.77	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.66	
For Work In Restricted Working Space, Add	3.32	
For Elevated Installation >10' To 15', Add	1.11	
For Elevated Installation >15' To 20', Add	2.21	
For Elevated Installation >20' To 25', Add	2.77	
For Elevated Installation >25' To 30', Add	3.87	
For Elevated Installation >30' To 35', Add	4.43	
For Elevated Installation >35' To 40', Add	5.54	
For Elevated Installation >40', Add	6.09	
26 05 33 13-0705 LF 3" Intermediate Metal Conduit (IMC) Conduit	32.51	5.54
For >250 To 500, Deduct	-0.93	
For >500 To 1,000, Deduct	-1.40	
For >1,000, Deduct	-1.87	
For Installation In Metal Stub Wall, Add	1.38	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.46	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.07	
For Work In Restricted Working Space, Add	4.15	
For Elevated Installation >10' To 15', Add	1.38	
For Elevated Installation >15' To 20', Add	2.77	
For Elevated Installation >20' To 25', Add	3.46	
For Elevated Installation >25' To 30', Add	4.84	
For Elevated Installation >30' To 35', Add	5.53	
For Elevated Installation >35' To 40', Add	6.92	
For Elevated Installation >40', Add	7.61	
26 05 33 13-0706 LF 3-1/2" Intermediate Metal Conduit (IMC) Conduit	38.24	6.64
For >250 To 500, Deduct	-1.08	
For >500 To 1,000, Deduct	-1.62	
For >1,000, Deduct	-2.16	
For Installation In Metal Stub Wall, Add	1.66	
For Installation In Wood Stud Wall (Includes Drilling), Add	4.15	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.49	
For Work In Restricted Working Space, Add	4.98	
For Elevated Installation >10' To 15', Add	1.66	
For Elevated Installation >15' To 20', Add	3.32	
For Elevated Installation >20' To 25', Add	4.15	
For Elevated Installation >25' To 30', Add	5.81	
For Elevated Installation >30' To 35', Add	6.64	
For Elevated Installation >35' To 40', Add	8.30	
For Elevated Installation >40', Add	9.13	
26 05 33 13-0707 LF 4" Intermediate Metal Conduit (IMC) Conduit	44.83	7.75
For >250 To 500, Deduct	-1.27	
For >500 To 1,000, Deduct	-1.91	
For >1,000, Deduct	-2.55	
For Installation In Metal Stub Wall, Add	1.94	
For Installation In Wood Stud Wall (Includes Drilling), Add	4.84	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.91	
For Work In Restricted Working Space, Add	5.81	
For Elevated Installation >10' To 15', Add	1.94	
For Elevated Installation >15' To 20', Add	3.87	
For Elevated Installation >20' To 25', Add	4.84	
For Elevated Installation >25' To 30', Add	6.78	
For Elevated Installation >30' To 35', Add	7.75	
For Elevated Installation >35' To 40', Add	9.69	
For Elevated Installation >40', Add	10.65	

26 05 33 13-0708 Intermediate Metal Conduit (IMC) 90 Degree Elbows (26 05 33 13-0696)
 See CSI section 26 05 33 13-2413 for conduit field bending.

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0709 EA 1" Intermediate Metal Conduit (IMC) 90 Degree Elbow.....	50.27	13.93
For Work In Restricted Working Space, Add	10.42	
For Elevated Installation >10' To 15', Add	3.47	
For Elevated Installation >15' To 20', Add	6.95	
For Elevated Installation >20' To 25', Add	8.68	
For Elevated Installation >25' To 30', Add	12.16	
For Elevated Installation >30' To 35', Add	13.89	
For Elevated Installation >35' To 40', Add	17.37	
For Elevated Installation >40', Add	19.10	
26 05 33 13-0710 EA 1-1/4" Intermediate Metal Conduit (IMC) 90 Degree Elbow	62.11	16.14
For Work In Restricted Working Space, Add	12.10	
For Elevated Installation >10' To 15', Add	4.03	
For Elevated Installation >15' To 20', Add	8.06	
For Elevated Installation >20' To 25', Add	10.08	
For Elevated Installation >25' To 30', Add	14.11	
For Elevated Installation >30' To 35', Add	16.13	
For Elevated Installation >35' To 40', Add	20.16	
For Elevated Installation >40', Add	22.18	
26 05 33 13-0711 EA 1-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	73.83	18.54
For Work In Restricted Working Space, Add	13.88	
For Elevated Installation >10' To 15', Add	4.63	
For Elevated Installation >15' To 20', Add	9.26	
For Elevated Installation >20' To 25', Add	11.57	
For Elevated Installation >25' To 30', Add	16.20	
For Elevated Installation >30' To 35', Add	18.51	
For Elevated Installation >35' To 40', Add	23.14	
For Elevated Installation >40', Add	25.45	
26 05 33 13-0712 EA 2" Intermediate Metal Conduit (IMC) 90 Degree Elbow.....	90.58	20.38
For Work In Restricted Working Space, Add	15.28	
For Elevated Installation >10' To 15', Add	5.09	
For Elevated Installation >15' To 20', Add	10.18	
For Elevated Installation >20' To 25', Add	12.73	
For Elevated Installation >25' To 30', Add	17.82	
For Elevated Installation >30' To 35', Add	20.37	
For Elevated Installation >35' To 40', Add	25.46	
For Elevated Installation >40', Add	28.01	
26 05 33 13-0713 EA 2-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	130.98	25.46
For Work In Restricted Working Space, Add	19.09	
For Elevated Installation >10' To 15', Add	6.36	
For Elevated Installation >15' To 20', Add	12.73	
For Elevated Installation >20' To 25', Add	15.91	
For Elevated Installation >25' To 30', Add	22.27	
For Elevated Installation >30' To 35', Add	25.46	
For Elevated Installation >35' To 40', Add	31.82	
For Elevated Installation >40', Add	35.00	
26 05 33 13-0714 EA 3" Intermediate Metal Conduit (IMC) 90 Degree Elbow.....	189.79	34.69
For Work In Restricted Working Space, Add	26.01	
For Elevated Installation >10' To 15', Add	8.67	
For Elevated Installation >15' To 20', Add	17.34	
For Elevated Installation >20' To 25', Add	21.68	
For Elevated Installation >25' To 30', Add	30.35	
For Elevated Installation >30' To 35', Add	34.68	
For Elevated Installation >35' To 40', Add	43.35	
For Elevated Installation >40', Add	47.69	
26 05 33 13-0715 EA 3-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	279.79	39.11
For Work In Restricted Working Space, Add	29.34	
For Elevated Installation >10' To 15', Add	9.78	
For Elevated Installation >15' To 20', Add	19.56	
For Elevated Installation >20' To 25', Add	24.45	
For Elevated Installation >25' To 30', Add	34.23	
For Elevated Installation >30' To 35', Add	39.12	
For Elevated Installation >35' To 40', Add	48.90	
For Elevated Installation >40', Add	53.78	
26 05 33 13-0716 EA 4" Intermediate Metal Conduit (IMC) 90 Degree Elbow.....	338.40	50.92
For Work In Restricted Working Space, Add	38.18	
For Elevated Installation >10' To 15', Add	12.73	
For Elevated Installation >15' To 20', Add	25.46	
For Elevated Installation >20' To 25', Add	31.82	
For Elevated Installation >25' To 30', Add	44.55	
For Elevated Installation >30' To 35', Add	50.91	
For Elevated Installation >35' To 40', Add	63.64	
For Elevated Installation >40', Add	70.00	
26 05 33 13-0717 Intermediate Metal Conduit (IMC) Bushing Sets With Locknut <small>(26 05 33 13-0696)</small>		
26 05 33 13-0718 EA 1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	12.67	4.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.60	
26 05 33 13-0719 EA 3/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	14.98	0.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.15	
26 05 33 13-0720 EA 1" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	19.44	7.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.26	
26 05 33 13-0721 EA 1-1/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	23.77	8.49
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.36	
26 05 33 13-0722 EA 1-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	26.71	9.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0723 EA 2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	34.62	11.43
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.58	
26 05 33 13-0724 EA 2-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	64.89	18.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.84	
26 05 33 13-0725 EA 3" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	79.42	25.09
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.82	
26 05 33 13-0726 EA 3-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	104.90	29.89
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.42	
26 05 33 13-0727 EA 4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	124.03	34.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.01	
26 05 33 13-0728 Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fittings <small>(26 05 33 13-0696)</small>		
Note: 3-Piece coupling.		
26 05 33 13-0729 EA 1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	42.16	14.75
<i>For Work In Restricted Working Space, Add</i>	11.08	
<i>For Elevated Installation >10' To 15', Add</i>	3.69	
<i>For Elevated Installation >15' To 20', Add</i>	7.39	
<i>For Elevated Installation >20' To 25', Add</i>	9.24	
<i>For Elevated Installation >25' To 30', Add</i>	12.93	
<i>For Elevated Installation >30' To 35', Add</i>	14.78	
<i>For Elevated Installation >35' To 40', Add</i>	18.47	
<i>For Elevated Installation >40', Add</i>	20.32	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.08	
26 05 33 13-0730 EA 3/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	47.96	16.51
<i>For Work In Restricted Working Space, Add</i>	12.37	
<i>For Elevated Installation >10' To 15', Add</i>	4.12	
<i>For Elevated Installation >15' To 20', Add</i>	8.25	
<i>For Elevated Installation >20' To 25', Add</i>	10.31	
<i>For Elevated Installation >25' To 30', Add</i>	14.43	
<i>For Elevated Installation >30' To 35', Add</i>	16.49	
<i>For Elevated Installation >35' To 40', Add</i>	20.62	
<i>For Elevated Installation >40', Add</i>	22.68	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.37	
26 05 33 13-0731 EA 1" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	58.90	18.36
<i>For Work In Restricted Working Space, Add</i>	13.78	
<i>For Elevated Installation >10' To 15', Add</i>	4.59	
<i>For Elevated Installation >15' To 20', Add</i>	9.19	
<i>For Elevated Installation >20' To 25', Add</i>	11.48	
<i>For Elevated Installation >25' To 30', Add</i>	16.08	
<i>For Elevated Installation >30' To 35', Add</i>	18.37	
<i>For Elevated Installation >35' To 40', Add</i>	22.97	
<i>For Elevated Installation >40', Add</i>	25.26	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.78	
26 05 33 13-0732 EA 1-1/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	74.13	20.11
<i>For Work In Restricted Working Space, Add</i>	15.08	
<i>For Elevated Installation >10' To 15', Add</i>	5.03	
<i>For Elevated Installation >15' To 20', Add</i>	10.05	
<i>For Elevated Installation >20' To 25', Add</i>	12.57	
<i>For Elevated Installation >25' To 30', Add</i>	17.59	
<i>For Elevated Installation >30' To 35', Add</i>	20.10	
<i>For Elevated Installation >35' To 40', Add</i>	25.13	
<i>For Elevated Installation >40', Add</i>	27.64	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.08	
26 05 33 13-0733 EA 1-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	84.94	21.96
<i>For Work In Restricted Working Space, Add</i>	16.50	
<i>For Elevated Installation >10' To 15', Add</i>	5.50	
<i>For Elevated Installation >15' To 20', Add</i>	11.00	
<i>For Elevated Installation >20' To 25', Add</i>	13.75	
<i>For Elevated Installation >25' To 30', Add</i>	19.25	
<i>For Elevated Installation >30' To 35', Add</i>	22.00	
<i>For Elevated Installation >35' To 40', Add</i>	27.50	
<i>For Elevated Installation >40', Add</i>	30.24	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.50	
26 05 33 13-0734 EA 2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	119.46	23.80
<i>For Work In Restricted Working Space, Add</i>	17.87	
<i>For Elevated Installation >10' To 15', Add</i>	5.96	
<i>For Elevated Installation >15' To 20', Add</i>	11.91	
<i>For Elevated Installation >20' To 25', Add</i>	14.89	
<i>For Elevated Installation >25' To 30', Add</i>	20.84	
<i>For Elevated Installation >30' To 35', Add</i>	23.82	
<i>For Elevated Installation >35' To 40', Add</i>	29.78	
<i>For Elevated Installation >40', Add</i>	32.75	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.87	
26 05 33 13-0735 EA 2-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	201.94	29.52
<i>For Work In Restricted Working Space, Add</i>	22.14	
<i>For Elevated Installation >10' To 15', Add</i>	7.38	
<i>For Elevated Installation >15' To 20', Add</i>	14.76	
<i>For Elevated Installation >20' To 25', Add</i>	18.45	
<i>For Elevated Installation >25' To 30', Add</i>	25.83	
<i>For Elevated Installation >30' To 35', Add</i>	29.52	
<i>For Elevated Installation >35' To 40', Add</i>	36.90	
<i>For Elevated Installation >40', Add</i>	40.58	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.14	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0736	EA	3" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting	287.67	36.90
			<i>For Work In Restricted Working Space, Add</i>	27.68	
			<i>For Elevated Installation >10' To 15', Add</i>	9.23	
			<i>For Elevated Installation >15' To 20', Add</i>	18.45	
			<i>For Elevated Installation >20' To 25', Add</i>	23.06	
			<i>For Elevated Installation >25' To 30', Add</i>	32.29	
			<i>For Elevated Installation >30' To 35', Add</i>	36.90	
			<i>For Elevated Installation >35' To 40', Add</i>	46.13	
			<i>For Elevated Installation >40', Add</i>	50.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.68	
26 05 33	13-0737	EA	3-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting	424.70	44.28
			<i>For Work In Restricted Working Space, Add</i>	33.22	
			<i>For Elevated Installation >10' To 15', Add</i>	11.07	
			<i>For Elevated Installation >15' To 20', Add</i>	22.15	
			<i>For Elevated Installation >20' To 25', Add</i>	27.69	
			<i>For Elevated Installation >25' To 30', Add</i>	38.76	
			<i>For Elevated Installation >30' To 35', Add</i>	44.30	
			<i>For Elevated Installation >35' To 40', Add</i>	55.37	
			<i>For Elevated Installation >40', Add</i>	60.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.22	
26 05 33	13-0738	EA	4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting	491.54	47.97
			<i>For Work In Restricted Working Space, Add</i>	35.97	
			<i>For Elevated Installation >10' To 15', Add</i>	11.99	
			<i>For Elevated Installation >15' To 20', Add</i>	23.98	
			<i>For Elevated Installation >20' To 25', Add</i>	29.98	
			<i>For Elevated Installation >25' To 30', Add</i>	41.97	
			<i>For Elevated Installation >30' To 35', Add</i>	47.96	
			<i>For Elevated Installation >35' To 40', Add</i>	59.96	
			<i>For Elevated Installation >40', Add</i>	65.95	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.97	
26 05 33 13-0739 Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connectors					
26 05 33	13-0740	EA	1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	24.14	7.38
			<i>For Work In Restricted Working Space, Add</i>	5.54	
			<i>For Elevated Installation >10' To 15', Add</i>	1.85	
			<i>For Elevated Installation >15' To 20', Add</i>	3.69	
			<i>For Elevated Installation >20' To 25', Add</i>	4.61	
			<i>For Elevated Installation >25' To 30', Add</i>	6.46	
			<i>For Elevated Installation >30' To 35', Add</i>	7.38	
			<i>For Elevated Installation >35' To 40', Add</i>	9.23	
			<i>For Elevated Installation >40', Add</i>	10.15	
26 05 33	13-0741	EA	3/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	27.02	8.11
			<i>For Work In Restricted Working Space, Add</i>	6.09	
			<i>For Elevated Installation >10' To 15', Add</i>	2.03	
			<i>For Elevated Installation >15' To 20', Add</i>	4.06	
			<i>For Elevated Installation >20' To 25', Add</i>	5.07	
			<i>For Elevated Installation >25' To 30', Add</i>	7.10	
			<i>For Elevated Installation >30' To 35', Add</i>	8.12	
			<i>For Elevated Installation >35' To 40', Add</i>	10.15	
			<i>For Elevated Installation >40', Add</i>	11.16	
26 05 33	13-0742	EA	1" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	31.07	9.23
			<i>For Work In Restricted Working Space, Add</i>	6.92	
			<i>For Elevated Installation >10' To 15', Add</i>	2.31	
			<i>For Elevated Installation >15' To 20', Add</i>	4.61	
			<i>For Elevated Installation >20' To 25', Add</i>	5.77	
			<i>For Elevated Installation >25' To 30', Add</i>	8.07	
			<i>For Elevated Installation >30' To 35', Add</i>	9.22	
			<i>For Elevated Installation >35' To 40', Add</i>	11.53	
			<i>For Elevated Installation >40', Add</i>	12.68	
26 05 33	13-0743	EA	1-1/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	35.48	9.96
			<i>For Work In Restricted Working Space, Add</i>	7.47	
			<i>For Elevated Installation >10' To 15', Add</i>	2.49	
			<i>For Elevated Installation >15' To 20', Add</i>	4.98	
			<i>For Elevated Installation >20' To 25', Add</i>	6.23	
			<i>For Elevated Installation >25' To 30', Add</i>	8.72	
			<i>For Elevated Installation >30' To 35', Add</i>	9.96	
			<i>For Elevated Installation >35' To 40', Add</i>	12.46	
			<i>For Elevated Installation >40', Add</i>	13.70	
26 05 33	13-0744	EA	1-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	42.41	11.07
			<i>For Work In Restricted Working Space, Add</i>	8.30	
			<i>For Elevated Installation >10' To 15', Add</i>	2.77	
			<i>For Elevated Installation >15' To 20', Add</i>	5.53	
			<i>For Elevated Installation >20' To 25', Add</i>	6.92	
			<i>For Elevated Installation >25' To 30', Add</i>	9.68	
			<i>For Elevated Installation >30' To 35', Add</i>	11.07	
			<i>For Elevated Installation >35' To 40', Add</i>	13.84	
			<i>For Elevated Installation >40', Add</i>	15.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0745 EA 2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	52.22 9.13 3.04 6.09 7.61 10.65 12.18 15.22 16.74	12.18
26 05 33 13-0746 EA 2-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	71.82 11.07 3.69 7.38 9.23 12.92 14.76 18.45 20.30	14.75
26 05 33 13-0747 EA 3" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	88.73 13.84 4.61 9.22 11.53 16.14 18.45 23.06 25.37	18.45
26 05 33 13-0748 EA 3-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	106.61 16.61 5.54 11.07 13.84 19.37 22.14 27.68 30.44	22.14
26 05 33 13-0749 EA 4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	120.83 17.99 6.00 11.99 14.99 20.99 23.98 29.98 32.98	23.98
26 05 33 13-0750 Intermediate Metal Conduit (IMC) Rain Tight Threaded Hubs <small>(26 05 33 13-0696)</small>		
26 05 33 13-0751 EA 1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.83 5.54 1.85 3.69 4.62 6.46 7.38 9.23 10.15 5.54	7.38
26 05 33 13-0752 EA 3/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.62 6.92 2.31 4.61 5.77 8.07 9.22 11.53 12.68 6.92	9.23
26 05 33 13-0753 EA 1" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.92 8.30 2.77 5.53 6.92 9.68 11.07 13.84 15.22 8.30	11.07

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0754 EA 1-1/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	39.72	12.92
For Work In Restricted Working Space, Add	9.69	
For Elevated Installation >10' To 15', Add	3.23	
For Elevated Installation >15' To 20', Add	6.46	
For Elevated Installation >20' To 25', Add	8.07	
For Elevated Installation >25' To 30', Add	11.30	
For Elevated Installation >30' To 35', Add	12.92	
For Elevated Installation >35' To 40', Add	16.15	
For Elevated Installation >40', Add	17.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.69	
26 05 33 13-0755 EA 1-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	46.47	14.75
For Work In Restricted Working Space, Add	11.07	
For Elevated Installation >10' To 15', Add	3.69	
For Elevated Installation >15' To 20', Add	7.38	
For Elevated Installation >20' To 25', Add	9.22	
For Elevated Installation >25' To 30', Add	12.91	
For Elevated Installation >30' To 35', Add	14.76	
For Elevated Installation >35' To 40', Add	18.45	
For Elevated Installation >40', Add	20.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.07	
26 05 33 13-0756 EA 2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	55.35	16.60
For Work In Restricted Working Space, Add	12.45	
For Elevated Installation >10' To 15', Add	4.15	
For Elevated Installation >15' To 20', Add	8.30	
For Elevated Installation >20' To 25', Add	10.38	
For Elevated Installation >25' To 30', Add	14.53	
For Elevated Installation >30' To 35', Add	16.60	
For Elevated Installation >35' To 40', Add	20.76	
For Elevated Installation >40', Add	22.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 05 33 13-0757 EA 2-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	69.31	18.45
For Work In Restricted Working Space, Add	13.84	
For Elevated Installation >10' To 15', Add	4.61	
For Elevated Installation >15' To 20', Add	9.22	
For Elevated Installation >20' To 25', Add	11.53	
For Elevated Installation >25' To 30', Add	16.14	
For Elevated Installation >30' To 35', Add	18.45	
For Elevated Installation >35' To 40', Add	23.06	
For Elevated Installation >40', Add	25.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.84	
26 05 33 13-0758 EA 3" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	81.97	20.29
For Work In Restricted Working Space, Add	15.22	
For Elevated Installation >10' To 15', Add	5.07	
For Elevated Installation >15' To 20', Add	10.15	
For Elevated Installation >20' To 25', Add	12.68	
For Elevated Installation >25' To 30', Add	17.76	
For Elevated Installation >30' To 35', Add	20.29	
For Elevated Installation >35' To 40', Add	25.37	
For Elevated Installation >40', Add	27.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.22	
26 05 33 13-0759 EA 3-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	100.45	23.98
For Work In Restricted Working Space, Add	17.99	
For Elevated Installation >10' To 15', Add	6.00	
For Elevated Installation >15' To 20', Add	11.99	
For Elevated Installation >20' To 25', Add	14.99	
For Elevated Installation >25' To 30', Add	20.99	
For Elevated Installation >30' To 35', Add	23.98	
For Elevated Installation >35' To 40', Add	29.98	
For Elevated Installation >40', Add	32.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.99	
26 05 33 13-0760 EA 4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	115.67	25.83
For Work In Restricted Working Space, Add	19.37	
For Elevated Installation >10' To 15', Add	6.46	
For Elevated Installation >15' To 20', Add	12.91	
For Elevated Installation >20' To 25', Add	16.14	
For Elevated Installation >25' To 30', Add	22.60	
For Elevated Installation >30' To 35', Add	25.83	
For Elevated Installation >35' To 40', Add	32.29	
For Elevated Installation >40', Add	35.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.37	
26 05 33 13-0761 Intermediate Metal Conduit (IMC) Expansion Fittings (26 05 33 13-0696)		
26 05 33 13-0762 EA 1/2" Intermediate Metal Conduit (IMC) Expansion Fitting.....	139.42	14.75
For Work In Restricted Working Space, Add	11.07	
For Elevated Installation >10' To 15', Add	3.69	
For Elevated Installation >15' To 20', Add	7.38	
For Elevated Installation >20' To 25', Add	9.23	
For Elevated Installation >25' To 30', Add	12.92	
For Elevated Installation >30' To 35', Add	14.76	
For Elevated Installation >35' To 40', Add	18.45	
For Elevated Installation >40', Add	20.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0763 EA 3/4" Intermediate Metal Conduit (IMC) Expansion Fitting	154.28	16.60
<i>For Work In Restricted Working Space, Add</i>	12.45	
<i>For Elevated Installation >10' To 15', Add</i>	4.15	
<i>For Elevated Installation >15' To 20', Add</i>	8.30	
<i>For Elevated Installation >20' To 25', Add</i>	10.38	
<i>For Elevated Installation >25' To 30', Add</i>	14.53	
<i>For Elevated Installation >30' To 35', Add</i>	16.60	
<i>For Elevated Installation >35' To 40', Add</i>	20.76	
<i>For Elevated Installation >40', Add</i>	22.83	
26 05 33 13-0764 EA 1" Intermediate Metal Conduit (IMC) Expansion Fitting	171.46	18.45
<i>For Work In Restricted Working Space, Add</i>	13.84	
<i>For Elevated Installation >10' To 15', Add</i>	4.61	
<i>For Elevated Installation >15' To 20', Add</i>	9.23	
<i>For Elevated Installation >20' To 25', Add</i>	11.53	
<i>For Elevated Installation >25' To 30', Add</i>	16.15	
<i>For Elevated Installation >30' To 35', Add</i>	18.45	
<i>For Elevated Installation >35' To 40', Add</i>	23.07	
<i>For Elevated Installation >40', Add</i>	25.37	
26 05 33 13-0765 EA 1-1/4" Intermediate Metal Conduit (IMC) Expansion Fitting	207.08	20.29
<i>For Work In Restricted Working Space, Add</i>	15.22	
<i>For Elevated Installation >10' To 15', Add</i>	5.07	
<i>For Elevated Installation >15' To 20', Add</i>	10.15	
<i>For Elevated Installation >20' To 25', Add</i>	12.69	
<i>For Elevated Installation >25' To 30', Add</i>	17.76	
<i>For Elevated Installation >30' To 35', Add</i>	20.30	
<i>For Elevated Installation >35' To 40', Add</i>	25.37	
<i>For Elevated Installation >40', Add</i>	27.91	
26 05 33 13-0766 EA 1-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting	253.66	22.14
<i>For Work In Restricted Working Space, Add</i>	16.61	
<i>For Elevated Installation >10' To 15', Add</i>	5.54	
<i>For Elevated Installation >15' To 20', Add</i>	11.07	
<i>For Elevated Installation >20' To 25', Add</i>	13.84	
<i>For Elevated Installation >25' To 30', Add</i>	19.37	
<i>For Elevated Installation >30' To 35', Add</i>	22.14	
<i>For Elevated Installation >35' To 40', Add</i>	27.68	
<i>For Elevated Installation >40', Add</i>	30.44	
26 05 33 13-0767 EA 2" Intermediate Metal Conduit (IMC) Expansion Fitting	333.42	23.98
<i>For Work In Restricted Working Space, Add</i>	17.99	
<i>For Elevated Installation >10' To 15', Add</i>	6.00	
<i>For Elevated Installation >15' To 20', Add</i>	11.99	
<i>For Elevated Installation >20' To 25', Add</i>	14.99	
<i>For Elevated Installation >25' To 30', Add</i>	20.98	
<i>For Elevated Installation >30' To 35', Add</i>	23.98	
<i>For Elevated Installation >35' To 40', Add</i>	29.98	
<i>For Elevated Installation >40', Add</i>	32.97	
26 05 33 13-0768 EA 2-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting	503.34	29.52
<i>For Work In Restricted Working Space, Add</i>	22.14	
<i>For Elevated Installation >10' To 15', Add</i>	7.38	
<i>For Elevated Installation >15' To 20', Add</i>	14.76	
<i>For Elevated Installation >20' To 25', Add</i>	18.45	
<i>For Elevated Installation >25' To 30', Add</i>	25.83	
<i>For Elevated Installation >30' To 35', Add</i>	29.52	
<i>For Elevated Installation >35' To 40', Add</i>	36.90	
<i>For Elevated Installation >40', Add</i>	40.58	
26 05 33 13-0769 EA 3" Intermediate Metal Conduit (IMC) Expansion Fitting	605.16	36.90
<i>For Work In Restricted Working Space, Add</i>	27.68	
<i>For Elevated Installation >10' To 15', Add</i>	9.23	
<i>For Elevated Installation >15' To 20', Add</i>	18.45	
<i>For Elevated Installation >20' To 25', Add</i>	23.06	
<i>For Elevated Installation >25' To 30', Add</i>	32.29	
<i>For Elevated Installation >30' To 35', Add</i>	36.90	
<i>For Elevated Installation >35' To 40', Add</i>	46.13	
<i>For Elevated Installation >40', Add</i>	50.74	
26 05 33 13-0770 EA 3-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting	843.46	44.28
<i>For Work In Restricted Working Space, Add</i>	33.21	
<i>For Elevated Installation >10' To 15', Add</i>	11.07	
<i>For Elevated Installation >15' To 20', Add</i>	22.14	
<i>For Elevated Installation >20' To 25', Add</i>	27.68	
<i>For Elevated Installation >25' To 30', Add</i>	38.75	
<i>For Elevated Installation >30' To 35', Add</i>	44.28	
<i>For Elevated Installation >35' To 40', Add</i>	55.36	
<i>For Elevated Installation >40', Add</i>	60.89	
26 05 33 13-0771 EA 4" Intermediate Metal Conduit (IMC) Expansion Fitting	975.42	47.97
<i>For Work In Restricted Working Space, Add</i>	35.97	
<i>For Elevated Installation >10' To 15', Add</i>	11.99	
<i>For Elevated Installation >15' To 20', Add</i>	23.98	
<i>For Elevated Installation >20' To 25', Add</i>	29.98	
<i>For Elevated Installation >25' To 30', Add</i>	41.97	
<i>For Elevated Installation >30' To 35', Add</i>	47.96	
<i>For Elevated Installation >35' To 40', Add</i>	59.96	
<i>For Elevated Installation >40', Add</i>	65.95	

26 05 33 13-0772 Intermediate Metal Conduit (IMC) Sealing Fittings, Vertical/Horizontal (26 05 33 13-0696)

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0773	EA	1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	85.57	23.06
			<i>For Work In Restricted Working Space, Add</i>	13.84	
			<i>For Elevated Installation >10' To 15', Add</i>	4.61	
			<i>For Elevated Installation >15' To 20', Add</i>	9.22	
			<i>For Elevated Installation >20' To 25', Add</i>	11.53	
			<i>For Elevated Installation >25' To 30', Add</i>	16.14	
			<i>For Elevated Installation >30' To 35', Add</i>	18.45	
			<i>For Elevated Installation >35' To 40', Add</i>	23.06	
			<i>For Elevated Installation >40', Add</i>	25.37	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.84	
26 05 33	13-0774	EA	3/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	101.68	27.67
			<i>For Work In Restricted Working Space, Add</i>	16.61	
			<i>For Elevated Installation >10' To 15', Add</i>	5.54	
			<i>For Elevated Installation >15' To 20', Add</i>	11.07	
			<i>For Elevated Installation >20' To 25', Add</i>	13.84	
			<i>For Elevated Installation >25' To 30', Add</i>	19.37	
			<i>For Elevated Installation >30' To 35', Add</i>	22.14	
			<i>For Elevated Installation >35' To 40', Add</i>	27.68	
			<i>For Elevated Installation >40', Add</i>	30.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.61	
26 05 33	13-0775	EA	1" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	124.12	32.29
			<i>For Work In Restricted Working Space, Add</i>	19.37	
			<i>For Elevated Installation >10' To 15', Add</i>	6.46	
			<i>For Elevated Installation >15' To 20', Add</i>	12.92	
			<i>For Elevated Installation >20' To 25', Add</i>	16.15	
			<i>For Elevated Installation >25' To 30', Add</i>	22.60	
			<i>For Elevated Installation >30' To 35', Add</i>	25.83	
			<i>For Elevated Installation >35' To 40', Add</i>	32.29	
			<i>For Elevated Installation >40', Add</i>	35.52	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.37	
26 05 33	13-0776	EA	1-1/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	146.10	36.90
			<i>For Work In Restricted Working Space, Add</i>	22.14	
			<i>For Elevated Installation >10' To 15', Add</i>	7.38	
			<i>For Elevated Installation >15' To 20', Add</i>	14.76	
			<i>For Elevated Installation >20' To 25', Add</i>	18.45	
			<i>For Elevated Installation >25' To 30', Add</i>	25.83	
			<i>For Elevated Installation >30' To 35', Add</i>	29.52	
			<i>For Elevated Installation >35' To 40', Add</i>	36.90	
			<i>For Elevated Installation >40', Add</i>	40.58	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.14	
26 05 33	13-0777	EA	1-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	191.88	41.51
			<i>For Work In Restricted Working Space, Add</i>	24.91	
			<i>For Elevated Installation >10' To 15', Add</i>	8.30	
			<i>For Elevated Installation >15' To 20', Add</i>	16.60	
			<i>For Elevated Installation >20' To 25', Add</i>	20.76	
			<i>For Elevated Installation >25' To 30', Add</i>	29.06	
			<i>For Elevated Installation >30' To 35', Add</i>	33.21	
			<i>For Elevated Installation >35' To 40', Add</i>	41.51	
			<i>For Elevated Installation >40', Add</i>	45.66	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.91	
26 05 33	13-0778	EA	2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	233.30	46.12
			<i>For Work In Restricted Working Space, Add</i>	27.68	
			<i>For Elevated Installation >10' To 15', Add</i>	9.23	
			<i>For Elevated Installation >15' To 20', Add</i>	18.45	
			<i>For Elevated Installation >20' To 25', Add</i>	23.06	
			<i>For Elevated Installation >25' To 30', Add</i>	32.29	
			<i>For Elevated Installation >30' To 35', Add</i>	36.90	
			<i>For Elevated Installation >35' To 40', Add</i>	46.13	
			<i>For Elevated Installation >40', Add</i>	50.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.68	
26 05 33	13-0779	EA	2-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	329.84	55.35
			<i>For Work In Restricted Working Space, Add</i>	33.21	
			<i>For Elevated Installation >10' To 15', Add</i>	11.07	
			<i>For Elevated Installation >15' To 20', Add</i>	22.14	
			<i>For Elevated Installation >20' To 25', Add</i>	27.68	
			<i>For Elevated Installation >25' To 30', Add</i>	38.75	
			<i>For Elevated Installation >30' To 35', Add</i>	44.28	
			<i>For Elevated Installation >35' To 40', Add</i>	55.35	
			<i>For Elevated Installation >40', Add</i>	60.89	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.21	
26 05 33	13-0780	EA	3" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	396.83	64.58
			<i>For Work In Restricted Working Space, Add</i>	38.74	
			<i>For Elevated Installation >10' To 15', Add</i>	12.91	
			<i>For Elevated Installation >15' To 20', Add</i>	25.83	
			<i>For Elevated Installation >20' To 25', Add</i>	32.29	
			<i>For Elevated Installation >25' To 30', Add</i>	45.20	
			<i>For Elevated Installation >30' To 35', Add</i>	51.66	
			<i>For Elevated Installation >35' To 40', Add</i>	64.57	
			<i>For Elevated Installation >40', Add</i>	71.03	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0781 EA 3-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	919.63	73.79
For Work In Restricted Working Space, Add	44.28	
For Elevated Installation >10' To 15', Add	14.76	
For Elevated Installation >15' To 20', Add	29.52	
For Elevated Installation >20' To 25', Add	36.90	
For Elevated Installation >25' To 30', Add	51.66	
For Elevated Installation >30' To 35', Add	59.04	
For Elevated Installation >35' To 40', Add	73.80	
For Elevated Installation >40', Add	81.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.28	
26 05 33 13-0782 EA 4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	1,059.56	83.02
For Work In Restricted Working Space, Add	49.82	
For Elevated Installation >10' To 15', Add	16.61	
For Elevated Installation >15' To 20', Add	33.21	
For Elevated Installation >20' To 25', Add	41.51	
For Elevated Installation >25' To 30', Add	58.12	
For Elevated Installation >30' To 35', Add	66.42	
For Elevated Installation >35' To 40', Add	83.03	
For Elevated Installation >40', Add	91.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.82	
26 05 33 13-0783 Intermediate Metal Conduit (IMC) Threaded Couplings (26 05 33 13-0696)		
26 05 33 13-0784 EA 1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	12.41	4.42
For Work In Restricted Working Space, Add	3.32	
For Elevated Installation >10' To 15', Add	1.11	
For Elevated Installation >15' To 20', Add	2.21	
For Elevated Installation >20' To 25', Add	2.77	
For Elevated Installation >25' To 30', Add	3.87	
For Elevated Installation >30' To 35', Add	4.42	
For Elevated Installation >35' To 40', Add	5.53	
For Elevated Installation >40', Add	6.08	
26 05 33 13-0785 EA 3/4" Intermediate Metal Conduit (IMC) Threaded Coupling	17.32	6.27
For Work In Restricted Working Space, Add	4.71	
For Elevated Installation >10' To 15', Add	1.57	
For Elevated Installation >15' To 20', Add	3.14	
For Elevated Installation >20' To 25', Add	3.92	
For Elevated Installation >25' To 30', Add	5.49	
For Elevated Installation >30' To 35', Add	6.28	
For Elevated Installation >35' To 40', Add	7.85	
For Elevated Installation >40', Add	8.63	
26 05 33 13-0786 EA 1" Intermediate Metal Conduit (IMC) Threaded Coupling	22.71	8.11
For Work In Restricted Working Space, Add	6.08	
For Elevated Installation >10' To 15', Add	2.03	
For Elevated Installation >15' To 20', Add	4.06	
For Elevated Installation >20' To 25', Add	5.07	
For Elevated Installation >25' To 30', Add	7.10	
For Elevated Installation >30' To 35', Add	8.11	
For Elevated Installation >35' To 40', Add	10.14	
For Elevated Installation >40', Add	11.15	
26 05 33 13-0787 EA 1-1/4" Intermediate Metal Conduit (IMC) Threaded Coupling	26.11	9.23
For Work In Restricted Working Space, Add	6.92	
For Elevated Installation >10' To 15', Add	2.31	
For Elevated Installation >15' To 20', Add	4.61	
For Elevated Installation >20' To 25', Add	5.77	
For Elevated Installation >25' To 30', Add	8.07	
For Elevated Installation >30' To 35', Add	9.23	
For Elevated Installation >35' To 40', Add	11.54	
For Elevated Installation >40', Add	12.69	
26 05 33 13-0788 EA 1-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	31.50	11.07
For Work In Restricted Working Space, Add	8.30	
For Elevated Installation >10' To 15', Add	2.77	
For Elevated Installation >15' To 20', Add	5.53	
For Elevated Installation >20' To 25', Add	6.92	
For Elevated Installation >25' To 30', Add	9.68	
For Elevated Installation >30' To 35', Add	11.06	
For Elevated Installation >35' To 40', Add	13.83	
For Elevated Installation >40', Add	15.21	
26 05 33 13-0789 EA 2" Intermediate Metal Conduit (IMC) Threaded Coupling	36.44	12.55
For Work In Restricted Working Space, Add	9.41	
For Elevated Installation >10' To 15', Add	3.14	
For Elevated Installation >15' To 20', Add	6.28	
For Elevated Installation >20' To 25', Add	7.85	
For Elevated Installation >25' To 30', Add	10.98	
For Elevated Installation >30' To 35', Add	12.55	
For Elevated Installation >35' To 40', Add	15.69	
For Elevated Installation >40', Add	17.26	
26 05 33 13-0790 EA 2-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	46.26	14.02
For Work In Restricted Working Space, Add	10.52	
For Elevated Installation >10' To 15', Add	3.51	
For Elevated Installation >15' To 20', Add	7.01	
For Elevated Installation >20' To 25', Add	8.76	
For Elevated Installation >25' To 30', Add	12.27	
For Elevated Installation >30' To 35', Add	14.02	
For Elevated Installation >35' To 40', Add	17.53	
For Elevated Installation >40', Add	19.28	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0791	EA	3" Intermediate Metal Conduit (IMC) Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	54.98 11.90 3.97 7.93 9.92 13.88 15.87 19.84 21.82	15.87
26 05 33	13-0792	EA	3-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	63.84 13.01 4.34 8.67 10.84 15.18 17.35 21.69 23.85	17.34
26 05 33	13-0793	EA	4" Intermediate Metal Conduit (IMC) Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	66.74 13.83 4.61 9.22 11.53 16.14 18.44 23.06 25.36	18.45
26 05 33 13-0794 Intermediate Metal Conduit (IMC) Reducer Bushings (26 05 33 13-0696)					
26 05 33	13-0795	EA	1/2" To 3/4" Intermediate Metal Conduit (IMC) Reducing Bushing..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	6.12 1.38 0.46 0.92 1.15 1.61 1.84 2.31 2.54	1.85
26 05 33	13-0796	EA	3/4" To 1" Intermediate Metal Conduit (IMC) Reducing Bushing..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	6.98 1.38 0.46 0.92 1.15 1.61 1.84 2.31 2.54	1.85
26 05 33	13-0797		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit (26 05 33 13-0058) Note: 40 mil polyvinyl chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney). Used in hazardous locations. Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33	13-0798		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit (26 05 33 13-0797) Note: Includes field bending for conduit up to 1".		
26 05 33	13-0799	LF	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	12.07 -0.44 -0.74 -1.05 0.65 1.29 1.62 2.26 2.58 3.23 3.55 1.94	2.59
26 05 33	13-0800	LF	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	13.88 -0.51 -0.86 -1.20 0.74 1.48 1.85 2.58 2.95 3.69 4.06 2.21	2.95



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0801 LF 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	17.64	3.69
For >250 To 500, Deduct	-0.65	
For >500 To 1,000, Deduct	-1.09	
For >1,000, Deduct	-1.53	
For Elevated Installation >10' To 15', Add	0.92	
For Elevated Installation >15' To 20', Add	1.85	
For Elevated Installation >20' To 25', Add	2.31	
For Elevated Installation >25' To 30', Add	3.23	
For Elevated Installation >30' To 35', Add	3.69	
For Elevated Installation >35' To 40', Add	4.62	
For Elevated Installation >40', Add	5.08	
For Work In Restricted Working Space, Add	2.77	
26 05 33 13-0802 LF 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	21.74	4.42
For >250 To 500, Deduct	-0.81	
For >500 To 1,000, Deduct	-1.35	
For >1,000, Deduct	-1.90	
For Elevated Installation >10' To 15', Add	1.11	
For Elevated Installation >15' To 20', Add	2.21	
For Elevated Installation >20' To 25', Add	2.77	
For Elevated Installation >25' To 30', Add	3.87	
For Elevated Installation >30' To 35', Add	4.43	
For Elevated Installation >35' To 40', Add	5.54	
For Elevated Installation >40', Add	6.09	
For Work In Restricted Working Space, Add	3.32	
26 05 33 13-0803 LF 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	26.80	5.54
For >250 To 500, Deduct	-0.99	
For >500 To 1,000, Deduct	-1.66	
For >1,000, Deduct	-2.33	
For Elevated Installation >10' To 15', Add	1.38	
For Elevated Installation >15' To 20', Add	2.77	
For Elevated Installation >20' To 25', Add	3.46	
For Elevated Installation >25' To 30', Add	4.84	
For Elevated Installation >30' To 35', Add	5.53	
For Elevated Installation >35' To 40', Add	6.92	
For Elevated Installation >40', Add	7.61	
For Work In Restricted Working Space, Add	4.15	
26 05 33 13-0804 LF 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	33.50	6.64
For >250 To 500, Deduct	-1.26	
For >500 To 1,000, Deduct	-2.10	
For >1,000, Deduct	-2.94	
For Elevated Installation >10' To 15', Add	1.66	
For Elevated Installation >15' To 20', Add	3.32	
For Elevated Installation >20' To 25', Add	4.15	
For Elevated Installation >25' To 30', Add	5.81	
For Elevated Installation >30' To 35', Add	6.64	
For Elevated Installation >35' To 40', Add	8.30	
For Elevated Installation >40', Add	9.13	
For Work In Restricted Working Space, Add	4.98	
26 05 33 13-0805 LF 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	44.99	7.75
For >250 To 500, Deduct	-1.77	
For >500 To 1,000, Deduct	-2.89	
For >1,000, Deduct	-4.01	
For Elevated Installation >10' To 15', Add	1.94	
For Elevated Installation >15' To 20', Add	3.87	
For Elevated Installation >20' To 25', Add	4.84	
For Elevated Installation >25' To 30', Add	6.78	
For Elevated Installation >30' To 35', Add	7.75	
For Elevated Installation >35' To 40', Add	9.69	
For Elevated Installation >40', Add	10.65	
For Work In Restricted Working Space, Add	5.81	
26 05 33 13-0806 LF 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	56.29	9.59
For >250 To 500, Deduct	-2.22	
For >500 To 1,000, Deduct	-3.62	
For >1,000, Deduct	-5.03	
For Elevated Installation >10' To 15', Add	2.40	
For Elevated Installation >15' To 20', Add	4.80	
For Elevated Installation >20' To 25', Add	6.00	
For Elevated Installation >25' To 30', Add	8.39	
For Elevated Installation >30' To 35', Add	9.59	
For Elevated Installation >35' To 40', Add	11.99	
For Elevated Installation >40', Add	13.19	
For Work In Restricted Working Space, Add	7.19	
26 05 33 13-0807 LF 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	69.05	11.81
For >250 To 500, Deduct	-2.71	
For >500 To 1,000, Deduct	-4.44	
For >1,000, Deduct	-6.17	
For Elevated Installation >10' To 15', Add	2.95	
For Elevated Installation >15' To 20', Add	5.90	
For Elevated Installation >20' To 25', Add	7.38	
For Elevated Installation >25' To 30', Add	10.33	
For Elevated Installation >30' To 35', Add	11.81	
For Elevated Installation >35' To 40', Add	14.76	
For Elevated Installation >40', Add	16.24	
For Work In Restricted Working Space, Add	8.86	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0808	LF	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit	81.66	14.02
			<i>For >250 To 500, Deduct</i>	-3.21	
			<i>For >500 To 1,000, Deduct</i>	-5.25	
			<i>For >1,000, Deduct</i>	-7.29	
			<i>For Elevated Installation >10' To 15', Add</i>	3.51	
			<i>For Elevated Installation >15' To 20', Add</i>	7.01	
			<i>For Elevated Installation >20' To 25', Add</i>	8.77	
			<i>For Elevated Installation >25' To 30', Add</i>	12.27	
			<i>For Elevated Installation >30' To 35', Add</i>	14.02	
			<i>For Elevated Installation >35' To 40', Add</i>	17.53	
			<i>For Elevated Installation >40', Add</i>	19.28	
			<i>For Work In Restricted Working Space, Add</i>	10.52	
26 05 33	13-0809	LF	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit	124.09	16.60
			<i>For >250 To 500, Deduct</i>	-5.17	
			<i>For >500 To 1,000, Deduct</i>	-8.27	
			<i>For >1,000, Deduct</i>	-11.37	
			<i>For Elevated Installation >10' To 15', Add</i>	4.15	
			<i>For Elevated Installation >15' To 20', Add</i>	8.30	
			<i>For Elevated Installation >20' To 25', Add</i>	10.38	
			<i>For Elevated Installation >25' To 30', Add</i>	14.53	
			<i>For Elevated Installation >30' To 35', Add</i>	16.60	
			<i>For Elevated Installation >35' To 40', Add</i>	20.76	
			<i>For Elevated Installation >40', Add</i>	22.83	
			<i>For Work In Restricted Working Space, Add</i>	12.45	
26 05 33	13-0810	LF	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit	168.51	22.14
			<i>For >250 To 500, Deduct</i>	-7.04	
			<i>For >500 To 1,000, Deduct</i>	-11.25	
			<i>For >1,000, Deduct</i>	-15.47	
			<i>For Elevated Installation >10' To 15', Add</i>	5.54	
			<i>For Elevated Installation >15' To 20', Add</i>	11.07	
			<i>For Elevated Installation >20' To 25', Add</i>	13.84	
			<i>For Elevated Installation >25' To 30', Add</i>	19.37	
			<i>For Elevated Installation >30' To 35', Add</i>	22.14	
			<i>For Elevated Installation >35' To 40', Add</i>	27.68	
			<i>For Elevated Installation >40', Add</i>	30.44	
			<i>For Work In Restricted Working Space, Add</i>	16.61	
26 05 33 13-0811 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings <small>(26 05 33 13-0797)</small>					
26 05 33	13-0812	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	16.99	5.54
			<i>For Elevated Installation >10' To 15', Add</i>	1.11	
			<i>For Elevated Installation >15' To 20', Add</i>	2.21	
			<i>For Elevated Installation >20' To 25', Add</i>	2.77	
			<i>For Elevated Installation >25' To 30', Add</i>	3.87	
			<i>For Elevated Installation >30' To 35', Add</i>	4.43	
			<i>For Elevated Installation >35' To 40', Add</i>	5.54	
			<i>For Elevated Installation >40', Add</i>	6.09	
			<i>For Work In Restricted Working Space, Add</i>	3.32	
26 05 33	13-0813	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	21.89	7.84
			<i>For Elevated Installation >10' To 15', Add</i>	1.57	
			<i>For Elevated Installation >15' To 20', Add</i>	3.14	
			<i>For Elevated Installation >20' To 25', Add</i>	3.92	
			<i>For Elevated Installation >25' To 30', Add</i>	5.49	
			<i>For Elevated Installation >30' To 35', Add</i>	6.27	
			<i>For Elevated Installation >35' To 40', Add</i>	7.84	
			<i>For Elevated Installation >40', Add</i>	8.62	
			<i>For Work In Restricted Working Space, Add</i>	4.70	
26 05 33	13-0814	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	28.34	10.15
			<i>For Elevated Installation >10' To 15', Add</i>	2.03	
			<i>For Elevated Installation >15' To 20', Add</i>	4.06	
			<i>For Elevated Installation >20' To 25', Add</i>	5.07	
			<i>For Elevated Installation >25' To 30', Add</i>	7.10	
			<i>For Elevated Installation >30' To 35', Add</i>	8.12	
			<i>For Elevated Installation >35' To 40', Add</i>	10.15	
			<i>For Elevated Installation >40', Add</i>	11.16	
			<i>For Work In Restricted Working Space, Add</i>	6.09	
26 05 33	13-0815	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	32.46	11.54
			<i>For Elevated Installation >10' To 15', Add</i>	2.31	
			<i>For Elevated Installation >15' To 20', Add</i>	4.61	
			<i>For Elevated Installation >20' To 25', Add</i>	5.77	
			<i>For Elevated Installation >25' To 30', Add</i>	8.07	
			<i>For Elevated Installation >30' To 35', Add</i>	9.22	
			<i>For Elevated Installation >35' To 40', Add</i>	11.53	
			<i>For Elevated Installation >40', Add</i>	12.68	
			<i>For Work In Restricted Working Space, Add</i>	6.92	
26 05 33	13-0816	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	38.84	13.83
			<i>For Elevated Installation >10' To 15', Add</i>	2.77	
			<i>For Elevated Installation >15' To 20', Add</i>	5.53	
			<i>For Elevated Installation >20' To 25', Add</i>	6.92	
			<i>For Elevated Installation >25' To 30', Add</i>	9.68	
			<i>For Elevated Installation >30' To 35', Add</i>	11.07	
			<i>For Elevated Installation >35' To 40', Add</i>	13.84	
			<i>For Elevated Installation >40', Add</i>	15.22	
			<i>For Work In Restricted Working Space, Add</i>	8.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0817 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	47.72	15.68
For Elevated Installation >10' To 15', Add	3.14	
For Elevated Installation >15' To 20', Add	6.27	
For Elevated Installation >20' To 25', Add	7.84	
For Elevated Installation >25' To 30', Add	10.98	
For Elevated Installation >30' To 35', Add	12.55	
For Elevated Installation >35' To 40', Add	15.69	
For Elevated Installation >40', Add	17.25	
For Work In Restricted Working Space, Add	9.41	
26 05 33 13-0818 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	75.52	15.68
For Elevated Installation >10' To 15', Add	3.51	
For Elevated Installation >15' To 20', Add	7.01	
For Elevated Installation >20' To 25', Add	8.77	
For Elevated Installation >25' To 30', Add	12.27	
For Elevated Installation >30' To 35', Add	14.02	
For Elevated Installation >35' To 40', Add	17.53	
For Elevated Installation >40', Add	19.28	
For Work In Restricted Working Space, Add	10.52	
26 05 33 13-0819 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	88.81	21.68
For Elevated Installation >10' To 15', Add	3.97	
For Elevated Installation >15' To 20', Add	7.93	
For Elevated Installation >20' To 25', Add	9.92	
For Elevated Installation >25' To 30', Add	13.88	
For Elevated Installation >30' To 35', Add	15.87	
For Elevated Installation >35' To 40', Add	19.84	
For Elevated Installation >40', Add	21.82	
For Work In Restricted Working Space, Add	11.90	
26 05 33 13-0820 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	106.39	21.68
For Elevated Installation >10' To 15', Add	4.34	
For Elevated Installation >15' To 20', Add	8.67	
For Elevated Installation >20' To 25', Add	10.84	
For Elevated Installation >25' To 30', Add	15.17	
For Elevated Installation >30' To 35', Add	17.34	
For Elevated Installation >35' To 40', Add	21.68	
For Elevated Installation >40', Add	23.84	
For Work In Restricted Working Space, Add	13.01	
26 05 33 13-0821 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	119.83	23.06
For Elevated Installation >10' To 15', Add	4.61	
For Elevated Installation >15' To 20', Add	9.22	
For Elevated Installation >20' To 25', Add	11.53	
For Elevated Installation >25' To 30', Add	16.14	
For Elevated Installation >30' To 35', Add	18.45	
For Elevated Installation >35' To 40', Add	23.06	
For Elevated Installation >40', Add	25.37	
For Work In Restricted Working Space, Add	13.84	
26 05 33 13-0822 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	295.53	27.67
For Elevated Installation >10' To 15', Add	5.54	
For Elevated Installation >15' To 20', Add	11.07	
For Elevated Installation >20' To 25', Add	13.84	
For Elevated Installation >25' To 30', Add	19.37	
For Elevated Installation >30' To 35', Add	22.14	
For Elevated Installation >35' To 40', Add	27.68	
For Elevated Installation >40', Add	30.44	
For Work In Restricted Working Space, Add	16.61	
26 05 33 13-0823 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	332.88	32.29
For Elevated Installation >10' To 15', Add	6.46	
For Elevated Installation >15' To 20', Add	12.92	
For Elevated Installation >20' To 25', Add	16.15	
For Elevated Installation >25' To 30', Add	22.60	
For Elevated Installation >30' To 35', Add	25.83	
For Elevated Installation >35' To 40', Add	32.29	
For Elevated Installation >40', Add	35.52	
For Work In Restricted Working Space, Add	19.37	
26 05 33 13-0824 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbows <small>(26 05 33 13-0797)</small>		
Note: 90, 45, or 30 degree.		
26 05 33 13-0825 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	50.74	14.99
For Elevated Installation >10' To 15', Add	3.00	
For Elevated Installation >15' To 20', Add	6.00	
For Elevated Installation >20' To 25', Add	7.50	
For Elevated Installation >25' To 30', Add	10.49	
For Elevated Installation >30' To 35', Add	11.99	
For Elevated Installation >35' To 40', Add	14.99	
For Elevated Installation >40', Add	16.49	
For Work In Restricted Working Space, Add	8.99	
26 05 33 13-0826 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	58.72	18.59
For Elevated Installation >10' To 15', Add	3.72	
For Elevated Installation >15' To 20', Add	7.43	
For Elevated Installation >20' To 25', Add	9.29	
For Elevated Installation >25' To 30', Add	13.01	
For Elevated Installation >30' To 35', Add	14.87	
For Elevated Installation >35' To 40', Add	18.59	
For Elevated Installation >40', Add	20.44	
For Work In Restricted Working Space, Add	11.15	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0827 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	70.28	22.79
For Elevated Installation >10' To 15', Add	4.56	
For Elevated Installation >15' To 20', Add	9.11	
For Elevated Installation >20' To 25', Add	11.39	
For Elevated Installation >25' To 30', Add	15.95	
For Elevated Installation >30' To 35', Add	18.23	
For Elevated Installation >35' To 40', Add	22.79	
For Elevated Installation >40', Add	25.06	
For Work In Restricted Working Space, Add	13.67	
26 05 33 13-0828 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	83.13	26.38
For Elevated Installation >10' To 15', Add	5.28	
For Elevated Installation >15' To 20', Add	10.55	
For Elevated Installation >20' To 25', Add	13.19	
For Elevated Installation >25' To 30', Add	18.47	
For Elevated Installation >30' To 35', Add	21.10	
For Elevated Installation >35' To 40', Add	26.38	
For Elevated Installation >40', Add	29.02	
For Work In Restricted Working Space, Add	15.83	
26 05 33 13-0829 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	97.28	29.98
For Elevated Installation >10' To 15', Add	6.00	
For Elevated Installation >15' To 20', Add	11.99	
For Elevated Installation >20' To 25', Add	14.99	
For Elevated Installation >25' To 30', Add	20.99	
For Elevated Installation >30' To 35', Add	23.98	
For Elevated Installation >35' To 40', Add	29.98	
For Elevated Installation >40', Add	32.98	
For Work In Restricted Working Space, Add	17.99	
26 05 33 13-0830 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	118.05	32.98
For Elevated Installation >10' To 15', Add	6.60	
For Elevated Installation >15' To 20', Add	13.19	
For Elevated Installation >20' To 25', Add	16.49	
For Elevated Installation >25' To 30', Add	23.09	
For Elevated Installation >30' To 35', Add	26.38	
For Elevated Installation >35' To 40', Add	32.98	
For Elevated Installation >40', Add	36.28	
For Work In Restricted Working Space, Add	19.79	
26 05 33 13-0831 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	180.87	41.38
For Elevated Installation >10' To 15', Add	8.27	
For Elevated Installation >15' To 20', Add	16.55	
For Elevated Installation >20' To 25', Add	20.69	
For Elevated Installation >25' To 30', Add	28.96	
For Elevated Installation >30' To 35', Add	33.10	
For Elevated Installation >35' To 40', Add	41.37	
For Elevated Installation >40', Add	45.51	
For Work In Restricted Working Space, Add	24.82	
26 05 33 13-0832 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	269.53	56.36
For Elevated Installation >10' To 15', Add	11.27	
For Elevated Installation >15' To 20', Add	22.54	
For Elevated Installation >20' To 25', Add	28.18	
For Elevated Installation >25' To 30', Add	39.45	
For Elevated Installation >30' To 35', Add	45.09	
For Elevated Installation >35' To 40', Add	56.36	
For Elevated Installation >40', Add	62.00	
For Work In Restricted Working Space, Add	33.82	
26 05 33 13-0833 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	332.88	63.55
For Elevated Installation >10' To 15', Add	12.71	
For Elevated Installation >15' To 20', Add	25.42	
For Elevated Installation >20' To 25', Add	31.78	
For Elevated Installation >25' To 30', Add	44.49	
For Elevated Installation >30' To 35', Add	50.85	
For Elevated Installation >35' To 40', Add	63.56	
For Elevated Installation >40', Add	69.92	
For Work In Restricted Working Space, Add	38.14	
26 05 33 13-0834 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	383.00	82.74
For Elevated Installation >10' To 15', Add	16.55	
For Elevated Installation >15' To 20', Add	33.10	
For Elevated Installation >20' To 25', Add	41.37	
For Elevated Installation >25' To 30', Add	57.92	
For Elevated Installation >30' To 35', Add	66.20	
For Elevated Installation >35' To 40', Add	82.75	
For Elevated Installation >40', Add	91.02	
For Work In Restricted Working Space, Add	49.65	
26 05 33 13-0835 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	793.98	134.91
For Elevated Installation >10' To 15', Add	26.98	
For Elevated Installation >15' To 20', Add	53.96	
For Elevated Installation >20' To 25', Add	67.46	
For Elevated Installation >25' To 30', Add	94.44	
For Elevated Installation >30' To 35', Add	107.93	
For Elevated Installation >35' To 40', Add	134.91	
For Elevated Installation >40', Add	148.40	
For Work In Restricted Working Space, Add	80.95	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0836	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	1,247.87 40.53 81.07 101.34 141.87 162.14 202.67 222.94 121.60	202.67
26 05 33 13-0837 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows <small>(26 05 33 13-0797)</small>					
26 05 33	13-0838	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	119.21 4.56 9.11 11.39 15.95 18.23 22.79 25.06 13.67	22.79
26 05 33	13-0839	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	134.21 5.28 10.55 13.19 18.47 21.10 26.38 29.02 15.83	26.38
26 05 33	13-0840	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	153.20 6.00 11.99 14.99 20.99 23.98 29.98 32.98 17.99	29.98
26 05 33	13-0841	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	182.58 6.60 13.19 16.49 23.09 26.38 32.98 36.28 19.79	32.98
26 05 33	13-0842	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	253.91 8.27 16.55 20.69 28.96 33.10 41.37 45.51 24.82	41.38
26 05 33 13-0843 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows <small>(26 05 33 13-0797)</small>					
26 05 33	13-0844	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	132.44 4.56 9.11 11.39 15.95 18.23 22.79 25.06 13.67	22.79
26 05 33	13-0845	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	156.07 5.28 10.55 13.19 18.47 21.10 26.38 29.02 15.83	26.38

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0846 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow .....168.88	168.88	29.98
For Elevated Installation >10' To 15', Add	6.00	
For Elevated Installation >15' To 20', Add	11.99	
For Elevated Installation >20' To 25', Add	14.99	
For Elevated Installation >25' To 30', Add	20.99	
For Elevated Installation >30' To 35', Add	23.98	
For Elevated Installation >35' To 40', Add	29.98	
For Elevated Installation >40', Add	32.98	
For Work In Restricted Working Space, Add	17.99	
26 05 33 13-0847 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow .....216.76	216.76	32.98
For Elevated Installation >10' To 15', Add	6.60	
For Elevated Installation >15' To 20', Add	13.19	
For Elevated Installation >20' To 25', Add	16.49	
For Elevated Installation >25' To 30', Add	23.09	
For Elevated Installation >30' To 35', Add	26.38	
For Elevated Installation >35' To 40', Add	32.98	
For Elevated Installation >40', Add	36.28	
For Work In Restricted Working Space, Add	19.79	
26 05 33 13-0848 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow .....286.87	286.87	41.38
For Elevated Installation >10' To 15', Add	8.27	
For Elevated Installation >15' To 20', Add	16.55	
For Elevated Installation >20' To 25', Add	20.69	
For Elevated Installation >25' To 30', Add	28.96	
For Elevated Installation >30' To 35', Add	33.10	
For Elevated Installation >35' To 40', Add	41.37	
For Elevated Installation >40', Add	45.51	
For Work In Restricted Working Space, Add	24.82	
26 05 33 13-0849 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow .....367.28	367.28	56.36
For Elevated Installation >10' To 15', Add	11.27	
For Elevated Installation >15' To 20', Add	22.54	
For Elevated Installation >20' To 25', Add	28.18	
For Elevated Installation >25' To 30', Add	39.45	
For Elevated Installation >30' To 35', Add	45.09	
For Elevated Installation >35' To 40', Add	56.36	
For Elevated Installation >40', Add	62.00	
For Work In Restricted Working Space, Add	33.82	
26 05 33 13-0850 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows <small>(26 05 33 13-0797)</small>		
26 05 33 13-0851 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow .....148.26	148.26	22.79
For Elevated Installation >10' To 15', Add	4.56	
For Elevated Installation >15' To 20', Add	9.11	
For Elevated Installation >20' To 25', Add	11.39	
For Elevated Installation >25' To 30', Add	15.95	
For Elevated Installation >30' To 35', Add	18.23	
For Elevated Installation >35' To 40', Add	22.79	
For Elevated Installation >40', Add	25.06	
For Work In Restricted Working Space, Add	13.67	
26 05 33 13-0852 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow .....167.46	167.46	26.38
For Elevated Installation >10' To 15', Add	5.28	
For Elevated Installation >15' To 20', Add	10.55	
For Elevated Installation >20' To 25', Add	13.19	
For Elevated Installation >25' To 30', Add	18.47	
For Elevated Installation >30' To 35', Add	21.10	
For Elevated Installation >35' To 40', Add	26.38	
For Elevated Installation >40', Add	29.02	
For Work In Restricted Working Space, Add	15.83	
26 05 33 13-0853 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow .....188.99	188.99	29.98
For Elevated Installation >10' To 15', Add	6.00	
For Elevated Installation >15' To 20', Add	11.99	
For Elevated Installation >20' To 25', Add	14.99	
For Elevated Installation >25' To 30', Add	20.99	
For Elevated Installation >30' To 35', Add	23.98	
For Elevated Installation >35' To 40', Add	29.98	
For Elevated Installation >40', Add	32.98	
For Work In Restricted Working Space, Add	17.99	
26 05 33 13-0854 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow .....228.10	228.10	32.98
For Elevated Installation >10' To 15', Add	6.60	
For Elevated Installation >15' To 20', Add	13.19	
For Elevated Installation >20' To 25', Add	16.49	
For Elevated Installation >25' To 30', Add	23.09	
For Elevated Installation >30' To 35', Add	26.38	
For Elevated Installation >35' To 40', Add	32.98	
For Elevated Installation >40', Add	36.28	
For Work In Restricted Working Space, Add	19.79	
26 05 33 13-0855 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow .....324.74	324.74	41.38
For Elevated Installation >10' To 15', Add	8.27	
For Elevated Installation >15' To 20', Add	16.55	
For Elevated Installation >20' To 25', Add	20.69	
For Elevated Installation >25' To 30', Add	28.96	
For Elevated Installation >30' To 35', Add	33.10	
For Elevated Installation >35' To 40', Add	41.37	
For Elevated Installation >40', Add	45.51	
For Work In Restricted Working Space, Add	24.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0856 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	411.75	56.36
<i>For Elevated Installation >10' To 15', Add</i>	11.27	
<i>For Elevated Installation >15' To 20', Add</i>	22.54	
<i>For Elevated Installation >20' To 25', Add</i>	28.18	
<i>For Elevated Installation >25' To 30', Add</i>	39.45	
<i>For Elevated Installation >30' To 35', Add</i>	45.09	
<i>For Elevated Installation >35' To 40', Add</i>	56.36	
<i>For Elevated Installation >40', Add</i>	62.00	
<i>For Work In Restricted Working Space, Add</i>	33.82	
26 05 33 13-0857 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	519.11	63.55
<i>For Elevated Installation >10' To 15', Add</i>	12.71	
<i>For Elevated Installation >15' To 20', Add</i>	25.42	
<i>For Elevated Installation >20' To 25', Add</i>	31.78	
<i>For Elevated Installation >25' To 30', Add</i>	44.49	
<i>For Elevated Installation >30' To 35', Add</i>	50.85	
<i>For Elevated Installation >35' To 40', Add</i>	63.56	
<i>For Elevated Installation >40', Add</i>	69.92	
<i>For Work In Restricted Working Space, Add</i>	38.14	
26 05 33 13-0858 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	585.88	82.74
<i>For Elevated Installation >10' To 15', Add</i>	16.55	
<i>For Elevated Installation >15' To 20', Add</i>	33.10	
<i>For Elevated Installation >20' To 25', Add</i>	41.37	
<i>For Elevated Installation >25' To 30', Add</i>	57.92	
<i>For Elevated Installation >30' To 35', Add</i>	66.20	
<i>For Elevated Installation >35' To 40', Add</i>	82.75	
<i>For Elevated Installation >40', Add</i>	91.02	
<i>For Work In Restricted Working Space, Add</i>	49.65	
26 05 33 13-0859 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows <small>(26 05 33 13-0797)</small>		
26 05 33 13-0860 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	175.58	22.79
<i>For Elevated Installation >10' To 15', Add</i>	4.56	
<i>For Elevated Installation >15' To 20', Add</i>	9.11	
<i>For Elevated Installation >20' To 25', Add</i>	11.39	
<i>For Elevated Installation >25' To 30', Add</i>	15.95	
<i>For Elevated Installation >30' To 35', Add</i>	18.23	
<i>For Elevated Installation >35' To 40', Add</i>	22.79	
<i>For Elevated Installation >40', Add</i>	25.06	
<i>For Work In Restricted Working Space, Add</i>	13.67	
26 05 33 13-0861 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	194.18	26.38
<i>For Elevated Installation >10' To 15', Add</i>	5.28	
<i>For Elevated Installation >15' To 20', Add</i>	10.55	
<i>For Elevated Installation >20' To 25', Add</i>	13.19	
<i>For Elevated Installation >25' To 30', Add</i>	18.47	
<i>For Elevated Installation >30' To 35', Add</i>	21.10	
<i>For Elevated Installation >35' To 40', Add</i>	26.38	
<i>For Elevated Installation >40', Add</i>	29.02	
<i>For Work In Restricted Working Space, Add</i>	15.83	
26 05 33 13-0862 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	219.34	29.98
<i>For Elevated Installation >10' To 15', Add</i>	6.00	
<i>For Elevated Installation >15' To 20', Add</i>	11.99	
<i>For Elevated Installation >20' To 25', Add</i>	14.99	
<i>For Elevated Installation >25' To 30', Add</i>	20.99	
<i>For Elevated Installation >30' To 35', Add</i>	23.98	
<i>For Elevated Installation >35' To 40', Add</i>	29.98	
<i>For Elevated Installation >40', Add</i>	32.98	
<i>For Work In Restricted Working Space, Add</i>	17.99	
26 05 33 13-0863 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	271.79	32.98
<i>For Elevated Installation >10' To 15', Add</i>	6.60	
<i>For Elevated Installation >15' To 20', Add</i>	13.19	
<i>For Elevated Installation >20' To 25', Add</i>	16.49	
<i>For Elevated Installation >25' To 30', Add</i>	23.09	
<i>For Elevated Installation >30' To 35', Add</i>	26.38	
<i>For Elevated Installation >35' To 40', Add</i>	32.98	
<i>For Elevated Installation >40', Add</i>	36.28	
<i>For Work In Restricted Working Space, Add</i>	19.79	
26 05 33 13-0864 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	392.53	41.38
<i>For Elevated Installation >10' To 15', Add</i>	8.27	
<i>For Elevated Installation >15' To 20', Add</i>	16.55	
<i>For Elevated Installation >20' To 25', Add</i>	20.69	
<i>For Elevated Installation >25' To 30', Add</i>	28.96	
<i>For Elevated Installation >30' To 35', Add</i>	33.10	
<i>For Elevated Installation >35' To 40', Add</i>	41.37	
<i>For Elevated Installation >40', Add</i>	45.51	
<i>For Work In Restricted Working Space, Add</i>	24.82	
26 05 33 13-0865 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	487.09	56.36
<i>For Elevated Installation >10' To 15', Add</i>	11.27	
<i>For Elevated Installation >15' To 20', Add</i>	22.54	
<i>For Elevated Installation >20' To 25', Add</i>	28.18	
<i>For Elevated Installation >25' To 30', Add</i>	39.45	
<i>For Elevated Installation >30' To 35', Add</i>	45.09	
<i>For Elevated Installation >35' To 40', Add</i>	56.36	
<i>For Elevated Installation >40', Add</i>	62.00	
<i>For Work In Restricted Working Space, Add</i>	33.82	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0866 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow .....565.11	565.11	63.55
For Elevated Installation >10' To 15', Add	12.71	
For Elevated Installation >15' To 20', Add	25.42	
For Elevated Installation >20' To 25', Add	31.78	
For Elevated Installation >25' To 30', Add	44.49	
For Elevated Installation >30' To 35', Add	50.85	
For Elevated Installation >35' To 40', Add	63.56	
For Elevated Installation >40', Add	69.92	
For Work In Restricted Working Space, Add	38.14	
26 05 33 13-0867 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow .....670.33	670.33	82.74
For Elevated Installation >10' To 15', Add	16.55	
For Elevated Installation >15' To 20', Add	33.10	
For Elevated Installation >20' To 25', Add	41.37	
For Elevated Installation >25' To 30', Add	57.92	
For Elevated Installation >30' To 35', Add	66.20	
For Elevated Installation >35' To 40', Add	82.75	
For Elevated Installation >40', Add	91.02	
For Work In Restricted Working Space, Add	49.65	
26 05 33 13-0868 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows ^(26 05 33 13-0797)		
26 05 33 13-0869 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....196.85	196.85	22.79
For Elevated Installation >10' To 15', Add	4.56	
For Elevated Installation >15' To 20', Add	9.11	
For Elevated Installation >20' To 25', Add	11.39	
For Elevated Installation >25' To 30', Add	15.95	
For Elevated Installation >30' To 35', Add	18.23	
For Elevated Installation >35' To 40', Add	22.79	
For Elevated Installation >40', Add	25.06	
For Work In Restricted Working Space, Add	13.67	
26 05 33 13-0870 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....219.07	219.07	26.38
For Elevated Installation >10' To 15', Add	5.28	
For Elevated Installation >15' To 20', Add	10.55	
For Elevated Installation >20' To 25', Add	13.19	
For Elevated Installation >25' To 30', Add	18.47	
For Elevated Installation >30' To 35', Add	21.10	
For Elevated Installation >35' To 40', Add	26.38	
For Elevated Installation >40', Add	29.02	
For Work In Restricted Working Space, Add	15.83	
26 05 33 13-0871 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....249.21	249.21	29.98
For Elevated Installation >10' To 15', Add	6.00	
For Elevated Installation >15' To 20', Add	11.99	
For Elevated Installation >20' To 25', Add	14.99	
For Elevated Installation >25' To 30', Add	20.99	
For Elevated Installation >30' To 35', Add	23.98	
For Elevated Installation >35' To 40', Add	29.98	
For Elevated Installation >40', Add	32.98	
For Work In Restricted Working Space, Add	17.99	
26 05 33 13-0872 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....309.83	309.83	32.98
For Elevated Installation >10' To 15', Add	6.60	
For Elevated Installation >15' To 20', Add	13.19	
For Elevated Installation >20' To 25', Add	16.49	
For Elevated Installation >25' To 30', Add	23.09	
For Elevated Installation >30' To 35', Add	26.38	
For Elevated Installation >35' To 40', Add	32.98	
For Elevated Installation >40', Add	36.28	
For Work In Restricted Working Space, Add	19.79	
26 05 33 13-0873 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....429.52	429.52	41.38
For Elevated Installation >10' To 15', Add	8.27	
For Elevated Installation >15' To 20', Add	16.55	
For Elevated Installation >20' To 25', Add	20.69	
For Elevated Installation >25' To 30', Add	28.96	
For Elevated Installation >30' To 35', Add	33.10	
For Elevated Installation >35' To 40', Add	41.37	
For Elevated Installation >40', Add	45.51	
For Work In Restricted Working Space, Add	24.82	
26 05 33 13-0874 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....547.35	547.35	56.36
For Elevated Installation >10' To 15', Add	11.27	
For Elevated Installation >15' To 20', Add	22.54	
For Elevated Installation >20' To 25', Add	28.18	
For Elevated Installation >25' To 30', Add	39.45	
For Elevated Installation >30' To 35', Add	45.09	
For Elevated Installation >35' To 40', Add	56.36	
For Elevated Installation >40', Add	62.00	
For Work In Restricted Working Space, Add	33.82	
26 05 33 13-0875 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....676.95	676.95	63.55
For Elevated Installation >10' To 15', Add	12.71	
For Elevated Installation >15' To 20', Add	25.42	
For Elevated Installation >20' To 25', Add	31.78	
For Elevated Installation >25' To 30', Add	44.49	
For Elevated Installation >30' To 35', Add	50.85	
For Elevated Installation >35' To 40', Add	63.56	
For Elevated Installation >40', Add	69.92	
For Work In Restricted Working Space, Add	38.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0876 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	747.85	82.74
<i>For Elevated Installation >10' To 15', Add</i>	16.55	
<i>For Elevated Installation >15' To 20', Add</i>	33.10	
<i>For Elevated Installation >20' To 25', Add</i>	41.37	
<i>For Elevated Installation >25' To 30', Add</i>	57.92	
<i>For Elevated Installation >30' To 35', Add</i>	66.20	
<i>For Elevated Installation >35' To 40', Add</i>	82.75	
<i>For Elevated Installation >40', Add</i>	91.02	
<i>For Work In Restricted Working Space, Add</i>	49.65	
26 05 33 13-0877 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	1,246.54	134.91
<i>For Elevated Installation >10' To 15', Add</i>	26.98	
<i>For Elevated Installation >15' To 20', Add</i>	53.96	
<i>For Elevated Installation >20' To 25', Add</i>	67.46	
<i>For Elevated Installation >25' To 30', Add</i>	94.44	
<i>For Elevated Installation >30' To 35', Add</i>	107.93	
<i>For Elevated Installation >35' To 40', Add</i>	134.91	
<i>For Elevated Installation >40', Add</i>	148.40	
<i>For Work In Restricted Working Space, Add</i>	80.95	
26 05 33 13-0878 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows <small>(26 05 33 13-0797)</small>		
26 05 33 13-0879 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	224.65	22.79
<i>For Elevated Installation >10' To 15', Add</i>	4.56	
<i>For Elevated Installation >15' To 20', Add</i>	9.11	
<i>For Elevated Installation >20' To 25', Add</i>	11.39	
<i>For Elevated Installation >25' To 30', Add</i>	15.95	
<i>For Elevated Installation >30' To 35', Add</i>	18.23	
<i>For Elevated Installation >35' To 40', Add</i>	22.79	
<i>For Elevated Installation >40', Add</i>	25.06	
<i>For Work In Restricted Working Space, Add</i>	13.67	
26 05 33 13-0880 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	249.12	26.38
<i>For Elevated Installation >10' To 15', Add</i>	5.28	
<i>For Elevated Installation >15' To 20', Add</i>	10.55	
<i>For Elevated Installation >20' To 25', Add</i>	13.19	
<i>For Elevated Installation >25' To 30', Add</i>	18.47	
<i>For Elevated Installation >30' To 35', Add</i>	21.10	
<i>For Elevated Installation >35' To 40', Add</i>	26.38	
<i>For Elevated Installation >40', Add</i>	29.02	
<i>For Work In Restricted Working Space, Add</i>	15.83	
26 05 33 13-0881 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	281.95	29.98
<i>For Elevated Installation >10' To 15', Add</i>	6.00	
<i>For Elevated Installation >15' To 20', Add</i>	11.99	
<i>For Elevated Installation >20' To 25', Add</i>	14.99	
<i>For Elevated Installation >25' To 30', Add</i>	20.99	
<i>For Elevated Installation >30' To 35', Add</i>	23.98	
<i>For Elevated Installation >35' To 40', Add</i>	29.98	
<i>For Elevated Installation >40', Add</i>	32.98	
<i>For Work In Restricted Working Space, Add</i>	17.99	
26 05 33 13-0882 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	352.02	32.98
<i>For Elevated Installation >10' To 15', Add</i>	6.60	
<i>For Elevated Installation >15' To 20', Add</i>	13.19	
<i>For Elevated Installation >20' To 25', Add</i>	16.49	
<i>For Elevated Installation >25' To 30', Add</i>	23.09	
<i>For Elevated Installation >30' To 35', Add</i>	26.38	
<i>For Elevated Installation >35' To 40', Add</i>	32.98	
<i>For Elevated Installation >40', Add</i>	36.28	
<i>For Work In Restricted Working Space, Add</i>	19.79	
26 05 33 13-0883 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	491.15	41.38
<i>For Elevated Installation >10' To 15', Add</i>	8.27	
<i>For Elevated Installation >15' To 20', Add</i>	16.55	
<i>For Elevated Installation >20' To 25', Add</i>	20.69	
<i>For Elevated Installation >25' To 30', Add</i>	28.96	
<i>For Elevated Installation >30' To 35', Add</i>	33.10	
<i>For Elevated Installation >35' To 40', Add</i>	41.37	
<i>For Elevated Installation >40', Add</i>	45.51	
<i>For Work In Restricted Working Space, Add</i>	24.82	
26 05 33 13-0884 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	624.13	56.36
<i>For Elevated Installation >10' To 15', Add</i>	11.27	
<i>For Elevated Installation >15' To 20', Add</i>	22.54	
<i>For Elevated Installation >20' To 25', Add</i>	28.18	
<i>For Elevated Installation >25' To 30', Add</i>	39.45	
<i>For Elevated Installation >30' To 35', Add</i>	45.09	
<i>For Elevated Installation >35' To 40', Add</i>	56.36	
<i>For Elevated Installation >40', Add</i>	62.00	
<i>For Work In Restricted Working Space, Add</i>	33.82	
26 05 33 13-0885 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	732.99	63.55
<i>For Elevated Installation >10' To 15', Add</i>	12.71	
<i>For Elevated Installation >15' To 20', Add</i>	25.42	
<i>For Elevated Installation >20' To 25', Add</i>	31.78	
<i>For Elevated Installation >25' To 30', Add</i>	44.49	
<i>For Elevated Installation >30' To 35', Add</i>	50.85	
<i>For Elevated Installation >35' To 40', Add</i>	63.56	
<i>For Elevated Installation >40', Add</i>	69.92	
<i>For Work In Restricted Working Space, Add</i>	38.14	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0886 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	847.93	82.74
For Elevated Installation >10' To 15', Add	16.55	
For Elevated Installation >15' To 20', Add	33.10	
For Elevated Installation >20' To 25', Add	41.37	
For Elevated Installation >25' To 30', Add	57.92	
For Elevated Installation >30' To 35', Add	66.20	
For Elevated Installation >35' To 40', Add	82.75	
For Elevated Installation >40', Add	91.02	
For Work In Restricted Working Space, Add	49.65	
26 05 33 13-0887 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	1,316.68	134.91
For Elevated Installation >10' To 15', Add	26.98	
For Elevated Installation >15' To 20', Add	53.96	
For Elevated Installation >20' To 25', Add	67.46	
For Elevated Installation >25' To 30', Add	94.44	
For Elevated Installation >30' To 35', Add	107.93	
For Elevated Installation >35' To 40', Add	134.91	
For Elevated Installation >40', Add	148.40	
For Work In Restricted Working Space, Add	80.95	
26 05 33 13-0888 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	1,802.07	202.67
For Elevated Installation >10' To 15', Add	40.53	
For Elevated Installation >15' To 20', Add	81.07	
For Elevated Installation >20' To 25', Add	101.34	
For Elevated Installation >25' To 30', Add	141.87	
For Elevated Installation >30' To 35', Add	162.14	
For Elevated Installation >35' To 40', Add	202.67	
For Elevated Installation >40', Add	222.94	
For Work In Restricted Working Space, Add	121.60	
26 05 33 13-0889 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows <small>(26 05 33 13-0797)</small>		
26 05 33 13-0890 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	263.36	22.79
For Elevated Installation >10' To 15', Add	4.56	
For Elevated Installation >15' To 20', Add	9.11	
For Elevated Installation >20' To 25', Add	11.39	
For Elevated Installation >25' To 30', Add	15.95	
For Elevated Installation >30' To 35', Add	18.23	
For Elevated Installation >35' To 40', Add	22.79	
For Elevated Installation >40', Add	25.06	
For Work In Restricted Working Space, Add	13.67	
26 05 33 13-0891 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	275.92	26.38
For Elevated Installation >10' To 15', Add	5.28	
For Elevated Installation >15' To 20', Add	10.55	
For Elevated Installation >20' To 25', Add	13.19	
For Elevated Installation >25' To 30', Add	18.47	
For Elevated Installation >30' To 35', Add	21.10	
For Elevated Installation >35' To 40', Add	26.38	
For Elevated Installation >40', Add	29.02	
For Work In Restricted Working Space, Add	15.83	
26 05 33 13-0892 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	325.77	29.98
For Elevated Installation >10' To 15', Add	6.00	
For Elevated Installation >15' To 20', Add	11.99	
For Elevated Installation >20' To 25', Add	14.99	
For Elevated Installation >25' To 30', Add	20.99	
For Elevated Installation >30' To 35', Add	23.98	
For Elevated Installation >35' To 40', Add	29.98	
For Elevated Installation >40', Add	32.98	
For Work In Restricted Working Space, Add	17.99	
26 05 33 13-0893 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	410.75	32.98
For Elevated Installation >10' To 15', Add	6.60	
For Elevated Installation >15' To 20', Add	13.19	
For Elevated Installation >20' To 25', Add	16.49	
For Elevated Installation >25' To 30', Add	23.09	
For Elevated Installation >30' To 35', Add	26.38	
For Elevated Installation >35' To 40', Add	32.98	
For Elevated Installation >40', Add	36.28	
For Work In Restricted Working Space, Add	19.79	
26 05 33 13-0894 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	574.25	41.38
For Elevated Installation >10' To 15', Add	8.27	
For Elevated Installation >15' To 20', Add	16.55	
For Elevated Installation >20' To 25', Add	20.69	
For Elevated Installation >25' To 30', Add	28.96	
For Elevated Installation >30' To 35', Add	33.10	
For Elevated Installation >35' To 40', Add	41.37	
For Elevated Installation >40', Add	45.51	
For Work In Restricted Working Space, Add	24.82	
26 05 33 13-0895 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	727.63	56.36
For Elevated Installation >10' To 15', Add	11.27	
For Elevated Installation >15' To 20', Add	22.54	
For Elevated Installation >20' To 25', Add	28.18	
For Elevated Installation >25' To 30', Add	39.45	
For Elevated Installation >30' To 35', Add	45.09	
For Elevated Installation >35' To 40', Add	56.36	
For Elevated Installation >40', Add	62.00	
For Work In Restricted Working Space, Add	33.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0896 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....888.80		63.55
For Elevated Installation >10' To 15', Add	12.71	
For Elevated Installation >15' To 20', Add	25.42	
For Elevated Installation >20' To 25', Add	31.78	
For Elevated Installation >25' To 30', Add	44.49	
For Elevated Installation >30' To 35', Add	50.85	
For Elevated Installation >35' To 40', Add	63.56	
For Elevated Installation >40', Add	69.92	
For Work In Restricted Working Space, Add	38.14	
26 05 33 13-0897 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....1,042.61		82.74
For Elevated Installation >10' To 15', Add	16.55	
For Elevated Installation >15' To 20', Add	33.10	
For Elevated Installation >20' To 25', Add	41.37	
For Elevated Installation >25' To 30', Add	57.92	
For Elevated Installation >30' To 35', Add	66.20	
For Elevated Installation >35' To 40', Add	82.75	
For Elevated Installation >40', Add	91.02	
For Work In Restricted Working Space, Add	49.65	
26 05 33 13-0898 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....1,545.45		134.91
For Elevated Installation >10' To 15', Add	26.98	
For Elevated Installation >15' To 20', Add	53.96	
For Elevated Installation >20' To 25', Add	67.46	
For Elevated Installation >25' To 30', Add	94.44	
For Elevated Installation >30' To 35', Add	107.93	
For Elevated Installation >35' To 40', Add	134.91	
For Elevated Installation >40', Add	148.40	
For Work In Restricted Working Space, Add	80.95	
26 05 33 13-0899 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....1,907.08		202.67
For Elevated Installation >10' To 15', Add	40.53	
For Elevated Installation >15' To 20', Add	81.07	
For Elevated Installation >20' To 25', Add	101.34	
For Elevated Installation >25' To 30', Add	141.87	
For Elevated Installation >30' To 35', Add	162.14	
For Elevated Installation >35' To 40', Add	202.67	
For Elevated Installation >40', Add	222.94	
For Work In Restricted Working Space, Add	121.60	
26 05 33 13-0900 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows <small>26 05 33 13-0797</small>		
26 05 33 13-0901 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....272.69		22.79
For Elevated Installation >10' To 15', Add	4.56	
For Elevated Installation >15' To 20', Add	9.11	
For Elevated Installation >20' To 25', Add	11.39	
For Elevated Installation >25' To 30', Add	15.95	
For Elevated Installation >30' To 35', Add	18.23	
For Elevated Installation >35' To 40', Add	22.79	
For Elevated Installation >40', Add	25.06	
For Work In Restricted Working Space, Add	13.67	
26 05 33 13-0902 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....321.25		26.38
For Elevated Installation >10' To 15', Add	5.28	
For Elevated Installation >15' To 20', Add	10.55	
For Elevated Installation >20' To 25', Add	13.19	
For Elevated Installation >25' To 30', Add	18.47	
For Elevated Installation >30' To 35', Add	21.10	
For Elevated Installation >35' To 40', Add	26.38	
For Elevated Installation >40', Add	29.02	
For Work In Restricted Working Space, Add	15.83	
26 05 33 13-0903 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....363.66		29.98
For Elevated Installation >10' To 15', Add	6.00	
For Elevated Installation >15' To 20', Add	11.99	
For Elevated Installation >20' To 25', Add	14.99	
For Elevated Installation >25' To 30', Add	20.99	
For Elevated Installation >30' To 35', Add	23.98	
For Elevated Installation >35' To 40', Add	29.98	
For Elevated Installation >40', Add	32.98	
For Work In Restricted Working Space, Add	17.99	
26 05 33 13-0904 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....428.42		32.98
For Elevated Installation >10' To 15', Add	6.60	
For Elevated Installation >15' To 20', Add	13.19	
For Elevated Installation >20' To 25', Add	16.49	
For Elevated Installation >25' To 30', Add	23.09	
For Elevated Installation >30' To 35', Add	26.38	
For Elevated Installation >35' To 40', Add	32.98	
For Elevated Installation >40', Add	36.28	
For Work In Restricted Working Space, Add	19.79	
26 05 33 13-0905 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....595.01		41.38
For Elevated Installation >10' To 15', Add	8.27	
For Elevated Installation >15' To 20', Add	16.55	
For Elevated Installation >20' To 25', Add	20.69	
For Elevated Installation >25' To 30', Add	28.96	
For Elevated Installation >30' To 35', Add	33.10	
For Elevated Installation >35' To 40', Add	41.37	
For Elevated Installation >40', Add	45.51	
For Work In Restricted Working Space, Add	24.82	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0906 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	759.46	56.36
For Elevated Installation >10' To 15', Add	11.27	
For Elevated Installation >15' To 20', Add	22.54	
For Elevated Installation >20' To 25', Add	28.18	
For Elevated Installation >25' To 30', Add	39.45	
For Elevated Installation >30' To 35', Add	45.09	
For Elevated Installation >35' To 40', Add	56.36	
For Elevated Installation >40', Add	62.00	
For Work In Restricted Working Space, Add	33.82	
26 05 33 13-0907 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	973.66	63.55
For Elevated Installation >10' To 15', Add	12.71	
For Elevated Installation >15' To 20', Add	25.42	
For Elevated Installation >20' To 25', Add	31.78	
For Elevated Installation >25' To 30', Add	44.49	
For Elevated Installation >30' To 35', Add	50.85	
For Elevated Installation >35' To 40', Add	63.56	
For Elevated Installation >40', Add	69.92	
For Work In Restricted Working Space, Add	38.14	
26 05 33 13-0908 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	1,086.77	82.74
For Elevated Installation >10' To 15', Add	16.55	
For Elevated Installation >15' To 20', Add	33.10	
For Elevated Installation >20' To 25', Add	41.37	
For Elevated Installation >25' To 30', Add	57.92	
For Elevated Installation >30' To 35', Add	66.20	
For Elevated Installation >35' To 40', Add	82.75	
For Elevated Installation >40', Add	91.02	
For Work In Restricted Working Space, Add	49.65	
26 05 33 13-0909 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	1,606.91	134.91
For Elevated Installation >10' To 15', Add	26.98	
For Elevated Installation >15' To 20', Add	53.96	
For Elevated Installation >20' To 25', Add	67.46	
For Elevated Installation >25' To 30', Add	94.44	
For Elevated Installation >30' To 35', Add	107.93	
For Elevated Installation >35' To 40', Add	134.91	
For Elevated Installation >40', Add	148.40	
For Work In Restricted Working Space, Add	80.95	
26 05 33 13-0910 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	1,960.44	202.67
For Elevated Installation >10' To 15', Add	40.53	
For Elevated Installation >15' To 20', Add	81.07	
For Elevated Installation >20' To 25', Add	101.34	
For Elevated Installation >25' To 30', Add	141.87	
For Elevated Installation >30' To 35', Add	162.14	
For Elevated Installation >35' To 40', Add	202.67	
For Elevated Installation >40', Add	222.94	
For Work In Restricted Working Space, Add	121.60	
26 05 33 13-0911 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fittings (26 05 33 13-0797)		
26 05 33 13-0912 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting	99.78	14.99
For Elevated Installation >10' To 15', Add	3.00	
For Elevated Installation >15' To 20', Add	6.00	
For Elevated Installation >20' To 25', Add	7.50	
For Elevated Installation >25' To 30', Add	10.49	
For Elevated Installation >30' To 35', Add	11.99	
For Elevated Installation >35' To 40', Add	14.99	
For Elevated Installation >40', Add	16.49	
For Work In Restricted Working Space, Add	8.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.99	
26 05 33 13-0913 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting	121.88	19.79
For Elevated Installation >10' To 15', Add	3.96	
For Elevated Installation >15' To 20', Add	7.91	
For Elevated Installation >20' To 25', Add	9.89	
For Elevated Installation >25' To 30', Add	13.85	
For Elevated Installation >30' To 35', Add	15.83	
For Elevated Installation >35' To 40', Add	19.79	
For Elevated Installation >40', Add	21.76	
For Work In Restricted Working Space, Add	11.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.87	
26 05 33 13-0914 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting	163.12	22.79
For Elevated Installation >10' To 15', Add	4.56	
For Elevated Installation >15' To 20', Add	9.11	
For Elevated Installation >20' To 25', Add	11.39	
For Elevated Installation >25' To 30', Add	15.95	
For Elevated Installation >30' To 35', Add	18.23	
For Elevated Installation >35' To 40', Add	22.79	
For Elevated Installation >40', Add	25.06	
For Work In Restricted Working Space, Add	13.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.67	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0915	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting	269.81	26.38
			<i>For Elevated Installation >10' To 15', Add</i>	5.28	
			<i>For Elevated Installation >15' To 20', Add</i>	10.55	
			<i>For Elevated Installation >20' To 25', Add</i>	13.19	
			<i>For Elevated Installation >25' To 30', Add</i>	18.47	
			<i>For Elevated Installation >30' To 35', Add</i>	21.10	
			<i>For Elevated Installation >35' To 40', Add</i>	26.38	
			<i>For Elevated Installation >40', Add</i>	29.02	
			<i>For Work In Restricted Working Space, Add</i>	15.83	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.83	
26 05 33	13-0916	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting	297.77	29.98
			<i>For Elevated Installation >10' To 15', Add</i>	6.00	
			<i>For Elevated Installation >15' To 20', Add</i>	11.99	
			<i>For Elevated Installation >20' To 25', Add</i>	14.99	
			<i>For Elevated Installation >25' To 30', Add</i>	20.99	
			<i>For Elevated Installation >30' To 35', Add</i>	23.98	
			<i>For Elevated Installation >35' To 40', Add</i>	29.98	
			<i>For Elevated Installation >40', Add</i>	32.98	
			<i>For Work In Restricted Working Space, Add</i>	17.99	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.99	
26 05 33	13-0917	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting	377.08	32.98
			<i>For Elevated Installation >10' To 15', Add</i>	6.60	
			<i>For Elevated Installation >15' To 20', Add</i>	13.19	
			<i>For Elevated Installation >20' To 25', Add</i>	16.49	
			<i>For Elevated Installation >25' To 30', Add</i>	23.08	
			<i>For Elevated Installation >30' To 35', Add</i>	26.38	
			<i>For Elevated Installation >35' To 40', Add</i>	32.98	
			<i>For Elevated Installation >40', Add</i>	36.27	
			<i>For Work In Restricted Working Space, Add</i>	19.79	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.79	
26 05 33	13-0918	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting	1,035.82	41.38
			<i>For Elevated Installation >10' To 15', Add</i>	8.27	
			<i>For Elevated Installation >15' To 20', Add</i>	16.55	
			<i>For Elevated Installation >20' To 25', Add</i>	20.69	
			<i>For Elevated Installation >25' To 30', Add</i>	28.96	
			<i>For Elevated Installation >30' To 35', Add</i>	33.10	
			<i>For Elevated Installation >35' To 40', Add</i>	41.37	
			<i>For Elevated Installation >40', Add</i>	45.51	
			<i>For Work In Restricted Working Space, Add</i>	24.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.82	
26 05 33	13-0919	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting	1,235.09	56.36
			<i>For Elevated Installation >10' To 15', Add</i>	11.27	
			<i>For Elevated Installation >15' To 20', Add</i>	22.55	
			<i>For Elevated Installation >20' To 25', Add</i>	28.18	
			<i>For Elevated Installation >25' To 30', Add</i>	39.46	
			<i>For Elevated Installation >30' To 35', Add</i>	45.09	
			<i>For Elevated Installation >35' To 40', Add</i>	56.37	
			<i>For Elevated Installation >40', Add</i>	62.00	
			<i>For Work In Restricted Working Space, Add</i>	33.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.82	
26 05 33	13-0920	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting	1,639.70	82.74
			<i>For Elevated Installation >10' To 15', Add</i>	16.55	
			<i>For Elevated Installation >15' To 20', Add</i>	33.10	
			<i>For Elevated Installation >20' To 25', Add</i>	41.37	
			<i>For Elevated Installation >25' To 30', Add</i>	57.92	
			<i>For Elevated Installation >30' To 35', Add</i>	66.19	
			<i>For Elevated Installation >35' To 40', Add</i>	82.74	
			<i>For Elevated Installation >40', Add</i>	91.01	
			<i>For Work In Restricted Working Space, Add</i>	49.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49.64	
26 05 33	13-0921		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fittings <small>(26 05 33 13-0797)</small>		
26 05 33	13-0922	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting	95.54	14.99
			<i>For Elevated Installation >10' To 15', Add</i>	3.00	
			<i>For Elevated Installation >15' To 20', Add</i>	6.00	
			<i>For Elevated Installation >20' To 25', Add</i>	7.50	
			<i>For Elevated Installation >25' To 30', Add</i>	10.49	
			<i>For Elevated Installation >30' To 35', Add</i>	11.99	
			<i>For Elevated Installation >35' To 40', Add</i>	14.99	
			<i>For Elevated Installation >40', Add</i>	16.49	
			<i>For Work In Restricted Working Space, Add</i>	8.99	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.99	
26 05 33	13-0923	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting	117.09	19.79
			<i>For Elevated Installation >10' To 15', Add</i>	3.96	
			<i>For Elevated Installation >15' To 20', Add</i>	7.91	
			<i>For Elevated Installation >20' To 25', Add</i>	9.89	
			<i>For Elevated Installation >25' To 30', Add</i>	13.85	
			<i>For Elevated Installation >30' To 35', Add</i>	15.83	
			<i>For Elevated Installation >35' To 40', Add</i>	19.79	
			<i>For Elevated Installation >40', Add</i>	21.76	
			<i>For Work In Restricted Working Space, Add</i>	11.87	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.87	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0924	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting .....163.12 <i>For Elevated Installation >10' To 15', Add</i> 4.56 <i>For Elevated Installation >15' To 20', Add</i> 9.11 <i>For Elevated Installation >20' To 25', Add</i> 11.39 <i>For Elevated Installation >25' To 30', Add</i> 15.95 <i>For Elevated Installation >30' To 35', Add</i> 18.23 <i>For Elevated Installation >35' To 40', Add</i> 22.79 <i>For Elevated Installation >40', Add</i> 25.06 <i>For Work In Restricted Working Space, Add</i> 13.67 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 13.67	163.12	22.79
26 05 33	13-0925	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting .....267.34 <i>For Elevated Installation >10' To 15', Add</i> 5.28 <i>For Elevated Installation >15' To 20', Add</i> 10.55 <i>For Elevated Installation >20' To 25', Add</i> 13.19 <i>For Elevated Installation >25' To 30', Add</i> 18.47 <i>For Elevated Installation >30' To 35', Add</i> 21.10 <i>For Elevated Installation >35' To 40', Add</i> 26.38 <i>For Elevated Installation >40', Add</i> 29.02 <i>For Work In Restricted Working Space, Add</i> 15.83 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 15.83	267.34	26.38
26 05 33	13-0926	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting .....287.82 <i>For Elevated Installation >10' To 15', Add</i> 6.00 <i>For Elevated Installation >15' To 20', Add</i> 11.99 <i>For Elevated Installation >20' To 25', Add</i> 14.99 <i>For Elevated Installation >25' To 30', Add</i> 20.99 <i>For Elevated Installation >30' To 35', Add</i> 23.98 <i>For Elevated Installation >35' To 40', Add</i> 29.98 <i>For Elevated Installation >40', Add</i> 32.98 <i>For Work In Restricted Working Space, Add</i> 17.99 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 17.99	287.82	29.98
26 05 33	13-0927	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting .....377.20 <i>For Elevated Installation >10' To 15', Add</i> 6.60 <i>For Elevated Installation >15' To 20', Add</i> 13.19 <i>For Elevated Installation >20' To 25', Add</i> 16.49 <i>For Elevated Installation >25' To 30', Add</i> 23.08 <i>For Elevated Installation >30' To 35', Add</i> 26.38 <i>For Elevated Installation >35' To 40', Add</i> 32.98 <i>For Elevated Installation >40', Add</i> 36.27 <i>For Work In Restricted Working Space, Add</i> 19.79 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 19.79	377.20	32.98
26 05 33	13-0928	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting .....993.37 <i>For Elevated Installation >10' To 15', Add</i> 8.27 <i>For Elevated Installation >15' To 20', Add</i> 16.55 <i>For Elevated Installation >20' To 25', Add</i> 20.69 <i>For Elevated Installation >25' To 30', Add</i> 28.96 <i>For Elevated Installation >30' To 35', Add</i> 33.10 <i>For Elevated Installation >35' To 40', Add</i> 41.37 <i>For Elevated Installation >40', Add</i> 45.51 <i>For Work In Restricted Working Space, Add</i> 24.82 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 24.82	993.37	41.38
26 05 33	13-0929	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting .....1,204.12 <i>For Elevated Installation >10' To 15', Add</i> 11.27 <i>For Elevated Installation >15' To 20', Add</i> 22.55 <i>For Elevated Installation >20' To 25', Add</i> 28.18 <i>For Elevated Installation >25' To 30', Add</i> 39.46 <i>For Elevated Installation >30' To 35', Add</i> 45.09 <i>For Elevated Installation >35' To 40', Add</i> 56.37 <i>For Elevated Installation >40', Add</i> 62.00 <i>For Work In Restricted Working Space, Add</i> 33.82 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 33.82	1,204.12	56.36
26 05 33	13-0930	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting .....1,639.63 <i>For Elevated Installation >10' To 15', Add</i> 16.55 <i>For Elevated Installation >15' To 20', Add</i> 33.10 <i>For Elevated Installation >20' To 25', Add</i> 41.37 <i>For Elevated Installation >25' To 30', Add</i> 57.92 <i>For Elevated Installation >30' To 35', Add</i> 66.19 <i>For Elevated Installation >35' To 40', Add</i> 82.74 <i>For Elevated Installation >40', Add</i> 91.01 <i>For Work In Restricted Working Space, Add</i> 49.64 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 49.64	1,639.63	82.74
26 05 33	13-0931		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fittings <small>(26 05 33 13-0797)</small>		
26 05 33	13-0932	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....86.14 <i>For Elevated Installation >10' To 15', Add</i> 3.00 <i>For Elevated Installation >15' To 20', Add</i> 6.00 <i>For Elevated Installation >20' To 25', Add</i> 7.50 <i>For Elevated Installation >25' To 30', Add</i> 10.49 <i>For Elevated Installation >30' To 35', Add</i> 11.99 <i>For Elevated Installation >35' To 40', Add</i> 14.99 <i>For Elevated Installation >40', Add</i> 16.49 <i>For Work In Restricted Working Space, Add</i> 8.99 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 8.99	86.14	14.99



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0933 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	102.83 3.96 7.91 9.89 13.85 15.83 19.79 21.76 11.87 11.87	19.79
26 05 33 13-0934 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	121.44 4.56 9.11 11.39 15.95 18.23 22.79 25.06 13.67 13.67	22.79
26 05 33 13-0935 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	173.55 5.28 10.55 13.19 18.47 21.10 26.38 29.02 15.83 15.83	26.38
26 05 33 13-0936 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	202.87 6.00 11.99 14.99 20.99 23.98 29.98 32.98 17.99 17.99	29.98
26 05 33 13-0937 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	315.82 6.60 13.19 16.49 23.08 26.38 32.98 36.27 19.79 19.79	32.98
26 05 33 13-0938 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	375.15 8.27 16.55 20.69 28.96 33.10 41.37 45.51 24.82 24.82	41.38
26 05 33 13-0939 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	983.31 11.27 22.55 28.18 39.46 45.09 56.37 62.00 33.82 33.82	56.36
26 05 33 13-0940 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,253.80 16.55 33.10 41.37 57.92 66.19 82.74 91.01 49.64 49.64	82.74

26 05 33 13-0941 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fittings (26 05 33 13-0797)

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0942	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting	148.99	14.99
			<i>For Elevated Installation >10' To 15', Add</i>	3.00	
			<i>For Elevated Installation >15' To 20', Add</i>	6.00	
			<i>For Elevated Installation >20' To 25', Add</i>	7.50	
			<i>For Elevated Installation >25' To 30', Add</i>	10.49	
			<i>For Elevated Installation >30' To 35', Add</i>	11.99	
			<i>For Elevated Installation >35' To 40', Add</i>	14.99	
			<i>For Elevated Installation >40', Add</i>	16.49	
			<i>For Work In Restricted Working Space, Add</i>	8.99	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.99	
26 05 33	13-0943	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting	225.05	19.79
			<i>For Elevated Installation >10' To 15', Add</i>	3.96	
			<i>For Elevated Installation >15' To 20', Add</i>	7.91	
			<i>For Elevated Installation >20' To 25', Add</i>	9.89	
			<i>For Elevated Installation >25' To 30', Add</i>	13.85	
			<i>For Elevated Installation >30' To 35', Add</i>	15.83	
			<i>For Elevated Installation >35' To 40', Add</i>	19.79	
			<i>For Elevated Installation >40', Add</i>	21.76	
			<i>For Work In Restricted Working Space, Add</i>	11.87	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.87	
26 05 33	13-0944	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting	283.31	22.79
			<i>For Elevated Installation >10' To 15', Add</i>	4.56	
			<i>For Elevated Installation >15' To 20', Add</i>	9.11	
			<i>For Elevated Installation >20' To 25', Add</i>	11.39	
			<i>For Elevated Installation >25' To 30', Add</i>	15.95	
			<i>For Elevated Installation >30' To 35', Add</i>	18.23	
			<i>For Elevated Installation >35' To 40', Add</i>	22.79	
			<i>For Elevated Installation >40', Add</i>	25.06	
			<i>For Work In Restricted Working Space, Add</i>	13.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.67	
26 05 33	13-0945	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting	327.00	26.38
			<i>For Elevated Installation >10' To 15', Add</i>	5.28	
			<i>For Elevated Installation >15' To 20', Add</i>	10.55	
			<i>For Elevated Installation >20' To 25', Add</i>	13.19	
			<i>For Elevated Installation >25' To 30', Add</i>	18.47	
			<i>For Elevated Installation >30' To 35', Add</i>	21.10	
			<i>For Elevated Installation >35' To 40', Add</i>	26.38	
			<i>For Elevated Installation >40', Add</i>	29.02	
			<i>For Work In Restricted Working Space, Add</i>	15.83	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.83	
26 05 33	13-0946	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting	371.38	29.98
			<i>For Elevated Installation >10' To 15', Add</i>	6.00	
			<i>For Elevated Installation >15' To 20', Add</i>	11.99	
			<i>For Elevated Installation >20' To 25', Add</i>	14.99	
			<i>For Elevated Installation >25' To 30', Add</i>	20.99	
			<i>For Elevated Installation >30' To 35', Add</i>	23.98	
			<i>For Elevated Installation >35' To 40', Add</i>	29.98	
			<i>For Elevated Installation >40', Add</i>	32.98	
			<i>For Work In Restricted Working Space, Add</i>	17.99	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.99	
26 05 33	13-0947	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting	489.89	32.98
			<i>For Elevated Installation >10' To 15', Add</i>	6.60	
			<i>For Elevated Installation >15' To 20', Add</i>	13.19	
			<i>For Elevated Installation >20' To 25', Add</i>	16.49	
			<i>For Elevated Installation >25' To 30', Add</i>	23.08	
			<i>For Elevated Installation >30' To 35', Add</i>	26.38	
			<i>For Elevated Installation >35' To 40', Add</i>	32.98	
			<i>For Elevated Installation >40', Add</i>	36.27	
			<i>For Work In Restricted Working Space, Add</i>	19.79	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.79	
26 05 33	13-0948	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting	1,552.58	41.38
			<i>For Elevated Installation >10' To 15', Add</i>	8.27	
			<i>For Elevated Installation >15' To 20', Add</i>	16.55	
			<i>For Elevated Installation >20' To 25', Add</i>	20.69	
			<i>For Elevated Installation >25' To 30', Add</i>	28.96	
			<i>For Elevated Installation >30' To 35', Add</i>	33.10	
			<i>For Elevated Installation >35' To 40', Add</i>	41.37	
			<i>For Elevated Installation >40', Add</i>	45.51	
			<i>For Work In Restricted Working Space, Add</i>	24.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0949 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealight Fitting	1,811.41	56.36
<i>For Elevated Installation >10' To 15', Add</i>	11.27	
<i>For Elevated Installation >15' To 20', Add</i>	22.55	
<i>For Elevated Installation >20' To 25', Add</i>	28.18	
<i>For Elevated Installation >25' To 30', Add</i>	39.46	
<i>For Elevated Installation >30' To 35', Add</i>	45.09	
<i>For Elevated Installation >35' To 40', Add</i>	56.37	
<i>For Elevated Installation >40', Add</i>	62.00	
<i>For Work In Restricted Working Space, Add</i>	33.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.82	
26 05 33 13-0950 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealight Fitting	2,224.79	82.74
<i>For Elevated Installation >10' To 15', Add</i>	16.55	
<i>For Elevated Installation >15' To 20', Add</i>	33.10	
<i>For Elevated Installation >20' To 25', Add</i>	41.37	
<i>For Elevated Installation >25' To 30', Add</i>	57.92	
<i>For Elevated Installation >30' To 35', Add</i>	66.19	
<i>For Elevated Installation >35' To 40', Add</i>	82.74	
<i>For Elevated Installation >40', Add</i>	91.01	
<i>For Work In Restricted Working Space, Add</i>	49.64	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49.64	
26 05 33 13-0951 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fittings <small>(26 05 33 13-0797)</small>		
26 05 33 13-0952 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting	165.68	14.99
<i>For Elevated Installation >10' To 15', Add</i>	3.00	
<i>For Elevated Installation >15' To 20', Add</i>	6.00	
<i>For Elevated Installation >20' To 25', Add</i>	7.50	
<i>For Elevated Installation >25' To 30', Add</i>	10.49	
<i>For Elevated Installation >30' To 35', Add</i>	11.99	
<i>For Elevated Installation >35' To 40', Add</i>	14.99	
<i>For Elevated Installation >40', Add</i>	16.49	
<i>For Work In Restricted Working Space, Add</i>	8.99	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.99	
26 05 33 13-0953 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting	240.80	19.79
<i>For Elevated Installation >10' To 15', Add</i>	3.96	
<i>For Elevated Installation >15' To 20', Add</i>	7.91	
<i>For Elevated Installation >20' To 25', Add</i>	9.89	
<i>For Elevated Installation >25' To 30', Add</i>	13.85	
<i>For Elevated Installation >30' To 35', Add</i>	15.83	
<i>For Elevated Installation >35' To 40', Add</i>	19.79	
<i>For Elevated Installation >40', Add</i>	21.76	
<i>For Work In Restricted Working Space, Add</i>	11.87	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.87	
26 05 33 13-0954 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting	286.30	22.79
<i>For Elevated Installation >10' To 15', Add</i>	4.56	
<i>For Elevated Installation >15' To 20', Add</i>	9.11	
<i>For Elevated Installation >20' To 25', Add</i>	11.39	
<i>For Elevated Installation >25' To 30', Add</i>	15.95	
<i>For Elevated Installation >30' To 35', Add</i>	18.23	
<i>For Elevated Installation >35' To 40', Add</i>	22.79	
<i>For Elevated Installation >40', Add</i>	25.06	
<i>For Work In Restricted Working Space, Add</i>	13.67	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.67	
26 05 33 13-0955 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting	331.94	26.38
<i>For Elevated Installation >10' To 15', Add</i>	5.28	
<i>For Elevated Installation >15' To 20', Add</i>	10.55	
<i>For Elevated Installation >20' To 25', Add</i>	13.19	
<i>For Elevated Installation >25' To 30', Add</i>	18.47	
<i>For Elevated Installation >30' To 35', Add</i>	21.10	
<i>For Elevated Installation >35' To 40', Add</i>	26.38	
<i>For Elevated Installation >40', Add</i>	29.02	
<i>For Work In Restricted Working Space, Add</i>	15.83	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.83	
26 05 33 13-0956 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting	384.93	29.98
<i>For Elevated Installation >10' To 15', Add</i>	6.00	
<i>For Elevated Installation >15' To 20', Add</i>	11.99	
<i>For Elevated Installation >20' To 25', Add</i>	14.99	
<i>For Elevated Installation >25' To 30', Add</i>	20.99	
<i>For Elevated Installation >30' To 35', Add</i>	23.98	
<i>For Elevated Installation >35' To 40', Add</i>	29.98	
<i>For Elevated Installation >40', Add</i>	32.98	
<i>For Work In Restricted Working Space, Add</i>	17.99	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.99	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 05 33 13-0957	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting	608.93	32.98
			<i>For Elevated Installation >10' To 15', Add</i>	6.60	
			<i>For Elevated Installation >15' To 20', Add</i>	13.19	
			<i>For Elevated Installation >20' To 25', Add</i>	16.49	
			<i>For Elevated Installation >25' To 30', Add</i>	23.08	
			<i>For Elevated Installation >30' To 35', Add</i>	26.38	
			<i>For Elevated Installation >35' To 40', Add</i>	32.98	
			<i>For Elevated Installation >40', Add</i>	36.27	
			<i>For Work In Restricted Working Space, Add</i>	19.79	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.79	
26 05 33 13-0958	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting	1,732.19	41.38
			<i>For Elevated Installation >10' To 15', Add</i>	8.27	
			<i>For Elevated Installation >15' To 20', Add</i>	16.55	
			<i>For Elevated Installation >20' To 25', Add</i>	20.69	
			<i>For Elevated Installation >25' To 30', Add</i>	28.96	
			<i>For Elevated Installation >30' To 35', Add</i>	33.10	
			<i>For Elevated Installation >35' To 40', Add</i>	41.37	
			<i>For Elevated Installation >40', Add</i>	45.51	
			<i>For Work In Restricted Working Space, Add</i>	24.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.82	
26 05 33 13-0959	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting	2,438.47	56.36
			<i>For Elevated Installation >10' To 15', Add</i>	11.27	
			<i>For Elevated Installation >15' To 20', Add</i>	22.55	
			<i>For Elevated Installation >20' To 25', Add</i>	28.18	
			<i>For Elevated Installation >25' To 30', Add</i>	39.46	
			<i>For Elevated Installation >30' To 35', Add</i>	45.09	
			<i>For Elevated Installation >35' To 40', Add</i>	56.37	
			<i>For Elevated Installation >40', Add</i>	62.00	
			<i>For Work In Restricted Working Space, Add</i>	33.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.82	
26 05 33 13-0960	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting	2,542.23	82.74
			<i>For Elevated Installation >10' To 15', Add</i>	16.55	
			<i>For Elevated Installation >15' To 20', Add</i>	33.10	
			<i>For Elevated Installation >20' To 25', Add</i>	41.37	
			<i>For Elevated Installation >25' To 30', Add</i>	57.92	
			<i>For Elevated Installation >30' To 35', Add</i>	66.19	
			<i>For Elevated Installation >35' To 40', Add</i>	82.74	
			<i>For Elevated Installation >40', Add</i>	91.01	
			<i>For Work In Restricted Working Space, Add</i>	49.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49.64	

26 05 33 13-0961 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fittings (26 05 33 13-0797)

26 05 33 13-0962	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting	130.61	14.99
			<i>For Elevated Installation >10' To 15', Add</i>	3.00	
			<i>For Elevated Installation >15' To 20', Add</i>	6.00	
			<i>For Elevated Installation >20' To 25', Add</i>	7.50	
			<i>For Elevated Installation >25' To 30', Add</i>	10.49	
			<i>For Elevated Installation >30' To 35', Add</i>	11.99	
			<i>For Elevated Installation >35' To 40', Add</i>	14.99	
			<i>For Elevated Installation >40', Add</i>	16.49	
			<i>For Work In Restricted Working Space, Add</i>	8.99	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.99	
26 05 33 13-0963	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting	164.65	19.79
			<i>For Elevated Installation >10' To 15', Add</i>	3.96	
			<i>For Elevated Installation >15' To 20', Add</i>	7.91	
			<i>For Elevated Installation >20' To 25', Add</i>	9.89	
			<i>For Elevated Installation >25' To 30', Add</i>	13.85	
			<i>For Elevated Installation >30' To 35', Add</i>	15.83	
			<i>For Elevated Installation >35' To 40', Add</i>	19.79	
			<i>For Elevated Installation >40', Add</i>	21.76	
			<i>For Work In Restricted Working Space, Add</i>	11.87	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.87	
26 05 33 13-0964	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting	197.42	22.79
			<i>For Elevated Installation >10' To 15', Add</i>	4.56	
			<i>For Elevated Installation >15' To 20', Add</i>	9.11	
			<i>For Elevated Installation >20' To 25', Add</i>	11.39	
			<i>For Elevated Installation >25' To 30', Add</i>	15.95	
			<i>For Elevated Installation >30' To 35', Add</i>	18.23	
			<i>For Elevated Installation >35' To 40', Add</i>	22.79	
			<i>For Elevated Installation >40', Add</i>	25.06	
			<i>For Work In Restricted Working Space, Add</i>	13.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0965 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting	218.56	26.38
<i>For Elevated Installation >10' To 15', Add</i>	5.28	
<i>For Elevated Installation >15' To 20', Add</i>	10.55	
<i>For Elevated Installation >20' To 25', Add</i>	13.19	
<i>For Elevated Installation >25' To 30', Add</i>	18.47	
<i>For Elevated Installation >30' To 35', Add</i>	21.10	
<i>For Elevated Installation >35' To 40', Add</i>	26.38	
<i>For Elevated Installation >40', Add</i>	29.02	
<i>For Work In Restricted Working Space, Add</i>	15.83	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.83	
26 05 33 13-0966 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting	295.28	29.98
<i>For Elevated Installation >10' To 15', Add</i>	6.00	
<i>For Elevated Installation >15' To 20', Add</i>	11.99	
<i>For Elevated Installation >20' To 25', Add</i>	14.99	
<i>For Elevated Installation >25' To 30', Add</i>	20.99	
<i>For Elevated Installation >30' To 35', Add</i>	23.98	
<i>For Elevated Installation >35' To 40', Add</i>	29.98	
<i>For Elevated Installation >40', Add</i>	32.98	
<i>For Work In Restricted Working Space, Add</i>	17.99	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.99	
26 05 33 13-0967 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting	418.94	32.98
<i>For Elevated Installation >10' To 15', Add</i>	6.60	
<i>For Elevated Installation >15' To 20', Add</i>	13.19	
<i>For Elevated Installation >20' To 25', Add</i>	16.49	
<i>For Elevated Installation >25' To 30', Add</i>	23.08	
<i>For Elevated Installation >30' To 35', Add</i>	26.38	
<i>For Elevated Installation >35' To 40', Add</i>	32.98	
<i>For Elevated Installation >40', Add</i>	36.27	
<i>For Work In Restricted Working Space, Add</i>	19.79	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.79	
26 05 33 13-0968 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting	1,403.82	41.38
<i>For Elevated Installation >10' To 15', Add</i>	8.27	
<i>For Elevated Installation >15' To 20', Add</i>	16.55	
<i>For Elevated Installation >20' To 25', Add</i>	20.69	
<i>For Elevated Installation >25' To 30', Add</i>	28.96	
<i>For Elevated Installation >30' To 35', Add</i>	33.10	
<i>For Elevated Installation >35' To 40', Add</i>	41.37	
<i>For Elevated Installation >40', Add</i>	45.51	
<i>For Work In Restricted Working Space, Add</i>	24.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.82	
26 05 33 13-0969 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting	1,578.80	56.36
<i>For Elevated Installation >10' To 15', Add</i>	11.27	
<i>For Elevated Installation >15' To 20', Add</i>	22.55	
<i>For Elevated Installation >20' To 25', Add</i>	28.18	
<i>For Elevated Installation >25' To 30', Add</i>	39.46	
<i>For Elevated Installation >30' To 35', Add</i>	45.09	
<i>For Elevated Installation >35' To 40', Add</i>	56.37	
<i>For Elevated Installation >40', Add</i>	62.00	
<i>For Work In Restricted Working Space, Add</i>	33.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.82	
26 05 33 13-0970 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting	1,873.58	82.74
<i>For Elevated Installation >10' To 15', Add</i>	16.55	
<i>For Elevated Installation >15' To 20', Add</i>	33.10	
<i>For Elevated Installation >20' To 25', Add</i>	41.37	
<i>For Elevated Installation >25' To 30', Add</i>	57.92	
<i>For Elevated Installation >30' To 35', Add</i>	66.19	
<i>For Elevated Installation >35' To 40', Add</i>	82.74	
<i>For Elevated Installation >40', Add</i>	91.01	
<i>For Work In Restricted Working Space, Add</i>	49.64	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49.64	
26 05 33 13-0971 Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <small>(26 05 33 13-0797)</small>		
Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-0972 EA 1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	115.70	28.78
<i>For Elevated Installation >10' To 15', Add</i>	5.76	
<i>For Elevated Installation >15' To 20', Add</i>	11.51	
<i>For Elevated Installation >20' To 25', Add</i>	14.39	
<i>For Elevated Installation >25' To 30', Add</i>	20.15	
<i>For Elevated Installation >30' To 35', Add</i>	23.03	
<i>For Elevated Installation >35' To 40', Add</i>	28.79	
<i>For Elevated Installation >40', Add</i>	31.66	
<i>For Work In Restricted Working Space, Add</i>	17.27	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.27	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0973	EA	3/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	130.41	32.98
			<i>For Elevated Installation >10' To 15', Add</i>	6.60	
			<i>For Elevated Installation >15' To 20', Add</i>	13.19	
			<i>For Elevated Installation >20' To 25', Add</i>	16.49	
			<i>For Elevated Installation >25' To 30', Add</i>	23.08	
			<i>For Elevated Installation >30' To 35', Add</i>	26.38	
			<i>For Elevated Installation >35' To 40', Add</i>	32.98	
			<i>For Elevated Installation >40', Add</i>	36.27	
			<i>For Work In Restricted Working Space, Add</i>	19.79	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.79	
26 05 33	13-0974	EA	1" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	161.80	37.78
			<i>For Elevated Installation >10' To 15', Add</i>	7.56	
			<i>For Elevated Installation >15' To 20', Add</i>	15.11	
			<i>For Elevated Installation >20' To 25', Add</i>	18.89	
			<i>For Elevated Installation >25' To 30', Add</i>	26.44	
			<i>For Elevated Installation >30' To 35', Add</i>	30.22	
			<i>For Elevated Installation >35' To 40', Add</i>	37.78	
			<i>For Elevated Installation >40', Add</i>	41.55	
			<i>For Work In Restricted Working Space, Add</i>	22.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.67	
26 05 33	13-0975	EA	1-1/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	212.74	43.77
			<i>For Elevated Installation >10' To 15', Add</i>	8.75	
			<i>For Elevated Installation >15' To 20', Add</i>	17.51	
			<i>For Elevated Installation >20' To 25', Add</i>	21.89	
			<i>For Elevated Installation >25' To 30', Add</i>	30.64	
			<i>For Elevated Installation >30' To 35', Add</i>	35.02	
			<i>For Elevated Installation >35' To 40', Add</i>	43.77	
			<i>For Elevated Installation >40', Add</i>	48.15	
			<i>For Work In Restricted Working Space, Add</i>	26.26	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.26	
26 05 33	13-0976	EA	1-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	248.81	47.97
			<i>For Elevated Installation >10' To 15', Add</i>	9.59	
			<i>For Elevated Installation >15' To 20', Add</i>	19.19	
			<i>For Elevated Installation >20' To 25', Add</i>	23.98	
			<i>For Elevated Installation >25' To 30', Add</i>	33.58	
			<i>For Elevated Installation >30' To 35', Add</i>	38.37	
			<i>For Elevated Installation >35' To 40', Add</i>	47.97	
			<i>For Elevated Installation >40', Add</i>	52.76	
			<i>For Work In Restricted Working Space, Add</i>	28.78	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.78	
26 05 33	13-0977	EA	2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	340.52	57.57
			<i>For Elevated Installation >10' To 15', Add</i>	11.51	
			<i>For Elevated Installation >15' To 20', Add</i>	23.03	
			<i>For Elevated Installation >20' To 25', Add</i>	28.78	
			<i>For Elevated Installation >25' To 30', Add</i>	40.30	
			<i>For Elevated Installation >30' To 35', Add</i>	46.05	
			<i>For Elevated Installation >35' To 40', Add</i>	57.57	
			<i>For Elevated Installation >40', Add</i>	63.32	
			<i>For Work In Restricted Working Space, Add</i>	34.54	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.54	
26 05 33	13-0978	EA	2-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	575.53	80.95
			<i>For Elevated Installation >10' To 15', Add</i>	16.19	
			<i>For Elevated Installation >15' To 20', Add</i>	32.38	
			<i>For Elevated Installation >20' To 25', Add</i>	40.48	
			<i>For Elevated Installation >25' To 30', Add</i>	56.67	
			<i>For Elevated Installation >30' To 35', Add</i>	64.76	
			<i>For Elevated Installation >35' To 40', Add</i>	80.95	
			<i>For Elevated Installation >40', Add</i>	89.05	
			<i>For Work In Restricted Working Space, Add</i>	48.57	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.57	
26 05 33	13-0979	EA	3" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	736.19	107.93
			<i>For Elevated Installation >10' To 15', Add</i>	21.59	
			<i>For Elevated Installation >15' To 20', Add</i>	43.17	
			<i>For Elevated Installation >20' To 25', Add</i>	53.97	
			<i>For Elevated Installation >25' To 30', Add</i>	75.55	
			<i>For Elevated Installation >30' To 35', Add</i>	86.35	
			<i>For Elevated Installation >35' To 40', Add</i>	107.94	
			<i>For Elevated Installation >40', Add</i>	118.73	
			<i>For Work In Restricted Working Space, Add</i>	64.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	64.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0980 EA 3-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	1,025.80	134.91
<i>For Elevated Installation >10' To 15', Add</i>	26.98	
<i>For Elevated Installation >15' To 20', Add</i>	53.96	
<i>For Elevated Installation >20' To 25', Add</i>	67.46	
<i>For Elevated Installation >25' To 30', Add</i>	94.44	
<i>For Elevated Installation >30' To 35', Add</i>	107.93	
<i>For Elevated Installation >35' To 40', Add</i>	134.91	
<i>For Elevated Installation >40', Add</i>	148.40	
<i>For Work In Restricted Working Space, Add</i>	80.95	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	80.95	
26 05 33 13-0981 EA 4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	1,175.99	164.29
<i>For Elevated Installation >10' To 15', Add</i>	32.86	
<i>For Elevated Installation >15' To 20', Add</i>	65.72	
<i>For Elevated Installation >20' To 25', Add</i>	82.15	
<i>For Elevated Installation >25' To 30', Add</i>	115.01	
<i>For Elevated Installation >30' To 35', Add</i>	131.44	
<i>For Elevated Installation >35' To 40', Add</i>	164.30	
<i>For Elevated Installation >40', Add</i>	180.72	
<i>For Work In Restricted Working Space, Add</i>	98.58	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	98.58	
26 05 33 13-0982 Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <small>(26 05 33 13-0797)</small>		
<i>Note: Suitable for use in hazardous locations. Class I, Div 2.</i>		
26 05 33 13-0983 EA 1/2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	151.13	37.78
<i>For Elevated Installation >10' To 15', Add</i>	7.56	
<i>For Elevated Installation >15' To 20', Add</i>	15.11	
<i>For Elevated Installation >20' To 25', Add</i>	18.89	
<i>For Elevated Installation >25' To 30', Add</i>	26.44	
<i>For Elevated Installation >30' To 35', Add</i>	30.22	
<i>For Elevated Installation >35' To 40', Add</i>	37.78	
<i>For Elevated Installation >40', Add</i>	41.55	
<i>For Work In Restricted Working Space, Add</i>	22.67	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.67	
26 05 33 13-0984 EA 3/4" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	172.45	41.97
<i>For Elevated Installation >10' To 15', Add</i>	8.40	
<i>For Elevated Installation >15' To 20', Add</i>	16.79	
<i>For Elevated Installation >20' To 25', Add</i>	20.99	
<i>For Elevated Installation >25' To 30', Add</i>	29.38	
<i>For Elevated Installation >30' To 35', Add</i>	33.58	
<i>For Elevated Installation >35' To 40', Add</i>	41.98	
<i>For Elevated Installation >40', Add</i>	46.17	
<i>For Work In Restricted Working Space, Add</i>	25.19	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.19	
26 05 33 13-0985 EA 1" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	211.54	46.17
<i>For Elevated Installation >10' To 15', Add</i>	9.23	
<i>For Elevated Installation >15' To 20', Add</i>	18.47	
<i>For Elevated Installation >20' To 25', Add</i>	23.09	
<i>For Elevated Installation >25' To 30', Add</i>	32.32	
<i>For Elevated Installation >30' To 35', Add</i>	36.94	
<i>For Elevated Installation >35' To 40', Add</i>	46.17	
<i>For Elevated Installation >40', Add</i>	50.79	
<i>For Work In Restricted Working Space, Add</i>	27.70	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.70	
26 05 33 13-0986 EA 1-1/4" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	286.15	52.76
<i>For Elevated Installation >10' To 15', Add</i>	10.55	
<i>For Elevated Installation >15' To 20', Add</i>	21.11	
<i>For Elevated Installation >20' To 25', Add</i>	26.38	
<i>For Elevated Installation >25' To 30', Add</i>	36.94	
<i>For Elevated Installation >30' To 35', Add</i>	42.21	
<i>For Elevated Installation >35' To 40', Add</i>	52.77	
<i>For Elevated Installation >40', Add</i>	58.04	
<i>For Work In Restricted Working Space, Add</i>	31.66	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.66	
26 05 33 13-0987 EA 1-1/2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	339.00	57.57
<i>For Elevated Installation >10' To 15', Add</i>	11.51	
<i>For Elevated Installation >15' To 20', Add</i>	23.02	
<i>For Elevated Installation >20' To 25', Add</i>	28.78	
<i>For Elevated Installation >25' To 30', Add</i>	40.29	
<i>For Elevated Installation >30' To 35', Add</i>	46.05	
<i>For Elevated Installation >35' To 40', Add</i>	57.56	
<i>For Elevated Installation >40', Add</i>	63.32	
<i>For Work In Restricted Working Space, Add</i>	34.54	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.54	
26 05 33 13-0988 EA 2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	463.10	70.76
<i>For Elevated Installation >10' To 15', Add</i>	14.15	
<i>For Elevated Installation >15' To 20', Add</i>	28.30	
<i>For Elevated Installation >20' To 25', Add</i>	35.38	
<i>For Elevated Installation >25' To 30', Add</i>	49.53	
<i>For Elevated Installation >30' To 35', Add</i>	56.60	
<i>For Elevated Installation >35' To 40', Add</i>	70.76	
<i>For Elevated Installation >40', Add</i>	77.83	
<i>For Work In Restricted Working Space, Add</i>	42.45	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.45	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0989			Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <small>(26 05 33 13-0797)</small> Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-0990	EA		1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....133.05	133.05	32.98
			<i>For Elevated Installation >10' To 15', Add</i> 6.60	6.60	
			<i>For Elevated Installation >15' To 20', Add</i> 13.19	13.19	
			<i>For Elevated Installation >20' To 25', Add</i> 16.49	16.49	
			<i>For Elevated Installation >25' To 30', Add</i> 23.09	23.09	
			<i>For Elevated Installation >30' To 35', Add</i> 26.38	26.38	
			<i>For Elevated Installation >35' To 40', Add</i> 32.98	32.98	
			<i>For Elevated Installation >40', Add</i> 36.28	36.28	
			<i>For Work In Restricted Working Space, Add</i> 19.79	19.79	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 19.79	19.79	
26 05 33 13-0991	EA		3/4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....151.68	151.68	38.38
			<i>For Elevated Installation >10' To 15', Add</i> 7.68	7.68	
			<i>For Elevated Installation >15' To 20', Add</i> 15.35	15.35	
			<i>For Elevated Installation >20' To 25', Add</i> 19.19	19.19	
			<i>For Elevated Installation >25' To 30', Add</i> 26.86	26.86	
			<i>For Elevated Installation >30' To 35', Add</i> 30.70	30.70	
			<i>For Elevated Installation >35' To 40', Add</i> 38.38	38.38	
			<i>For Elevated Installation >40', Add</i> 42.21	42.21	
			<i>For Work In Restricted Working Space, Add</i> 23.03	23.03	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 23.03	23.03	
26 05 33 13-0992	EA		1" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....184.34	184.34	41.97
			<i>For Elevated Installation >10' To 15', Add</i> 8.40	8.40	
			<i>For Elevated Installation >15' To 20', Add</i> 16.79	16.79	
			<i>For Elevated Installation >20' To 25', Add</i> 20.99	20.99	
			<i>For Elevated Installation >25' To 30', Add</i> 29.38	29.38	
			<i>For Elevated Installation >30' To 35', Add</i> 33.58	33.58	
			<i>For Elevated Installation >35' To 40', Add</i> 41.98	41.98	
			<i>For Elevated Installation >40', Add</i> 46.17	46.17	
			<i>For Work In Restricted Working Space, Add</i> 25.19	25.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 25.19	25.19	
26 05 33 13-0993	EA		1-1/4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....237.27	237.27	47.97
			<i>For Elevated Installation >10' To 15', Add</i> 9.59	9.59	
			<i>For Elevated Installation >15' To 20', Add</i> 19.19	19.19	
			<i>For Elevated Installation >20' To 25', Add</i> 23.99	23.99	
			<i>For Elevated Installation >25' To 30', Add</i> 33.58	33.58	
			<i>For Elevated Installation >30' To 35', Add</i> 38.38	38.38	
			<i>For Elevated Installation >35' To 40', Add</i> 47.97	47.97	
			<i>For Elevated Installation >40', Add</i> 52.77	52.77	
			<i>For Work In Restricted Working Space, Add</i> 28.78	28.78	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 28.78	28.78	
26 05 33 13-0994	EA		1-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....282.02	282.02	52.76
			<i>For Elevated Installation >10' To 15', Add</i> 10.55	10.55	
			<i>For Elevated Installation >15' To 20', Add</i> 21.11	21.11	
			<i>For Elevated Installation >20' To 25', Add</i> 26.38	26.38	
			<i>For Elevated Installation >25' To 30', Add</i> 36.94	36.94	
			<i>For Elevated Installation >30' To 35', Add</i> 42.21	42.21	
			<i>For Elevated Installation >35' To 40', Add</i> 52.77	52.77	
			<i>For Elevated Installation >40', Add</i> 58.04	58.04	
			<i>For Work In Restricted Working Space, Add</i> 31.66	31.66	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 31.66	31.66	
26 05 33 13-0995	EA		2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....379.81	379.81	61.76
			<i>For Elevated Installation >10' To 15', Add</i> 12.35	12.35	
			<i>For Elevated Installation >15' To 20', Add</i> 24.70	24.70	
			<i>For Elevated Installation >20' To 25', Add</i> 30.88	30.88	
			<i>For Elevated Installation >25' To 30', Add</i> 43.23	43.23	
			<i>For Elevated Installation >30' To 35', Add</i> 49.41	49.41	
			<i>For Elevated Installation >35' To 40', Add</i> 61.76	61.76	
			<i>For Elevated Installation >40', Add</i> 67.94	67.94	
			<i>For Work In Restricted Working Space, Add</i> 37.06	37.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 37.06	37.06	
26 05 33 13-0996	EA		2-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....612.82	612.82	89.94
			<i>For Elevated Installation >10' To 15', Add</i> 17.99	17.99	
			<i>For Elevated Installation >15' To 20', Add</i> 35.98	35.98	
			<i>For Elevated Installation >20' To 25', Add</i> 44.97	44.97	
			<i>For Elevated Installation >25' To 30', Add</i> 62.96	62.96	
			<i>For Elevated Installation >30' To 35', Add</i> 71.96	71.96	
			<i>For Elevated Installation >35' To 40', Add</i> 89.95	89.95	
			<i>For Elevated Installation >40', Add</i> 98.94	98.94	
			<i>For Work In Restricted Working Space, Add</i> 53.97	53.97	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 53.97	53.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0997 EA 3" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	811.55	116.93
For Elevated Installation >10' To 15', Add	23.38	
For Elevated Installation >15' To 20', Add	46.77	
For Elevated Installation >20' To 25', Add	58.46	
For Elevated Installation >25' To 30', Add	81.84	
For Elevated Installation >30' To 35', Add	93.54	
For Elevated Installation >35' To 40', Add	116.92	
For Elevated Installation >40', Add	128.61	
For Work In Restricted Working Space, Add	70.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	70.15	
26 05 33 13-0998 EA 3-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,118.17	143.91
For Elevated Installation >10' To 15', Add	28.78	
For Elevated Installation >15' To 20', Add	57.56	
For Elevated Installation >20' To 25', Add	71.95	
For Elevated Installation >25' To 30', Add	100.73	
For Elevated Installation >30' To 35', Add	115.12	
For Elevated Installation >35' To 40', Add	143.91	
For Elevated Installation >40', Add	158.30	
For Work In Restricted Working Space, Add	86.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	86.34	
26 05 33 13-0999 EA 4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,247.42	173.29
For Elevated Installation >10' To 15', Add	34.66	
For Elevated Installation >15' To 20', Add	69.32	
For Elevated Installation >20' To 25', Add	86.65	
For Elevated Installation >25' To 30', Add	121.31	
For Elevated Installation >30' To 35', Add	138.64	
For Elevated Installation >35' To 40', Add	173.30	
For Elevated Installation >40', Add	190.62	
For Work In Restricted Working Space, Add	103.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	103.98	
26 05 33 13-1000 Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined <small>(26 05 33 13-0797)</small>		
26 05 33 13-1001 EA 1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	27.80	3.60
For Elevated Installation >10' To 15', Add	0.72	
For Elevated Installation >15' To 20', Add	1.44	
For Elevated Installation >20' To 25', Add	1.80	
For Elevated Installation >25' To 30', Add	2.52	
For Elevated Installation >30' To 35', Add	2.88	
For Elevated Installation >35' To 40', Add	3.60	
For Elevated Installation >40', Add	3.95	
For Work In Restricted Working Space, Add	2.16	
26 05 33 13-1002 EA 3/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	31.17	4.19
For Elevated Installation >10' To 15', Add	0.84	
For Elevated Installation >15' To 20', Add	1.68	
For Elevated Installation >20' To 25', Add	2.10	
For Elevated Installation >25' To 30', Add	2.94	
For Elevated Installation >30' To 35', Add	3.36	
For Elevated Installation >35' To 40', Add	4.20	
For Elevated Installation >40', Add	4.62	
For Work In Restricted Working Space, Add	2.52	
26 05 33 13-1003 EA 1" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	40.66	5.40
For Elevated Installation >10' To 15', Add	1.08	
For Elevated Installation >15' To 20', Add	2.16	
For Elevated Installation >20' To 25', Add	2.70	
For Elevated Installation >25' To 30', Add	3.78	
For Elevated Installation >30' To 35', Add	4.32	
For Elevated Installation >35' To 40', Add	5.40	
For Elevated Installation >40', Add	5.93	
For Work In Restricted Working Space, Add	3.24	
26 05 33 13-1004 EA 1-1/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	52.36	6.60
For Elevated Installation >10' To 15', Add	1.32	
For Elevated Installation >15' To 20', Add	2.64	
For Elevated Installation >20' To 25', Add	3.30	
For Elevated Installation >25' To 30', Add	4.62	
For Elevated Installation >30' To 35', Add	5.28	
For Elevated Installation >35' To 40', Add	6.60	
For Elevated Installation >40', Add	7.25	
For Work In Restricted Working Space, Add	3.96	
26 05 33 13-1005 EA 1-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	58.54	7.79
For Elevated Installation >10' To 15', Add	1.56	
For Elevated Installation >15' To 20', Add	3.12	
For Elevated Installation >20' To 25', Add	3.90	
For Elevated Installation >25' To 30', Add	5.46	
For Elevated Installation >30' To 35', Add	6.24	
For Elevated Installation >35' To 40', Add	7.80	
For Elevated Installation >40', Add	8.57	
For Work In Restricted Working Space, Add	4.68	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1006	EA		2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	72.58	9.00
			<i>For Elevated Installation >10' To 15', Add</i>	1.80	
			<i>For Elevated Installation >15' To 20', Add</i>	3.60	
			<i>For Elevated Installation >20' To 25', Add</i>	4.50	
			<i>For Elevated Installation >25' To 30', Add</i>	6.29	
			<i>For Elevated Installation >30' To 35', Add</i>	7.19	
			<i>For Elevated Installation >35' To 40', Add</i>	8.99	
			<i>For Elevated Installation >40', Add</i>	9.89	
			<i>For Work In Restricted Working Space, Add</i>	5.39	
26 05 33 13-1007	EA		2-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	94.21	10.19
			<i>For Elevated Installation >10' To 15', Add</i>	2.04	
			<i>For Elevated Installation >15' To 20', Add</i>	4.08	
			<i>For Elevated Installation >20' To 25', Add</i>	5.10	
			<i>For Elevated Installation >25' To 30', Add</i>	7.13	
			<i>For Elevated Installation >30' To 35', Add</i>	8.15	
			<i>For Elevated Installation >35' To 40', Add</i>	10.19	
			<i>For Elevated Installation >40', Add</i>	11.21	
			<i>For Work In Restricted Working Space, Add</i>	6.11	
26 05 33 13-1008	EA		3" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	102.61	14.39
			<i>For Elevated Installation >10' To 15', Add</i>	2.88	
			<i>For Elevated Installation >15' To 20', Add</i>	5.76	
			<i>For Elevated Installation >20' To 25', Add</i>	7.20	
			<i>For Elevated Installation >25' To 30', Add</i>	10.07	
			<i>For Elevated Installation >30' To 35', Add</i>	11.51	
			<i>For Elevated Installation >35' To 40', Add</i>	14.39	
			<i>For Elevated Installation >40', Add</i>	15.83	
			<i>For Work In Restricted Working Space, Add</i>	8.63	
26 05 33 13-1009	EA		3-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	124.95	16.19
			<i>For Elevated Installation >10' To 15', Add</i>	3.24	
			<i>For Elevated Installation >15' To 20', Add</i>	6.48	
			<i>For Elevated Installation >20' To 25', Add</i>	8.10	
			<i>For Elevated Installation >25' To 30', Add</i>	11.33	
			<i>For Elevated Installation >30' To 35', Add</i>	12.95	
			<i>For Elevated Installation >35' To 40', Add</i>	16.19	
			<i>For Elevated Installation >40', Add</i>	17.81	
			<i>For Work In Restricted Working Space, Add</i>	9.71	
26 05 33 13-1010	EA		4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	133.34	20.38
			<i>For Elevated Installation >10' To 15', Add</i>	4.08	
			<i>For Elevated Installation >15' To 20', Add</i>	8.15	
			<i>For Elevated Installation >20' To 25', Add</i>	10.19	
			<i>For Elevated Installation >25' To 30', Add</i>	14.27	
			<i>For Elevated Installation >30' To 35', Add</i>	16.31	
			<i>For Elevated Installation >35' To 40', Add</i>	20.39	
			<i>For Elevated Installation >40', Add</i>	22.42	
			<i>For Work In Restricted Working Space, Add</i>	12.23	
26 05 33 13-1011			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Bodies <small>(26 05 33 13-0797)</small>		
26 05 33 13-1012	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	131.33	28.78
			<i>For Elevated Installation >10' To 15', Add</i>	5.76	
			<i>For Elevated Installation >15' To 20', Add</i>	11.51	
			<i>For Elevated Installation >20' To 25', Add</i>	14.39	
			<i>For Elevated Installation >25' To 30', Add</i>	20.15	
			<i>For Elevated Installation >30' To 35', Add</i>	23.03	
			<i>For Elevated Installation >35' To 40', Add</i>	28.79	
			<i>For Elevated Installation >40', Add</i>	31.66	
			<i>For Work In Restricted Working Space, Add</i>	17.27	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.27	
26 05 33 13-1013	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	145.28	32.98
			<i>For Elevated Installation >10' To 15', Add</i>	6.60	
			<i>For Elevated Installation >15' To 20', Add</i>	13.19	
			<i>For Elevated Installation >20' To 25', Add</i>	16.49	
			<i>For Elevated Installation >25' To 30', Add</i>	23.09	
			<i>For Elevated Installation >30' To 35', Add</i>	26.38	
			<i>For Elevated Installation >35' To 40', Add</i>	32.98	
			<i>For Elevated Installation >40', Add</i>	36.28	
			<i>For Work In Restricted Working Space, Add</i>	19.79	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.79	
26 05 33 13-1014	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	169.78	37.78
			<i>For Elevated Installation >10' To 15', Add</i>	7.56	
			<i>For Elevated Installation >15' To 20', Add</i>	15.11	
			<i>For Elevated Installation >20' To 25', Add</i>	18.89	
			<i>For Elevated Installation >25' To 30', Add</i>	26.44	
			<i>For Elevated Installation >30' To 35', Add</i>	30.22	
			<i>For Elevated Installation >35' To 40', Add</i>	37.78	
			<i>For Elevated Installation >40', Add</i>	41.55	
			<i>For Work In Restricted Working Space, Add</i>	22.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1015 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	201.67	43.77
<i>For Elevated Installation >10' To 15', Add</i>	8.76	
<i>For Elevated Installation >15' To 20', Add</i>	17.51	
<i>For Elevated Installation >20' To 25', Add</i>	21.89	
<i>For Elevated Installation >25' To 30', Add</i>	30.64	
<i>For Elevated Installation >30' To 35', Add</i>	35.02	
<i>For Elevated Installation >35' To 40', Add</i>	43.78	
<i>For Elevated Installation >40', Add</i>	48.15	
<i>For Work In Restricted Working Space, Add</i>	26.27	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.27	
26 05 33 13-1016 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	251.94	47.97
<i>For Elevated Installation >10' To 15', Add</i>	9.59	
<i>For Elevated Installation >15' To 20', Add</i>	19.19	
<i>For Elevated Installation >20' To 25', Add</i>	23.99	
<i>For Elevated Installation >25' To 30', Add</i>	33.58	
<i>For Elevated Installation >30' To 35', Add</i>	38.38	
<i>For Elevated Installation >35' To 40', Add</i>	47.97	
<i>For Elevated Installation >40', Add</i>	52.77	
<i>For Work In Restricted Working Space, Add</i>	28.78	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.78	
26 05 33 13-1017 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	305.40	57.57
<i>For Elevated Installation >10' To 15', Add</i>	11.51	
<i>For Elevated Installation >15' To 20', Add</i>	23.02	
<i>For Elevated Installation >20' To 25', Add</i>	28.78	
<i>For Elevated Installation >25' To 30', Add</i>	40.29	
<i>For Elevated Installation >30' To 35', Add</i>	46.05	
<i>For Elevated Installation >35' To 40', Add</i>	57.56	
<i>For Elevated Installation >40', Add</i>	63.32	
<i>For Work In Restricted Working Space, Add</i>	34.54	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.54	
26 05 33 13-1018 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	442.61	80.95
<i>For Elevated Installation >10' To 15', Add</i>	16.19	
<i>For Elevated Installation >15' To 20', Add</i>	32.38	
<i>For Elevated Installation >20' To 25', Add</i>	40.47	
<i>For Elevated Installation >25' To 30', Add</i>	56.66	
<i>For Elevated Installation >30' To 35', Add</i>	64.76	
<i>For Elevated Installation >35' To 40', Add</i>	80.95	
<i>For Elevated Installation >40', Add</i>	89.04	
<i>For Work In Restricted Working Space, Add</i>	48.57	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.57	
26 05 33 13-1019 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	566.95	107.93
<i>For Elevated Installation >10' To 15', Add</i>	21.59	
<i>For Elevated Installation >15' To 20', Add</i>	43.17	
<i>For Elevated Installation >20' To 25', Add</i>	53.97	
<i>For Elevated Installation >25' To 30', Add</i>	75.55	
<i>For Elevated Installation >30' To 35', Add</i>	86.34	
<i>For Elevated Installation >35' To 40', Add</i>	107.93	
<i>For Elevated Installation >40', Add</i>	118.72	
<i>For Work In Restricted Working Space, Add</i>	64.76	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	64.76	
26 05 33 13-1020 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	1,145.65	134.91
<i>For Elevated Installation >10' To 15', Add</i>	26.98	
<i>For Elevated Installation >15' To 20', Add</i>	53.96	
<i>For Elevated Installation >20' To 25', Add</i>	67.46	
<i>For Elevated Installation >25' To 30', Add</i>	94.44	
<i>For Elevated Installation >30' To 35', Add</i>	107.93	
<i>For Elevated Installation >35' To 40', Add</i>	134.91	
<i>For Elevated Installation >40', Add</i>	148.40	
<i>For Work In Restricted Working Space, Add</i>	80.95	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	80.95	
26 05 33 13-1021 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	1,682.43	164.29
<i>For Elevated Installation >10' To 15', Add</i>	32.86	
<i>For Elevated Installation >15' To 20', Add</i>	65.72	
<i>For Elevated Installation >20' To 25', Add</i>	82.15	
<i>For Elevated Installation >25' To 30', Add</i>	115.01	
<i>For Elevated Installation >30' To 35', Add</i>	131.44	
<i>For Elevated Installation >35' To 40', Add</i>	164.30	
<i>For Elevated Installation >40', Add</i>	180.72	
<i>For Work In Restricted Working Space, Add</i>	98.58	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	98.58	

26 05 33 13-1022 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Bodies (26 05 33 13-0797)

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1023 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	227.33	28.78
For Elevated Installation >10' To 15', Add	5.76	
For Elevated Installation >15' To 20', Add	11.51	
For Elevated Installation >20' To 25', Add	14.39	
For Elevated Installation >25' To 30', Add	20.15	
For Elevated Installation >30' To 35', Add	23.03	
For Elevated Installation >35' To 40', Add	28.79	
For Elevated Installation >40', Add	31.66	
For Work In Restricted Working Space, Add	17.27	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.27	
26 05 33 13-1024 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	244.54	32.98
For Elevated Installation >10' To 15', Add	6.60	
For Elevated Installation >15' To 20', Add	13.19	
For Elevated Installation >20' To 25', Add	16.49	
For Elevated Installation >25' To 30', Add	23.09	
For Elevated Installation >30' To 35', Add	26.38	
For Elevated Installation >35' To 40', Add	32.98	
For Elevated Installation >40', Add	36.28	
For Work In Restricted Working Space, Add	19.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.79	
26 05 33 13-1025 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	279.23	37.78
For Elevated Installation >10' To 15', Add	7.56	
For Elevated Installation >15' To 20', Add	15.11	
For Elevated Installation >20' To 25', Add	18.89	
For Elevated Installation >25' To 30', Add	26.44	
For Elevated Installation >30' To 35', Add	30.22	
For Elevated Installation >35' To 40', Add	37.78	
For Elevated Installation >40', Add	41.55	
For Work In Restricted Working Space, Add	22.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.67	
26 05 33 13-1026 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	312.37	43.77
For Elevated Installation >10' To 15', Add	8.76	
For Elevated Installation >15' To 20', Add	17.51	
For Elevated Installation >20' To 25', Add	21.89	
For Elevated Installation >25' To 30', Add	30.64	
For Elevated Installation >30' To 35', Add	35.02	
For Elevated Installation >35' To 40', Add	43.78	
For Elevated Installation >40', Add	48.15	
For Work In Restricted Working Space, Add	26.27	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.27	
26 05 33 13-1027 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	379.36	47.97
For Elevated Installation >10' To 15', Add	9.59	
For Elevated Installation >15' To 20', Add	19.19	
For Elevated Installation >20' To 25', Add	23.99	
For Elevated Installation >25' To 30', Add	33.58	
For Elevated Installation >30' To 35', Add	38.38	
For Elevated Installation >35' To 40', Add	47.97	
For Elevated Installation >40', Add	52.77	
For Work In Restricted Working Space, Add	28.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.78	
26 05 33 13-1028 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	426.61	57.57
For Elevated Installation >10' To 15', Add	11.51	
For Elevated Installation >15' To 20', Add	23.02	
For Elevated Installation >20' To 25', Add	28.78	
For Elevated Installation >25' To 30', Add	40.29	
For Elevated Installation >30' To 35', Add	46.05	
For Elevated Installation >35' To 40', Add	57.56	
For Elevated Installation >40', Add	63.32	
For Work In Restricted Working Space, Add	34.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.54	
26 05 33 13-1029 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	600.21	80.95
For Elevated Installation >10' To 15', Add	16.19	
For Elevated Installation >15' To 20', Add	32.38	
For Elevated Installation >20' To 25', Add	40.47	
For Elevated Installation >25' To 30', Add	56.66	
For Elevated Installation >30' To 35', Add	64.76	
For Elevated Installation >35' To 40', Add	80.95	
For Elevated Installation >40', Add	89.04	
For Work In Restricted Working Space, Add	48.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.57	
26 05 33 13-1030 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	836.86	107.93
For Elevated Installation >10' To 15', Add	21.59	
For Elevated Installation >15' To 20', Add	43.17	
For Elevated Installation >20' To 25', Add	53.97	
For Elevated Installation >25' To 30', Add	75.55	
For Elevated Installation >30' To 35', Add	86.34	
For Elevated Installation >35' To 40', Add	107.93	
For Elevated Installation >40', Add	118.72	
For Work In Restricted Working Space, Add	64.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1031 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	1,224.03	134.91
<i>For Elevated Installation >10' To 15', Add</i>	26.96	
<i>For Elevated Installation >15' To 20', Add</i>	53.96	
<i>For Elevated Installation >20' To 25', Add</i>	67.46	
<i>For Elevated Installation >25' To 30', Add</i>	94.44	
<i>For Elevated Installation >30' To 35', Add</i>	107.93	
<i>For Elevated Installation >35' To 40', Add</i>	134.91	
<i>For Elevated Installation >40', Add</i>	148.40	
<i>For Work In Restricted Working Space, Add</i>	80.95	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	80.95	
26 05 33 13-1032 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	1,785.00	164.29
<i>For Elevated Installation >10' To 15', Add</i>	32.86	
<i>For Elevated Installation >15' To 20', Add</i>	65.72	
<i>For Elevated Installation >20' To 25', Add</i>	82.15	
<i>For Elevated Installation >25' To 30', Add</i>	115.01	
<i>For Elevated Installation >30' To 35', Add</i>	131.44	
<i>For Elevated Installation >35' To 40', Add</i>	164.30	
<i>For Elevated Installation >40', Add</i>	180.72	
<i>For Work In Restricted Working Space, Add</i>	98.58	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	98.58	
26 05 33 13-1033 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Bodies <small>(26 05 33 13-0797)</small>		
26 05 33 13-1034 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	181.11	28.78
<i>For Elevated Installation >10' To 15', Add</i>	5.76	
<i>For Elevated Installation >15' To 20', Add</i>	11.51	
<i>For Elevated Installation >20' To 25', Add</i>	14.39	
<i>For Elevated Installation >25' To 30', Add</i>	20.15	
<i>For Elevated Installation >30' To 35', Add</i>	23.03	
<i>For Elevated Installation >35' To 40', Add</i>	28.79	
<i>For Elevated Installation >40', Add</i>	31.66	
<i>For Work In Restricted Working Space, Add</i>	17.27	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.27	
26 05 33 13-1035 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	192.79	32.98
<i>For Elevated Installation >10' To 15', Add</i>	6.60	
<i>For Elevated Installation >15' To 20', Add</i>	13.19	
<i>For Elevated Installation >20' To 25', Add</i>	16.49	
<i>For Elevated Installation >25' To 30', Add</i>	23.09	
<i>For Elevated Installation >30' To 35', Add</i>	26.38	
<i>For Elevated Installation >35' To 40', Add</i>	32.98	
<i>For Elevated Installation >40', Add</i>	36.28	
<i>For Work In Restricted Working Space, Add</i>	19.79	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.79	
26 05 33 13-1036 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	221.51	37.78
<i>For Elevated Installation >10' To 15', Add</i>	7.56	
<i>For Elevated Installation >15' To 20', Add</i>	15.11	
<i>For Elevated Installation >20' To 25', Add</i>	18.89	
<i>For Elevated Installation >25' To 30', Add</i>	26.44	
<i>For Elevated Installation >30' To 35', Add</i>	30.22	
<i>For Elevated Installation >35' To 40', Add</i>	37.78	
<i>For Elevated Installation >40', Add</i>	41.55	
<i>For Work In Restricted Working Space, Add</i>	22.67	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.67	
26 05 33 13-1037 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	246.90	43.77
<i>For Elevated Installation >10' To 15', Add</i>	8.76	
<i>For Elevated Installation >15' To 20', Add</i>	17.51	
<i>For Elevated Installation >20' To 25', Add</i>	21.89	
<i>For Elevated Installation >25' To 30', Add</i>	30.64	
<i>For Elevated Installation >30' To 35', Add</i>	35.02	
<i>For Elevated Installation >35' To 40', Add</i>	43.78	
<i>For Elevated Installation >40', Add</i>	48.15	
<i>For Work In Restricted Working Space, Add</i>	26.27	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.27	
26 05 33 13-1038 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	341.25	47.97
<i>For Elevated Installation >10' To 15', Add</i>	9.59	
<i>For Elevated Installation >15' To 20', Add</i>	19.19	
<i>For Elevated Installation >20' To 25', Add</i>	23.99	
<i>For Elevated Installation >25' To 30', Add</i>	33.58	
<i>For Elevated Installation >30' To 35', Add</i>	38.38	
<i>For Elevated Installation >35' To 40', Add</i>	47.97	
<i>For Elevated Installation >40', Add</i>	52.77	
<i>For Work In Restricted Working Space, Add</i>	28.78	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.78	
26 05 33 13-1039 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	428.92	57.57
<i>For Elevated Installation >10' To 15', Add</i>	11.51	
<i>For Elevated Installation >15' To 20', Add</i>	23.02	
<i>For Elevated Installation >20' To 25', Add</i>	28.78	
<i>For Elevated Installation >25' To 30', Add</i>	40.29	
<i>For Elevated Installation >30' To 35', Add</i>	46.05	
<i>For Elevated Installation >35' To 40', Add</i>	57.56	
<i>For Elevated Installation >40', Add</i>	63.32	
<i>For Work In Restricted Working Space, Add</i>	34.54	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.54	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1040	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	667.23	80.95
			<i>For Elevated Installation >10' To 15', Add</i>	16.19	
			<i>For Elevated Installation >15' To 20', Add</i>	32.38	
			<i>For Elevated Installation >20' To 25', Add</i>	40.47	
			<i>For Elevated Installation >25' To 30', Add</i>	56.66	
			<i>For Elevated Installation >30' To 35', Add</i>	64.76	
			<i>For Elevated Installation >35' To 40', Add</i>	80.95	
			<i>For Elevated Installation >40', Add</i>	89.04	
			<i>For Work In Restricted Working Space, Add</i>	48.57	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.57	
26 05 33 13-1041	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	973.23	107.93
			<i>For Elevated Installation >10' To 15', Add</i>	21.59	
			<i>For Elevated Installation >15' To 20', Add</i>	43.17	
			<i>For Elevated Installation >20' To 25', Add</i>	53.97	
			<i>For Elevated Installation >25' To 30', Add</i>	75.55	
			<i>For Elevated Installation >30' To 35', Add</i>	86.34	
			<i>For Elevated Installation >35' To 40', Add</i>	107.93	
			<i>For Elevated Installation >40', Add</i>	118.72	
			<i>For Work In Restricted Working Space, Add</i>	64.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	64.76	
26 05 33 13-1042	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	1,224.03	134.91
			<i>For Elevated Installation >10' To 15', Add</i>	26.98	
			<i>For Elevated Installation >15' To 20', Add</i>	53.96	
			<i>For Elevated Installation >20' To 25', Add</i>	67.46	
			<i>For Elevated Installation >25' To 30', Add</i>	94.44	
			<i>For Elevated Installation >30' To 35', Add</i>	107.93	
			<i>For Elevated Installation >35' To 40', Add</i>	134.91	
			<i>For Elevated Installation >40', Add</i>	148.40	
			<i>For Work In Restricted Working Space, Add</i>	80.95	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	80.95	
26 05 33 13-1043			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Bodies <small>(26 05 33 13-0797)</small>		
26 05 33 13-1044	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	240.90	28.78
			<i>For Elevated Installation >10' To 15', Add</i>	5.76	
			<i>For Elevated Installation >15' To 20', Add</i>	11.51	
			<i>For Elevated Installation >20' To 25', Add</i>	14.39	
			<i>For Elevated Installation >25' To 30', Add</i>	20.15	
			<i>For Elevated Installation >30' To 35', Add</i>	23.03	
			<i>For Elevated Installation >35' To 40', Add</i>	28.79	
			<i>For Elevated Installation >40', Add</i>	31.66	
			<i>For Work In Restricted Working Space, Add</i>	17.27	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.27	
26 05 33 13-1045	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	267.17	32.98
			<i>For Elevated Installation >10' To 15', Add</i>	6.60	
			<i>For Elevated Installation >15' To 20', Add</i>	13.19	
			<i>For Elevated Installation >20' To 25', Add</i>	16.49	
			<i>For Elevated Installation >25' To 30', Add</i>	23.09	
			<i>For Elevated Installation >30' To 35', Add</i>	26.38	
			<i>For Elevated Installation >35' To 40', Add</i>	32.98	
			<i>For Elevated Installation >40', Add</i>	36.28	
			<i>For Work In Restricted Working Space, Add</i>	19.79	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.79	
26 05 33 13-1046	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	331.58	37.78
			<i>For Elevated Installation >10' To 15', Add</i>	7.56	
			<i>For Elevated Installation >15' To 20', Add</i>	15.11	
			<i>For Elevated Installation >20' To 25', Add</i>	18.89	
			<i>For Elevated Installation >25' To 30', Add</i>	26.44	
			<i>For Elevated Installation >30' To 35', Add</i>	30.22	
			<i>For Elevated Installation >35' To 40', Add</i>	37.78	
			<i>For Elevated Installation >40', Add</i>	41.55	
			<i>For Work In Restricted Working Space, Add</i>	22.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.67	
26 05 33 13-1047	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	409.18	43.77
			<i>For Elevated Installation >10' To 15', Add</i>	8.76	
			<i>For Elevated Installation >15' To 20', Add</i>	17.51	
			<i>For Elevated Installation >20' To 25', Add</i>	21.89	
			<i>For Elevated Installation >25' To 30', Add</i>	30.64	
			<i>For Elevated Installation >30' To 35', Add</i>	35.02	
			<i>For Elevated Installation >35' To 40', Add</i>	43.78	
			<i>For Elevated Installation >40', Add</i>	48.15	
			<i>For Work In Restricted Working Space, Add</i>	26.27	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.27	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1048 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	570.53	47.97
<i>For Elevated Installation >10' To 15', Add</i>	9.59	
<i>For Elevated Installation >15' To 20', Add</i>	19.19	
<i>For Elevated Installation >20' To 25', Add</i>	23.99	
<i>For Elevated Installation >25' To 30', Add</i>	33.58	
<i>For Elevated Installation >30' To 35', Add</i>	38.38	
<i>For Elevated Installation >35' To 40', Add</i>	47.97	
<i>For Elevated Installation >40', Add</i>	52.77	
<i>For Work In Restricted Working Space, Add</i>	28.78	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.78	
26 05 33 13-1049 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	683.74	57.57
<i>For Elevated Installation >10' To 15', Add</i>	11.51	
<i>For Elevated Installation >15' To 20', Add</i>	23.02	
<i>For Elevated Installation >20' To 25', Add</i>	28.78	
<i>For Elevated Installation >25' To 30', Add</i>	40.29	
<i>For Elevated Installation >30' To 35', Add</i>	46.05	
<i>For Elevated Installation >35' To 40', Add</i>	57.56	
<i>For Elevated Installation >40', Add</i>	63.32	
<i>For Work In Restricted Working Space, Add</i>	34.54	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.54	
26 05 33 13-1050 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Couplings <small>(26 05 33 13-0797)</small>		
26 05 33 13-1051 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	45.52	11.54
<i>For Elevated Installation >10' To 15', Add</i>	2.31	
<i>For Elevated Installation >15' To 20', Add</i>	4.61	
<i>For Elevated Installation >20' To 25', Add</i>	5.77	
<i>For Elevated Installation >25' To 30', Add</i>	8.07	
<i>For Elevated Installation >30' To 35', Add</i>	9.22	
<i>For Elevated Installation >35' To 40', Add</i>	11.53	
<i>For Elevated Installation >40', Add</i>	12.68	
<i>For Work In Restricted Working Space, Add</i>	6.92	
26 05 33 13-1052 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	60.58	13.83
<i>For Elevated Installation >10' To 15', Add</i>	2.77	
<i>For Elevated Installation >15' To 20', Add</i>	5.53	
<i>For Elevated Installation >20' To 25', Add</i>	6.92	
<i>For Elevated Installation >25' To 30', Add</i>	9.68	
<i>For Elevated Installation >30' To 35', Add</i>	11.07	
<i>For Elevated Installation >35' To 40', Add</i>	13.84	
<i>For Elevated Installation >40', Add</i>	15.22	
<i>For Work In Restricted Working Space, Add</i>	8.30	
26 05 33 13-1053 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	76.86	18.45
<i>For Elevated Installation >10' To 15', Add</i>	3.69	
<i>For Elevated Installation >15' To 20', Add</i>	7.38	
<i>For Elevated Installation >20' To 25', Add</i>	9.23	
<i>For Elevated Installation >25' To 30', Add</i>	12.92	
<i>For Elevated Installation >30' To 35', Add</i>	14.76	
<i>For Elevated Installation >35' To 40', Add</i>	18.45	
<i>For Elevated Installation >40', Add</i>	20.30	
<i>For Work In Restricted Working Space, Add</i>	11.07	
26 05 33 13-1054 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	106.09	23.06
<i>For Elevated Installation >10' To 15', Add</i>	4.61	
<i>For Elevated Installation >15' To 20', Add</i>	9.22	
<i>For Elevated Installation >20' To 25', Add</i>	11.53	
<i>For Elevated Installation >25' To 30', Add</i>	16.14	
<i>For Elevated Installation >30' To 35', Add</i>	18.45	
<i>For Elevated Installation >35' To 40', Add</i>	23.06	
<i>For Elevated Installation >40', Add</i>	25.37	
<i>For Work In Restricted Working Space, Add</i>	13.84	
26 05 33 13-1055 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	139.61	27.67
<i>For Elevated Installation >10' To 15', Add</i>	5.54	
<i>For Elevated Installation >15' To 20', Add</i>	11.07	
<i>For Elevated Installation >20' To 25', Add</i>	13.84	
<i>For Elevated Installation >25' To 30', Add</i>	19.37	
<i>For Elevated Installation >30' To 35', Add</i>	22.14	
<i>For Elevated Installation >35' To 40', Add</i>	27.68	
<i>For Elevated Installation >40', Add</i>	30.44	
<i>For Work In Restricted Working Space, Add</i>	16.61	
26 05 33 13-1056 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	242.73	32.29
<i>For Elevated Installation >10' To 15', Add</i>	6.46	
<i>For Elevated Installation >15' To 20', Add</i>	12.92	
<i>For Elevated Installation >20' To 25', Add</i>	16.15	
<i>For Elevated Installation >25' To 30', Add</i>	22.60	
<i>For Elevated Installation >30' To 35', Add</i>	25.83	
<i>For Elevated Installation >35' To 40', Add</i>	32.29	
<i>For Elevated Installation >40', Add</i>	35.52	
<i>For Work In Restricted Working Space, Add</i>	19.37	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1057 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	354.27	36.90
For Elevated Installation >10' To 15', Add	7.38	
For Elevated Installation >15' To 20', Add	14.76	
For Elevated Installation >20' To 25', Add	18.45	
For Elevated Installation >25' To 30', Add	25.83	
For Elevated Installation >30' To 35', Add	29.52	
For Elevated Installation >35' To 40', Add	36.90	
For Elevated Installation >40', Add	40.58	
For Work In Restricted Working Space, Add	22.14	
26 05 33 13-1058 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	442.69	41.51
For Elevated Installation >10' To 15', Add	8.30	
For Elevated Installation >15' To 20', Add	16.60	
For Elevated Installation >20' To 25', Add	20.76	
For Elevated Installation >25' To 30', Add	29.06	
For Elevated Installation >30' To 35', Add	33.21	
For Elevated Installation >35' To 40', Add	41.51	
For Elevated Installation >40', Add	45.66	
For Work In Restricted Working Space, Add	24.91	
26 05 33 13-1059 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	617.66	48.43
For Elevated Installation >10' To 15', Add	9.69	
For Elevated Installation >15' To 20', Add	19.37	
For Elevated Installation >20' To 25', Add	24.22	
For Elevated Installation >25' To 30', Add	33.90	
For Elevated Installation >30' To 35', Add	38.74	
For Elevated Installation >35' To 40', Add	48.43	
For Elevated Installation >40', Add	53.27	
For Work In Restricted Working Space, Add	29.06	
26 05 33 13-1060 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	750.49	55.35
For Elevated Installation >10' To 15', Add	11.07	
For Elevated Installation >15' To 20', Add	22.14	
For Elevated Installation >20' To 25', Add	27.68	
For Elevated Installation >25' To 30', Add	38.75	
For Elevated Installation >30' To 35', Add	44.28	
For Elevated Installation >35' To 40', Add	55.35	
For Elevated Installation >40', Add	60.89	
For Work In Restricted Working Space, Add	33.21	
26 05 33 13-1061 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	1,201.31	87.64
For Elevated Installation >10' To 15', Add	17.53	
For Elevated Installation >15' To 20', Add	35.05	
For Elevated Installation >20' To 25', Add	43.82	
For Elevated Installation >25' To 30', Add	61.34	
For Elevated Installation >30' To 35', Add	70.10	
For Elevated Installation >35' To 40', Add	87.63	
For Elevated Installation >40', Add	96.39	
For Work In Restricted Working Space, Add	52.58	
26 05 33 13-1062 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	1,640.01	133.76
For Elevated Installation >10' To 15', Add	26.75	
For Elevated Installation >15' To 20', Add	53.50	
For Elevated Installation >20' To 25', Add	66.88	
For Elevated Installation >25' To 30', Add	93.63	
For Elevated Installation >30' To 35', Add	107.01	
For Elevated Installation >35' To 40', Add	133.76	
For Elevated Installation >40', Add	147.14	
For Work In Restricted Working Space, Add	80.26	
26 05 33 13-1063 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbows <small>(26 05 33 13-0797)</small>		
26 05 33 13-1064 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow	170.57	28.78
For Elevated Installation >10' To 15', Add	5.76	
For Elevated Installation >15' To 20', Add	11.51	
For Elevated Installation >20' To 25', Add	14.39	
For Elevated Installation >25' To 30', Add	20.15	
For Elevated Installation >30' To 35', Add	23.03	
For Elevated Installation >35' To 40', Add	28.79	
For Elevated Installation >40', Add	31.66	
For Work In Restricted Working Space, Add	17.27	
26 05 33 13-1065 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow	201.98	31.78
For Elevated Installation >10' To 15', Add	6.36	
For Elevated Installation >15' To 20', Add	12.71	
For Elevated Installation >20' To 25', Add	15.89	
For Elevated Installation >25' To 30', Add	22.24	
For Elevated Installation >30' To 35', Add	25.42	
For Elevated Installation >35' To 40', Add	31.78	
For Elevated Installation >40', Add	34.95	
For Work In Restricted Working Space, Add	19.07	
26 05 33 13-1066 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow	222.46	37.78
For Elevated Installation >10' To 15', Add	7.56	
For Elevated Installation >15' To 20', Add	15.11	
For Elevated Installation >20' To 25', Add	18.89	
For Elevated Installation >25' To 30', Add	26.44	
For Elevated Installation >30' To 35', Add	30.22	
For Elevated Installation >35' To 40', Add	37.78	
For Elevated Installation >40', Add	41.55	
For Work In Restricted Working Space, Add	22.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1067 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow	321.33	43.77
For Elevated Installation >10' To 15', Add	8.76	
For Elevated Installation >15' To 20', Add	17.51	
For Elevated Installation >20' To 25', Add	21.89	
For Elevated Installation >25' To 30', Add	30.64	
For Elevated Installation >30' To 35', Add	35.02	
For Elevated Installation >35' To 40', Add	43.78	
For Elevated Installation >40', Add	48.15	
For Work In Restricted Working Space, Add	26.27	
26 05 33 13-1068 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow	425.36	47.97
For Elevated Installation >10' To 15', Add	9.59	
For Elevated Installation >15' To 20', Add	19.19	
For Elevated Installation >20' To 25', Add	23.99	
For Elevated Installation >25' To 30', Add	33.58	
For Elevated Installation >30' To 35', Add	38.38	
For Elevated Installation >35' To 40', Add	47.97	
For Elevated Installation >40', Add	52.77	
For Work In Restricted Working Space, Add	28.78	
26 05 33 13-1069 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow	458.23	57.57
For Elevated Installation >10' To 15', Add	11.51	
For Elevated Installation >15' To 20', Add	23.02	
For Elevated Installation >20' To 25', Add	28.78	
For Elevated Installation >25' To 30', Add	40.29	
For Elevated Installation >30' To 35', Add	46.05	
For Elevated Installation >35' To 40', Add	57.56	
For Elevated Installation >40', Add	63.32	
For Work In Restricted Working Space, Add	34.54	
26 05 33 13-1070 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow	1,091.03	79.74
For Elevated Installation >10' To 15', Add	15.95	
For Elevated Installation >15' To 20', Add	31.90	
For Elevated Installation >20' To 25', Add	39.88	
For Elevated Installation >25' To 30', Add	55.83	
For Elevated Installation >30' To 35', Add	63.80	
For Elevated Installation >35' To 40', Add	79.75	
For Elevated Installation >40', Add	87.73	
For Work In Restricted Working Space, Add	47.85	
26 05 33 13-1071 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow	1,147.62	107.93
For Elevated Installation >10' To 15', Add	21.59	
For Elevated Installation >15' To 20', Add	43.17	
For Elevated Installation >20' To 25', Add	53.97	
For Elevated Installation >25' To 30', Add	75.55	
For Elevated Installation >30' To 35', Add	86.35	
For Elevated Installation >35' To 40', Add	107.94	
For Elevated Installation >40', Add	118.73	
For Work In Restricted Working Space, Add	64.76	
26 05 33 13-1072 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow	1,883.78	134.91
For Elevated Installation >10' To 15', Add	26.98	
For Elevated Installation >15' To 20', Add	53.97	
For Elevated Installation >20' To 25', Add	67.46	
For Elevated Installation >25' To 30', Add	94.44	
For Elevated Installation >30' To 35', Add	107.93	
For Elevated Installation >35' To 40', Add	134.92	
For Elevated Installation >40', Add	148.41	
For Work In Restricted Working Space, Add	80.95	
26 05 33 13-1073 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow	1,958.21	164.29
For Elevated Installation >10' To 15', Add	32.86	
For Elevated Installation >15' To 20', Add	65.72	
For Elevated Installation >20' To 25', Add	82.15	
For Elevated Installation >25' To 30', Add	115.01	
For Elevated Installation >30' To 35', Add	131.44	
For Elevated Installation >35' To 40', Add	164.31	
For Elevated Installation >40', Add	180.74	
For Work In Restricted Working Space, Add	98.58	
26 05 33 13-1074 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbows <small>(26 05 33 13-0797)</small>		
26 05 33 13-1075 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	250.99	28.78
For Elevated Installation >10' To 15', Add	5.76	
For Elevated Installation >15' To 20', Add	11.51	
For Elevated Installation >20' To 25', Add	14.39	
For Elevated Installation >25' To 30', Add	20.15	
For Elevated Installation >30' To 35', Add	23.03	
For Elevated Installation >35' To 40', Add	28.79	
For Elevated Installation >40', Add	31.66	
For Work In Restricted Working Space, Add	17.27	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1076	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	285.89	32.98
			<i>For Elevated Installation >10' To 15', Add</i>	6.60	
			<i>For Elevated Installation >15' To 20', Add</i>	13.19	
			<i>For Elevated Installation >20' To 25', Add</i>	16.49	
			<i>For Elevated Installation >25' To 30', Add</i>	23.09	
			<i>For Elevated Installation >30' To 35', Add</i>	26.38	
			<i>For Elevated Installation >35' To 40', Add</i>	32.98	
			<i>For Elevated Installation >40', Add</i>	36.28	
			<i>For Work In Restricted Working Space, Add</i>	19.79	
26 05 33	13-1077	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	568.43	37.78
			<i>For Elevated Installation >10' To 15', Add</i>	7.56	
			<i>For Elevated Installation >15' To 20', Add</i>	15.11	
			<i>For Elevated Installation >20' To 25', Add</i>	18.89	
			<i>For Elevated Installation >25' To 30', Add</i>	26.44	
			<i>For Elevated Installation >30' To 35', Add</i>	30.22	
			<i>For Elevated Installation >35' To 40', Add</i>	37.78	
			<i>For Elevated Installation >40', Add</i>	41.55	
			<i>For Work In Restricted Working Space, Add</i>	22.67	
26 05 33	13-1078	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	595.65	43.77
			<i>For Elevated Installation >10' To 15', Add</i>	8.76	
			<i>For Elevated Installation >15' To 20', Add</i>	17.51	
			<i>For Elevated Installation >20' To 25', Add</i>	21.89	
			<i>For Elevated Installation >25' To 30', Add</i>	30.64	
			<i>For Elevated Installation >30' To 35', Add</i>	35.02	
			<i>For Elevated Installation >35' To 40', Add</i>	43.78	
			<i>For Elevated Installation >40', Add</i>	48.15	
			<i>For Work In Restricted Working Space, Add</i>	26.27	
26 05 33	13-1079	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	816.13	47.97
			<i>For Elevated Installation >10' To 15', Add</i>	9.59	
			<i>For Elevated Installation >15' To 20', Add</i>	19.19	
			<i>For Elevated Installation >20' To 25', Add</i>	23.99	
			<i>For Elevated Installation >25' To 30', Add</i>	33.58	
			<i>For Elevated Installation >30' To 35', Add</i>	38.38	
			<i>For Elevated Installation >35' To 40', Add</i>	47.97	
			<i>For Elevated Installation >40', Add</i>	52.77	
			<i>For Work In Restricted Working Space, Add</i>	28.78	
26 05 33	13-1080	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	869.47	57.57
			<i>For Elevated Installation >10' To 15', Add</i>	11.51	
			<i>For Elevated Installation >15' To 20', Add</i>	23.02	
			<i>For Elevated Installation >20' To 25', Add</i>	28.78	
			<i>For Elevated Installation >25' To 30', Add</i>	40.29	
			<i>For Elevated Installation >30' To 35', Add</i>	46.05	
			<i>For Elevated Installation >35' To 40', Add</i>	57.56	
			<i>For Elevated Installation >40', Add</i>	63.32	
			<i>For Work In Restricted Working Space, Add</i>	34.54	
26 05 33	13-1081	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	1,676.60	80.95
			<i>For Elevated Installation >10' To 15', Add</i>	16.19	
			<i>For Elevated Installation >15' To 20', Add</i>	32.38	
			<i>For Elevated Installation >20' To 25', Add</i>	40.47	
			<i>For Elevated Installation >25' To 30', Add</i>	56.66	
			<i>For Elevated Installation >30' To 35', Add</i>	64.76	
			<i>For Elevated Installation >35' To 40', Add</i>	80.95	
			<i>For Elevated Installation >40', Add</i>	89.04	
			<i>For Work In Restricted Working Space, Add</i>	48.57	
26 05 33	13-1082	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	1,760.51	107.93
			<i>For Elevated Installation >10' To 15', Add</i>	21.59	
			<i>For Elevated Installation >15' To 20', Add</i>	43.17	
			<i>For Elevated Installation >20' To 25', Add</i>	53.97	
			<i>For Elevated Installation >25' To 30', Add</i>	75.55	
			<i>For Elevated Installation >30' To 35', Add</i>	86.34	
			<i>For Elevated Installation >35' To 40', Add</i>	107.93	
			<i>For Elevated Installation >40', Add</i>	118.72	
			<i>For Work In Restricted Working Space, Add</i>	64.76	
26 05 33	13-1083	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	2,582.88	134.91
			<i>For Elevated Installation >10' To 15', Add</i>	26.98	
			<i>For Elevated Installation >15' To 20', Add</i>	53.96	
			<i>For Elevated Installation >20' To 25', Add</i>	67.46	
			<i>For Elevated Installation >25' To 30', Add</i>	94.44	
			<i>For Elevated Installation >30' To 35', Add</i>	107.93	
			<i>For Elevated Installation >35' To 40', Add</i>	134.91	
			<i>For Elevated Installation >40', Add</i>	148.40	
			<i>For Work In Restricted Working Space, Add</i>	80.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1084 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	2,922.83	164.29
For Elevated Installation >10' To 15', Add	32.86	
For Elevated Installation >15' To 20', Add	65.72	
For Elevated Installation >20' To 25', Add	82.15	
For Elevated Installation >25' To 30', Add	115.01	
For Elevated Installation >30' To 35', Add	131.44	
For Elevated Installation >35' To 40', Add	164.30	
For Elevated Installation >40', Add	180.72	
For Work In Restricted Working Space, Add	98.58	
26 05 33 13-1085 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbows <small>(26 05 33 13-0797)</small>		
26 05 33 13-1086 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow.....	95.63	14.99
For Elevated Installation >10' To 15', Add	3.00	
For Elevated Installation >15' To 20', Add	6.00	
For Elevated Installation >20' To 25', Add	7.50	
For Elevated Installation >25' To 30', Add	10.49	
For Elevated Installation >30' To 35', Add	11.99	
For Elevated Installation >35' To 40', Add	14.99	
For Elevated Installation >40', Add	16.49	
For Work In Restricted Working Space, Add	8.99	
26 05 33 13-1087 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow.....	111.09	18.59
For Elevated Installation >10' To 15', Add	3.72	
For Elevated Installation >15' To 20', Add	7.43	
For Elevated Installation >20' To 25', Add	9.29	
For Elevated Installation >25' To 30', Add	13.01	
For Elevated Installation >30' To 35', Add	14.87	
For Elevated Installation >35' To 40', Add	18.59	
For Elevated Installation >40', Add	20.44	
For Work In Restricted Working Space, Add	11.15	
26 05 33 13-1088 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow.....	132.25	22.79
For Elevated Installation >10' To 15', Add	4.56	
For Elevated Installation >15' To 20', Add	9.11	
For Elevated Installation >20' To 25', Add	11.39	
For Elevated Installation >25' To 30', Add	15.95	
For Elevated Installation >30' To 35', Add	18.23	
For Elevated Installation >35' To 40', Add	22.79	
For Elevated Installation >40', Add	25.06	
For Work In Restricted Working Space, Add	13.67	
26 05 33 13-1089 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow.....	156.19	26.38
For Elevated Installation >10' To 15', Add	5.28	
For Elevated Installation >15' To 20', Add	10.55	
For Elevated Installation >20' To 25', Add	13.19	
For Elevated Installation >25' To 30', Add	18.47	
For Elevated Installation >30' To 35', Add	21.10	
For Elevated Installation >35' To 40', Add	26.38	
For Elevated Installation >40', Add	29.02	
For Work In Restricted Working Space, Add	15.83	
26 05 33 13-1090 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbows <small>(26 05 33 13-0797)</small>		
26 05 33 13-1091 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	74.68	14.99
For Elevated Installation >10' To 15', Add	3.00	
For Elevated Installation >15' To 20', Add	6.00	
For Elevated Installation >20' To 25', Add	7.50	
For Elevated Installation >25' To 30', Add	10.49	
For Elevated Installation >30' To 35', Add	11.99	
For Elevated Installation >35' To 40', Add	14.99	
For Elevated Installation >40', Add	16.49	
For Work In Restricted Working Space, Add	8.99	
26 05 33 13-1092 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	85.95	18.59
For Elevated Installation >10' To 15', Add	3.72	
For Elevated Installation >15' To 20', Add	7.43	
For Elevated Installation >20' To 25', Add	9.29	
For Elevated Installation >25' To 30', Add	13.01	
For Elevated Installation >30' To 35', Add	14.87	
For Elevated Installation >35' To 40', Add	18.59	
For Elevated Installation >40', Add	20.44	
For Work In Restricted Working Space, Add	11.15	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1093	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow	120.00	22.79
			<i>For Elevated Installation >10' To 15', Add</i>	4.56	
			<i>For Elevated Installation >15' To 20', Add</i>	9.11	
			<i>For Elevated Installation >20' To 25', Add</i>	11.39	
			<i>For Elevated Installation >25' To 30', Add</i>	15.95	
			<i>For Elevated Installation >30' To 35', Add</i>	18.23	
			<i>For Elevated Installation >35' To 40', Add</i>	22.79	
			<i>For Elevated Installation >40', Add</i>	25.06	
			<i>For Work In Restricted Working Space, Add</i>	13.67	
26 05 33 13-1094	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow	156.29	26.38
			<i>For Elevated Installation >10' To 15', Add</i>	5.28	
			<i>For Elevated Installation >15' To 20', Add</i>	10.55	
			<i>For Elevated Installation >20' To 25', Add</i>	13.19	
			<i>For Elevated Installation >25' To 30', Add</i>	18.47	
			<i>For Elevated Installation >30' To 35', Add</i>	21.10	
			<i>For Elevated Installation >35' To 40', Add</i>	26.38	
			<i>For Elevated Installation >40', Add</i>	29.02	
			<i>For Work In Restricted Working Space, Add</i>	15.83	
26 05 33 13-1095	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow	190.89	29.98
			<i>For Elevated Installation >10' To 15', Add</i>	6.00	
			<i>For Elevated Installation >15' To 20', Add</i>	11.99	
			<i>For Elevated Installation >20' To 25', Add</i>	14.99	
			<i>For Elevated Installation >25' To 30', Add</i>	20.99	
			<i>For Elevated Installation >30' To 35', Add</i>	23.98	
			<i>For Elevated Installation >35' To 40', Add</i>	29.98	
			<i>For Elevated Installation >40', Add</i>	32.98	
			<i>For Work In Restricted Working Space, Add</i>	17.99	
26 05 33 13-1096	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow	276.47	32.98
			<i>For Elevated Installation >10' To 15', Add</i>	6.60	
			<i>For Elevated Installation >15' To 20', Add</i>	13.19	
			<i>For Elevated Installation >20' To 25', Add</i>	16.49	
			<i>For Elevated Installation >25' To 30', Add</i>	23.09	
			<i>For Elevated Installation >30' To 35', Add</i>	26.38	
			<i>For Elevated Installation >35' To 40', Add</i>	32.98	
			<i>For Elevated Installation >40', Add</i>	36.28	
			<i>For Work In Restricted Working Space, Add</i>	19.79	
26 05 33 13-1097	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow	378.53	41.38
			<i>For Elevated Installation >10' To 15', Add</i>	8.27	
			<i>For Elevated Installation >15' To 20', Add</i>	16.55	
			<i>For Elevated Installation >20' To 25', Add</i>	20.69	
			<i>For Elevated Installation >25' To 30', Add</i>	28.96	
			<i>For Elevated Installation >30' To 35', Add</i>	33.10	
			<i>For Elevated Installation >35' To 40', Add</i>	41.37	
			<i>For Elevated Installation >40', Add</i>	45.51	
			<i>For Work In Restricted Working Space, Add</i>	24.82	
26 05 33 13-1098			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbows <small>(26 05 33 13-0797)</small>		
26 05 33 13-1099	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow	95.68	14.99
			<i>For Elevated Installation >10' To 15', Add</i>	3.00	
			<i>For Elevated Installation >15' To 20', Add</i>	6.00	
			<i>For Elevated Installation >20' To 25', Add</i>	7.50	
			<i>For Elevated Installation >25' To 30', Add</i>	10.49	
			<i>For Elevated Installation >30' To 35', Add</i>	11.99	
			<i>For Elevated Installation >35' To 40', Add</i>	14.99	
			<i>For Elevated Installation >40', Add</i>	16.49	
			<i>For Work In Restricted Working Space, Add</i>	8.99	
26 05 33 13-1100	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow	113.99	18.59
			<i>For Elevated Installation >10' To 15', Add</i>	3.72	
			<i>For Elevated Installation >15' To 20', Add</i>	7.43	
			<i>For Elevated Installation >20' To 25', Add</i>	9.29	
			<i>For Elevated Installation >25' To 30', Add</i>	13.01	
			<i>For Elevated Installation >30' To 35', Add</i>	14.87	
			<i>For Elevated Installation >35' To 40', Add</i>	18.59	
			<i>For Elevated Installation >40', Add</i>	20.44	
			<i>For Work In Restricted Working Space, Add</i>	11.15	
26 05 33 13-1101	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow	132.27	22.79
			<i>For Elevated Installation >10' To 15', Add</i>	4.56	
			<i>For Elevated Installation >15' To 20', Add</i>	9.11	
			<i>For Elevated Installation >20' To 25', Add</i>	11.39	
			<i>For Elevated Installation >25' To 30', Add</i>	15.95	
			<i>For Elevated Installation >30' To 35', Add</i>	18.23	
			<i>For Elevated Installation >35' To 40', Add</i>	22.79	
			<i>For Elevated Installation >40', Add</i>	25.06	
			<i>For Work In Restricted Working Space, Add</i>	13.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1102 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow	156.24	26.38
<i>For Elevated Installation >10' To 15', Add</i>	5.28	
<i>For Elevated Installation >15' To 20', Add</i>	10.55	
<i>For Elevated Installation >20' To 25', Add</i>	13.19	
<i>For Elevated Installation >25' To 30', Add</i>	18.47	
<i>For Elevated Installation >30' To 35', Add</i>	21.10	
<i>For Elevated Installation >35' To 40', Add</i>	26.38	
<i>For Elevated Installation >40', Add</i>	29.02	
<i>For Work In Restricted Working Space, Add</i>	15.83	
26 05 33 13-1103 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbows <small>(26 05 33 13-0797)</small>		
26 05 33 13-1104 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	74.76	14.99
<i>For Elevated Installation >10' To 15', Add</i>	3.00	
<i>For Elevated Installation >15' To 20', Add</i>	6.00	
<i>For Elevated Installation >20' To 25', Add</i>	7.50	
<i>For Elevated Installation >25' To 30', Add</i>	10.49	
<i>For Elevated Installation >30' To 35', Add</i>	11.99	
<i>For Elevated Installation >35' To 40', Add</i>	14.99	
<i>For Elevated Installation >40', Add</i>	16.49	
<i>For Work In Restricted Working Space, Add</i>	8.99	
26 05 33 13-1105 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	85.95	18.59
<i>For Elevated Installation >10' To 15', Add</i>	3.72	
<i>For Elevated Installation >15' To 20', Add</i>	7.43	
<i>For Elevated Installation >20' To 25', Add</i>	9.29	
<i>For Elevated Installation >25' To 30', Add</i>	13.01	
<i>For Elevated Installation >30' To 35', Add</i>	14.87	
<i>For Elevated Installation >35' To 40', Add</i>	18.59	
<i>For Elevated Installation >40', Add</i>	20.44	
<i>For Work In Restricted Working Space, Add</i>	11.15	
26 05 33 13-1106 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	111.32	22.79
<i>For Elevated Installation >10' To 15', Add</i>	4.56	
<i>For Elevated Installation >15' To 20', Add</i>	9.11	
<i>For Elevated Installation >20' To 25', Add</i>	11.39	
<i>For Elevated Installation >25' To 30', Add</i>	15.95	
<i>For Elevated Installation >30' To 35', Add</i>	18.23	
<i>For Elevated Installation >35' To 40', Add</i>	22.79	
<i>For Elevated Installation >40', Add</i>	25.06	
<i>For Work In Restricted Working Space, Add</i>	13.67	
26 05 33 13-1107 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	139.44	26.38
<i>For Elevated Installation >10' To 15', Add</i>	5.28	
<i>For Elevated Installation >15' To 20', Add</i>	10.55	
<i>For Elevated Installation >20' To 25', Add</i>	13.19	
<i>For Elevated Installation >25' To 30', Add</i>	18.47	
<i>For Elevated Installation >30' To 35', Add</i>	21.10	
<i>For Elevated Installation >35' To 40', Add</i>	26.38	
<i>For Elevated Installation >40', Add</i>	29.02	
<i>For Work In Restricted Working Space, Add</i>	15.83	
26 05 33 13-1108 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	163.44	29.98
<i>For Elevated Installation >10' To 15', Add</i>	6.00	
<i>For Elevated Installation >15' To 20', Add</i>	11.99	
<i>For Elevated Installation >20' To 25', Add</i>	14.99	
<i>For Elevated Installation >25' To 30', Add</i>	20.99	
<i>For Elevated Installation >30' To 35', Add</i>	23.98	
<i>For Elevated Installation >35' To 40', Add</i>	29.98	
<i>For Elevated Installation >40', Add</i>	32.98	
<i>For Work In Restricted Working Space, Add</i>	17.99	
26 05 33 13-1109 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	188.57	32.98
<i>For Elevated Installation >10' To 15', Add</i>	6.60	
<i>For Elevated Installation >15' To 20', Add</i>	13.19	
<i>For Elevated Installation >20' To 25', Add</i>	16.49	
<i>For Elevated Installation >25' To 30', Add</i>	23.09	
<i>For Elevated Installation >30' To 35', Add</i>	26.38	
<i>For Elevated Installation >35' To 40', Add</i>	32.98	
<i>For Elevated Installation >40', Add</i>	36.28	
<i>For Work In Restricted Working Space, Add</i>	19.79	
26 05 33 13-1110 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	356.12	41.38
<i>For Elevated Installation >10' To 15', Add</i>	8.27	
<i>For Elevated Installation >15' To 20', Add</i>	16.55	
<i>For Elevated Installation >20' To 25', Add</i>	20.69	
<i>For Elevated Installation >25' To 30', Add</i>	28.96	
<i>For Elevated Installation >30' To 35', Add</i>	33.10	
<i>For Elevated Installation >35' To 40', Add</i>	41.37	
<i>For Elevated Installation >40', Add</i>	45.51	
<i>For Work In Restricted Working Space, Add</i>	24.82	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1111	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	406.40	56.36
			<i>For Elevated Installation >10' To 15', Add</i>	11.27	
			<i>For Elevated Installation >15' To 20', Add</i>	22.54	
			<i>For Elevated Installation >20' To 25', Add</i>	28.18	
			<i>For Elevated Installation >25' To 30', Add</i>	39.45	
			<i>For Elevated Installation >30' To 35', Add</i>	45.09	
			<i>For Elevated Installation >35' To 40', Add</i>	56.36	
			<i>For Elevated Installation >40', Add</i>	62.00	
			<i>For Work In Restricted Working Space, Add</i>	33.82	
26 05 33 13-1112	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	437.94	63.55
			<i>For Elevated Installation >10' To 15', Add</i>	12.71	
			<i>For Elevated Installation >15' To 20', Add</i>	25.42	
			<i>For Elevated Installation >20' To 25', Add</i>	31.78	
			<i>For Elevated Installation >25' To 30', Add</i>	44.49	
			<i>For Elevated Installation >30' To 35', Add</i>	50.85	
			<i>For Elevated Installation >35' To 40', Add</i>	63.56	
			<i>For Elevated Installation >40', Add</i>	69.92	
			<i>For Work In Restricted Working Space, Add</i>	38.14	
26 05 33 13-1113	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	539.45	82.74
			<i>For Elevated Installation >10' To 15', Add</i>	16.55	
			<i>For Elevated Installation >15' To 20', Add</i>	33.10	
			<i>For Elevated Installation >20' To 25', Add</i>	41.37	
			<i>For Elevated Installation >25' To 30', Add</i>	57.92	
			<i>For Elevated Installation >30' To 35', Add</i>	66.20	
			<i>For Elevated Installation >35' To 40', Add</i>	82.75	
			<i>For Elevated Installation >40', Add</i>	91.02	
			<i>For Work In Restricted Working Space, Add</i>	49.65	
26 05 33 13-1114 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbows <small>(26 05 33 13-0797)</small>					
26 05 33 13-1115	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....	157.00	28.78
			<i>For Elevated Installation >10' To 15', Add</i>	5.76	
			<i>For Elevated Installation >15' To 20', Add</i>	11.51	
			<i>For Elevated Installation >20' To 25', Add</i>	14.39	
			<i>For Elevated Installation >25' To 30', Add</i>	20.15	
			<i>For Elevated Installation >30' To 35', Add</i>	23.03	
			<i>For Elevated Installation >35' To 40', Add</i>	28.79	
			<i>For Elevated Installation >40', Add</i>	31.66	
			<i>For Work In Restricted Working Space, Add</i>	17.27	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.27	
26 05 33 13-1116	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....	169.30	32.98
			<i>For Elevated Installation >10' To 15', Add</i>	6.60	
			<i>For Elevated Installation >15' To 20', Add</i>	13.19	
			<i>For Elevated Installation >20' To 25', Add</i>	16.49	
			<i>For Elevated Installation >25' To 30', Add</i>	23.09	
			<i>For Elevated Installation >30' To 35', Add</i>	26.38	
			<i>For Elevated Installation >35' To 40', Add</i>	32.98	
			<i>For Elevated Installation >40', Add</i>	36.28	
			<i>For Work In Restricted Working Space, Add</i>	19.79	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.79	
26 05 33 13-1117	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....	185.00	37.78
			<i>For Elevated Installation >10' To 15', Add</i>	7.56	
			<i>For Elevated Installation >15' To 20', Add</i>	15.11	
			<i>For Elevated Installation >20' To 25', Add</i>	18.89	
			<i>For Elevated Installation >25' To 30', Add</i>	26.44	
			<i>For Elevated Installation >30' To 35', Add</i>	30.22	
			<i>For Elevated Installation >35' To 40', Add</i>	37.78	
			<i>For Elevated Installation >40', Add</i>	41.55	
			<i>For Work In Restricted Working Space, Add</i>	22.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.67	
26 05 33 13-1118	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	249.83	43.77
			<i>For Elevated Installation >10' To 15', Add</i>	8.76	
			<i>For Elevated Installation >15' To 20', Add</i>	17.51	
			<i>For Elevated Installation >20' To 25', Add</i>	21.89	
			<i>For Elevated Installation >25' To 30', Add</i>	30.64	
			<i>For Elevated Installation >30' To 35', Add</i>	35.02	
			<i>For Elevated Installation >35' To 40', Add</i>	43.78	
			<i>For Elevated Installation >40', Add</i>	48.15	
			<i>For Work In Restricted Working Space, Add</i>	26.27	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.27	
26 05 33 13-1119	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	319.37	47.97
			<i>For Elevated Installation >10' To 15', Add</i>	9.59	
			<i>For Elevated Installation >15' To 20', Add</i>	19.19	
			<i>For Elevated Installation >20' To 25', Add</i>	23.99	
			<i>For Elevated Installation >25' To 30', Add</i>	33.58	
			<i>For Elevated Installation >30' To 35', Add</i>	38.38	
			<i>For Elevated Installation >35' To 40', Add</i>	47.97	
			<i>For Elevated Installation >40', Add</i>	52.77	
			<i>For Work In Restricted Working Space, Add</i>	28.78	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1120 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Boxes With Cast Iron Cover <small>(26 05 33 13-0797)</small>		
26 05 33 13-1121 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	190.20	28.78
For Elevated Installation >10' To 15', Add	5.76	
For Elevated Installation >15' To 20', Add	11.51	
For Elevated Installation >20' To 25', Add	14.39	
For Elevated Installation >25' To 30', Add	20.15	
For Elevated Installation >30' To 35', Add	23.03	
For Elevated Installation >35' To 40', Add	28.79	
For Elevated Installation >40', Add	31.66	
For Work In Restricted Working Space, Add	17.27	
26 05 33 13-1122 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	204.53	32.98
For Elevated Installation >10' To 15', Add	6.60	
For Elevated Installation >15' To 20', Add	13.19	
For Elevated Installation >20' To 25', Add	16.49	
For Elevated Installation >25' To 30', Add	23.09	
For Elevated Installation >30' To 35', Add	26.38	
For Elevated Installation >35' To 40', Add	32.98	
For Elevated Installation >40', Add	36.28	
For Work In Restricted Working Space, Add	19.79	
26 05 33 13-1123 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	239.22	37.78
For Elevated Installation >10' To 15', Add	7.56	
For Elevated Installation >15' To 20', Add	15.11	
For Elevated Installation >20' To 25', Add	18.89	
For Elevated Installation >25' To 30', Add	26.44	
For Elevated Installation >30' To 35', Add	30.22	
For Elevated Installation >35' To 40', Add	37.78	
For Elevated Installation >40', Add	41.55	
For Work In Restricted Working Space, Add	22.67	
26 05 33 13-1124 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	343.94	43.77
For Elevated Installation >10' To 15', Add	8.76	
For Elevated Installation >15' To 20', Add	17.51	
For Elevated Installation >20' To 25', Add	21.89	
For Elevated Installation >25' To 30', Add	30.64	
For Elevated Installation >30' To 35', Add	35.02	
For Elevated Installation >35' To 40', Add	43.78	
For Elevated Installation >40', Add	48.15	
For Work In Restricted Working Space, Add	26.27	
26 05 33 13-1125 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	563.22	47.97
For Elevated Installation >10' To 15', Add	9.59	
For Elevated Installation >15' To 20', Add	19.19	
For Elevated Installation >20' To 25', Add	23.99	
For Elevated Installation >25' To 30', Add	33.58	
For Elevated Installation >30' To 35', Add	38.38	
For Elevated Installation >35' To 40', Add	47.97	
For Elevated Installation >40', Add	52.77	
For Work In Restricted Working Space, Add	28.78	
26 05 33 13-1126 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	607.45	57.57
For Elevated Installation >10' To 15', Add	11.51	
For Elevated Installation >15' To 20', Add	23.02	
For Elevated Installation >20' To 25', Add	28.78	
For Elevated Installation >25' To 30', Add	40.29	
For Elevated Installation >30' To 35', Add	46.05	
For Elevated Installation >35' To 40', Add	57.56	
For Elevated Installation >40', Add	63.32	
For Work In Restricted Working Space, Add	34.54	
26 05 33 13-1127 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Boxes With Cast Iron Cover <small>(26 05 33 13-0797)</small>		
26 05 33 13-1128 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover.....	209.04	28.78
For Elevated Installation >10' To 15', Add	5.76	
For Elevated Installation >15' To 20', Add	11.51	
For Elevated Installation >20' To 25', Add	14.39	
For Elevated Installation >25' To 30', Add	20.15	
For Elevated Installation >30' To 35', Add	23.03	
For Elevated Installation >35' To 40', Add	28.79	
For Elevated Installation >40', Add	31.66	
For Work In Restricted Working Space, Add	17.27	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1129	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	235.96	32.98
			<i>For Elevated Installation >10' To 15', Add</i>	6.60	
			<i>For Elevated Installation >15' To 20', Add</i>	13.19	
			<i>For Elevated Installation >20' To 25', Add</i>	16.49	
			<i>For Elevated Installation >25' To 30', Add</i>	23.09	
			<i>For Elevated Installation >30' To 35', Add</i>	26.38	
			<i>For Elevated Installation >35' To 40', Add</i>	32.98	
			<i>For Elevated Installation >40', Add</i>	36.28	
			<i>For Work In Restricted Working Space, Add</i>	19.79	
26 05 33 13-1130	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	257.15	37.78
			<i>For Elevated Installation >10' To 15', Add</i>	7.56	
			<i>For Elevated Installation >15' To 20', Add</i>	15.11	
			<i>For Elevated Installation >20' To 25', Add</i>	18.89	
			<i>For Elevated Installation >25' To 30', Add</i>	26.44	
			<i>For Elevated Installation >30' To 35', Add</i>	30.22	
			<i>For Elevated Installation >35' To 40', Add</i>	37.78	
			<i>For Elevated Installation >40', Add</i>	41.55	
			<i>For Work In Restricted Working Space, Add</i>	22.67	
26 05 33 13-1131	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	362.15	43.77
			<i>For Elevated Installation >10' To 15', Add</i>	8.76	
			<i>For Elevated Installation >15' To 20', Add</i>	17.51	
			<i>For Elevated Installation >20' To 25', Add</i>	21.89	
			<i>For Elevated Installation >25' To 30', Add</i>	30.64	
			<i>For Elevated Installation >30' To 35', Add</i>	35.02	
			<i>For Elevated Installation >35' To 40', Add</i>	43.78	
			<i>For Elevated Installation >40', Add</i>	48.15	
			<i>For Work In Restricted Working Space, Add</i>	26.27	
26 05 33 13-1132	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	606.68	47.97
			<i>For Elevated Installation >10' To 15', Add</i>	9.59	
			<i>For Elevated Installation >15' To 20', Add</i>	19.19	
			<i>For Elevated Installation >20' To 25', Add</i>	23.99	
			<i>For Elevated Installation >25' To 30', Add</i>	33.58	
			<i>For Elevated Installation >30' To 35', Add</i>	38.38	
			<i>For Elevated Installation >35' To 40', Add</i>	47.97	
			<i>For Elevated Installation >40', Add</i>	52.77	
			<i>For Work In Restricted Working Space, Add</i>	28.78	
26 05 33 13-1133	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	647.33	57.57
			<i>For Elevated Installation >10' To 15', Add</i>	11.51	
			<i>For Elevated Installation >15' To 20', Add</i>	23.02	
			<i>For Elevated Installation >20' To 25', Add</i>	28.78	
			<i>For Elevated Installation >25' To 30', Add</i>	40.29	
			<i>For Elevated Installation >30' To 35', Add</i>	46.05	
			<i>For Elevated Installation >35' To 40', Add</i>	57.56	
			<i>For Elevated Installation >40', Add</i>	63.32	
			<i>For Work In Restricted Working Space, Add</i>	34.54	
26 05 33 13-1134			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Boxes With Cast Iron Cover <small>(26 05 33 13-0797)</small>		
26 05 33 13-1135	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	209.18	28.78
			<i>For Elevated Installation >10' To 15', Add</i>	5.76	
			<i>For Elevated Installation >15' To 20', Add</i>	11.51	
			<i>For Elevated Installation >20' To 25', Add</i>	14.39	
			<i>For Elevated Installation >25' To 30', Add</i>	20.15	
			<i>For Elevated Installation >30' To 35', Add</i>	23.03	
			<i>For Elevated Installation >35' To 40', Add</i>	28.79	
			<i>For Elevated Installation >40', Add</i>	31.66	
			<i>For Work In Restricted Working Space, Add</i>	17.27	
26 05 33 13-1136	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	230.40	32.98
			<i>For Elevated Installation >10' To 15', Add</i>	6.60	
			<i>For Elevated Installation >15' To 20', Add</i>	13.19	
			<i>For Elevated Installation >20' To 25', Add</i>	16.49	
			<i>For Elevated Installation >25' To 30', Add</i>	23.09	
			<i>For Elevated Installation >30' To 35', Add</i>	26.38	
			<i>For Elevated Installation >35' To 40', Add</i>	32.98	
			<i>For Elevated Installation >40', Add</i>	36.28	
			<i>For Work In Restricted Working Space, Add</i>	19.79	
26 05 33 13-1137	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	274.46	37.78
			<i>For Elevated Installation >10' To 15', Add</i>	7.56	
			<i>For Elevated Installation >15' To 20', Add</i>	15.11	
			<i>For Elevated Installation >20' To 25', Add</i>	18.89	
			<i>For Elevated Installation >25' To 30', Add</i>	26.44	
			<i>For Elevated Installation >30' To 35', Add</i>	30.22	
			<i>For Elevated Installation >35' To 40', Add</i>	37.78	
			<i>For Elevated Installation >40', Add</i>	41.55	
			<i>For Work In Restricted Working Space, Add</i>	22.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1138 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	376.03	43.77
<i>For Elevated Installation >10' To 15', Add</i>	8.76	
<i>For Elevated Installation >15' To 20', Add</i>	17.51	
<i>For Elevated Installation >20' To 25', Add</i>	21.89	
<i>For Elevated Installation >25' To 30', Add</i>	30.64	
<i>For Elevated Installation >30' To 35', Add</i>	35.02	
<i>For Elevated Installation >35' To 40', Add</i>	43.78	
<i>For Elevated Installation >40', Add</i>	48.15	
<i>For Work In Restricted Working Space, Add</i>	26.27	
26 05 33 13-1139 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	627.39	47.97
<i>For Elevated Installation >10' To 15', Add</i>	9.59	
<i>For Elevated Installation >15' To 20', Add</i>	19.19	
<i>For Elevated Installation >20' To 25', Add</i>	23.99	
<i>For Elevated Installation >25' To 30', Add</i>	33.58	
<i>For Elevated Installation >30' To 35', Add</i>	38.38	
<i>For Elevated Installation >35' To 40', Add</i>	47.97	
<i>For Elevated Installation >40', Add</i>	52.77	
<i>For Work In Restricted Working Space, Add</i>	28.78	
26 05 33 13-1140 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover.....	672.86	57.57
<i>For Elevated Installation >10' To 15', Add</i>	11.51	
<i>For Elevated Installation >15' To 20', Add</i>	23.02	
<i>For Elevated Installation >20' To 25', Add</i>	28.78	
<i>For Elevated Installation >25' To 30', Add</i>	40.29	
<i>For Elevated Installation >30' To 35', Add</i>	46.05	
<i>For Elevated Installation >35' To 40', Add</i>	57.56	
<i>For Elevated Installation >40', Add</i>	63.32	
<i>For Work In Restricted Working Space, Add</i>	34.54	
26 05 33 13-1141 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Boxes With Cast Iron Cover <small>(26 05 33 13-0797)</small>		
26 05 33 13-1142 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover.....	261.34	28.78
<i>For Elevated Installation >10' To 15', Add</i>	5.76	
<i>For Elevated Installation >15' To 20', Add</i>	11.51	
<i>For Elevated Installation >20' To 25', Add</i>	14.39	
<i>For Elevated Installation >25' To 30', Add</i>	20.15	
<i>For Elevated Installation >30' To 35', Add</i>	23.03	
<i>For Elevated Installation >35' To 40', Add</i>	28.79	
<i>For Elevated Installation >40', Add</i>	31.66	
<i>For Work In Restricted Working Space, Add</i>	17.27	
26 05 33 13-1143 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover.....	288.38	32.98
<i>For Elevated Installation >10' To 15', Add</i>	6.60	
<i>For Elevated Installation >15' To 20', Add</i>	13.19	
<i>For Elevated Installation >20' To 25', Add</i>	16.49	
<i>For Elevated Installation >25' To 30', Add</i>	23.09	
<i>For Elevated Installation >30' To 35', Add</i>	26.38	
<i>For Elevated Installation >35' To 40', Add</i>	32.98	
<i>For Elevated Installation >40', Add</i>	36.28	
<i>For Work In Restricted Working Space, Add</i>	19.79	
26 05 33 13-1144 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover.....	312.16	37.78
<i>For Elevated Installation >10' To 15', Add</i>	7.56	
<i>For Elevated Installation >15' To 20', Add</i>	15.11	
<i>For Elevated Installation >20' To 25', Add</i>	18.89	
<i>For Elevated Installation >25' To 30', Add</i>	26.44	
<i>For Elevated Installation >30' To 35', Add</i>	30.22	
<i>For Elevated Installation >35' To 40', Add</i>	37.78	
<i>For Elevated Installation >40', Add</i>	41.55	
<i>For Work In Restricted Working Space, Add</i>	22.67	
26 05 33 13-1145 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover.....	797.58	43.77
<i>For Elevated Installation >10' To 15', Add</i>	8.76	
<i>For Elevated Installation >15' To 20', Add</i>	17.51	
<i>For Elevated Installation >20' To 25', Add</i>	21.89	
<i>For Elevated Installation >25' To 30', Add</i>	30.64	
<i>For Elevated Installation >30' To 35', Add</i>	35.02	
<i>For Elevated Installation >35' To 40', Add</i>	43.78	
<i>For Elevated Installation >40', Add</i>	48.15	
<i>For Work In Restricted Working Space, Add</i>	26.27	

26 05 33 13-1146 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Boxes (26 05 33 13-0797)
 Note: Excludes cover.

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1147	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box .....122.27		28.78
			<i>For Elevated Installation >10' To 15', Add</i>	5.76	
			<i>For Elevated Installation >15' To 20', Add</i>	11.51	
			<i>For Elevated Installation >20' To 25', Add</i>	14.39	
			<i>For Elevated Installation >25' To 30', Add</i>	20.15	
			<i>For Elevated Installation >30' To 35', Add</i>	23.03	
			<i>For Elevated Installation >35' To 40', Add</i>	28.79	
			<i>For Elevated Installation >40', Add</i>	31.66	
			<i>For Work In Restricted Working Space, Add</i>	17.27	
26 05 33 13-1148	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box .....134.16		32.98
			<i>For Elevated Installation >10' To 15', Add</i>	6.60	
			<i>For Elevated Installation >15' To 20', Add</i>	13.19	
			<i>For Elevated Installation >20' To 25', Add</i>	16.49	
			<i>For Elevated Installation >25' To 30', Add</i>	23.09	
			<i>For Elevated Installation >30' To 35', Add</i>	26.38	
			<i>For Elevated Installation >35' To 40', Add</i>	32.98	
			<i>For Elevated Installation >40', Add</i>	36.28	
			<i>For Work In Restricted Working Space, Add</i>	19.79	
26 05 33 13-1149	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box .....149.59		37.78
			<i>For Elevated Installation >10' To 15', Add</i>	7.56	
			<i>For Elevated Installation >15' To 20', Add</i>	15.11	
			<i>For Elevated Installation >20' To 25', Add</i>	18.89	
			<i>For Elevated Installation >25' To 30', Add</i>	26.44	
			<i>For Elevated Installation >30' To 35', Add</i>	30.22	
			<i>For Elevated Installation >35' To 40', Add</i>	37.78	
			<i>For Elevated Installation >40', Add</i>	41.55	
			<i>For Work In Restricted Working Space, Add</i>	22.67	
26 05 33 13-1150	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box .....136.41		28.78
			<i>For Elevated Installation >10' To 15', Add</i>	5.76	
			<i>For Elevated Installation >15' To 20', Add</i>	11.51	
			<i>For Elevated Installation >20' To 25', Add</i>	14.39	
			<i>For Elevated Installation >25' To 30', Add</i>	20.15	
			<i>For Elevated Installation >30' To 35', Add</i>	23.03	
			<i>For Elevated Installation >35' To 40', Add</i>	28.79	
			<i>For Elevated Installation >40', Add</i>	31.66	
			<i>For Work In Restricted Working Space, Add</i>	17.27	
26 05 33 13-1151	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box .....146.52		32.98
			<i>For Elevated Installation >10' To 15', Add</i>	6.60	
			<i>For Elevated Installation >15' To 20', Add</i>	13.19	
			<i>For Elevated Installation >20' To 25', Add</i>	16.49	
			<i>For Elevated Installation >25' To 30', Add</i>	23.09	
			<i>For Elevated Installation >30' To 35', Add</i>	26.38	
			<i>For Elevated Installation >35' To 40', Add</i>	32.98	
			<i>For Elevated Installation >40', Add</i>	36.28	
			<i>For Work In Restricted Working Space, Add</i>	19.79	
26 05 33 13-1152	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box .....166.78		37.78
			<i>For Elevated Installation >10' To 15', Add</i>	7.56	
			<i>For Elevated Installation >15' To 20', Add</i>	15.11	
			<i>For Elevated Installation >20' To 25', Add</i>	18.89	
			<i>For Elevated Installation >25' To 30', Add</i>	26.44	
			<i>For Elevated Installation >30' To 35', Add</i>	30.22	
			<i>For Elevated Installation >35' To 40', Add</i>	37.78	
			<i>For Elevated Installation >40', Add</i>	41.55	
			<i>For Work In Restricted Working Space, Add</i>	22.67	
26 05 33 13-1153			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Boxes <small>(26 05 33 13-0797)</small>		
			Note: Excludes cover.		
26 05 33 13-1154	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box .....128.95		28.78
			<i>For Elevated Installation >10' To 15', Add</i>	5.76	
			<i>For Elevated Installation >15' To 20', Add</i>	11.51	
			<i>For Elevated Installation >20' To 25', Add</i>	14.39	
			<i>For Elevated Installation >25' To 30', Add</i>	20.15	
			<i>For Elevated Installation >30' To 35', Add</i>	23.03	
			<i>For Elevated Installation >35' To 40', Add</i>	28.79	
			<i>For Elevated Installation >40', Add</i>	31.66	
			<i>For Work In Restricted Working Space, Add</i>	17.27	
26 05 33 13-1155	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box .....141.68		32.98
			<i>For Elevated Installation >10' To 15', Add</i>	6.60	
			<i>For Elevated Installation >15' To 20', Add</i>	13.19	
			<i>For Elevated Installation >20' To 25', Add</i>	16.49	
			<i>For Elevated Installation >25' To 30', Add</i>	23.09	
			<i>For Elevated Installation >30' To 35', Add</i>	26.38	
			<i>For Elevated Installation >35' To 40', Add</i>	32.98	
			<i>For Elevated Installation >40', Add</i>	36.28	
			<i>For Work In Restricted Working Space, Add</i>	19.79	
26 05 33 13-1156	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box .....154.80		37.78
			<i>For Elevated Installation >10' To 15', Add</i>	7.56	
			<i>For Elevated Installation >15' To 20', Add</i>	15.11	
			<i>For Elevated Installation >20' To 25', Add</i>	18.89	
			<i>For Elevated Installation >25' To 30', Add</i>	26.44	
			<i>For Elevated Installation >30' To 35', Add</i>	30.22	
			<i>For Elevated Installation >35' To 40', Add</i>	37.78	
			<i>For Elevated Installation >40', Add</i>	41.55	
			<i>For Work In Restricted Working Space, Add</i>	22.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1157 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box	145.97	28.78
For Elevated Installation >10' To 15', Add	5.76	
For Elevated Installation >15' To 20', Add	11.51	
For Elevated Installation >20' To 25', Add	14.39	
For Elevated Installation >25' To 30', Add	20.15	
For Elevated Installation >30' To 35', Add	23.03	
For Elevated Installation >35' To 40', Add	28.79	
For Elevated Installation >40', Add	31.66	
For Work In Restricted Working Space, Add	17.27	
26 05 33 13-1158 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box	158.87	32.98
For Elevated Installation >10' To 15', Add	6.60	
For Elevated Installation >15' To 20', Add	13.19	
For Elevated Installation >20' To 25', Add	16.49	
For Elevated Installation >25' To 30', Add	23.09	
For Elevated Installation >30' To 35', Add	26.38	
For Elevated Installation >35' To 40', Add	32.98	
For Elevated Installation >40', Add	36.28	
For Work In Restricted Working Space, Add	19.79	
26 05 33 13-1159 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box	179.49	37.78
For Elevated Installation >10' To 15', Add	7.56	
For Elevated Installation >15' To 20', Add	15.11	
For Elevated Installation >20' To 25', Add	18.89	
For Elevated Installation >25' To 30', Add	26.44	
For Elevated Installation >30' To 35', Add	30.22	
For Elevated Installation >35' To 40', Add	37.78	
For Elevated Installation >40', Add	41.55	
For Work In Restricted Working Space, Add	22.67	
26 05 33 13-1160 Polyvinyl Chloride (PVC) Coated, Urethane Lined, FS And FD Series Covers <small>(26 05 33 13-0797)</small>		
26 05 33 13-1161 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS23, FS And FD Series Cover	47.22	3.60
For Elevated Installation >10' To 15', Add	0.72	
For Elevated Installation >15' To 20', Add	1.44	
For Elevated Installation >20' To 25', Add	1.80	
For Elevated Installation >25' To 30', Add	2.52	
For Elevated Installation >30' To 35', Add	2.88	
For Elevated Installation >35' To 40', Add	3.60	
For Elevated Installation >40', Add	3.95	
For Work In Restricted Working Space, Add	2.16	
26 05 33 13-1162 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS21G, FS And FD Series Cover	64.39	4.19
For Elevated Installation >10' To 15', Add	0.84	
For Elevated Installation >15' To 20', Add	1.68	
For Elevated Installation >20' To 25', Add	2.10	
For Elevated Installation >25' To 30', Add	2.94	
For Elevated Installation >30' To 35', Add	3.36	
For Elevated Installation >35' To 40', Add	4.20	
For Elevated Installation >40', Add	4.62	
For Work In Restricted Working Space, Add	2.52	
26 05 33 13-1163 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS32G, FS And FD Series Cover	60.73	4.19
For Elevated Installation >10' To 15', Add	0.84	
For Elevated Installation >15' To 20', Add	1.68	
For Elevated Installation >20' To 25', Add	2.10	
For Elevated Installation >25' To 30', Add	2.94	
For Elevated Installation >30' To 35', Add	3.36	
For Elevated Installation >35' To 40', Add	4.20	
For Elevated Installation >40', Add	4.62	
For Work In Restricted Working Space, Add	2.52	
26 05 33 13-1164 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS100G, FS And FD Series Cover	53.87	4.19
For Elevated Installation >10' To 15', Add	0.84	
For Elevated Installation >15' To 20', Add	1.68	
For Elevated Installation >20' To 25', Add	2.10	
For Elevated Installation >25' To 30', Add	2.94	
For Elevated Installation >30' To 35', Add	3.36	
For Elevated Installation >35' To 40', Add	4.20	
For Elevated Installation >40', Add	4.62	
For Work In Restricted Working Space, Add	2.52	
26 05 33 13-1165 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRD1, FS And FD Series Cover	266.09	6.00
For Elevated Installation >10' To 15', Add	1.20	
For Elevated Installation >15' To 20', Add	2.40	
For Elevated Installation >20' To 25', Add	3.00	
For Elevated Installation >25' To 30', Add	4.20	
For Elevated Installation >30' To 35', Add	4.80	
For Elevated Installation >35' To 40', Add	6.00	
For Elevated Installation >40', Add	6.60	
For Work In Restricted Working Space, Add	3.60	
26 05 33 13-1166 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRS1, FS And FD Series Cover	236.36	6.00
For Elevated Installation >10' To 15', Add	1.20	
For Elevated Installation >15' To 20', Add	2.40	
For Elevated Installation >20' To 25', Add	3.00	
For Elevated Installation >25' To 30', Add	4.20	
For Elevated Installation >30' To 35', Add	4.80	
For Elevated Installation >35' To 40', Add	6.00	
For Elevated Installation >40', Add	6.60	
For Work In Restricted Working Space, Add	3.60	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1167		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Mogul Conduit Bodies <small>(26 05 33 13-0797)</small> Note: Includes covers.		
26 05 33	13-1168	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....270.62	37.78	
			For Elevated Installation >10' To 15', Add	7.56	
			For Elevated Installation >15' To 20', Add	15.11	
			For Elevated Installation >20' To 25', Add	18.89	
			For Elevated Installation >25' To 30', Add	26.44	
			For Elevated Installation >30' To 35', Add	30.22	
			For Elevated Installation >35' To 40', Add	37.78	
			For Elevated Installation >40', Add	41.55	
			For Work In Restricted Working Space, Add	22.67	
26 05 33	13-1169	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....303.67	43.77	
			For Elevated Installation >10' To 15', Add	8.76	
			For Elevated Installation >15' To 20', Add	17.51	
			For Elevated Installation >20' To 25', Add	21.89	
			For Elevated Installation >25' To 30', Add	30.64	
			For Elevated Installation >30' To 35', Add	35.02	
			For Elevated Installation >35' To 40', Add	43.78	
			For Elevated Installation >40', Add	48.15	
			For Work In Restricted Working Space, Add	26.27	
26 05 33	13-1170	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....422.20	47.97	
			For Elevated Installation >10' To 15', Add	9.59	
			For Elevated Installation >15' To 20', Add	19.19	
			For Elevated Installation >20' To 25', Add	23.99	
			For Elevated Installation >25' To 30', Add	33.58	
			For Elevated Installation >30' To 35', Add	38.38	
			For Elevated Installation >35' To 40', Add	47.97	
			For Elevated Installation >40', Add	52.77	
			For Work In Restricted Working Space, Add	28.78	
26 05 33	13-1171	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....502.98	57.57	
			For Elevated Installation >10' To 15', Add	11.51	
			For Elevated Installation >15' To 20', Add	23.02	
			For Elevated Installation >20' To 25', Add	28.78	
			For Elevated Installation >25' To 30', Add	40.29	
			For Elevated Installation >30' To 35', Add	46.05	
			For Elevated Installation >35' To 40', Add	57.56	
			For Elevated Installation >40', Add	63.32	
			For Work In Restricted Working Space, Add	34.54	
26 05 33	13-1172	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....727.16	80.95	
			For Elevated Installation >10' To 15', Add	16.19	
			For Elevated Installation >15' To 20', Add	32.38	
			For Elevated Installation >20' To 25', Add	40.47	
			For Elevated Installation >25' To 30', Add	56.66	
			For Elevated Installation >30' To 35', Add	64.76	
			For Elevated Installation >35' To 40', Add	80.95	
			For Elevated Installation >40', Add	89.04	
			For Work In Restricted Working Space, Add	48.57	
26 05 33	13-1173	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....916.18	107.93	
			For Elevated Installation >10' To 15', Add	21.59	
			For Elevated Installation >15' To 20', Add	43.17	
			For Elevated Installation >20' To 25', Add	53.97	
			For Elevated Installation >25' To 30', Add	75.55	
			For Elevated Installation >30' To 35', Add	86.34	
			For Elevated Installation >35' To 40', Add	107.93	
			For Elevated Installation >40', Add	118.72	
			For Work In Restricted Working Space, Add	64.76	
26 05 33	13-1174	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....1,348.39	134.91	
			For Elevated Installation >10' To 15', Add	26.98	
			For Elevated Installation >15' To 20', Add	53.96	
			For Elevated Installation >20' To 25', Add	67.46	
			For Elevated Installation >25' To 30', Add	94.44	
			For Elevated Installation >30' To 35', Add	107.93	
			For Elevated Installation >35' To 40', Add	134.91	
			For Elevated Installation >40', Add	148.40	
			For Work In Restricted Working Space, Add	80.95	
26 05 33	13-1175	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....1,673.83	164.29	
			For Elevated Installation >10' To 15', Add	32.86	
			For Elevated Installation >15' To 20', Add	65.72	
			For Elevated Installation >20' To 25', Add	82.15	
			For Elevated Installation >25' To 30', Add	115.01	
			For Elevated Installation >30' To 35', Add	131.44	
			For Elevated Installation >35' To 40', Add	164.30	
			For Elevated Installation >40', Add	180.72	
			For Work In Restricted Working Space, Add	98.58	
26 05 33	13-1176	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....270.62	37.78	
			For Elevated Installation >10' To 15', Add	7.56	
			For Elevated Installation >15' To 20', Add	15.11	
			For Elevated Installation >20' To 25', Add	18.89	
			For Elevated Installation >25' To 30', Add	26.44	
			For Elevated Installation >30' To 35', Add	30.22	
			For Elevated Installation >35' To 40', Add	37.78	
			For Elevated Installation >40', Add	41.55	
			For Work In Restricted Working Space, Add	22.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1177 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....303.67	303.67	43.77
<i>For Elevated Installation >10' To 15', Add</i>	8.76	
<i>For Elevated Installation >15' To 20', Add</i>	17.51	
<i>For Elevated Installation >20' To 25', Add</i>	21.89	
<i>For Elevated Installation >25' To 30', Add</i>	30.64	
<i>For Elevated Installation >30' To 35', Add</i>	35.02	
<i>For Elevated Installation >35' To 40', Add</i>	43.78	
<i>For Elevated Installation >40', Add</i>	48.15	
<i>For Work In Restricted Working Space, Add</i>	26.27	
26 05 33 13-1178 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....421.00	421.00	47.97
<i>For Elevated Installation >10' To 15', Add</i>	9.59	
<i>For Elevated Installation >15' To 20', Add</i>	19.19	
<i>For Elevated Installation >20' To 25', Add</i>	23.99	
<i>For Elevated Installation >25' To 30', Add</i>	33.58	
<i>For Elevated Installation >30' To 35', Add</i>	38.38	
<i>For Elevated Installation >35' To 40', Add</i>	47.97	
<i>For Elevated Installation >40', Add</i>	52.77	
<i>For Work In Restricted Working Space, Add</i>	28.78	
26 05 33 13-1179 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....490.88	490.88	57.57
<i>For Elevated Installation >10' To 15', Add</i>	11.51	
<i>For Elevated Installation >15' To 20', Add</i>	23.02	
<i>For Elevated Installation >20' To 25', Add</i>	28.78	
<i>For Elevated Installation >25' To 30', Add</i>	40.29	
<i>For Elevated Installation >30' To 35', Add</i>	46.05	
<i>For Elevated Installation >35' To 40', Add</i>	57.56	
<i>For Elevated Installation >40', Add</i>	63.32	
<i>For Work In Restricted Working Space, Add</i>	34.54	
26 05 33 13-1180 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....738.30	738.30	80.95
<i>For Elevated Installation >10' To 15', Add</i>	16.19	
<i>For Elevated Installation >15' To 20', Add</i>	32.38	
<i>For Elevated Installation >20' To 25', Add</i>	40.47	
<i>For Elevated Installation >25' To 30', Add</i>	56.66	
<i>For Elevated Installation >30' To 35', Add</i>	64.76	
<i>For Elevated Installation >35' To 40', Add</i>	80.95	
<i>For Elevated Installation >40', Add</i>	89.04	
<i>For Work In Restricted Working Space, Add</i>	48.57	
26 05 33 13-1181 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....966.18	966.18	107.93
<i>For Elevated Installation >10' To 15', Add</i>	21.59	
<i>For Elevated Installation >15' To 20', Add</i>	43.17	
<i>For Elevated Installation >20' To 25', Add</i>	53.97	
<i>For Elevated Installation >25' To 30', Add</i>	75.55	
<i>For Elevated Installation >30' To 35', Add</i>	86.34	
<i>For Elevated Installation >35' To 40', Add</i>	107.93	
<i>For Elevated Installation >40', Add</i>	118.72	
<i>For Work In Restricted Working Space, Add</i>	64.76	
26 05 33 13-1182 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....1,408.75	1,408.75	134.91
<i>For Elevated Installation >10' To 15', Add</i>	26.98	
<i>For Elevated Installation >15' To 20', Add</i>	53.96	
<i>For Elevated Installation >20' To 25', Add</i>	67.46	
<i>For Elevated Installation >25' To 30', Add</i>	94.44	
<i>For Elevated Installation >30' To 35', Add</i>	107.93	
<i>For Elevated Installation >35' To 40', Add</i>	134.91	
<i>For Elevated Installation >40', Add</i>	148.40	
<i>For Work In Restricted Working Space, Add</i>	80.95	
26 05 33 13-1183 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....1,711.41	1,711.41	164.29
<i>For Elevated Installation >10' To 15', Add</i>	32.86	
<i>For Elevated Installation >15' To 20', Add</i>	65.72	
<i>For Elevated Installation >20' To 25', Add</i>	82.15	
<i>For Elevated Installation >25' To 30', Add</i>	115.01	
<i>For Elevated Installation >30' To 35', Add</i>	131.44	
<i>For Elevated Installation >35' To 40', Add</i>	164.30	
<i>For Elevated Installation >40', Add</i>	180.72	
<i>For Work In Restricted Working Space, Add</i>	98.58	
26 05 33 13-1184 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body .....270.62	270.62	37.78
<i>For Elevated Installation >10' To 15', Add</i>	7.56	
<i>For Elevated Installation >15' To 20', Add</i>	15.11	
<i>For Elevated Installation >20' To 25', Add</i>	18.89	
<i>For Elevated Installation >25' To 30', Add</i>	26.44	
<i>For Elevated Installation >30' To 35', Add</i>	30.22	
<i>For Elevated Installation >35' To 40', Add</i>	37.78	
<i>For Elevated Installation >40', Add</i>	41.55	
<i>For Work In Restricted Working Space, Add</i>	22.67	
26 05 33 13-1185 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body .....303.67	303.67	43.77
<i>For Elevated Installation >10' To 15', Add</i>	8.76	
<i>For Elevated Installation >15' To 20', Add</i>	17.51	
<i>For Elevated Installation >20' To 25', Add</i>	21.89	
<i>For Elevated Installation >25' To 30', Add</i>	30.64	
<i>For Elevated Installation >30' To 35', Add</i>	35.02	
<i>For Elevated Installation >35' To 40', Add</i>	43.78	
<i>For Elevated Installation >40', Add</i>	48.15	
<i>For Work In Restricted Working Space, Add</i>	26.27	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1186 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	421.00	47.97
For Elevated Installation >10' To 15', Add	9.59	
For Elevated Installation >15' To 20', Add	19.19	
For Elevated Installation >20' To 25', Add	23.99	
For Elevated Installation >25' To 30', Add	33.58	
For Elevated Installation >30' To 35', Add	38.38	
For Elevated Installation >35' To 40', Add	47.97	
For Elevated Installation >40', Add	52.77	
For Work In Restricted Working Space, Add	28.78	
26 05 33 13-1187 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	490.88	57.57
For Elevated Installation >10' To 15', Add	11.51	
For Elevated Installation >15' To 20', Add	23.02	
For Elevated Installation >20' To 25', Add	28.78	
For Elevated Installation >25' To 30', Add	40.29	
For Elevated Installation >30' To 35', Add	46.05	
For Elevated Installation >35' To 40', Add	57.56	
For Elevated Installation >40', Add	63.32	
For Work In Restricted Working Space, Add	34.54	
26 05 33 13-1188 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	738.30	80.95
For Elevated Installation >10' To 15', Add	16.19	
For Elevated Installation >15' To 20', Add	32.38	
For Elevated Installation >20' To 25', Add	40.47	
For Elevated Installation >25' To 30', Add	56.66	
For Elevated Installation >30' To 35', Add	64.76	
For Elevated Installation >35' To 40', Add	80.95	
For Elevated Installation >40', Add	89.04	
For Work In Restricted Working Space, Add	48.57	
26 05 33 13-1189 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	966.18	107.93
For Elevated Installation >10' To 15', Add	21.59	
For Elevated Installation >15' To 20', Add	43.17	
For Elevated Installation >20' To 25', Add	53.97	
For Elevated Installation >25' To 30', Add	75.55	
For Elevated Installation >30' To 35', Add	86.34	
For Elevated Installation >35' To 40', Add	107.93	
For Elevated Installation >40', Add	118.72	
For Work In Restricted Working Space, Add	64.76	
26 05 33 13-1190 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	1,408.75	134.91
For Elevated Installation >10' To 15', Add	26.98	
For Elevated Installation >15' To 20', Add	53.96	
For Elevated Installation >20' To 25', Add	67.46	
For Elevated Installation >25' To 30', Add	94.44	
For Elevated Installation >30' To 35', Add	107.93	
For Elevated Installation >35' To 40', Add	134.91	
For Elevated Installation >40', Add	148.40	
For Work In Restricted Working Space, Add	80.95	
26 05 33 13-1191 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	1,711.41	164.29
For Elevated Installation >10' To 15', Add	32.86	
For Elevated Installation >15' To 20', Add	65.72	
For Elevated Installation >20' To 25', Add	82.15	
For Elevated Installation >25' To 30', Add	115.01	
For Elevated Installation >30' To 35', Add	131.44	
For Elevated Installation >35' To 40', Add	164.30	
For Elevated Installation >40', Add	180.72	
For Work In Restricted Working Space, Add	98.58	
26 05 33 13-1192 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	270.62	37.78
For Elevated Installation >10' To 15', Add	7.56	
For Elevated Installation >15' To 20', Add	15.11	
For Elevated Installation >20' To 25', Add	18.89	
For Elevated Installation >25' To 30', Add	26.44	
For Elevated Installation >30' To 35', Add	30.22	
For Elevated Installation >35' To 40', Add	37.78	
For Elevated Installation >40', Add	41.55	
For Work In Restricted Working Space, Add	22.67	
26 05 33 13-1193 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	303.67	43.77
For Elevated Installation >10' To 15', Add	8.76	
For Elevated Installation >15' To 20', Add	17.51	
For Elevated Installation >20' To 25', Add	21.89	
For Elevated Installation >25' To 30', Add	30.64	
For Elevated Installation >30' To 35', Add	35.02	
For Elevated Installation >35' To 40', Add	43.78	
For Elevated Installation >40', Add	48.15	
For Work In Restricted Working Space, Add	26.27	
26 05 33 13-1194 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	422.20	47.97
For Elevated Installation >10' To 15', Add	9.59	
For Elevated Installation >15' To 20', Add	19.19	
For Elevated Installation >20' To 25', Add	23.99	
For Elevated Installation >25' To 30', Add	33.58	
For Elevated Installation >30' To 35', Add	38.38	
For Elevated Installation >35' To 40', Add	47.97	
For Elevated Installation >40', Add	52.77	
For Work In Restricted Working Space, Add	28.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1195 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	497.40	57.57
For Elevated Installation >10' To 15', Add	11.51	
For Elevated Installation >15' To 20', Add	23.02	
For Elevated Installation >20' To 25', Add	28.78	
For Elevated Installation >25' To 30', Add	40.29	
For Elevated Installation >30' To 35', Add	46.05	
For Elevated Installation >35' To 40', Add	57.56	
For Elevated Installation >40', Add	63.32	
For Work In Restricted Working Space, Add	34.54	
26 05 33 13-1196 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	727.16	80.95
For Elevated Installation >10' To 15', Add	16.19	
For Elevated Installation >15' To 20', Add	32.38	
For Elevated Installation >20' To 25', Add	40.47	
For Elevated Installation >25' To 30', Add	56.66	
For Elevated Installation >30' To 35', Add	64.76	
For Elevated Installation >35' To 40', Add	80.95	
For Elevated Installation >40', Add	89.04	
For Work In Restricted Working Space, Add	48.57	
26 05 33 13-1197 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	916.18	107.93
For Elevated Installation >10' To 15', Add	21.59	
For Elevated Installation >15' To 20', Add	43.17	
For Elevated Installation >20' To 25', Add	53.97	
For Elevated Installation >25' To 30', Add	75.55	
For Elevated Installation >30' To 35', Add	86.34	
For Elevated Installation >35' To 40', Add	107.93	
For Elevated Installation >40', Add	118.72	
For Work In Restricted Working Space, Add	64.76	
26 05 33 13-1198 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	1,348.39	134.91
For Elevated Installation >10' To 15', Add	26.98	
For Elevated Installation >15' To 20', Add	53.96	
For Elevated Installation >20' To 25', Add	67.46	
For Elevated Installation >25' To 30', Add	94.44	
For Elevated Installation >30' To 35', Add	107.93	
For Elevated Installation >35' To 40', Add	134.91	
For Elevated Installation >40', Add	148.40	
For Work In Restricted Working Space, Add	80.95	
26 05 33 13-1199 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	1,689.48	164.29
For Elevated Installation >10' To 15', Add	32.86	
For Elevated Installation >15' To 20', Add	65.72	
For Elevated Installation >20' To 25', Add	82.15	
For Elevated Installation >25' To 30', Add	115.01	
For Elevated Installation >30' To 35', Add	131.44	
For Elevated Installation >35' To 40', Add	164.30	
For Elevated Installation >40', Add	180.72	
For Work In Restricted Working Space, Add	98.58	
26 05 33 13-1200 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Covers <small>(26 05 33 13-0797)</small>		
26 05 33 13-1201 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	137.88	5.40
For Elevated Installation >10' To 15', Add	1.08	
For Elevated Installation >15' To 20', Add	2.16	
For Elevated Installation >20' To 25', Add	2.70	
For Elevated Installation >25' To 30', Add	3.78	
For Elevated Installation >30' To 35', Add	4.32	
For Elevated Installation >35' To 40', Add	5.40	
For Elevated Installation >40', Add	5.93	
For Work In Restricted Working Space, Add	3.24	
26 05 33 13-1202 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	139.09	6.00
For Elevated Installation >10' To 15', Add	1.20	
For Elevated Installation >15' To 20', Add	2.40	
For Elevated Installation >20' To 25', Add	3.00	
For Elevated Installation >25' To 30', Add	4.20	
For Elevated Installation >30' To 35', Add	4.80	
For Elevated Installation >35' To 40', Add	6.00	
For Elevated Installation >40', Add	6.60	
For Work In Restricted Working Space, Add	3.60	
26 05 33 13-1203 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	196.64	8.40
For Elevated Installation >10' To 15', Add	1.68	
For Elevated Installation >15' To 20', Add	3.36	
For Elevated Installation >20' To 25', Add	4.20	
For Elevated Installation >25' To 30', Add	5.88	
For Elevated Installation >30' To 35', Add	6.72	
For Elevated Installation >35' To 40', Add	8.40	
For Elevated Installation >40', Add	9.23	
For Work In Restricted Working Space, Add	5.04	

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26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1204	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	199.04 1.92 3.84 4.80 6.72 7.68 9.60 10.55 5.76	9.59
26 05 33 13-1205	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	349.15 2.28 4.56 5.70 7.98 9.12 11.40 12.53 6.84	11.39
26 05 33 13-1206	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	355.14 2.88 5.76 7.20 10.07 11.51 14.39 15.83 8.63	14.39
26 05 33 13-1207	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	536.26 3.24 6.48 8.10 11.33 12.95 16.19 17.81 9.71	16.19
26 05 33 13-1208	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	545.85 4.20 8.39 10.49 14.69 16.79 20.99 23.08 12.59	20.98
26 05 33 13-1209 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings <small>(26 05 33 13-0797)</small>					
26 05 33 13-1210	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	236.03 3.00 6.00 7.50 10.49 11.99 14.99 16.49 8.99	14.99
26 05 33 13-1211	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	278.65 3.72 7.43 9.29 13.01 14.87 18.59 20.44 11.15	18.59
26 05 33 13-1212	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	329.64 4.56 9.11 11.39 15.95 18.23 22.79 25.06 13.67	22.79



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1213 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	406.51	26.38
For Elevated Installation >10' To 15', Add	5.28	
For Elevated Installation >15' To 20', Add	10.55	
For Elevated Installation >20' To 25', Add	13.19	
For Elevated Installation >25' To 30', Add	18.47	
For Elevated Installation >30' To 35', Add	21.10	
For Elevated Installation >35' To 40', Add	26.38	
For Elevated Installation >40', Add	29.02	
For Work In Restricted Working Space, Add	15.83	
26 05 33 13-1214 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	544.76	29.98
For Elevated Installation >10' To 15', Add	6.00	
For Elevated Installation >15' To 20', Add	11.99	
For Elevated Installation >20' To 25', Add	14.99	
For Elevated Installation >25' To 30', Add	20.99	
For Elevated Installation >30' To 35', Add	23.98	
For Elevated Installation >35' To 40', Add	29.98	
For Elevated Installation >40', Add	32.98	
For Work In Restricted Working Space, Add	17.99	
26 05 33 13-1215 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	756.38	32.98
For Elevated Installation >10' To 15', Add	6.60	
For Elevated Installation >15' To 20', Add	13.19	
For Elevated Installation >20' To 25', Add	16.49	
For Elevated Installation >25' To 30', Add	23.09	
For Elevated Installation >30' To 35', Add	26.38	
For Elevated Installation >35' To 40', Add	32.98	
For Elevated Installation >40', Add	36.28	
For Work In Restricted Working Space, Add	19.79	
26 05 33 13-1216 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,081.66	41.38
For Elevated Installation >10' To 15', Add	8.27	
For Elevated Installation >15' To 20', Add	16.55	
For Elevated Installation >20' To 25', Add	20.69	
For Elevated Installation >25' To 30', Add	28.96	
For Elevated Installation >30' To 35', Add	33.10	
For Elevated Installation >35' To 40', Add	41.37	
For Elevated Installation >40', Add	45.51	
For Work In Restricted Working Space, Add	24.82	
26 05 33 13-1217 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,343.74	56.36
For Elevated Installation >10' To 15', Add	11.27	
For Elevated Installation >15' To 20', Add	22.54	
For Elevated Installation >20' To 25', Add	28.18	
For Elevated Installation >25' To 30', Add	39.45	
For Elevated Installation >30' To 35', Add	45.09	
For Elevated Installation >35' To 40', Add	56.36	
For Elevated Installation >40', Add	62.00	
For Work In Restricted Working Space, Add	33.82	
26 05 33 13-1218 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,889.23	63.55
For Elevated Installation >10' To 15', Add	12.71	
For Elevated Installation >15' To 20', Add	25.42	
For Elevated Installation >20' To 25', Add	31.78	
For Elevated Installation >25' To 30', Add	44.49	
For Elevated Installation >30' To 35', Add	50.85	
For Elevated Installation >35' To 40', Add	63.56	
For Elevated Installation >40', Add	69.92	
For Work In Restricted Working Space, Add	38.14	
26 05 33 13-1219 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	2,175.02	82.74
For Elevated Installation >10' To 15', Add	16.55	
For Elevated Installation >15' To 20', Add	33.10	
For Elevated Installation >20' To 25', Add	41.37	
For Elevated Installation >25' To 30', Add	57.92	
For Elevated Installation >30' To 35', Add	66.20	
For Elevated Installation >35' To 40', Add	82.75	
For Elevated Installation >40', Add	91.02	
For Work In Restricted Working Space, Add	49.65	
26 05 33 13-1220 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings With Bonding Jumper <small>(26 05 33 13-0797)</small>		
26 05 33 13-1221 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	377.19	14.99
For Elevated Installation >10' To 15', Add	3.00	
For Elevated Installation >15' To 20', Add	6.00	
For Elevated Installation >20' To 25', Add	7.50	
For Elevated Installation >25' To 30', Add	10.49	
For Elevated Installation >30' To 35', Add	11.99	
For Elevated Installation >35' To 40', Add	14.99	
For Elevated Installation >40', Add	16.49	
For Work In Restricted Working Space, Add	8.99	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1222	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	390.92	18.59
			<i>For Elevated Installation >10' To 15', Add</i>	3.72	
			<i>For Elevated Installation >15' To 20', Add</i>	7.43	
			<i>For Elevated Installation >20' To 25', Add</i>	9.29	
			<i>For Elevated Installation >25' To 30', Add</i>	13.01	
			<i>For Elevated Installation >30' To 35', Add</i>	14.87	
			<i>For Elevated Installation >35' To 40', Add</i>	18.59	
			<i>For Elevated Installation >40', Add</i>	20.44	
			<i>For Work In Restricted Working Space, Add</i>	11.15	
26 05 33	13-1223	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	438.59	22.79
			<i>For Elevated Installation >10' To 15', Add</i>	4.56	
			<i>For Elevated Installation >15' To 20', Add</i>	9.11	
			<i>For Elevated Installation >20' To 25', Add</i>	11.39	
			<i>For Elevated Installation >25' To 30', Add</i>	15.95	
			<i>For Elevated Installation >30' To 35', Add</i>	18.23	
			<i>For Elevated Installation >35' To 40', Add</i>	22.79	
			<i>For Elevated Installation >40', Add</i>	25.06	
			<i>For Work In Restricted Working Space, Add</i>	13.67	
26 05 33	13-1224	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	531.02	26.38
			<i>For Elevated Installation >10' To 15', Add</i>	5.28	
			<i>For Elevated Installation >15' To 20', Add</i>	10.55	
			<i>For Elevated Installation >20' To 25', Add</i>	13.19	
			<i>For Elevated Installation >25' To 30', Add</i>	18.47	
			<i>For Elevated Installation >30' To 35', Add</i>	21.10	
			<i>For Elevated Installation >35' To 40', Add</i>	26.38	
			<i>For Elevated Installation >40', Add</i>	29.02	
			<i>For Work In Restricted Working Space, Add</i>	15.83	
26 05 33	13-1225	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	644.16	29.98
			<i>For Elevated Installation >10' To 15', Add</i>	6.00	
			<i>For Elevated Installation >15' To 20', Add</i>	11.99	
			<i>For Elevated Installation >20' To 25', Add</i>	14.99	
			<i>For Elevated Installation >25' To 30', Add</i>	20.99	
			<i>For Elevated Installation >30' To 35', Add</i>	23.98	
			<i>For Elevated Installation >35' To 40', Add</i>	29.98	
			<i>For Elevated Installation >40', Add</i>	32.98	
			<i>For Work In Restricted Working Space, Add</i>	17.99	
26 05 33	13-1226	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	824.81	32.98
			<i>For Elevated Installation >10' To 15', Add</i>	6.60	
			<i>For Elevated Installation >15' To 20', Add</i>	13.19	
			<i>For Elevated Installation >20' To 25', Add</i>	16.49	
			<i>For Elevated Installation >25' To 30', Add</i>	23.09	
			<i>For Elevated Installation >30' To 35', Add</i>	26.38	
			<i>For Elevated Installation >35' To 40', Add</i>	32.98	
			<i>For Elevated Installation >40', Add</i>	36.28	
			<i>For Work In Restricted Working Space, Add</i>	19.79	
26 05 33	13-1227	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	1,219.51	41.38
			<i>For Elevated Installation >10' To 15', Add</i>	8.27	
			<i>For Elevated Installation >15' To 20', Add</i>	16.55	
			<i>For Elevated Installation >20' To 25', Add</i>	20.69	
			<i>For Elevated Installation >25' To 30', Add</i>	28.96	
			<i>For Elevated Installation >30' To 35', Add</i>	33.10	
			<i>For Elevated Installation >35' To 40', Add</i>	41.37	
			<i>For Elevated Installation >40', Add</i>	45.51	
			<i>For Work In Restricted Working Space, Add</i>	24.82	
26 05 33	13-1228	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	1,527.95	56.36
			<i>For Elevated Installation >10' To 15', Add</i>	11.27	
			<i>For Elevated Installation >15' To 20', Add</i>	22.54	
			<i>For Elevated Installation >20' To 25', Add</i>	28.18	
			<i>For Elevated Installation >25' To 30', Add</i>	39.45	
			<i>For Elevated Installation >30' To 35', Add</i>	45.09	
			<i>For Elevated Installation >35' To 40', Add</i>	56.36	
			<i>For Elevated Installation >40', Add</i>	62.00	
			<i>For Work In Restricted Working Space, Add</i>	33.82	
26 05 33	13-1229	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	1,948.70	63.55
			<i>For Elevated Installation >10' To 15', Add</i>	12.71	
			<i>For Elevated Installation >15' To 20', Add</i>	25.42	
			<i>For Elevated Installation >20' To 25', Add</i>	31.78	
			<i>For Elevated Installation >25' To 30', Add</i>	44.49	
			<i>For Elevated Installation >30' To 35', Add</i>	50.85	
			<i>For Elevated Installation >35' To 40', Add</i>	63.56	
			<i>For Elevated Installation >40', Add</i>	69.92	
			<i>For Work In Restricted Working Space, Add</i>	38.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1230 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	2,438.40	82.74
<i>For Elevated Installation >10' To 15', Add</i>	16.55	
<i>For Elevated Installation >15' To 20', Add</i>	33.10	
<i>For Elevated Installation >20' To 25', Add</i>	41.37	
<i>For Elevated Installation >25' To 30', Add</i>	57.92	
<i>For Elevated Installation >30' To 35', Add</i>	66.20	
<i>For Elevated Installation >35' To 40', Add</i>	82.75	
<i>For Elevated Installation >40', Add</i>	91.02	
<i>For Work In Restricted Working Space, Add</i>	49.65	
26 05 33 13-1231 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STG Knockout Hubs <small>(26 05 33 13-0797)</small>		
26 05 33 13-1232 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub.....	77.43	7.19
<i>For Elevated Installation >10' To 15', Add</i>	1.44	
<i>For Elevated Installation >15' To 20', Add</i>	2.88	
<i>For Elevated Installation >20' To 25', Add</i>	3.60	
<i>For Elevated Installation >25' To 30', Add</i>	5.04	
<i>For Elevated Installation >30' To 35', Add</i>	5.76	
<i>For Elevated Installation >35' To 40', Add</i>	7.20	
<i>For Elevated Installation >40', Add</i>	7.91	
<i>For Work In Restricted Working Space, Add</i>	4.32	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.32	
26 05 33 13-1233 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub.....	83.68	9.00
<i>For Elevated Installation >10' To 15', Add</i>	1.80	
<i>For Elevated Installation >15' To 20', Add</i>	3.60	
<i>For Elevated Installation >20' To 25', Add</i>	4.50	
<i>For Elevated Installation >25' To 30', Add</i>	6.29	
<i>For Elevated Installation >30' To 35', Add</i>	7.19	
<i>For Elevated Installation >35' To 40', Add</i>	8.99	
<i>For Elevated Installation >40', Add</i>	9.99	
<i>For Work In Restricted Working Space, Add</i>	5.39	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.39	
26 05 33 13-1234 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub.....	91.87	10.79
<i>For Elevated Installation >10' To 15', Add</i>	2.16	
<i>For Elevated Installation >15' To 20', Add</i>	4.32	
<i>For Elevated Installation >20' To 25', Add</i>	5.40	
<i>For Elevated Installation >25' To 30', Add</i>	7.56	
<i>For Elevated Installation >30' To 35', Add</i>	8.64	
<i>For Elevated Installation >35' To 40', Add</i>	10.80	
<i>For Elevated Installation >40', Add</i>	11.87	
<i>For Work In Restricted Working Space, Add</i>	6.48	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.48	
26 05 33 13-1235 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub.....	103.71	13.19
<i>For Elevated Installation >10' To 15', Add</i>	2.64	
<i>For Elevated Installation >15' To 20', Add</i>	5.28	
<i>For Elevated Installation >20' To 25', Add</i>	6.60	
<i>For Elevated Installation >25' To 30', Add</i>	9.23	
<i>For Elevated Installation >30' To 35', Add</i>	10.55	
<i>For Elevated Installation >35' To 40', Add</i>	13.19	
<i>For Elevated Installation >40', Add</i>	14.51	
<i>For Work In Restricted Working Space, Add</i>	7.91	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.91	
26 05 33 13-1236 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub.....	140.12	14.99
<i>For Elevated Installation >10' To 15', Add</i>	3.00	
<i>For Elevated Installation >15' To 20', Add</i>	6.00	
<i>For Elevated Installation >20' To 25', Add</i>	7.50	
<i>For Elevated Installation >25' To 30', Add</i>	10.49	
<i>For Elevated Installation >30' To 35', Add</i>	11.99	
<i>For Elevated Installation >35' To 40', Add</i>	14.99	
<i>For Elevated Installation >40', Add</i>	16.49	
<i>For Work In Restricted Working Space, Add</i>	8.99	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.99	
26 05 33 13-1237 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub.....	171.58	16.79
<i>For Elevated Installation >10' To 15', Add</i>	3.36	
<i>For Elevated Installation >15' To 20', Add</i>	6.72	
<i>For Elevated Installation >20' To 25', Add</i>	8.40	
<i>For Elevated Installation >25' To 30', Add</i>	11.75	
<i>For Elevated Installation >30' To 35', Add</i>	13.43	
<i>For Elevated Installation >35' To 40', Add</i>	16.79	
<i>For Elevated Installation >40', Add</i>	18.47	
<i>For Work In Restricted Working Space, Add</i>	10.07	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.07	
26 05 33 13-1238 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub.....	246.29	20.98
<i>For Elevated Installation >10' To 15', Add</i>	4.20	
<i>For Elevated Installation >15' To 20', Add</i>	8.39	
<i>For Elevated Installation >20' To 25', Add</i>	10.49	
<i>For Elevated Installation >25' To 30', Add</i>	14.69	
<i>For Elevated Installation >30' To 35', Add</i>	16.79	
<i>For Elevated Installation >35' To 40', Add</i>	20.99	
<i>For Elevated Installation >40', Add</i>	23.08	
<i>For Work In Restricted Working Space, Add</i>	12.59	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.59	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1239 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub.....	321.35	28.19
For Elevated Installation >10' To 15', Add	5.64	
For Elevated Installation >15' To 20', Add	11.27	
For Elevated Installation >20' To 25', Add	14.09	
For Elevated Installation >25' To 30', Add	19.73	
For Elevated Installation >30' To 35', Add	22.54	
For Elevated Installation >35' To 40', Add	28.18	
For Elevated Installation >40', Add	31.00	
For Work In Restricted Working Space, Add	16.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.91	
26 05 33 13-1240 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub.....	411.26	31.78
For Elevated Installation >10' To 15', Add	6.36	
For Elevated Installation >15' To 20', Add	12.71	
For Elevated Installation >20' To 25', Add	15.89	
For Elevated Installation >25' To 30', Add	22.24	
For Elevated Installation >30' To 35', Add	25.42	
For Elevated Installation >35' To 40', Add	31.78	
For Elevated Installation >40', Add	34.95	
For Work In Restricted Working Space, Add	19.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.07	
26 05 33 13-1241 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub.....	516.94	41.38
For Elevated Installation >10' To 15', Add	8.27	
For Elevated Installation >15' To 20', Add	16.55	
For Elevated Installation >20' To 25', Add	20.69	
For Elevated Installation >25' To 30', Add	28.96	
For Elevated Installation >30' To 35', Add	33.10	
For Elevated Installation >35' To 40', Add	41.37	
For Elevated Installation >40', Add	45.51	
For Work In Restricted Working Space, Add	24.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.82	
26 05 33 13-1242 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub.....	639.27	67.15
For Elevated Installation >10' To 15', Add	13.43	
For Elevated Installation >15' To 20', Add	26.86	
For Elevated Installation >20' To 25', Add	33.58	
For Elevated Installation >25' To 30', Add	47.01	
For Elevated Installation >30' To 35', Add	53.72	
For Elevated Installation >35' To 40', Add	67.16	
For Elevated Installation >40', Add	73.87	
For Work In Restricted Working Space, Add	40.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.29	
26 05 33 13-1243 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub.....	964.11	101.33
For Elevated Installation >10' To 15', Add	20.27	
For Elevated Installation >15' To 20', Add	40.53	
For Elevated Installation >20' To 25', Add	50.67	
For Elevated Installation >25' To 30', Add	70.93	
For Elevated Installation >30' To 35', Add	81.07	
For Elevated Installation >35' To 40', Add	101.34	
For Elevated Installation >40', Add	111.47	
For Work In Restricted Working Space, Add	60.80	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.80	
26 05 33 13-1244 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs (26 05 33 13-0797)		
26 05 33 13-1245 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	117.53	7.19
For Elevated Installation >10' To 15', Add	1.44	
For Elevated Installation >15' To 20', Add	2.88	
For Elevated Installation >20' To 25', Add	3.60	
For Elevated Installation >25' To 30', Add	5.04	
For Elevated Installation >30' To 35', Add	5.76	
For Elevated Installation >35' To 40', Add	7.20	
For Elevated Installation >40', Add	7.91	
For Work In Restricted Working Space, Add	4.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.32	
26 05 33 13-1246 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	124.07	9.00
For Elevated Installation >10' To 15', Add	1.80	
For Elevated Installation >15' To 20', Add	3.60	
For Elevated Installation >20' To 25', Add	4.50	
For Elevated Installation >25' To 30', Add	6.29	
For Elevated Installation >30' To 35', Add	7.19	
For Elevated Installation >35' To 40', Add	8.99	
For Elevated Installation >40', Add	9.89	
For Work In Restricted Working Space, Add	5.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.39	
26 05 33 13-1247 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	133.15	10.79
For Elevated Installation >10' To 15', Add	2.16	
For Elevated Installation >15' To 20', Add	4.32	
For Elevated Installation >20' To 25', Add	5.40	
For Elevated Installation >25' To 30', Add	7.56	
For Elevated Installation >30' To 35', Add	8.64	
For Elevated Installation >35' To 40', Add	10.80	
For Elevated Installation >40', Add	11.87	
For Work In Restricted Working Space, Add	6.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1248 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	151.84	13.19
For Elevated Installation >10' To 15', Add	2.64	
For Elevated Installation >15' To 20', Add	5.28	
For Elevated Installation >20' To 25', Add	6.60	
For Elevated Installation >25' To 30', Add	9.23	
For Elevated Installation >30' To 35', Add	10.55	
For Elevated Installation >35' To 40', Add	13.19	
For Elevated Installation >40', Add	14.51	
For Work In Restricted Working Space, Add	7.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.91	
26 05 33 13-1249 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	162.85	14.99
For Elevated Installation >10' To 15', Add	3.00	
For Elevated Installation >15' To 20', Add	6.00	
For Elevated Installation >20' To 25', Add	7.50	
For Elevated Installation >25' To 30', Add	10.49	
For Elevated Installation >30' To 35', Add	11.99	
For Elevated Installation >35' To 40', Add	14.99	
For Elevated Installation >40', Add	16.49	
For Work In Restricted Working Space, Add	8.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.99	
26 05 33 13-1250 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	184.23	16.79
For Elevated Installation >10' To 15', Add	3.36	
For Elevated Installation >15' To 20', Add	6.72	
For Elevated Installation >20' To 25', Add	8.40	
For Elevated Installation >25' To 30', Add	11.75	
For Elevated Installation >30' To 35', Add	13.43	
For Elevated Installation >35' To 40', Add	16.79	
For Elevated Installation >40', Add	18.47	
For Work In Restricted Working Space, Add	10.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.07	
26 05 33 13-1251 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	281.82	20.98
For Elevated Installation >10' To 15', Add	4.20	
For Elevated Installation >15' To 20', Add	8.39	
For Elevated Installation >20' To 25', Add	10.49	
For Elevated Installation >25' To 30', Add	14.69	
For Elevated Installation >30' To 35', Add	16.79	
For Elevated Installation >35' To 40', Add	20.99	
For Elevated Installation >40', Add	23.08	
For Work In Restricted Working Space, Add	12.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.59	
26 05 33 13-1252 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	336.67	28.19
For Elevated Installation >10' To 15', Add	5.64	
For Elevated Installation >15' To 20', Add	11.27	
For Elevated Installation >20' To 25', Add	14.09	
For Elevated Installation >25' To 30', Add	19.73	
For Elevated Installation >30' To 35', Add	22.54	
For Elevated Installation >35' To 40', Add	28.18	
For Elevated Installation >40', Add	31.00	
For Work In Restricted Working Space, Add	16.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.91	
26 05 33 13-1253 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	414.57	31.78
For Elevated Installation >10' To 15', Add	6.36	
For Elevated Installation >15' To 20', Add	12.71	
For Elevated Installation >20' To 25', Add	15.89	
For Elevated Installation >25' To 30', Add	22.24	
For Elevated Installation >30' To 35', Add	25.42	
For Elevated Installation >35' To 40', Add	31.78	
For Elevated Installation >40', Add	34.95	
For Work In Restricted Working Space, Add	19.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.07	
26 05 33 13-1254 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	538.30	41.38
For Elevated Installation >10' To 15', Add	8.27	
For Elevated Installation >15' To 20', Add	16.55	
For Elevated Installation >20' To 25', Add	20.69	
For Elevated Installation >25' To 30', Add	28.96	
For Elevated Installation >30' To 35', Add	33.10	
For Elevated Installation >35' To 40', Add	41.37	
For Elevated Installation >40', Add	45.51	
For Work In Restricted Working Space, Add	24.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.82	
26 05 33 13-1255 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	836.78	67.15
For Elevated Installation >10' To 15', Add	13.43	
For Elevated Installation >15' To 20', Add	26.86	
For Elevated Installation >20' To 25', Add	33.58	
For Elevated Installation >25' To 30', Add	47.01	
For Elevated Installation >30' To 35', Add	53.72	
For Elevated Installation >35' To 40', Add	67.16	
For Elevated Installation >40', Add	73.87	
For Work In Restricted Working Space, Add	40.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.29	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1256 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	1,371.15	101.33
For Elevated Installation >10' To 15', Add	20.27	
For Elevated Installation >15' To 20', Add	40.53	
For Elevated Installation >20' To 25', Add	50.67	
For Elevated Installation >25' To 30', Add	70.93	
For Elevated Installation >30' To 35', Add	81.07	
For Elevated Installation >35' To 40', Add	101.34	
For Elevated Installation >40', Add	111.47	
For Work In Restricted Working Space, Add	60.80	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.80	
26 05 33 13-1257 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs <small>(26 05 33 13-0797)</small>		
26 05 33 13-1258 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	126.45	7.19
For Elevated Installation >10' To 15', Add	1.44	
For Elevated Installation >15' To 20', Add	2.88	
For Elevated Installation >20' To 25', Add	3.60	
For Elevated Installation >25' To 30', Add	5.04	
For Elevated Installation >30' To 35', Add	5.76	
For Elevated Installation >35' To 40', Add	7.20	
For Elevated Installation >40', Add	7.91	
For Work In Restricted Working Space, Add	4.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.32	
26 05 33 13-1259 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	132.53	9.00
For Elevated Installation >10' To 15', Add	1.80	
For Elevated Installation >15' To 20', Add	3.60	
For Elevated Installation >20' To 25', Add	4.50	
For Elevated Installation >25' To 30', Add	6.29	
For Elevated Installation >30' To 35', Add	7.19	
For Elevated Installation >35' To 40', Add	8.99	
For Elevated Installation >40', Add	9.89	
For Work In Restricted Working Space, Add	5.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.39	
26 05 33 13-1260 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	141.99	10.79
For Elevated Installation >10' To 15', Add	2.16	
For Elevated Installation >15' To 20', Add	4.32	
For Elevated Installation >20' To 25', Add	5.40	
For Elevated Installation >25' To 30', Add	7.56	
For Elevated Installation >30' To 35', Add	8.64	
For Elevated Installation >35' To 40', Add	10.80	
For Elevated Installation >40', Add	11.87	
For Work In Restricted Working Space, Add	6.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.48	
26 05 33 13-1261 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	178.69	13.19
For Elevated Installation >10' To 15', Add	2.64	
For Elevated Installation >15' To 20', Add	5.28	
For Elevated Installation >20' To 25', Add	6.60	
For Elevated Installation >25' To 30', Add	9.23	
For Elevated Installation >30' To 35', Add	10.55	
For Elevated Installation >35' To 40', Add	13.19	
For Elevated Installation >40', Add	14.51	
For Work In Restricted Working Space, Add	7.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.91	
26 05 33 13-1262 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	195.26	14.99
For Elevated Installation >10' To 15', Add	3.00	
For Elevated Installation >15' To 20', Add	6.00	
For Elevated Installation >20' To 25', Add	7.50	
For Elevated Installation >25' To 30', Add	10.49	
For Elevated Installation >30' To 35', Add	11.99	
For Elevated Installation >35' To 40', Add	14.99	
For Elevated Installation >40', Add	16.49	
For Work In Restricted Working Space, Add	8.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.99	
26 05 33 13-1263 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	206.60	16.79
For Elevated Installation >10' To 15', Add	3.36	
For Elevated Installation >15' To 20', Add	6.72	
For Elevated Installation >20' To 25', Add	8.40	
For Elevated Installation >25' To 30', Add	11.75	
For Elevated Installation >30' To 35', Add	13.43	
For Elevated Installation >35' To 40', Add	16.79	
For Elevated Installation >40', Add	18.47	
For Work In Restricted Working Space, Add	10.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.07	

26 05 33 13-1264 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions (26 05 33 13-0797)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1265 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	91.85	14.99
For Elevated Installation >10' To 15', Add	3.00	
For Elevated Installation >15' To 20', Add	6.00	
For Elevated Installation >20' To 25', Add	7.50	
For Elevated Installation >25' To 30', Add	10.49	
For Elevated Installation >30' To 35', Add	11.99	
For Elevated Installation >35' To 40', Add	14.99	
For Elevated Installation >40', Add	16.49	
For Work In Restricted Working Space, Add	8.99	
26 05 33 13-1266 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	100.16	18.59
For Elevated Installation >10' To 15', Add	3.72	
For Elevated Installation >15' To 20', Add	7.43	
For Elevated Installation >20' To 25', Add	9.29	
For Elevated Installation >25' To 30', Add	13.01	
For Elevated Installation >30' To 35', Add	14.87	
For Elevated Installation >35' To 40', Add	18.59	
For Elevated Installation >40', Add	20.44	
For Work In Restricted Working Space, Add	11.15	
26 05 33 13-1267 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	130.02	22.79
For Elevated Installation >10' To 15', Add	4.56	
For Elevated Installation >15' To 20', Add	9.11	
For Elevated Installation >20' To 25', Add	11.39	
For Elevated Installation >25' To 30', Add	15.95	
For Elevated Installation >30' To 35', Add	18.23	
For Elevated Installation >35' To 40', Add	22.79	
For Elevated Installation >40', Add	25.06	
For Work In Restricted Working Space, Add	13.67	
26 05 33 13-1268 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	188.67	26.38
For Elevated Installation >10' To 15', Add	5.28	
For Elevated Installation >15' To 20', Add	10.55	
For Elevated Installation >20' To 25', Add	13.19	
For Elevated Installation >25' To 30', Add	18.47	
For Elevated Installation >30' To 35', Add	21.10	
For Elevated Installation >35' To 40', Add	26.38	
For Elevated Installation >40', Add	29.02	
For Work In Restricted Working Space, Add	15.83	
26 05 33 13-1269 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	223.89	29.98
For Elevated Installation >10' To 15', Add	6.00	
For Elevated Installation >15' To 20', Add	11.99	
For Elevated Installation >20' To 25', Add	14.99	
For Elevated Installation >25' To 30', Add	20.99	
For Elevated Installation >30' To 35', Add	23.98	
For Elevated Installation >35' To 40', Add	29.98	
For Elevated Installation >40', Add	32.98	
For Work In Restricted Working Space, Add	17.99	
26 05 33 13-1270 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	284.43	32.98
For Elevated Installation >10' To 15', Add	6.60	
For Elevated Installation >15' To 20', Add	13.19	
For Elevated Installation >20' To 25', Add	16.49	
For Elevated Installation >25' To 30', Add	23.09	
For Elevated Installation >30' To 35', Add	26.38	
For Elevated Installation >35' To 40', Add	32.98	
For Elevated Installation >40', Add	36.28	
For Work In Restricted Working Space, Add	19.79	
26 05 33 13-1271 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	378.51	41.38
For Elevated Installation >10' To 15', Add	8.27	
For Elevated Installation >15' To 20', Add	16.55	
For Elevated Installation >20' To 25', Add	20.69	
For Elevated Installation >25' To 30', Add	28.96	
For Elevated Installation >30' To 35', Add	33.10	
For Elevated Installation >35' To 40', Add	41.37	
For Elevated Installation >40', Add	45.51	
For Work In Restricted Working Space, Add	24.82	
26 05 33 13-1272 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	490.50	41.38
For Elevated Installation >10' To 15', Add	8.27	
For Elevated Installation >15' To 20', Add	16.55	
For Elevated Installation >20' To 25', Add	20.69	
For Elevated Installation >25' To 30', Add	28.96	
For Elevated Installation >30' To 35', Add	33.10	
For Elevated Installation >35' To 40', Add	41.37	
For Elevated Installation >40', Add	45.51	
For Work In Restricted Working Space, Add	24.82	
26 05 33 13-1273 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	632.92	63.55
For Elevated Installation >10' To 15', Add	12.71	
For Elevated Installation >15' To 20', Add	25.42	
For Elevated Installation >20' To 25', Add	31.78	
For Elevated Installation >25' To 30', Add	44.49	
For Elevated Installation >30' To 35', Add	50.85	
For Elevated Installation >35' To 40', Add	63.56	
For Elevated Installation >40', Add	69.92	
For Work In Restricted Working Space, Add	38.14	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1274	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union.....	814.94	82.74
		<i>For Elevated Installation >10' To 15', Add</i>	16.55	
		<i>For Elevated Installation >15' To 20', Add</i>	33.10	
		<i>For Elevated Installation >20' To 25', Add</i>	41.37	
		<i>For Elevated Installation >25' To 30', Add</i>	57.92	
		<i>For Elevated Installation >30' To 35', Add</i>	66.20	
		<i>For Elevated Installation >35' To 40', Add</i>	82.75	
		<i>For Elevated Installation >40', Add</i>	91.02	
		<i>For Work In Restricted Working Space, Add</i>	49.65	
26 05 33 13-1275	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union.....	1,483.73	134.91
		<i>For Elevated Installation >10' To 15', Add</i>	26.98	
		<i>For Elevated Installation >15' To 20', Add</i>	53.96	
		<i>For Elevated Installation >20' To 25', Add</i>	67.46	
		<i>For Elevated Installation >25' To 30', Add</i>	94.44	
		<i>For Elevated Installation >30' To 35', Add</i>	107.93	
		<i>For Elevated Installation >35' To 40', Add</i>	134.91	
		<i>For Elevated Installation >40', Add</i>	148.40	
		<i>For Work In Restricted Working Space, Add</i>	80.95	
26 05 33 13-1276	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union.....	1,851.09	202.67
		<i>For Elevated Installation >10' To 15', Add</i>	40.53	
		<i>For Elevated Installation >15' To 20', Add</i>	81.07	
		<i>For Elevated Installation >20' To 25', Add</i>	101.34	
		<i>For Elevated Installation >25' To 30', Add</i>	141.87	
		<i>For Elevated Installation >30' To 35', Add</i>	162.14	
		<i>For Elevated Installation >35' To 40', Add</i>	202.67	
		<i>For Elevated Installation >40', Add</i>	222.94	
		<i>For Work In Restricted Working Space, Add</i>	121.60	
26 05 33 13-1277		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions <small>(26 05 33 13-0797)</small>		
26 05 33 13-1278	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	93.93	14.99
		<i>For Elevated Installation >10' To 15', Add</i>	3.00	
		<i>For Elevated Installation >15' To 20', Add</i>	6.00	
		<i>For Elevated Installation >20' To 25', Add</i>	7.50	
		<i>For Elevated Installation >25' To 30', Add</i>	10.49	
		<i>For Elevated Installation >30' To 35', Add</i>	11.99	
		<i>For Elevated Installation >35' To 40', Add</i>	14.99	
		<i>For Elevated Installation >40', Add</i>	16.49	
		<i>For Work In Restricted Working Space, Add</i>	8.99	
26 05 33 13-1279	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	108.12	18.59
		<i>For Elevated Installation >10' To 15', Add</i>	3.72	
		<i>For Elevated Installation >15' To 20', Add</i>	7.43	
		<i>For Elevated Installation >20' To 25', Add</i>	9.29	
		<i>For Elevated Installation >25' To 30', Add</i>	13.01	
		<i>For Elevated Installation >30' To 35', Add</i>	14.87	
		<i>For Elevated Installation >35' To 40', Add</i>	18.59	
		<i>For Elevated Installation >40', Add</i>	20.44	
		<i>For Work In Restricted Working Space, Add</i>	11.15	
26 05 33 13-1280	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	134.26	22.79
		<i>For Elevated Installation >10' To 15', Add</i>	4.56	
		<i>For Elevated Installation >15' To 20', Add</i>	9.11	
		<i>For Elevated Installation >20' To 25', Add</i>	11.39	
		<i>For Elevated Installation >25' To 30', Add</i>	15.95	
		<i>For Elevated Installation >30' To 35', Add</i>	18.23	
		<i>For Elevated Installation >35' To 40', Add</i>	22.79	
		<i>For Elevated Installation >40', Add</i>	25.06	
		<i>For Work In Restricted Working Space, Add</i>	13.67	
26 05 33 13-1281	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	196.46	26.38
		<i>For Elevated Installation >10' To 15', Add</i>	5.28	
		<i>For Elevated Installation >15' To 20', Add</i>	10.55	
		<i>For Elevated Installation >20' To 25', Add</i>	13.19	
		<i>For Elevated Installation >25' To 30', Add</i>	18.47	
		<i>For Elevated Installation >30' To 35', Add</i>	21.10	
		<i>For Elevated Installation >35' To 40', Add</i>	26.38	
		<i>For Elevated Installation >40', Add</i>	29.02	
		<i>For Work In Restricted Working Space, Add</i>	15.83	
26 05 33 13-1282	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	234.70	29.98
		<i>For Elevated Installation >10' To 15', Add</i>	6.00	
		<i>For Elevated Installation >15' To 20', Add</i>	11.99	
		<i>For Elevated Installation >20' To 25', Add</i>	14.99	
		<i>For Elevated Installation >25' To 30', Add</i>	20.99	
		<i>For Elevated Installation >30' To 35', Add</i>	23.98	
		<i>For Elevated Installation >35' To 40', Add</i>	29.98	
		<i>For Elevated Installation >40', Add</i>	32.98	
		<i>For Work In Restricted Working Space, Add</i>	17.99	
26 05 33 13-1283	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	307.77	32.98
		<i>For Elevated Installation >10' To 15', Add</i>	6.60	
		<i>For Elevated Installation >15' To 20', Add</i>	13.19	
		<i>For Elevated Installation >20' To 25', Add</i>	16.49	
		<i>For Elevated Installation >25' To 30', Add</i>	23.09	
		<i>For Elevated Installation >30' To 35', Add</i>	26.38	
		<i>For Elevated Installation >35' To 40', Add</i>	32.98	
		<i>For Elevated Installation >40', Add</i>	36.28	
		<i>For Work In Restricted Working Space, Add</i>	19.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1284 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....428.46		41.38
For Elevated Installation >10' To 15', Add	8.27	
For Elevated Installation >15' To 20', Add	16.55	
For Elevated Installation >20' To 25', Add	20.69	
For Elevated Installation >25' To 30', Add	28.96	
For Elevated Installation >30' To 35', Add	33.10	
For Elevated Installation >35' To 40', Add	41.37	
For Elevated Installation >40', Add	45.51	
For Work In Restricted Working Space, Add	24.82	
26 05 33 13-1285 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....541.29		41.38
For Elevated Installation >10' To 15', Add	8.27	
For Elevated Installation >15' To 20', Add	16.55	
For Elevated Installation >20' To 25', Add	20.69	
For Elevated Installation >25' To 30', Add	28.96	
For Elevated Installation >30' To 35', Add	33.10	
For Elevated Installation >35' To 40', Add	41.37	
For Elevated Installation >40', Add	45.51	
For Work In Restricted Working Space, Add	24.82	
26 05 33 13-1286 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....724.75		63.55
For Elevated Installation >10' To 15', Add	12.71	
For Elevated Installation >15' To 20', Add	25.42	
For Elevated Installation >20' To 25', Add	31.78	
For Elevated Installation >25' To 30', Add	44.49	
For Elevated Installation >30' To 35', Add	50.85	
For Elevated Installation >35' To 40', Add	63.56	
For Elevated Installation >40', Add	69.92	
For Work In Restricted Working Space, Add	38.14	
26 05 33 13-1287 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....906.44		82.74
For Elevated Installation >10' To 15', Add	16.55	
For Elevated Installation >15' To 20', Add	33.10	
For Elevated Installation >20' To 25', Add	41.37	
For Elevated Installation >25' To 30', Add	57.92	
For Elevated Installation >30' To 35', Add	66.20	
For Elevated Installation >35' To 40', Add	82.75	
For Elevated Installation >40', Add	91.02	
For Work In Restricted Working Space, Add	49.65	
26 05 33 13-1288 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....1,651.45		134.91
For Elevated Installation >10' To 15', Add	26.98	
For Elevated Installation >15' To 20', Add	53.96	
For Elevated Installation >20' To 25', Add	67.46	
For Elevated Installation >25' To 30', Add	94.44	
For Elevated Installation >30' To 35', Add	107.93	
For Elevated Installation >35' To 40', Add	134.91	
For Elevated Installation >40', Add	148.40	
For Work In Restricted Working Space, Add	80.95	
26 05 33 13-1289 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....2,121.90		202.67
For Elevated Installation >10' To 15', Add	40.53	
For Elevated Installation >15' To 20', Add	81.07	
For Elevated Installation >20' To 25', Add	101.34	
For Elevated Installation >25' To 30', Add	141.87	
For Elevated Installation >30' To 35', Add	162.14	
For Elevated Installation >35' To 40', Add	202.67	
For Elevated Installation >40', Add	222.94	
For Work In Restricted Working Space, Add	121.60	
26 05 33 13-1290 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Reducing Couplings <small>(26 05 33 13-0797)</small>		
26 05 33 13-1291 EA 3/4" x 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling .....51.44		4.79
For Elevated Installation >10' To 15', Add	0.96	
For Elevated Installation >15' To 20', Add	1.92	
For Elevated Installation >20' To 25', Add	2.40	
For Elevated Installation >25' To 30', Add	3.36	
For Elevated Installation >30' To 35', Add	3.84	
For Elevated Installation >35' To 40', Add	4.80	
For Elevated Installation >40', Add	5.27	
For Work In Restricted Working Space, Add	2.88	
26 05 33 13-1292 EA 1" x 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling .....56.37		6.00
For Elevated Installation >10' To 15', Add	1.20	
For Elevated Installation >15' To 20', Add	2.40	
For Elevated Installation >20' To 25', Add	3.00	
For Elevated Installation >25' To 30', Add	4.20	
For Elevated Installation >30' To 35', Add	4.80	
For Elevated Installation >35' To 40', Add	6.00	
For Elevated Installation >40', Add	6.60	
For Work In Restricted Working Space, Add	3.60	
26 05 33 13-1293 EA 1" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling .....64.18		6.00
For Elevated Installation >10' To 15', Add	1.20	
For Elevated Installation >15' To 20', Add	2.40	
For Elevated Installation >20' To 25', Add	3.00	
For Elevated Installation >25' To 30', Add	4.20	
For Elevated Installation >30' To 35', Add	4.80	
For Elevated Installation >35' To 40', Add	6.00	
For Elevated Installation >40', Add	6.60	
For Work In Restricted Working Space, Add	3.60	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1294	EA	1-1/4" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	79.40	6.60
			<i>For Elevated Installation >10' To 15', Add</i>	1.32	
			<i>For Elevated Installation >15' To 20', Add</i>	2.64	
			<i>For Elevated Installation >20' To 25', Add</i>	3.30	
			<i>For Elevated Installation >25' To 30', Add</i>	4.62	
			<i>For Elevated Installation >30' To 35', Add</i>	5.28	
			<i>For Elevated Installation >35' To 40', Add</i>	6.60	
			<i>For Elevated Installation >40', Add</i>	7.25	
			<i>For Work In Restricted Working Space, Add</i>	3.96	
26 05 33	13-1295	EA	1-1/4" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	83.90	6.60
			<i>For Elevated Installation >10' To 15', Add</i>	1.32	
			<i>For Elevated Installation >15' To 20', Add</i>	2.64	
			<i>For Elevated Installation >20' To 25', Add</i>	3.30	
			<i>For Elevated Installation >25' To 30', Add</i>	4.62	
			<i>For Elevated Installation >30' To 35', Add</i>	5.28	
			<i>For Elevated Installation >35' To 40', Add</i>	6.60	
			<i>For Elevated Installation >40', Add</i>	7.25	
			<i>For Work In Restricted Working Space, Add</i>	3.96	
26 05 33	13-1296	EA	1-1/2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	71.85	7.79
			<i>For Elevated Installation >10' To 15', Add</i>	1.56	
			<i>For Elevated Installation >15' To 20', Add</i>	3.12	
			<i>For Elevated Installation >20' To 25', Add</i>	3.90	
			<i>For Elevated Installation >25' To 30', Add</i>	5.46	
			<i>For Elevated Installation >30' To 35', Add</i>	6.24	
			<i>For Elevated Installation >35' To 40', Add</i>	7.80	
			<i>For Elevated Installation >40', Add</i>	8.57	
			<i>For Work In Restricted Working Space, Add</i>	4.68	
26 05 33	13-1297	EA	1-1/2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	81.92	7.79
			<i>For Elevated Installation >10' To 15', Add</i>	1.56	
			<i>For Elevated Installation >15' To 20', Add</i>	3.12	
			<i>For Elevated Installation >20' To 25', Add</i>	3.90	
			<i>For Elevated Installation >25' To 30', Add</i>	5.46	
			<i>For Elevated Installation >30' To 35', Add</i>	6.24	
			<i>For Elevated Installation >35' To 40', Add</i>	7.80	
			<i>For Elevated Installation >40', Add</i>	8.57	
			<i>For Work In Restricted Working Space, Add</i>	4.68	
26 05 33	13-1298	EA	1-1/2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	127.20	7.79
			<i>For Elevated Installation >10' To 15', Add</i>	1.56	
			<i>For Elevated Installation >15' To 20', Add</i>	3.12	
			<i>For Elevated Installation >20' To 25', Add</i>	3.90	
			<i>For Elevated Installation >25' To 30', Add</i>	5.46	
			<i>For Elevated Installation >30' To 35', Add</i>	6.24	
			<i>For Elevated Installation >35' To 40', Add</i>	7.80	
			<i>For Elevated Installation >40', Add</i>	8.57	
			<i>For Work In Restricted Working Space, Add</i>	4.68	
26 05 33	13-1299	EA	2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	141.36	9.00
			<i>For Elevated Installation >10' To 15', Add</i>	1.80	
			<i>For Elevated Installation >15' To 20', Add</i>	3.60	
			<i>For Elevated Installation >20' To 25', Add</i>	4.50	
			<i>For Elevated Installation >25' To 30', Add</i>	6.29	
			<i>For Elevated Installation >30' To 35', Add</i>	7.19	
			<i>For Elevated Installation >35' To 40', Add</i>	8.99	
			<i>For Elevated Installation >40', Add</i>	9.89	
			<i>For Work In Restricted Working Space, Add</i>	5.39	
26 05 33	13-1300	EA	2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	137.45	9.00
			<i>For Elevated Installation >10' To 15', Add</i>	1.80	
			<i>For Elevated Installation >15' To 20', Add</i>	3.60	
			<i>For Elevated Installation >20' To 25', Add</i>	4.50	
			<i>For Elevated Installation >25' To 30', Add</i>	6.29	
			<i>For Elevated Installation >30' To 35', Add</i>	7.19	
			<i>For Elevated Installation >35' To 40', Add</i>	8.99	
			<i>For Elevated Installation >40', Add</i>	9.89	
			<i>For Work In Restricted Working Space, Add</i>	5.39	
26 05 33	13-1301	EA	2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	144.71	9.00
			<i>For Elevated Installation >10' To 15', Add</i>	1.80	
			<i>For Elevated Installation >15' To 20', Add</i>	3.60	
			<i>For Elevated Installation >20' To 25', Add</i>	4.50	
			<i>For Elevated Installation >25' To 30', Add</i>	6.29	
			<i>For Elevated Installation >30' To 35', Add</i>	7.19	
			<i>For Elevated Installation >35' To 40', Add</i>	8.99	
			<i>For Elevated Installation >40', Add</i>	9.89	
			<i>For Work In Restricted Working Space, Add</i>	5.39	
26 05 33	13-1302	EA	2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	162.98	9.00
			<i>For Elevated Installation >10' To 15', Add</i>	1.80	
			<i>For Elevated Installation >15' To 20', Add</i>	3.60	
			<i>For Elevated Installation >20' To 25', Add</i>	4.50	
			<i>For Elevated Installation >25' To 30', Add</i>	6.29	
			<i>For Elevated Installation >30' To 35', Add</i>	7.19	
			<i>For Elevated Installation >35' To 40', Add</i>	8.99	
			<i>For Elevated Installation >40', Add</i>	9.89	
			<i>For Work In Restricted Working Space, Add</i>	5.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1303 EA 2-1/2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	161.67	10.79
<i>For Elevated Installation >10' To 15', Add</i>	2.16	
<i>For Elevated Installation >15' To 20', Add</i>	4.32	
<i>For Elevated Installation >20' To 25', Add</i>	5.40	
<i>For Elevated Installation >25' To 30', Add</i>	7.56	
<i>For Elevated Installation >30' To 35', Add</i>	8.64	
<i>For Elevated Installation >35' To 40', Add</i>	10.80	
<i>For Elevated Installation >40', Add</i>	11.87	
<i>For Work In Restricted Working Space, Add</i>	6.48	
26 05 33 13-1304 EA 3" x 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	206.02	14.99
<i>For Elevated Installation >10' To 15', Add</i>	3.00	
<i>For Elevated Installation >15' To 20', Add</i>	6.00	
<i>For Elevated Installation >20' To 25', Add</i>	7.50	
<i>For Elevated Installation >25' To 30', Add</i>	10.49	
<i>For Elevated Installation >30' To 35', Add</i>	11.99	
<i>For Elevated Installation >35' To 40', Add</i>	14.99	
<i>For Elevated Installation >40', Add</i>	16.49	
<i>For Work In Restricted Working Space, Add</i>	8.99	
26 05 33 13-1305 EA 3-1/2" x 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	303.85	17.39
<i>For Elevated Installation >10' To 15', Add</i>	3.48	
<i>For Elevated Installation >15' To 20', Add</i>	6.96	
<i>For Elevated Installation >20' To 25', Add</i>	8.70	
<i>For Elevated Installation >25' To 30', Add</i>	12.17	
<i>For Elevated Installation >30' To 35', Add</i>	13.91	
<i>For Elevated Installation >35' To 40', Add</i>	17.39	
<i>For Elevated Installation >40', Add</i>	19.13	
<i>For Work In Restricted Working Space, Add</i>	10.43	
26 05 33 13-1306 EA 4" x 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	406.46	23.98
<i>For Elevated Installation >10' To 15', Add</i>	4.80	
<i>For Elevated Installation >15' To 20', Add</i>	9.60	
<i>For Elevated Installation >20' To 25', Add</i>	12.00	
<i>For Elevated Installation >25' To 30', Add</i>	16.79	
<i>For Elevated Installation >30' To 35', Add</i>	19.19	
<i>For Elevated Installation >35' To 40', Add</i>	23.99	
<i>For Elevated Installation >40', Add</i>	26.39	
<i>For Work In Restricted Working Space, Add</i>	14.39	
26 05 33 13-1307 EA 5" x 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	507.95	32.98
<i>For Elevated Installation >10' To 15', Add</i>	6.60	
<i>For Elevated Installation >15' To 20', Add</i>	13.19	
<i>For Elevated Installation >20' To 25', Add</i>	16.49	
<i>For Elevated Installation >25' To 30', Add</i>	23.09	
<i>For Elevated Installation >30' To 35', Add</i>	26.38	
<i>For Elevated Installation >35' To 40', Add</i>	32.98	
<i>For Elevated Installation >40', Add</i>	36.28	
<i>For Work In Restricted Working Space, Add</i>	19.79	
26 05 33 13-1308 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples <small>(26 05 33 13-0797)</small>		
26 05 33 13-1309 EA 1 1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	31.94	7.19
<i>For Elevated Installation >10' To 15', Add</i>	1.44	
<i>For Elevated Installation >15' To 20', Add</i>	2.88	
<i>For Elevated Installation >20' To 25', Add</i>	3.60	
<i>For Elevated Installation >25' To 30', Add</i>	5.04	
<i>For Elevated Installation >30' To 35', Add</i>	5.76	
<i>For Elevated Installation >35' To 40', Add</i>	7.20	
<i>For Elevated Installation >40', Add</i>	7.91	
<i>For Work In Restricted Working Space, Add</i>	4.32	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.32	
26 05 33 13-1310 EA 3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	35.86	9.00
<i>For Elevated Installation >10' To 15', Add</i>	1.80	
<i>For Elevated Installation >15' To 20', Add</i>	3.60	
<i>For Elevated Installation >20' To 25', Add</i>	4.50	
<i>For Elevated Installation >25' To 30', Add</i>	6.29	
<i>For Elevated Installation >30' To 35', Add</i>	7.19	
<i>For Elevated Installation >35' To 40', Add</i>	8.99	
<i>For Elevated Installation >40', Add</i>	9.89	
<i>For Work In Restricted Working Space, Add</i>	5.39	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.39	
26 05 33 13-1311 EA 1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	41.65	11.39
<i>For Elevated Installation >10' To 15', Add</i>	2.28	
<i>For Elevated Installation >15' To 20', Add</i>	4.56	
<i>For Elevated Installation >20' To 25', Add</i>	5.70	
<i>For Elevated Installation >25' To 30', Add</i>	7.98	
<i>For Elevated Installation >30' To 35', Add</i>	9.12	
<i>For Elevated Installation >35' To 40', Add</i>	11.40	
<i>For Elevated Installation >40', Add</i>	12.53	
<i>For Work In Restricted Working Space, Add</i>	6.84	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.84	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1312	EA	1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	49.58	13.19
			<i>For Elevated Installation >10' To 15', Add</i>	2.64	
			<i>For Elevated Installation >15' To 20', Add</i>	5.28	
			<i>For Elevated Installation >20' To 25', Add</i>	6.60	
			<i>For Elevated Installation >25' To 30', Add</i>	9.23	
			<i>For Elevated Installation >30' To 35', Add</i>	10.55	
			<i>For Elevated Installation >35' To 40', Add</i>	13.19	
			<i>For Elevated Installation >40', Add</i>	14.51	
			<i>For Work In Restricted Working Space, Add</i>	7.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.91	
26 05 33	13-1313	EA	1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	53.95	14.99
			<i>For Elevated Installation >10' To 15', Add</i>	3.00	
			<i>For Elevated Installation >15' To 20', Add</i>	6.00	
			<i>For Elevated Installation >20' To 25', Add</i>	7.50	
			<i>For Elevated Installation >25' To 30', Add</i>	10.49	
			<i>For Elevated Installation >30' To 35', Add</i>	11.99	
			<i>For Elevated Installation >35' To 40', Add</i>	14.99	
			<i>For Elevated Installation >40', Add</i>	16.49	
			<i>For Work In Restricted Working Space, Add</i>	8.99	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.99	
26 05 33	13-1314	EA	1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	35.39	7.79
			<i>For Elevated Installation >10' To 15', Add</i>	1.56	
			<i>For Elevated Installation >15' To 20', Add</i>	3.12	
			<i>For Elevated Installation >20' To 25', Add</i>	3.90	
			<i>For Elevated Installation >25' To 30', Add</i>	5.46	
			<i>For Elevated Installation >30' To 35', Add</i>	6.24	
			<i>For Elevated Installation >35' To 40', Add</i>	7.80	
			<i>For Elevated Installation >40', Add</i>	8.57	
			<i>For Work In Restricted Working Space, Add</i>	4.68	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.68	
26 05 33	13-1315	EA	3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	38.26	9.00
			<i>For Elevated Installation >10' To 15', Add</i>	1.80	
			<i>For Elevated Installation >15' To 20', Add</i>	3.60	
			<i>For Elevated Installation >20' To 25', Add</i>	4.50	
			<i>For Elevated Installation >25' To 30', Add</i>	6.29	
			<i>For Elevated Installation >30' To 35', Add</i>	7.19	
			<i>For Elevated Installation >35' To 40', Add</i>	8.99	
			<i>For Elevated Installation >40', Add</i>	9.89	
			<i>For Work In Restricted Working Space, Add</i>	5.39	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.39	
26 05 33	13-1316	EA	1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	44.08	11.39
			<i>For Elevated Installation >10' To 15', Add</i>	2.28	
			<i>For Elevated Installation >15' To 20', Add</i>	4.56	
			<i>For Elevated Installation >20' To 25', Add</i>	5.70	
			<i>For Elevated Installation >25' To 30', Add</i>	7.98	
			<i>For Elevated Installation >30' To 35', Add</i>	9.12	
			<i>For Elevated Installation >35' To 40', Add</i>	11.40	
			<i>For Elevated Installation >40', Add</i>	12.53	
			<i>For Work In Restricted Working Space, Add</i>	6.84	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.84	
26 05 33	13-1317	EA	1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	52.15	13.19
			<i>For Elevated Installation >10' To 15', Add</i>	2.64	
			<i>For Elevated Installation >15' To 20', Add</i>	5.28	
			<i>For Elevated Installation >20' To 25', Add</i>	6.60	
			<i>For Elevated Installation >25' To 30', Add</i>	9.23	
			<i>For Elevated Installation >30' To 35', Add</i>	10.55	
			<i>For Elevated Installation >35' To 40', Add</i>	13.19	
			<i>For Elevated Installation >40', Add</i>	14.51	
			<i>For Work In Restricted Working Space, Add</i>	7.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.91	
26 05 33	13-1318	EA	1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	56.71	14.99
			<i>For Elevated Installation >10' To 15', Add</i>	3.00	
			<i>For Elevated Installation >15' To 20', Add</i>	6.00	
			<i>For Elevated Installation >20' To 25', Add</i>	7.50	
			<i>For Elevated Installation >25' To 30', Add</i>	10.49	
			<i>For Elevated Installation >30' To 35', Add</i>	11.99	
			<i>For Elevated Installation >35' To 40', Add</i>	14.99	
			<i>For Elevated Installation >40', Add</i>	16.49	
			<i>For Work In Restricted Working Space, Add</i>	8.99	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.99	
26 05 33	13-1319	EA	2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	61.51	16.79
			<i>For Elevated Installation >10' To 15', Add</i>	3.36	
			<i>For Elevated Installation >15' To 20', Add</i>	6.72	
			<i>For Elevated Installation >20' To 25', Add</i>	8.40	
			<i>For Elevated Installation >25' To 30', Add</i>	11.75	
			<i>For Elevated Installation >30' To 35', Add</i>	13.43	
			<i>For Elevated Installation >35' To 40', Add</i>	16.79	
			<i>For Elevated Installation >40', Add</i>	18.47	
			<i>For Work In Restricted Working Space, Add</i>	10.07	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1320 EA 1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	35.56	7.79
<i>For Elevated Installation >10' To 15', Add</i>	1.56	
<i>For Elevated Installation >15' To 20', Add</i>	3.12	
<i>For Elevated Installation >20' To 25', Add</i>	3.90	
<i>For Elevated Installation >25' To 30', Add</i>	5.46	
<i>For Elevated Installation >30' To 35', Add</i>	6.24	
<i>For Elevated Installation >35' To 40', Add</i>	7.80	
<i>For Elevated Installation >40', Add</i>	8.57	
<i>For Work In Restricted Working Space, Add</i>	4.68	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.68	
26 05 33 13-1321 EA 3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	38.43	9.00
<i>For Elevated Installation >10' To 15', Add</i>	1.80	
<i>For Elevated Installation >15' To 20', Add</i>	3.60	
<i>For Elevated Installation >20' To 25', Add</i>	4.50	
<i>For Elevated Installation >25' To 30', Add</i>	6.29	
<i>For Elevated Installation >30' To 35', Add</i>	7.19	
<i>For Elevated Installation >35' To 40', Add</i>	8.99	
<i>For Elevated Installation >40', Add</i>	9.89	
<i>For Work In Restricted Working Space, Add</i>	5.39	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.39	
26 05 33 13-1322 EA 1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	44.38	11.39
<i>For Elevated Installation >10' To 15', Add</i>	2.28	
<i>For Elevated Installation >15' To 20', Add</i>	4.56	
<i>For Elevated Installation >20' To 25', Add</i>	5.70	
<i>For Elevated Installation >25' To 30', Add</i>	7.97	
<i>For Elevated Installation >30' To 35', Add</i>	9.11	
<i>For Elevated Installation >35' To 40', Add</i>	11.39	
<i>For Elevated Installation >40', Add</i>	12.53	
<i>For Work In Restricted Working Space, Add</i>	6.83	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.83	
26 05 33 13-1323 EA 1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	52.48	13.19
<i>For Elevated Installation >10' To 15', Add</i>	2.64	
<i>For Elevated Installation >15' To 20', Add</i>	5.28	
<i>For Elevated Installation >20' To 25', Add</i>	6.60	
<i>For Elevated Installation >25' To 30', Add</i>	9.23	
<i>For Elevated Installation >30' To 35', Add</i>	10.55	
<i>For Elevated Installation >35' To 40', Add</i>	13.19	
<i>For Elevated Installation >40', Add</i>	14.51	
<i>For Work In Restricted Working Space, Add</i>	7.91	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.91	
26 05 33 13-1324 EA 1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	57.04	14.99
<i>For Elevated Installation >10' To 15', Add</i>	3.00	
<i>For Elevated Installation >15' To 20', Add</i>	6.00	
<i>For Elevated Installation >20' To 25', Add</i>	7.50	
<i>For Elevated Installation >25' To 30', Add</i>	10.49	
<i>For Elevated Installation >30' To 35', Add</i>	11.99	
<i>For Elevated Installation >35' To 40', Add</i>	14.99	
<i>For Elevated Installation >40', Add</i>	16.49	
<i>For Work In Restricted Working Space, Add</i>	8.99	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.99	
26 05 33 13-1325 EA 2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	62.36	16.79
<i>For Elevated Installation >10' To 15', Add</i>	3.36	
<i>For Elevated Installation >15' To 20', Add</i>	6.71	
<i>For Elevated Installation >20' To 25', Add</i>	8.39	
<i>For Elevated Installation >25' To 30', Add</i>	11.75	
<i>For Elevated Installation >30' To 35', Add</i>	13.43	
<i>For Elevated Installation >35' To 40', Add</i>	16.79	
<i>For Elevated Installation >40', Add</i>	18.46	
<i>For Work In Restricted Working Space, Add</i>	10.07	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.07	
26 05 33 13-1326 EA 1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	37.83	7.79
<i>For Elevated Installation >10' To 15', Add</i>	1.56	
<i>For Elevated Installation >15' To 20', Add</i>	3.12	
<i>For Elevated Installation >20' To 25', Add</i>	3.90	
<i>For Elevated Installation >25' To 30', Add</i>	5.46	
<i>For Elevated Installation >30' To 35', Add</i>	6.24	
<i>For Elevated Installation >35' To 40', Add</i>	7.80	
<i>For Elevated Installation >40', Add</i>	8.57	
<i>For Work In Restricted Working Space, Add</i>	4.68	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.68	
26 05 33 13-1327 EA 3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	40.70	9.00
<i>For Elevated Installation >10' To 15', Add</i>	1.80	
<i>For Elevated Installation >15' To 20', Add</i>	3.60	
<i>For Elevated Installation >20' To 25', Add</i>	4.50	
<i>For Elevated Installation >25' To 30', Add</i>	6.29	
<i>For Elevated Installation >30' To 35', Add</i>	7.19	
<i>For Elevated Installation >35' To 40', Add</i>	8.99	
<i>For Elevated Installation >40', Add</i>	9.89	
<i>For Work In Restricted Working Space, Add</i>	5.39	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.39	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1328	EA	1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	46.82	11.39
			<i>For Elevated Installation >10' To 15', Add</i>	2.28	
			<i>For Elevated Installation >15' To 20', Add</i>	4.56	
			<i>For Elevated Installation >20' To 25', Add</i>	5.70	
			<i>For Elevated Installation >25' To 30', Add</i>	7.97	
			<i>For Elevated Installation >30' To 35', Add</i>	9.11	
			<i>For Elevated Installation >35' To 40', Add</i>	11.39	
			<i>For Elevated Installation >40', Add</i>	12.53	
			<i>For Work In Restricted Working Space, Add</i>	6.83	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.83	
26 05 33	13-1329	EA	1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	53.87	13.19
			<i>For Elevated Installation >10' To 15', Add</i>	2.64	
			<i>For Elevated Installation >15' To 20', Add</i>	5.28	
			<i>For Elevated Installation >20' To 25', Add</i>	6.60	
			<i>For Elevated Installation >25' To 30', Add</i>	9.23	
			<i>For Elevated Installation >30' To 35', Add</i>	10.55	
			<i>For Elevated Installation >35' To 40', Add</i>	13.19	
			<i>For Elevated Installation >40', Add</i>	14.51	
			<i>For Work In Restricted Working Space, Add</i>	7.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.91	
26 05 33	13-1330	EA	1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	58.58	14.99
			<i>For Elevated Installation >10' To 15', Add</i>	3.00	
			<i>For Elevated Installation >15' To 20', Add</i>	6.00	
			<i>For Elevated Installation >20' To 25', Add</i>	7.50	
			<i>For Elevated Installation >25' To 30', Add</i>	10.49	
			<i>For Elevated Installation >30' To 35', Add</i>	11.99	
			<i>For Elevated Installation >35' To 40', Add</i>	14.99	
			<i>For Elevated Installation >40', Add</i>	16.49	
			<i>For Work In Restricted Working Space, Add</i>	8.99	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.99	
26 05 33	13-1331	EA	2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	65.04	16.79
			<i>For Elevated Installation >10' To 15', Add</i>	3.36	
			<i>For Elevated Installation >15' To 20', Add</i>	6.71	
			<i>For Elevated Installation >20' To 25', Add</i>	8.39	
			<i>For Elevated Installation >25' To 30', Add</i>	11.75	
			<i>For Elevated Installation >30' To 35', Add</i>	13.43	
			<i>For Elevated Installation >35' To 40', Add</i>	16.79	
			<i>For Elevated Installation >40', Add</i>	18.46	
			<i>For Work In Restricted Working Space, Add</i>	10.07	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.07	
26 05 33	13-1332	EA	2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	90.72	20.38
			<i>For Elevated Installation >10' To 15', Add</i>	4.08	
			<i>For Elevated Installation >15' To 20', Add</i>	8.15	
			<i>For Elevated Installation >20' To 25', Add</i>	10.19	
			<i>For Elevated Installation >25' To 30', Add</i>	14.27	
			<i>For Elevated Installation >30' To 35', Add</i>	16.31	
			<i>For Elevated Installation >35' To 40', Add</i>	20.39	
			<i>For Elevated Installation >40', Add</i>	22.42	
			<i>For Work In Restricted Working Space, Add</i>	12.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.23	
26 05 33	13-1333	EA	3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	117.48	28.19
			<i>For Elevated Installation >10' To 15', Add</i>	5.64	
			<i>For Elevated Installation >15' To 20', Add</i>	11.27	
			<i>For Elevated Installation >20' To 25', Add</i>	14.09	
			<i>For Elevated Installation >25' To 30', Add</i>	19.73	
			<i>For Elevated Installation >30' To 35', Add</i>	22.54	
			<i>For Elevated Installation >35' To 40', Add</i>	28.18	
			<i>For Elevated Installation >40', Add</i>	31.00	
			<i>For Work In Restricted Working Space, Add</i>	16.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.91	
26 05 33	13-1334	EA	1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	38.00	7.79
			<i>For Elevated Installation >10' To 15', Add</i>	1.56	
			<i>For Elevated Installation >15' To 20', Add</i>	3.12	
			<i>For Elevated Installation >20' To 25', Add</i>	3.90	
			<i>For Elevated Installation >25' To 30', Add</i>	5.46	
			<i>For Elevated Installation >30' To 35', Add</i>	6.24	
			<i>For Elevated Installation >35' To 40', Add</i>	7.80	
			<i>For Elevated Installation >40', Add</i>	8.57	
			<i>For Work In Restricted Working Space, Add</i>	4.68	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.68	
26 05 33	13-1335	EA	3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	41.02	9.00
			<i>For Elevated Installation >10' To 15', Add</i>	1.80	
			<i>For Elevated Installation >15' To 20', Add</i>	3.60	
			<i>For Elevated Installation >20' To 25', Add</i>	4.50	
			<i>For Elevated Installation >25' To 30', Add</i>	6.29	
			<i>For Elevated Installation >30' To 35', Add</i>	7.19	
			<i>For Elevated Installation >35' To 40', Add</i>	8.99	
			<i>For Elevated Installation >40', Add</i>	9.89	
			<i>For Work In Restricted Working Space, Add</i>	5.39	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1336 EA 1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	47.16	11.39
For Elevated Installation >10' To 15', Add	2.28	
For Elevated Installation >15' To 20', Add	4.56	
For Elevated Installation >20' To 25', Add	5.70	
For Elevated Installation >25' To 30', Add	7.97	
For Elevated Installation >30' To 35', Add	9.11	
For Elevated Installation >35' To 40', Add	11.39	
For Elevated Installation >40', Add	12.53	
For Work In Restricted Working Space, Add	6.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.83	
26 05 33 13-1337 EA 1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	55.26	13.19
For Elevated Installation >10' To 15', Add	2.64	
For Elevated Installation >15' To 20', Add	5.28	
For Elevated Installation >20' To 25', Add	6.60	
For Elevated Installation >25' To 30', Add	9.23	
For Elevated Installation >30' To 35', Add	10.55	
For Elevated Installation >35' To 40', Add	13.19	
For Elevated Installation >40', Add	14.51	
For Work In Restricted Working Space, Add	7.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.91	
26 05 33 13-1338 EA 1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	60.11	14.99
For Elevated Installation >10' To 15', Add	3.00	
For Elevated Installation >15' To 20', Add	6.00	
For Elevated Installation >20' To 25', Add	7.50	
For Elevated Installation >25' To 30', Add	10.49	
For Elevated Installation >30' To 35', Add	11.99	
For Elevated Installation >35' To 40', Add	14.99	
For Elevated Installation >40', Add	16.49	
For Work In Restricted Working Space, Add	8.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.99	
26 05 33 13-1339 EA 2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	67.73	16.79
For Elevated Installation >10' To 15', Add	3.36	
For Elevated Installation >15' To 20', Add	6.71	
For Elevated Installation >20' To 25', Add	8.39	
For Elevated Installation >25' To 30', Add	11.75	
For Elevated Installation >30' To 35', Add	13.43	
For Elevated Installation >35' To 40', Add	16.79	
For Elevated Installation >40', Add	18.46	
For Work In Restricted Working Space, Add	10.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.07	
26 05 33 13-1340 EA 2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	93.10	20.38
For Elevated Installation >10' To 15', Add	4.08	
For Elevated Installation >15' To 20', Add	8.15	
For Elevated Installation >20' To 25', Add	10.19	
For Elevated Installation >25' To 30', Add	14.27	
For Elevated Installation >30' To 35', Add	16.31	
For Elevated Installation >35' To 40', Add	20.39	
For Elevated Installation >40', Add	22.42	
For Work In Restricted Working Space, Add	12.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.23	
26 05 33 13-1341 EA 3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	122.59	28.19
For Elevated Installation >10' To 15', Add	5.64	
For Elevated Installation >15' To 20', Add	11.27	
For Elevated Installation >20' To 25', Add	14.09	
For Elevated Installation >25' To 30', Add	19.73	
For Elevated Installation >30' To 35', Add	22.54	
For Elevated Installation >35' To 40', Add	28.18	
For Elevated Installation >40', Add	31.00	
For Work In Restricted Working Space, Add	16.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.91	
26 05 33 13-1342 EA 3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	146.15	31.78
For Elevated Installation >10' To 15', Add	6.36	
For Elevated Installation >15' To 20', Add	12.71	
For Elevated Installation >20' To 25', Add	15.89	
For Elevated Installation >25' To 30', Add	22.24	
For Elevated Installation >30' To 35', Add	25.42	
For Elevated Installation >35' To 40', Add	31.78	
For Elevated Installation >40', Add	34.95	
For Work In Restricted Working Space, Add	19.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.07	
26 05 33 13-1343 EA 4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	171.12	41.38
For Elevated Installation >10' To 15', Add	8.27	
For Elevated Installation >15' To 20', Add	16.55	
For Elevated Installation >20' To 25', Add	20.69	
For Elevated Installation >25' To 30', Add	28.96	
For Elevated Installation >30' To 35', Add	33.10	
For Elevated Installation >35' To 40', Add	41.37	
For Elevated Installation >40', Add	45.51	
For Work In Restricted Working Space, Add	24.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.82	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1344	EA		1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	38.31	7.79
			<i>For Elevated Installation >10' To 15', Add</i>	1.56	
			<i>For Elevated Installation >15' To 20', Add</i>	3.12	
			<i>For Elevated Installation >20' To 25', Add</i>	3.90	
			<i>For Elevated Installation >25' To 30', Add</i>	5.46	
			<i>For Elevated Installation >30' To 35', Add</i>	6.24	
			<i>For Elevated Installation >35' To 40', Add</i>	7.80	
			<i>For Elevated Installation >40', Add</i>	8.57	
			<i>For Work In Restricted Working Space, Add</i>	4.68	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.68	
26 05 33 13-1345	EA		3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	41.35	9.00
			<i>For Elevated Installation >10' To 15', Add</i>	1.80	
			<i>For Elevated Installation >15' To 20', Add</i>	3.60	
			<i>For Elevated Installation >20' To 25', Add</i>	4.50	
			<i>For Elevated Installation >25' To 30', Add</i>	6.29	
			<i>For Elevated Installation >30' To 35', Add</i>	7.19	
			<i>For Elevated Installation >35' To 40', Add</i>	8.99	
			<i>For Elevated Installation >40', Add</i>	9.89	
			<i>For Work In Restricted Working Space, Add</i>	5.39	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.39	
26 05 33 13-1346	EA		1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	47.52	11.39
			<i>For Elevated Installation >10' To 15', Add</i>	2.28	
			<i>For Elevated Installation >15' To 20', Add</i>	4.56	
			<i>For Elevated Installation >20' To 25', Add</i>	5.70	
			<i>For Elevated Installation >25' To 30', Add</i>	7.97	
			<i>For Elevated Installation >30' To 35', Add</i>	9.11	
			<i>For Elevated Installation >35' To 40', Add</i>	11.39	
			<i>For Elevated Installation >40', Add</i>	12.53	
			<i>For Work In Restricted Working Space, Add</i>	6.83	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.83	
26 05 33 13-1347	EA		1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	55.91	13.19
			<i>For Elevated Installation >10' To 15', Add</i>	2.64	
			<i>For Elevated Installation >15' To 20', Add</i>	5.28	
			<i>For Elevated Installation >20' To 25', Add</i>	6.60	
			<i>For Elevated Installation >25' To 30', Add</i>	9.23	
			<i>For Elevated Installation >30' To 35', Add</i>	10.55	
			<i>For Elevated Installation >35' To 40', Add</i>	13.19	
			<i>For Elevated Installation >40', Add</i>	14.51	
			<i>For Work In Restricted Working Space, Add</i>	7.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.91	
26 05 33 13-1348	EA		1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	60.78	14.99
			<i>For Elevated Installation >10' To 15', Add</i>	3.00	
			<i>For Elevated Installation >15' To 20', Add</i>	6.00	
			<i>For Elevated Installation >20' To 25', Add</i>	7.50	
			<i>For Elevated Installation >25' To 30', Add</i>	10.49	
			<i>For Elevated Installation >30' To 35', Add</i>	11.99	
			<i>For Elevated Installation >35' To 40', Add</i>	14.99	
			<i>For Elevated Installation >40', Add</i>	16.49	
			<i>For Work In Restricted Working Space, Add</i>	8.99	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.99	
26 05 33 13-1349	EA		2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	69.19	16.79
			<i>For Elevated Installation >10' To 15', Add</i>	3.36	
			<i>For Elevated Installation >15' To 20', Add</i>	6.71	
			<i>For Elevated Installation >20' To 25', Add</i>	8.39	
			<i>For Elevated Installation >25' To 30', Add</i>	11.75	
			<i>For Elevated Installation >30' To 35', Add</i>	13.43	
			<i>For Elevated Installation >35' To 40', Add</i>	16.79	
			<i>For Elevated Installation >40', Add</i>	18.46	
			<i>For Work In Restricted Working Space, Add</i>	10.07	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.07	
26 05 33 13-1350	EA		2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	102.54	20.38
			<i>For Elevated Installation >10' To 15', Add</i>	4.08	
			<i>For Elevated Installation >15' To 20', Add</i>	8.15	
			<i>For Elevated Installation >20' To 25', Add</i>	10.19	
			<i>For Elevated Installation >25' To 30', Add</i>	14.27	
			<i>For Elevated Installation >30' To 35', Add</i>	16.31	
			<i>For Elevated Installation >35' To 40', Add</i>	20.39	
			<i>For Elevated Installation >40', Add</i>	22.42	
			<i>For Work In Restricted Working Space, Add</i>	12.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.23	
26 05 33 13-1351	EA		3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	130.24	28.19
			<i>For Elevated Installation >10' To 15', Add</i>	5.64	
			<i>For Elevated Installation >15' To 20', Add</i>	11.27	
			<i>For Elevated Installation >20' To 25', Add</i>	14.09	
			<i>For Elevated Installation >25' To 30', Add</i>	19.73	
			<i>For Elevated Installation >30' To 35', Add</i>	22.54	
			<i>For Elevated Installation >35' To 40', Add</i>	28.18	
			<i>For Elevated Installation >40', Add</i>	31.00	
			<i>For Work In Restricted Working Space, Add</i>	16.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1352 EA 3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	147.78	31.78
For Elevated Installation >10' To 15', Add	6.36	
For Elevated Installation >15' To 20', Add	12.71	
For Elevated Installation >20' To 25', Add	15.89	
For Elevated Installation >25' To 30', Add	22.24	
For Elevated Installation >30' To 35', Add	25.42	
For Elevated Installation >35' To 40', Add	31.78	
For Elevated Installation >40', Add	34.95	
For Work In Restricted Working Space, Add	19.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.07	
26 05 33 13-1353 EA 4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	175.48	41.38
For Elevated Installation >10' To 15', Add	8.27	
For Elevated Installation >15' To 20', Add	16.55	
For Elevated Installation >20' To 25', Add	20.69	
For Elevated Installation >25' To 30', Add	28.96	
For Elevated Installation >30' To 35', Add	33.10	
For Elevated Installation >35' To 40', Add	41.37	
For Elevated Installation >40', Add	45.51	
For Work In Restricted Working Space, Add	24.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.82	
26 05 33 13-1354 EA 5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	258.17	56.96
For Elevated Installation >10' To 15', Add	11.39	
For Elevated Installation >15' To 20', Add	22.78	
For Elevated Installation >20' To 25', Add	28.48	
For Elevated Installation >25' To 30', Add	39.87	
For Elevated Installation >30' To 35', Add	45.57	
For Elevated Installation >35' To 40', Add	56.96	
For Elevated Installation >40', Add	62.66	
For Work In Restricted Working Space, Add	34.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.18	
26 05 33 13-1355 EA 1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	38.91	7.79
For Elevated Installation >10' To 15', Add	1.56	
For Elevated Installation >15' To 20', Add	3.12	
For Elevated Installation >20' To 25', Add	3.90	
For Elevated Installation >25' To 30', Add	5.46	
For Elevated Installation >30' To 35', Add	6.24	
For Elevated Installation >35' To 40', Add	7.80	
For Elevated Installation >40', Add	8.57	
For Work In Restricted Working Space, Add	4.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.68	
26 05 33 13-1356 EA 3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	41.95	9.00
For Elevated Installation >10' To 15', Add	1.80	
For Elevated Installation >15' To 20', Add	3.60	
For Elevated Installation >20' To 25', Add	4.50	
For Elevated Installation >25' To 30', Add	6.29	
For Elevated Installation >30' To 35', Add	7.19	
For Elevated Installation >35' To 40', Add	8.99	
For Elevated Installation >40', Add	9.89	
For Work In Restricted Working Space, Add	5.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.39	
26 05 33 13-1357 EA 1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	48.16	11.39
For Elevated Installation >10' To 15', Add	2.28	
For Elevated Installation >15' To 20', Add	4.56	
For Elevated Installation >20' To 25', Add	5.70	
For Elevated Installation >25' To 30', Add	7.97	
For Elevated Installation >30' To 35', Add	9.11	
For Elevated Installation >35' To 40', Add	11.39	
For Elevated Installation >40', Add	12.53	
For Work In Restricted Working Space, Add	6.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.83	
26 05 33 13-1358 EA 1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	57.11	13.19
For Elevated Installation >10' To 15', Add	2.64	
For Elevated Installation >15' To 20', Add	5.28	
For Elevated Installation >20' To 25', Add	6.60	
For Elevated Installation >25' To 30', Add	9.23	
For Elevated Installation >30' To 35', Add	10.55	
For Elevated Installation >35' To 40', Add	13.19	
For Elevated Installation >40', Add	14.51	
For Work In Restricted Working Space, Add	7.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.91	
26 05 33 13-1359 EA 1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	62.22	14.99
For Elevated Installation >10' To 15', Add	3.00	
For Elevated Installation >15' To 20', Add	6.00	
For Elevated Installation >20' To 25', Add	7.50	
For Elevated Installation >25' To 30', Add	10.49	
For Elevated Installation >30' To 35', Add	11.99	
For Elevated Installation >35' To 40', Add	14.99	
For Elevated Installation >40', Add	16.49	
For Work In Restricted Working Space, Add	8.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.99	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1360	EA	2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	70.65	16.79
			<i>For Elevated Installation >10' To 15', Add</i>	3.36	
			<i>For Elevated Installation >15' To 20', Add</i>	6.71	
			<i>For Elevated Installation >20' To 25', Add</i>	8.39	
			<i>For Elevated Installation >25' To 30', Add</i>	11.75	
			<i>For Elevated Installation >30' To 35', Add</i>	13.43	
			<i>For Elevated Installation >35' To 40', Add</i>	16.79	
			<i>For Elevated Installation >40', Add</i>	18.46	
			<i>For Work In Restricted Working Space, Add</i>	10.07	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.07	
26 05 33	13-1361	EA	2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	112.13	20.38
			<i>For Elevated Installation >10' To 15', Add</i>	4.08	
			<i>For Elevated Installation >15' To 20', Add</i>	8.15	
			<i>For Elevated Installation >20' To 25', Add</i>	10.19	
			<i>For Elevated Installation >25' To 30', Add</i>	14.27	
			<i>For Elevated Installation >30' To 35', Add</i>	16.31	
			<i>For Elevated Installation >35' To 40', Add</i>	20.39	
			<i>For Elevated Installation >40', Add</i>	22.42	
			<i>For Work In Restricted Working Space, Add</i>	12.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.23	
26 05 33	13-1362	EA	3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	140.40	28.19
			<i>For Elevated Installation >10' To 15', Add</i>	5.64	
			<i>For Elevated Installation >15' To 20', Add</i>	11.27	
			<i>For Elevated Installation >20' To 25', Add</i>	14.09	
			<i>For Elevated Installation >25' To 30', Add</i>	19.73	
			<i>For Elevated Installation >30' To 35', Add</i>	22.54	
			<i>For Elevated Installation >35' To 40', Add</i>	28.18	
			<i>For Elevated Installation >40', Add</i>	31.00	
			<i>For Work In Restricted Working Space, Add</i>	16.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.91	
26 05 33	13-1363	EA	3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	156.94	31.78
			<i>For Elevated Installation >10' To 15', Add</i>	6.36	
			<i>For Elevated Installation >15' To 20', Add</i>	12.71	
			<i>For Elevated Installation >20' To 25', Add</i>	15.89	
			<i>For Elevated Installation >25' To 30', Add</i>	22.24	
			<i>For Elevated Installation >30' To 35', Add</i>	25.42	
			<i>For Elevated Installation >35' To 40', Add</i>	31.78	
			<i>For Elevated Installation >40', Add</i>	34.95	
			<i>For Work In Restricted Working Space, Add</i>	19.07	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.07	
26 05 33	13-1364	EA	4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	190.92	41.38
			<i>For Elevated Installation >10' To 15', Add</i>	8.27	
			<i>For Elevated Installation >15' To 20', Add</i>	16.55	
			<i>For Elevated Installation >20' To 25', Add</i>	20.69	
			<i>For Elevated Installation >25' To 30', Add</i>	28.96	
			<i>For Elevated Installation >30' To 35', Add</i>	33.10	
			<i>For Elevated Installation >35' To 40', Add</i>	41.37	
			<i>For Elevated Installation >40', Add</i>	45.51	
			<i>For Work In Restricted Working Space, Add</i>	24.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.82	
26 05 33	13-1365	EA	5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	281.26	56.96
			<i>For Elevated Installation >10' To 15', Add</i>	11.39	
			<i>For Elevated Installation >15' To 20', Add</i>	22.78	
			<i>For Elevated Installation >20' To 25', Add</i>	28.48	
			<i>For Elevated Installation >25' To 30', Add</i>	39.87	
			<i>For Elevated Installation >30' To 35', Add</i>	45.57	
			<i>For Elevated Installation >35' To 40', Add</i>	56.96	
			<i>For Elevated Installation >40', Add</i>	62.66	
			<i>For Work In Restricted Working Space, Add</i>	34.18	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.18	
26 05 33	13-1366	EA	1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	39.85	7.79
			<i>For Elevated Installation >10' To 15', Add</i>	1.56	
			<i>For Elevated Installation >15' To 20', Add</i>	3.12	
			<i>For Elevated Installation >20' To 25', Add</i>	3.90	
			<i>For Elevated Installation >25' To 30', Add</i>	5.46	
			<i>For Elevated Installation >30' To 35', Add</i>	6.24	
			<i>For Elevated Installation >35' To 40', Add</i>	7.80	
			<i>For Elevated Installation >40', Add</i>	8.57	
			<i>For Work In Restricted Working Space, Add</i>	4.68	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.68	
26 05 33	13-1367	EA	3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	42.86	9.00
			<i>For Elevated Installation >10' To 15', Add</i>	1.80	
			<i>For Elevated Installation >15' To 20', Add</i>	3.60	
			<i>For Elevated Installation >20' To 25', Add</i>	4.50	
			<i>For Elevated Installation >25' To 30', Add</i>	6.29	
			<i>For Elevated Installation >30' To 35', Add</i>	7.19	
			<i>For Elevated Installation >35' To 40', Add</i>	8.99	
			<i>For Elevated Installation >40', Add</i>	9.89	
			<i>For Work In Restricted Working Space, Add</i>	5.39	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1368 EA 1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	49.60	11.39
For Elevated Installation >10' To 15', Add	2.28	
For Elevated Installation >15' To 20', Add	4.56	
For Elevated Installation >20' To 25', Add	5.70	
For Elevated Installation >25' To 30', Add	7.97	
For Elevated Installation >30' To 35', Add	9.11	
For Elevated Installation >35' To 40', Add	11.39	
For Elevated Installation >40', Add	12.53	
For Work In Restricted Working Space, Add	6.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.83	
26 05 33 13-1369 EA 1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	57.42	13.19
For Elevated Installation >10' To 15', Add	2.64	
For Elevated Installation >15' To 20', Add	5.28	
For Elevated Installation >20' To 25', Add	6.60	
For Elevated Installation >25' To 30', Add	9.23	
For Elevated Installation >30' To 35', Add	10.55	
For Elevated Installation >35' To 40', Add	13.19	
For Elevated Installation >40', Add	14.51	
For Work In Restricted Working Space, Add	7.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.91	
26 05 33 13-1370 EA 1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	65.14	14.99
For Elevated Installation >10' To 15', Add	3.00	
For Elevated Installation >15' To 20', Add	6.00	
For Elevated Installation >20' To 25', Add	7.50	
For Elevated Installation >25' To 30', Add	10.49	
For Elevated Installation >30' To 35', Add	11.99	
For Elevated Installation >35' To 40', Add	14.99	
For Elevated Installation >40', Add	16.49	
For Work In Restricted Working Space, Add	8.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.99	
26 05 33 13-1371 EA 2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	77.80	16.79
For Elevated Installation >10' To 15', Add	3.36	
For Elevated Installation >15' To 20', Add	6.71	
For Elevated Installation >20' To 25', Add	8.39	
For Elevated Installation >25' To 30', Add	11.75	
For Elevated Installation >30' To 35', Add	13.43	
For Elevated Installation >35' To 40', Add	16.79	
For Elevated Installation >40', Add	18.46	
For Work In Restricted Working Space, Add	10.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.07	
26 05 33 13-1372 EA 2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	123.92	20.38
For Elevated Installation >10' To 15', Add	4.08	
For Elevated Installation >15' To 20', Add	8.15	
For Elevated Installation >20' To 25', Add	10.19	
For Elevated Installation >25' To 30', Add	14.27	
For Elevated Installation >30' To 35', Add	16.31	
For Elevated Installation >35' To 40', Add	20.39	
For Elevated Installation >40', Add	22.42	
For Work In Restricted Working Space, Add	12.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.23	
26 05 33 13-1373 EA 3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	154.30	28.19
For Elevated Installation >10' To 15', Add	5.64	
For Elevated Installation >15' To 20', Add	11.27	
For Elevated Installation >20' To 25', Add	14.09	
For Elevated Installation >25' To 30', Add	19.73	
For Elevated Installation >30' To 35', Add	22.54	
For Elevated Installation >35' To 40', Add	28.18	
For Elevated Installation >40', Add	31.00	
For Work In Restricted Working Space, Add	16.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.91	
26 05 33 13-1374 EA 3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	179.85	31.78
For Elevated Installation >10' To 15', Add	6.36	
For Elevated Installation >15' To 20', Add	12.71	
For Elevated Installation >20' To 25', Add	15.89	
For Elevated Installation >25' To 30', Add	22.24	
For Elevated Installation >30' To 35', Add	25.42	
For Elevated Installation >35' To 40', Add	31.78	
For Elevated Installation >40', Add	34.95	
For Work In Restricted Working Space, Add	19.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.07	
26 05 33 13-1375 EA 4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	214.10	41.38
For Elevated Installation >10' To 15', Add	8.27	
For Elevated Installation >15' To 20', Add	16.55	
For Elevated Installation >20' To 25', Add	20.69	
For Elevated Installation >25' To 30', Add	28.96	
For Elevated Installation >30' To 35', Add	33.10	
For Elevated Installation >35' To 40', Add	41.37	
For Elevated Installation >40', Add	45.51	
For Work In Restricted Working Space, Add	24.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.82	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1376	EA	5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	297.08	56.96
			<i>For Elevated Installation >10' To 15', Add</i>	11.39	
			<i>For Elevated Installation >15' To 20', Add</i>	22.78	
			<i>For Elevated Installation >20' To 25', Add</i>	28.48	
			<i>For Elevated Installation >25' To 30', Add</i>	39.87	
			<i>For Elevated Installation >30' To 35', Add</i>	45.57	
			<i>For Elevated Installation >35' To 40', Add</i>	56.96	
			<i>For Elevated Installation >40', Add</i>	62.66	
			<i>For Work In Restricted Working Space, Add</i>	34.18	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.18	
26 05 33	13-1377	EA	1 1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	40.83	7.79
			<i>For Elevated Installation >10' To 15', Add</i>	1.56	
			<i>For Elevated Installation >15' To 20', Add</i>	3.12	
			<i>For Elevated Installation >20' To 25', Add</i>	3.90	
			<i>For Elevated Installation >25' To 30', Add</i>	5.46	
			<i>For Elevated Installation >30' To 35', Add</i>	6.24	
			<i>For Elevated Installation >35' To 40', Add</i>	7.80	
			<i>For Elevated Installation >40', Add</i>	8.57	
			<i>For Work In Restricted Working Space, Add</i>	4.68	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.68	
26 05 33	13-1378	EA	3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	43.82	9.00
			<i>For Elevated Installation >10' To 15', Add</i>	1.80	
			<i>For Elevated Installation >15' To 20', Add</i>	3.60	
			<i>For Elevated Installation >20' To 25', Add</i>	4.50	
			<i>For Elevated Installation >25' To 30', Add</i>	6.29	
			<i>For Elevated Installation >30' To 35', Add</i>	7.19	
			<i>For Elevated Installation >35' To 40', Add</i>	8.99	
			<i>For Elevated Installation >40', Add</i>	9.89	
			<i>For Work In Restricted Working Space, Add</i>	5.39	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.39	
26 05 33	13-1379	EA	1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	51.02	11.39
			<i>For Elevated Installation >10' To 15', Add</i>	2.28	
			<i>For Elevated Installation >15' To 20', Add</i>	4.56	
			<i>For Elevated Installation >20' To 25', Add</i>	5.70	
			<i>For Elevated Installation >25' To 30', Add</i>	7.97	
			<i>For Elevated Installation >30' To 35', Add</i>	9.11	
			<i>For Elevated Installation >35' To 40', Add</i>	11.39	
			<i>For Elevated Installation >40', Add</i>	12.53	
			<i>For Work In Restricted Working Space, Add</i>	6.83	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.83	
26 05 33	13-1380	EA	1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	61.74	13.19
			<i>For Elevated Installation >10' To 15', Add</i>	2.64	
			<i>For Elevated Installation >15' To 20', Add</i>	5.28	
			<i>For Elevated Installation >20' To 25', Add</i>	6.60	
			<i>For Elevated Installation >25' To 30', Add</i>	9.23	
			<i>For Elevated Installation >30' To 35', Add</i>	10.55	
			<i>For Elevated Installation >35' To 40', Add</i>	13.19	
			<i>For Elevated Installation >40', Add</i>	14.51	
			<i>For Work In Restricted Working Space, Add</i>	7.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.91	
26 05 33	13-1381	EA	1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	72.10	14.99
			<i>For Elevated Installation >10' To 15', Add</i>	3.00	
			<i>For Elevated Installation >15' To 20', Add</i>	6.00	
			<i>For Elevated Installation >20' To 25', Add</i>	7.50	
			<i>For Elevated Installation >25' To 30', Add</i>	10.49	
			<i>For Elevated Installation >30' To 35', Add</i>	11.99	
			<i>For Elevated Installation >35' To 40', Add</i>	14.99	
			<i>For Elevated Installation >40', Add</i>	16.49	
			<i>For Work In Restricted Working Space, Add</i>	8.99	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.99	
26 05 33	13-1382	EA	2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	88.29	16.79
			<i>For Elevated Installation >10' To 15', Add</i>	3.36	
			<i>For Elevated Installation >15' To 20', Add</i>	6.71	
			<i>For Elevated Installation >20' To 25', Add</i>	8.39	
			<i>For Elevated Installation >25' To 30', Add</i>	11.75	
			<i>For Elevated Installation >30' To 35', Add</i>	13.43	
			<i>For Elevated Installation >35' To 40', Add</i>	16.79	
			<i>For Elevated Installation >40', Add</i>	18.46	
			<i>For Work In Restricted Working Space, Add</i>	10.07	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.07	
26 05 33	13-1383	EA	2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	136.39	20.38
			<i>For Elevated Installation >10' To 15', Add</i>	4.08	
			<i>For Elevated Installation >15' To 20', Add</i>	8.15	
			<i>For Elevated Installation >20' To 25', Add</i>	10.19	
			<i>For Elevated Installation >25' To 30', Add</i>	14.27	
			<i>For Elevated Installation >30' To 35', Add</i>	16.31	
			<i>For Elevated Installation >35' To 40', Add</i>	20.39	
			<i>For Elevated Installation >40', Add</i>	22.42	
			<i>For Work In Restricted Working Space, Add</i>	12.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1384 EA 3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	172.11	28.19
For Elevated Installation >10' To 15', Add	5.64	
For Elevated Installation >15' To 20', Add	11.27	
For Elevated Installation >20' To 25', Add	14.09	
For Elevated Installation >25' To 30', Add	19.73	
For Elevated Installation >30' To 35', Add	22.54	
For Elevated Installation >35' To 40', Add	28.18	
For Elevated Installation >40', Add	31.00	
For Work In Restricted Working Space, Add	16.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.91	
26 05 33 13-1385 EA 3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	203.92	31.78
For Elevated Installation >10' To 15', Add	6.36	
For Elevated Installation >15' To 20', Add	12.71	
For Elevated Installation >20' To 25', Add	15.89	
For Elevated Installation >25' To 30', Add	22.24	
For Elevated Installation >30' To 35', Add	25.42	
For Elevated Installation >35' To 40', Add	31.78	
For Elevated Installation >40', Add	34.95	
For Work In Restricted Working Space, Add	19.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.07	
26 05 33 13-1386 EA 4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	254.66	41.38
For Elevated Installation >10' To 15', Add	8.27	
For Elevated Installation >15' To 20', Add	16.55	
For Elevated Installation >20' To 25', Add	20.69	
For Elevated Installation >25' To 30', Add	28.96	
For Elevated Installation >30' To 35', Add	33.10	
For Elevated Installation >35' To 40', Add	41.37	
For Elevated Installation >40', Add	45.51	
For Work In Restricted Working Space, Add	24.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.82	
26 05 33 13-1387 EA 5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	328.65	56.96
For Elevated Installation >10' To 15', Add	11.39	
For Elevated Installation >15' To 20', Add	22.78	
For Elevated Installation >20' To 25', Add	28.48	
For Elevated Installation >25' To 30', Add	39.87	
For Elevated Installation >30' To 35', Add	45.57	
For Elevated Installation >35' To 40', Add	56.96	
For Elevated Installation >40', Add	62.66	
For Work In Restricted Working Space, Add	34.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.18	
26 05 33 13-1388 EA 1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	41.84	7.79
For Elevated Installation >10' To 15', Add	1.56	
For Elevated Installation >15' To 20', Add	3.12	
For Elevated Installation >20' To 25', Add	3.90	
For Elevated Installation >25' To 30', Add	5.46	
For Elevated Installation >30' To 35', Add	6.24	
For Elevated Installation >35' To 40', Add	7.80	
For Elevated Installation >40', Add	8.57	
For Work In Restricted Working Space, Add	4.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.68	
26 05 33 13-1389 EA 3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	44.95	9.00
For Elevated Installation >10' To 15', Add	1.80	
For Elevated Installation >15' To 20', Add	3.60	
For Elevated Installation >20' To 25', Add	4.50	
For Elevated Installation >25' To 30', Add	6.29	
For Elevated Installation >30' To 35', Add	7.19	
For Elevated Installation >35' To 40', Add	8.99	
For Elevated Installation >40', Add	9.89	
For Work In Restricted Working Space, Add	5.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.39	
26 05 33 13-1390 EA 1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	54.61	11.39
For Elevated Installation >10' To 15', Add	2.28	
For Elevated Installation >15' To 20', Add	4.56	
For Elevated Installation >20' To 25', Add	5.70	
For Elevated Installation >25' To 30', Add	7.97	
For Elevated Installation >30' To 35', Add	9.11	
For Elevated Installation >35' To 40', Add	11.39	
For Elevated Installation >40', Add	12.53	
For Work In Restricted Working Space, Add	6.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.83	
26 05 33 13-1391 EA 1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	68.83	13.19
For Elevated Installation >10' To 15', Add	2.64	
For Elevated Installation >15' To 20', Add	5.28	
For Elevated Installation >20' To 25', Add	6.60	
For Elevated Installation >25' To 30', Add	9.23	
For Elevated Installation >30' To 35', Add	10.55	
For Elevated Installation >35' To 40', Add	13.19	
For Elevated Installation >40', Add	14.51	
For Work In Restricted Working Space, Add	7.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.91	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1392 EA 1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	80.51	14.99
For Elevated Installation >10' To 15', Add	3.00	
For Elevated Installation >15' To 20', Add	6.00	
For Elevated Installation >20' To 25', Add	7.50	
For Elevated Installation >25' To 30', Add	10.49	
For Elevated Installation >30' To 35', Add	11.99	
For Elevated Installation >35' To 40', Add	14.99	
For Elevated Installation >40', Add	16.49	
For Work In Restricted Working Space, Add	8.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.99	
26 05 33 13-1393 EA 2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	96.73	16.79
For Elevated Installation >10' To 15', Add	3.36	
For Elevated Installation >15' To 20', Add	6.71	
For Elevated Installation >20' To 25', Add	8.39	
For Elevated Installation >25' To 30', Add	11.75	
For Elevated Installation >30' To 35', Add	13.43	
For Elevated Installation >35' To 40', Add	16.79	
For Elevated Installation >40', Add	18.46	
For Work In Restricted Working Space, Add	10.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.07	
26 05 33 13-1394 EA 2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	153.02	20.38
For Elevated Installation >10' To 15', Add	4.08	
For Elevated Installation >15' To 20', Add	8.15	
For Elevated Installation >20' To 25', Add	10.19	
For Elevated Installation >25' To 30', Add	14.27	
For Elevated Installation >30' To 35', Add	16.31	
For Elevated Installation >35' To 40', Add	20.39	
For Elevated Installation >40', Add	22.42	
For Work In Restricted Working Space, Add	12.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.23	
26 05 33 13-1395 EA 3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	198.82	28.19
For Elevated Installation >10' To 15', Add	5.64	
For Elevated Installation >15' To 20', Add	11.27	
For Elevated Installation >20' To 25', Add	14.09	
For Elevated Installation >25' To 30', Add	19.73	
For Elevated Installation >30' To 35', Add	22.54	
For Elevated Installation >35' To 40', Add	28.18	
For Elevated Installation >40', Add	31.00	
For Work In Restricted Working Space, Add	16.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.91	
26 05 33 13-1396 EA 3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	218.69	31.78
For Elevated Installation >10' To 15', Add	6.36	
For Elevated Installation >15' To 20', Add	12.71	
For Elevated Installation >20' To 25', Add	15.89	
For Elevated Installation >25' To 30', Add	22.24	
For Elevated Installation >30' To 35', Add	25.42	
For Elevated Installation >35' To 40', Add	31.78	
For Elevated Installation >40', Add	34.95	
For Work In Restricted Working Space, Add	19.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.07	
26 05 33 13-1397 EA 4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	267.10	41.38
For Elevated Installation >10' To 15', Add	8.27	
For Elevated Installation >15' To 20', Add	16.55	
For Elevated Installation >20' To 25', Add	20.69	
For Elevated Installation >25' To 30', Add	28.96	
For Elevated Installation >30' To 35', Add	33.10	
For Elevated Installation >35' To 40', Add	41.37	
For Elevated Installation >40', Add	45.51	
For Work In Restricted Working Space, Add	24.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.82	
26 05 33 13-1398 EA 5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	333.15	56.96
For Elevated Installation >10' To 15', Add	11.39	
For Elevated Installation >15' To 20', Add	22.78	
For Elevated Installation >20' To 25', Add	28.48	
For Elevated Installation >25' To 30', Add	39.87	
For Elevated Installation >30' To 35', Add	45.57	
For Elevated Installation >35' To 40', Add	56.96	
For Elevated Installation >40', Add	62.66	
For Work In Restricted Working Space, Add	34.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.18	
26 05 33 13-1399 Aluminum Rigid Conduit (ARC) <small>(26 05 33 13-0058)</small>		
Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-1400 Aluminum Rigid Conduit (ARC) With Threaded Coupling <small>(26 05 33 13-1399)</small>		
Note: Includes field bend conduit up to 1".		
26 05 33 13-1401 LF 1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling	5.64	1.85
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.69	
For Work In Restricted Working Space, Add	1.38	
26 05 33 13-1402 LF 3/4" Aluminum Rigid Conduit (ARC) With Threaded Coupling	6.45	2.03
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.76	
For Work In Restricted Working Space, Add	1.52	
26 05 33 13-1403 LF 1" Aluminum Rigid Conduit (ARC) With Threaded Coupling	7.49	2.22
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.83	
For Work In Restricted Working Space, Add	1.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1404 LF 1-1/4" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	8.56 0.90 1.80	2.40
26 05 33 13-1405 LF 1-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	9.64 0.97 1.94	2.59
26 05 33 13-1406 LF 2" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	11.63 1.11 2.21	2.95
26 05 33 13-1407 LF 2-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	15.94 1.38 2.77	3.69
26 05 33 13-1408 LF 3" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	19.89 1.66 3.32	4.42
26 05 33 13-1409 LF 3-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	24.41 2.07 4.15	5.54
26 05 33 13-1410 LF 4" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	30.06 2.63 5.26	7.01
26 05 33 13-1411 LF 5" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	40.08 3.32 6.64	8.86
26 05 33 13-1412 LF 6" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	51.28 4.15 8.30	11.07
26 05 33 13-1413 Aluminum 90 Degree Elbows <small>(26 05 33 13-1399)</small>		
26 05 33 13-1414 EA 1" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	34.91 7.19	9.59
26 05 33 13-1415 EA 1-1/4" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	44.57 8.16	10.88
26 05 33 13-1416 EA 1-1/2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	54.47 9.41	12.55
26 05 33 13-1417 EA 2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	69.99 10.79	14.39
26 05 33 13-1418 EA 2-1/2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	101.12 13.14	17.52
26 05 33 13-1419 EA 3" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	145.26 17.02	22.69
26 05 33 13-1420 EA 3-1/2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	201.72 19.10	25.46
26 05 33 13-1421 EA 4" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	243.50 23.94	31.92
26 05 33 13-1422 EA 5" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	614.13 39.02	52.03
26 05 33 13-1423 EA 6" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	865.31 58.67	78.23
26 05 33 13-1424 Aluminum Bushing Set With Locknut <small>(26 05 33 13-1399)</small>		
26 05 33 13-1425 EA 1/2" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.06 2.77 2.77	3.69
26 05 33 13-1426 EA 3/4" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.35 3.60 3.60	4.79
26 05 33 13-1427 EA 1" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.29 4.43 4.43	5.91
26 05 33 13-1428 EA 1-1/4" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.20 4.98 4.98	6.64
26 05 33 13-1429 EA 1-1/2" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.06 6.09 6.09	8.11
26 05 33 13-1430 EA 2" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.71 7.33 7.33	9.78
26 05 33 13-1431 EA 2-1/2" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.65 8.72 8.72	11.63
26 05 33 13-1432 EA 3" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.05 9.96 9.96	13.28
26 05 33 13-1433 EA 3-1/2" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.06 10.79 10.79	14.39
26 05 33 13-1434 EA 4" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.65 11.63 11.63	15.50

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1435 EA 5" Aluminum Bushing Set With Locknut.....	57.79	20.66
For Work In Restricted Working Space, Add	15.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.50	
26 05 33 13-1436 EA 6" Aluminum Bushing Set With Locknut.....	85.91	30.99
For Work In Restricted Working Space, Add	23.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.25	
26 05 33 13-1437 Schedule 40 Polyvinyl Chloride (PVC) Conduit (26 05 33 13-0058)		
Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-1438 Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings (26 05 33 13-1437)		
Note: Includes field bend conduit up to 1".		
26 05 33 13-1439 LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	4.17	1.42
For Schedule 60, Add	0.33	
For Schedule 80, Add	0.57	
26 05 33 13-1440 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	4.74	1.56
For Schedule 60, Add	0.41	
For Schedule 80, Add	0.68	
26 05 33 13-1441 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	5.80	1.81
For Schedule 60, Add	0.54	
For Schedule 80, Add	0.89	
26 05 33 13-1442 LF 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	6.86	2.07
For Schedule 60, Add	0.68	
For Schedule 80, Add	1.10	
26 05 33 13-1443 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	8.06	2.42
For Schedule 60, Add	0.80	
For Schedule 80, Add	1.31	
26 05 33 13-1444 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	9.56	2.78
For Schedule 60, Add	1.01	
For Schedule 80, Add	1.62	
26 05 33 13-1445 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	12.44	3.29
For Schedule 60, Add	1.46	
For Schedule 80, Add	2.30	
26 05 33 13-1446 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	14.54	3.81
For Schedule 60, Add	1.73	
For Schedule 80, Add	2.71	
26 05 33 13-1447 LF 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	17.65	4.50
For Schedule 60, Add	2.16	
For Schedule 80, Add	3.37	
26 05 33 13-1448 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	20.90	5.54
For Schedule 60, Add	2.45	
For Schedule 80, Add	3.85	
26 05 33 13-1449 LF 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	29.75	7.80
For Schedule 60, Add	3.54	
For Schedule 80, Add	5.54	
26 05 33 13-1450 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	39.54	10.39
For Schedule 60, Add	4.69	
For Schedule 80, Add	7.34	
26 05 33 13-1451 Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows (26 05 33 13-1437)		
See CSI section 26 05 33 13-2423 for conduit field bending.		
26 05 33 13-1452 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	18.37	6.92
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	1.13	
For Schedule 80, Add	2.10	
26 05 33 13-1453 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	20.31	7.62
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	1.27	
For Schedule 80, Add	2.35	
26 05 33 13-1454 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	23.61	8.66
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	1.57	
For Schedule 80, Add	2.85	
26 05 33 13-1455 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	30.56	11.08
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	2.10	
For Schedule 80, Add	3.77	
26 05 33 13-1456 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	38.51	13.86
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	2.70	
For Schedule 80, Add	4.82	
26 05 33 13-1457 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	48.64	17.32
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	3.50	
For Schedule 80, Add	6.20	
26 05 33 13-1458 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	61.42	20.78
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	4.96	
For Schedule 80, Add	8.51	
26 05 33 13-1459 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	76.10	24.25
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	6.90	
For Schedule 80, Add	11.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1460 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	95.14	29.44
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	9.07	
For Schedule 80, Add	14.90	
26 05 33 13-1461 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	114.31	34.64
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	11.26	
For Schedule 80, Add	18.36	
26 05 33 13-1462 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	157.04	43.30
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	17.61	
For Schedule 80, Add	27.90	
26 05 33 13-1463 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	192.12	51.96
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	22.05	
For Schedule 80, Add	34.77	
26 05 33 13-1464 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows (26 05 33 13-1437)		
See CSI section 26 05 33 13-2423 for conduit field bending.		
26 05 33 13-1465 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	18.37	6.92
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	1.13	
For Schedule 80, Add	2.10	
26 05 33 13-1466 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	20.23	7.62
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	1.25	
For Schedule 80, Add	2.32	
26 05 33 13-1467 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	23.51	8.66
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	1.55	
For Schedule 80, Add	2.82	
26 05 33 13-1468 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	30.25	11.08
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	2.02	
For Schedule 80, Add	3.66	
26 05 33 13-1469 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	37.82	13.86
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	2.53	
For Schedule 80, Add	4.58	
26 05 33 13-1470 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	48.27	17.32
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	3.41	
For Schedule 80, Add	6.07	
26 05 33 13-1471 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	60.73	20.78
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	4.79	
For Schedule 80, Add	8.27	
26 05 33 13-1472 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	75.23	24.25
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	6.68	
For Schedule 80, Add	11.18	
26 05 33 13-1473 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	92.68	29.44
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	8.45	
For Schedule 80, Add	14.04	
26 05 33 13-1474 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	112.20	34.64
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	10.73	
For Schedule 80, Add	17.62	
26 05 33 13-1475 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	154.31	43.30
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	16.93	
For Schedule 80, Add	26.95	
26 05 33 13-1476 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	183.98	51.96
See CSI section 26 05 33 13-2423 for conduit field bending.		
For Schedule 60, Add	20.02	
For Schedule 80, Add	31.92	
26 05 33 13-1477 Polyvinyl Chloride (PVC) Conduit Female Adapters (26 05 33 13-1437)		
26 05 33 13-1478 EA 1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	12.62	4.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.64	
26 05 33 13-1479 EA 3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	14.52	5.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.16	
26 05 33 13-1480 EA 1" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	16.49	6.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.68	
26 05 33 13-1481 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	18.57	6.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.20	
26 05 33 13-1482 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	23.00	8.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.49	
26 05 33 13-1483 EA 2" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	27.91	10.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 05 33 13-1484 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	38.21	13.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.39	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1485 EA 3" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	48.16	17.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.99	
26 05 33 13-1486 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	62.46	22.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.89	
26 05 33 13-1487 EA 4" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	75.72	27.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.78	
26 05 33 13-1488 EA 5" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	99.60	34.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.98	
26 05 33 13-1489 EA 6" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	123.93	43.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.47	
26 05 33 13-1490 Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug (26 05 33 13-1437)		
26 05 33 13-1491 EA 1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	14.36	4.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.12	
26 05 33 13-1492 EA 3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	16.38	4.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.64	
26 05 33 13-1493 EA 1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	18.41	5.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.16	
26 05 33 13-1494 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	21.84	6.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.68	
26 05 33 13-1495 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	24.34	6.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.20	
26 05 33 13-1496 EA 2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	29.14	7.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.98	
26 05 33 13-1497 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	32.62	9.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.76	
26 05 33 13-1498 EA 3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	36.97	10.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 05 33 13-1499 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	43.76	12.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.09	
26 05 33 13-1500 EA 4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	48.37	13.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.39	
26 05 33 13-1501 EA 5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	60.68	15.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.69	
26 05 33 13-1502 EA 6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	68.19	17.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.99	
26 05 33 13-1503 Polyvinyl Chloride (PVC) Conduit Terminal Adapters (26 05 33 13-1437)		
26 05 33 13-1504 EA 1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	13.72	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.00	
26 05 33 13-1505 EA 3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	16.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.79	
26 05 33 13-1506 EA 1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	18.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.32	
26 05 33 13-1507 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	20.80	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.93	
26 05 33 13-1508 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	22.83	8.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.49	
26 05 33 13-1509 EA 2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	27.68	10.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 05 33 13-1510 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	37.74	13.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.39	
26 05 33 13-1511 EA 3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	47.51	17.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.99	
26 05 33 13-1512 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	61.63	22.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.89	
26 05 33 13-1513 EA 4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	74.86	27.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.78	
26 05 33 13-1514 EA 5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	97.92	34.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.98	
26 05 33 13-1515 EA 6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	121.91	43.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.47	
26 05 33 13-1516 Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover (26 05 33 13-1437)		
26 05 33 13-1517 EA 1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	39.18	13.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.39	
26 05 33 13-1518 EA 3/4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	45.39	15.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.69	
26 05 33 13-1519 EA 1" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	50.41	17.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.99	
26 05 33 13-1520 EA 1-1/4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	62.11	20.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.59	
26 05 33 13-1521 EA 1-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	76.82	25.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.48	
26 05 33 13-1522 EA 2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	99.00	31.17
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.38	
26 05 33 13-1523 EA 2-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	165.68	34.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1524 EA 3" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	177.09	38.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.58	
26 05 33 13-1525 EA 3-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	192.81	43.30
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.47	
26 05 33 13-1526 EA 4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	215.64	50.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.67	
26 05 33 13-1527 Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover <small>(26 05 33 13-1437)</small>		
26 05 33 13-1528 EA 1/2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover	52.16	18.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.84	
26 05 33 13-1529 EA 3/4" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover	58.30	20.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.22	
26 05 33 13-1530 EA 1" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover	63.09	22.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.61	
26 05 33 13-1531 EA 1-1/4" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover	78.56	25.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.37	
26 05 33 13-1532 EA 1-1/2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover	94.91	31.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.52	
26 05 33 13-1533 EA 2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover	116.37	36.90
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.68	
26 05 33 13-1534 Polyvinyl Chloride (PVC) Conduit Expansion Joint <small>(26 05 33 13-1437)</small>		
26 05 33 13-1535 EA 1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	82.11	17.32
26 05 33 13-1536 EA 3/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	91.75	20.78
26 05 33 13-1537 EA 1" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	101.97	24.25
26 05 33 13-1538 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	111.61	27.71
26 05 33 13-1539 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	121.02	31.17
26 05 33 13-1540 EA 2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	132.28	34.64
26 05 33 13-1541 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	161.36	39.83
26 05 33 13-1542 EA 3" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	192.73	45.03
26 05 33 13-1543 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	225.44	51.96
26 05 33 13-1544 EA 4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	267.94	60.62
26 05 33 13-1545 EA 5" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	352.72	72.74
26 05 33 13-1546 EA 6" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	463.36	93.52
26 05 33 13-1547 Polyvinyl Chloride (PVC) Conduit End Caps <small>(26 05 33 13-1437)</small>		
26 05 33 13-1548 EA 1/2" Polyvinyl Chloride (PVC) Conduit End Cap	10.70	3.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.60	
26 05 33 13-1549 EA 3/4" Polyvinyl Chloride (PVC) Conduit End Cap	12.66	4.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.12	
26 05 33 13-1550 EA 1" Polyvinyl Chloride (PVC) Conduit End Cap	14.58	4.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.64	
26 05 33 13-1551 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit End Cap	17.38	5.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.16	
26 05 33 13-1552 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit End Cap	20.22	6.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.68	
26 05 33 13-1553 EA 2" Polyvinyl Chloride (PVC) Conduit End Cap	23.79	6.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.20	
26 05 33 13-1554 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit End Cap	33.65	7.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.98	
26 05 33 13-1555 EA 3" Polyvinyl Chloride (PVC) Conduit End Cap	36.90	9.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.76	
26 05 33 13-1556 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit End Cap	46.91	10.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.53	
26 05 33 13-1557 EA 4" Polyvinyl Chloride (PVC) Conduit End Cap	56.52	10.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.06	
26 05 33 13-1558 EA 5" Polyvinyl Chloride (PVC) Conduit End Cap	65.60	12.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.09	
26 05 33 13-1559 EA 6" Polyvinyl Chloride (PVC) Conduit End Cap	82.74	13.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.39	
26 05 33 13-1560 Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways) <small>(26 05 33 13-1437)</small>		
26 05 33 13-1561 EA 2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways EZLB200).....	103.95	31.17
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.38	
26 05 33 13-1562 EA 3/4" To 1-1/4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB121)	104.48	20.78
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.59	
26 05 33 13-1563 EA 1-1/2" To 2-1/2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB251)	247.59	34.64
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.98	
26 05 33 13-1564 EA 3" To 4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB401)	475.87	50.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.67	
26 05 33 13-1565 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit <small>(26 05 33 13-0058)</small>		

Note: Exposed installation. Excludes supporting strap, hanger and fastening.

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1566		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit <small>(26 05 33 13-1565)</small>		
26 05 33	13-1567	LF	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	6.23	1.42
26 05 33	13-1568	LF	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	6.92	1.56
26 05 33	13-1569	LF	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	7.74	1.80
26 05 33	13-1570	LF	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	8.56	2.07
26 05 33	13-1571	LF	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	9.70	2.42
26 05 33	13-1572	LF	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	10.66	2.78
26 05 33	13-1573	LF	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	12.71	3.29
26 05 33	13-1574	LF	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	14.90	3.81
26 05 33	13-1575	LF	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	17.29	4.50
26 05 33	13-1576	LF	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	20.57	5.54
26 05 33	13-1577	LF	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	27.87	7.80
26 05 33	13-1578	LF	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	36.47	10.39
26 05 33	13-1579		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-1565)</small>		
26 05 33	13-1580	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	66.88	6.92
			<i>For 24" Radius, Add</i>	4.58	
			<i>For 36" Radius, Add</i>	6.69	
			<i>For 48" Radius, Add</i>	8.79	
26 05 33	13-1581	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	74.54	7.62
			<i>For 24" Radius, Add</i>	5.11	
			<i>For 36" Radius, Add</i>	7.45	
			<i>For 48" Radius, Add</i>	9.79	
26 05 33	13-1582	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	77.69	8.66
			<i>For 24" Radius, Add</i>	5.29	
			<i>For 36" Radius, Add</i>	7.77	
			<i>For 48" Radius, Add</i>	10.25	
26 05 33	13-1583	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	84.31	11.08
			<i>For 24" Radius, Add</i>	5.63	
			<i>For 36" Radius, Add</i>	8.43	
			<i>For 48" Radius, Add</i>	11.23	
26 05 33	13-1584	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	91.80	13.86
			<i>For 24" Radius, Add</i>	6.02	
			<i>For 36" Radius, Add</i>	9.18	
			<i>For 48" Radius, Add</i>	12.34	
26 05 33	13-1585	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	108.34	17.32
			<i>For 24" Radius, Add</i>	7.04	
			<i>For 36" Radius, Add</i>	10.83	
			<i>For 48" Radius, Add</i>	14.63	
26 05 33	13-1586	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	129.81	20.78
			<i>For 24" Radius, Add</i>	8.44	
			<i>For 36" Radius, Add</i>	12.98	
			<i>For 48" Radius, Add</i>	17.53	
26 05 33	13-1587	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	154.04	24.25
			<i>For 24" Radius, Add</i>	10.04	
			<i>For 36" Radius, Add</i>	15.40	
			<i>For 48" Radius, Add</i>	20.77	
26 05 33	13-1588	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	178.70	29.44
			<i>For 24" Radius, Add</i>	11.56	
			<i>For 36" Radius, Add</i>	17.87	
			<i>For 48" Radius, Add</i>	24.18	
26 05 33	13-1589	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	203.38	34.64
			<i>For 24" Radius, Add</i>	13.09	
			<i>For 36" Radius, Add</i>	20.34	
			<i>For 48" Radius, Add</i>	27.59	
26 05 33	13-1590	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	254.21	43.30
			<i>For 24" Radius, Add</i>	16.36	
			<i>For 36" Radius, Add</i>	25.42	
			<i>For 48" Radius, Add</i>	34.48	
26 05 33	13-1591	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	312.37	51.96
			<i>For 24" Radius, Add</i>	20.18	
			<i>For 36" Radius, Add</i>	31.24	
			<i>For 48" Radius, Add</i>	42.29	
26 05 33	13-1592		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-1565)</small>		
26 05 33	13-1593	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	57.96	6.92
			<i>For 24" Radius, Add</i>	3.91	
			<i>For 36" Radius, Add</i>	5.80	
			<i>For 48" Radius, Add</i>	7.68	
26 05 33	13-1594	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	64.55	7.62
			<i>For 24" Radius, Add</i>	4.37	
			<i>For 36" Radius, Add</i>	6.46	
			<i>For 48" Radius, Add</i>	8.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1595 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	67.60 4.53 6.76 8.99	8.66
26 05 33 13-1596 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	74.12 4.87 7.41 9.96	11.08
26 05 33 13-1597 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	81.51 5.25 8.15 11.05	13.86
26 05 33 13-1598 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	96.64 6.17 9.66 13.16	17.32
26 05 33 13-1599 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	115.80 7.39 11.58 15.77	20.78
26 05 33 13-1600 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	137.23 8.78 13.72 18.67	24.25
26 05 33 13-1601 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	159.78 10.14 15.98 21.81	29.44
26 05 33 13-1602 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	182.36 11.51 18.24 24.96	34.64
26 05 33 13-1603 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	227.94 14.39 22.79 31.20	43.30
26 05 33 13-1604 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	279.52 17.72 27.95 38.19	51.96
26 05 33 13-1605 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-1565)</small>		
26 05 33 13-1606 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	53.75 3.64 5.38 7.11	6.23
26 05 33 13-1607 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	59.88 4.06 5.99 7.91	6.85
26 05 33 13-1608 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	62.64 4.21 6.26 8.32	7.80
26 05 33 13-1609 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	68.52 4.52 6.85 9.19	9.98
26 05 33 13-1610 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	75.18 4.86 7.52 10.18	12.47
26 05 33 13-1611 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	89.05 5.70 8.91 12.11	15.59
26 05 33 13-1612 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	106.72 6.83 10.67 14.51	18.71
26 05 33 13-1613 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	126.49 8.12 12.65 17.18	21.83

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1614 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	147.18	26.49
For 24" Radius, Add	9.38	
For 36" Radius, Add	14.72	
For 48" Radius, Add	20.05	
26 05 33 13-1615 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	167.86	31.17
For 24" Radius, Add	10.64	
For 36" Radius, Add	16.79	
For 48" Radius, Add	22.93	
26 05 33 13-1616 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	209.82	38.97
For 24" Radius, Add	13.30	
For 36" Radius, Add	20.98	
For 48" Radius, Add	28.66	
26 05 33 13-1617 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	257.40	46.77
For 24" Radius, Add	16.38	
For 36" Radius, Add	25.74	
For 48" Radius, Add	35.10	
26 05 33 13-1618 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-1565)</small>		
26 05 33 13-1619 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	51.28	6.23
For 24" Radius, Add	3.46	
For 36" Radius, Add	5.13	
For 48" Radius, Add	6.80	
26 05 33 13-1620 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	57.10	6.85
For 24" Radius, Add	3.85	
For 36" Radius, Add	5.71	
For 48" Radius, Add	7.57	
26 05 33 13-1621 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	59.84	7.80
For 24" Radius, Add	4.00	
For 36" Radius, Add	5.98	
For 48" Radius, Add	7.97	
26 05 33 13-1622 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	65.69	9.98
For 24" Radius, Add	4.30	
For 36" Radius, Add	6.57	
For 48" Radius, Add	8.83	
26 05 33 13-1623 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	72.33	12.47
For 24" Radius, Add	4.65	
For 36" Radius, Add	7.23	
For 48" Radius, Add	9.82	
26 05 33 13-1624 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	85.80	15.59
For 24" Radius, Add	5.46	
For 36" Radius, Add	8.58	
For 48" Radius, Add	11.70	
26 05 33 13-1625 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	102.82	18.71
For 24" Radius, Add	6.54	
For 36" Radius, Add	10.28	
For 48" Radius, Add	14.02	
26 05 33 13-1626 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	121.81	21.83
For 24" Radius, Add	7.77	
For 36" Radius, Add	12.18	
For 48" Radius, Add	16.59	
26 05 33 13-1627 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	141.92	26.49
For 24" Radius, Add	8.99	
For 36" Radius, Add	14.19	
For 48" Radius, Add	19.40	
26 05 33 13-1628 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	162.02	31.17
For 24" Radius, Add	10.20	
For 36" Radius, Add	16.20	
For 48" Radius, Add	22.20	
26 05 33 13-1629 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	202.52	38.97
For 24" Radius, Add	12.75	
For 36" Radius, Add	20.25	
For 48" Radius, Add	27.75	
26 05 33 13-1630 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	248.28	46.77
For 24" Radius, Add	15.70	
For 36" Radius, Add	24.83	
For 48" Radius, Add	33.96	
26 05 33 13-1631 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings <small>(26 05 33 13-1565)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1632 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	32.65	4.85
26 05 33 13-1633 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	36.73	5.54
26 05 33 13-1634 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	38.69	6.23
26 05 33 13-1635 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	40.62	6.92
26 05 33 13-1636 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	45.40	8.66
26 05 33 13-1637 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	54.28	10.39
26 05 33 13-1638 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	68.70	13.86
26 05 33 13-1639 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	84.17	17.32
26 05 33 13-1640 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	102.27	22.52
26 05 33 13-1641 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	120.36	27.71
26 05 33 13-1642 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	150.46	34.64
26 05 33 13-1643 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	188.04	43.30
26 05 33 13-1644 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings <small>(26 05 33 13-1565)</small>		
26 05 33 13-1645 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	23.71	4.85
26 05 33 13-1646 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	26.72	5.54
26 05 33 13-1647 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	28.59	6.23
26 05 33 13-1648 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	30.46	6.92
26 05 33 13-1649 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	34.91	8.66
26 05 33 13-1650 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	39.33	10.39
26 05 33 13-1651 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	50.66	13.86
26 05 33 13-1652 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	62.53	17.32
26 05 33 13-1653 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	77.92	22.52
26 05 33 13-1654 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	93.31	27.71
26 05 33 13-1655 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	116.67	34.64
26 05 33 13-1656 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	145.80	43.30
26 05 33 13-1657 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings <small>(26 05 33 13-1565)</small>		
26 05 33 13-1658 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	26.52	3.99
26 05 33 13-1659 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	29.86	5.54
26 05 33 13-1660 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	31.76	6.23
26 05 33 13-1661 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	33.59	6.92
26 05 33 13-1662 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	38.28	8.66
26 05 33 13-1663 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	45.79	10.39
26 05 33 13-1664 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	58.40	13.86
26 05 33 13-1665 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	71.81	17.32
26 05 33 13-1666 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	88.36	22.52
26 05 33 13-1667 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	104.91	27.71
26 05 33 13-1668 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	131.13	34.64
26 05 33 13-1669 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	163.92	43.30
26 05 33 13-1670 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints <small>(26 05 33 13-1565)</small>		
26 05 33 13-1671 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	59.16	17.32
26 05 33 13-1672 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	69.55	20.78
26 05 33 13-1673 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	78.41	24.25
26 05 33 13-1674 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	87.18	27.71
26 05 33 13-1675 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	96.25	31.17
26 05 33 13-1676 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	108.40	34.64
26 05 33 13-1677 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	125.75	39.83
26 05 33 13-1678 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	143.96	45.03
26 05 33 13-1679 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	165.22	51.96
26 05 33 13-1680 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	190.78	60.62
26 05 33 13-1681 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	222.24	69.27
26 05 33 13-1682 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	256.15	77.94
26 05 33 13-1683 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints <small>(26 05 33 13-1565)</small>		
26 05 33 13-1684 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	65.60	17.32
26 05 33 13-1685 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	76.78	20.78
26 05 33 13-1686 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	85.67	24.25
26 05 33 13-1687 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	94.51	27.71
26 05 33 13-1688 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	103.65	31.17
26 05 33 13-1689 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	116.85	34.64
26 05 33 13-1690 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	135.89	39.83
26 05 33 13-1691 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	156.13	45.03
26 05 33 13-1692 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	178.91	51.96
26 05 33 13-1693 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	206.00	60.62
26 05 33 13-1694 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	241.31	69.27
26 05 33 13-1695 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	279.99	77.94
26 05 33 13-1696 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters <small>(26 05 33 13-1565)</small>		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1697 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	65.16	4.85
26 05 33 13-1698 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	72.77	5.54
26 05 33 13-1699 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	76.31	6.23
26 05 33 13-1700 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	79.93	6.92
26 05 33 13-1701 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	85.23	8.66
26 05 33 13-1702 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	95.62	10.39
26 05 33 13-1703 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	118.22	13.86
26 05 33 13-1704 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	143.53	17.32
26 05 33 13-1705 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	169.06	22.52
26 05 33 13-1706 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	194.57	27.71
26 05 33 13-1707 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	243.28	34.64
26 05 33 13-1708 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	302.87	43.30
26 05 33 13-1709 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints <small>(26 05 33 13-1565)</small>		
26 05 33 13-1710 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	76.80	17.32
26 05 33 13-1711 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	89.19	20.78
26 05 33 13-1712 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	106.61	24.25
26 05 33 13-1713 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	131.28	27.71
26 05 33 13-1714 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	162.95	31.17
26 05 33 13-1715 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	212.59	34.64
26 05 33 13-1716 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	297.84	39.83
26 05 33 13-1717 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	358.40	45.03
26 05 33 13-1718 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	432.23	51.96
26 05 33 13-1719 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	510.38	60.62
26 05 33 13-1720 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	599.43	69.27
26 05 33 13-1721 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	918.46	77.94
26 05 33 13-1722 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover <small>(26 05 33 13-1565)</small>		
26 05 33 13-1723 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	64.30	13.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.39	
26 05 33 13-1724 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	74.34	15.59
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.69	
26 05 33 13-1725 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	97.22	17.32
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.99	
26 05 33 13-1726 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	118.57	20.78
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.59	
26 05 33 13-1727 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	150.58	25.98
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.48	
26 05 33 13-1728 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	204.82	31.17
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.38	
26 05 33 13-1729 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	328.83	36.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.28	
26 05 33 13-1730 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	421.12	41.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.18	
26 05 33 13-1731 EA 3-1/2" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover	505.84	48.49
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.37	
26 05 33 13-1732 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	590.57	55.42
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.57	
26 05 33 13-1733 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	695.12	62.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.76	
26 05 33 13-1734 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	787.77	69.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.96	
26 05 33 13-1735 Explosion Proof Conduit Fittings <small>(26 05 33 13-0058)</small>		
Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT) and Intermediate Metal Conduit (IMC) conduit.		
26 05 33 13-1736 Explosion Proof Malleable Iron Conduit Unions <small>(26 05 33 13-1735)</small>		
26 05 33 13-1737 EA 1/2" Explosion Proof Malleable Iron Conduit Union	37.75	7.69
26 05 33 13-1738 EA 3/4" Explosion Proof Malleable Iron Conduit Union	46.75	8.50
26 05 33 13-1739 EA 1" Explosion Proof Malleable Iron Conduit Union	74.63	11.33
26 05 33 13-1740 EA 1-1/4" Explosion Proof Malleable Iron Conduit Union	99.30	12.55
26 05 33 13-1741 EA 1-1/2" Explosion Proof Malleable Iron Conduit Union	125.04	15.38
26 05 33 13-1742 EA 2" Explosion Proof Malleable Iron Conduit Union	156.06	17.81
26 05 33 13-1743 EA 2-1/2" Explosion Proof Malleable Iron Conduit Union	237.82	25.45



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1744 EA 3" Explosion Proof Malleable Iron Conduit Union.....	302.71	30.29
26 05 33 13-1745 EA 3-1/2" Explosion Proof Malleable Iron Conduit Union	511.37	36.36
26 05 33 13-1746 EA 4" Explosion Proof Malleable Iron Conduit Union.....	540.72	46.45
26 05 33 13-1747 Explosion Proof Malleable Iron Conduit Bodies (26 05 33 13-1735)		
26 05 33 13-1748 EA 1/2" Explosion Proof Malleable Iron Two Hub Conduit Body	134.33	24.28
26 05 33 13-1749 EA 3/4" Explosion Proof Malleable Iron Two Hub Conduit Body	151.38	27.52
26 05 33 13-1750 EA 1" Explosion Proof Malleable Iron Two Hub Conduit Body	177.69	30.35
26 05 33 13-1751 EA 1/2" Explosion Proof Malleable Iron Three Hub Conduit Body	150.90	30.35
26 05 33 13-1752 EA 3/4" Explosion Proof Malleable Iron Three Hub Conduit Body	179.72	36.43
26 05 33 13-1753 EA 1" Explosion Proof Malleable Iron Three Hub Conduit Body	213.01	41.68
26 05 33 13-1754 Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical (26 05 33 13-1735)		
Note: Includes sealing gasket and lock nut.		
26 05 33 13-1755 EA 1/2" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	111.06	20.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.17	
26 05 33 13-1756 EA 3/4" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	113.04	22.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.00	
26 05 33 13-1757 EA 1" x 1-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	123.40	24.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.51	
26 05 33 13-1758 EA 1-1/4" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	158.92	30.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.76	
26 05 33 13-1759 EA 1-1/2" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	203.61	35.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.71	
26 05 33 13-1760 EA 2" x 2-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	262.92	40.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.35	
26 05 33 13-1761 EA 2-1/2" x 3" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	373.58	60.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.44	
26 05 33 13-1762 EA 3" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	472.32	75.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.95	
26 05 33 13-1763 EA 3-1/2" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	672.62	83.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.71	
26 05 33 13-1764 EA 4" x 5" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	871.91	90.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.16	
26 05 33 13-1765 Explosion Proof Flexible Conduit Couplings (26 05 33 13-1735)		
26 05 33 13-1766 EA 1/2" x 12" Explosion Proof Flexible Conduit Coupling.....	308.25	9.31
26 05 33 13-1767 EA 3/4" x 15" Explosion Proof Flexible Conduit Coupling	403.71	10.52
26 05 33 13-1768 Flexible Conduit (26 05 33 13-0057)		
26 05 33 13-1769 Flexible Liquid Tight Metallic Conduit And Connectors (26 05 33 13-1768)		
Note: Steel inner core with PVC cover.		
26 05 33 13-1770 Flexible Liquid Tight Metallic Conduit (26 05 33 13-1769)		
26 05 33 13-1771 LF 3/8" Flexible Liquid Tight Metallic Conduit	3.78	1.10
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.42	
For Work In Restricted Working Space, Add	0.83	
26 05 33 13-1772 LF 1/2" Flexible Liquid Tight Metallic Conduit	3.93	1.10
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.42	
For Work In Restricted Working Space, Add	0.83	
26 05 33 13-1773 LF 3/4" Flexible Liquid Tight Metallic Conduit	5.26	1.47
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.55	
For Work In Restricted Working Space, Add	1.11	
26 05 33 13-1774 LF 1" Flexible Liquid Tight Metallic Conduit	6.06	1.47
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.55	
For Work In Restricted Working Space, Add	1.11	
26 05 33 13-1775 LF 1-1/4" Flexible Liquid Tight Metallic Conduit	7.84	1.85
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.69	
For Work In Restricted Working Space, Add	1.38	
26 05 33 13-1776 LF 1-1/2" Flexible Liquid Tight Metallic Conduit	10.08	2.22
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.83	
For Work In Restricted Working Space, Add	1.66	
26 05 33 13-1777 LF 2" Flexible Liquid Tight Metallic Conduit	13.26	2.95
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.11	
For Work In Restricted Working Space, Add	2.21	
26 05 33 13-1778 LF 2-1/2" Flexible Liquid Tight Metallic Conduit	18.01	3.32
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.25	
For Work In Restricted Working Space, Add	2.49	
26 05 33 13-1779 LF 3" Flexible Liquid Tight Metallic Conduit	26.47	4.06
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.52	
For Work In Restricted Working Space, Add	3.05	
26 05 33 13-1780 LF 4" Flexible Liquid Tight Metallic Conduit	36.21	5.17
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.94	
For Work In Restricted Working Space, Add	3.88	
26 05 33 13-1781 Straight Liquid Tight Connector (26 05 33 13-1769)		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1782 EA 3/8" Straight Liquid Tight Connector	10.26	2.95
For Work In Restricted Working Space, Add	2.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.21	
26 05 33 13-1783 EA 1/2" Straight Liquid Tight Connector	10.26	2.95
For Work In Restricted Working Space, Add	2.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.21	
26 05 33 13-1784 EA 3/4" Straight Liquid Tight Connector	12.43	3.32
For Work In Restricted Working Space, Add	2.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.49	
26 05 33 13-1785 EA 1" Straight Liquid Tight Connector	16.59	3.69
For Work In Restricted Working Space, Add	2.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.77	
26 05 33 13-1786 EA 1-1/4" Straight Liquid Tight Connector	21.28	4.06
For Work In Restricted Working Space, Add	3.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.05	
26 05 33 13-1787 EA 1-1/2" Straight Liquid Tight Connector	26.94	4.42
For Work In Restricted Working Space, Add	3.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.32	
26 05 33 13-1788 EA 2" Straight Liquid Tight Connector	37.10	5.17
For Work In Restricted Working Space, Add	3.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.88	
26 05 33 13-1789 EA 2-1/2" Straight Liquid Tight Connector	126.39	6.64
For Work In Restricted Working Space, Add	4.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26 05 33 13-1790 EA 3" Straight Liquid Tight Connector	162.91	7.01
For Work In Restricted Working Space, Add	5.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.26	
26 05 33 13-1791 EA 4" Straight Liquid Tight Connector	199.47	10.33
For Work In Restricted Working Space, Add	7.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.75	
26 05 33 13-1792 90 Degree Angle Liquid Tight Connector (26 05 33 13-1789)		
26 05 33 13-1793 EA 3/8" 90 Degree Angle Liquid Tight Connector	14.96	4.06
For Work In Restricted Working Space, Add	3.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.05	
26 05 33 13-1794 EA 1/2" 90 Degree Angle Liquid Tight Connector	15.58	4.06
For Work In Restricted Working Space, Add	3.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.05	
26 05 33 13-1795 EA 3/4" 90 Degree Angle Liquid Tight Connector	17.60	4.42
For Work In Restricted Working Space, Add	3.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.32	
26 05 33 13-1796 EA 1" 90 Degree Angle Liquid Tight Connector	24.79	5.17
For Work In Restricted Working Space, Add	3.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.88	
26 05 33 13-1797 EA 1-1/4" 90 Degree Angle Liquid Tight Connector	31.19	5.54
For Work In Restricted Working Space, Add	4.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.15	
26 05 33 13-1798 EA 1-1/2" 90 Degree Angle Liquid Tight Connector	37.81	5.91
For Work In Restricted Working Space, Add	4.43	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.43	
26 05 33 13-1799 EA 2" 90 Degree Angle Liquid Tight Connector	49.98	6.64
For Work In Restricted Working Space, Add	4.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26 05 33 13-1800 EA 2-1/2" 90 Degree Angle Liquid Tight Connector	176.50	7.01
For Work In Restricted Working Space, Add	5.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.26	
26 05 33 13-1801 EA 3" 90 Degree Angle Liquid Tight Connector	208.56	8.11
For Work In Restricted Working Space, Add	6.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.09	
26 05 33 13-1802 EA 4" 90 Degree Angle Liquid Tight Connector	288.57	12.92
For Work In Restricted Working Space, Add	9.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.69	
26 05 33 13-1803 45 Degree Angle Connector (26 05 33 13-1769)		
26 05 33 13-1804 EA 3/8" 45 Degree Angle Liquid Tight Connector	14.75	4.06
For Work In Restricted Working Space, Add	3.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.05	
26 05 33 13-1805 EA 1/2" 45 Degree Angle Liquid Tight Connector	14.90	4.06
For Work In Restricted Working Space, Add	3.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.05	
26 05 33 13-1806 EA 3/4" 45 Degree Angle Liquid Tight Connector	17.60	4.42
For Work In Restricted Working Space, Add	3.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.32	
26 05 33 13-1807 EA 1" 45 Degree Angle Liquid Tight Connector	26.48	5.17
For Work In Restricted Working Space, Add	3.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.88	
26 05 33 13-1808 EA 1-1/4" 45 Degree Angle Liquid Tight Connector	30.09	5.54
For Work In Restricted Working Space, Add	4.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.15	
26 05 33 13-1809 EA 1-1/2" 45 Degree Angle Liquid Tight Connector	33.71	5.91
For Work In Restricted Working Space, Add	4.43	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1810 Flexible Metallic Conduit And Connectors <small>(26 05 33 13-1768)</small>		
26 05 33 13-1811 Flexible Steel Conduit <small>(26 05 33 13-1810)</small>		
26 05 33 13-1812 LF 3/8" Flexible Metallic Conduit.....	3.66	1.21
For Flexible Aluminum Conduit, Add	0.12	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.44	
For Installation In Metal Stud Wall, Add	0.30	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.74	
For Work In Restricted Working Space, Add	0.89	
26 05 33 13-1813 LF 1/2" Flexible Metallic Conduit.....	3.80	1.21
For Flexible Aluminum Conduit, Add	0.13	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.45	
For Installation In Metal Stud Wall, Add	0.30	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.76	
For Work In Restricted Working Space, Add	0.91	
26 05 33 13-1814 LF 3/4" Flexible Metallic Conduit.....	4.33	1.61
For Flexible Aluminum Conduit, Add	0.17	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.49	
For Installation In Metal Stud Wall, Add	0.33	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.82	
For Work In Restricted Working Space, Add	0.98	
26 05 33 13-1815 LF 1" Flexible Metallic Conduit.....	5.48	1.61
For Flexible Aluminum Conduit, Add	0.32	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.53	
For Installation In Metal Stud Wall, Add	0.35	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.88	
For Work In Restricted Working Space, Add	1.06	
26 05 33 13-1816 LF 1-1/4" Flexible Metallic Conduit.....	6.28	2.02
For Flexible Aluminum Conduit, Add	0.42	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.56	
For Installation In Metal Stud Wall, Add	0.37	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.94	
For Work In Restricted Working Space, Add	1.12	
26 05 33 13-1817 LF 1-1/2" Flexible Metallic Conduit.....	8.35	2.43
For Flexible Aluminum Conduit, Add	0.74	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.58	
For Installation In Metal Stud Wall, Add	0.39	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.97	
For Work In Restricted Working Space, Add	1.17	
26 05 33 13-1818 LF 2" Flexible Metallic Conduit.....	9.51	3.23
For Flexible Aluminum Conduit, Add	0.90	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.61	
For Installation In Metal Stud Wall, Add	0.40	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.01	
For Work In Restricted Working Space, Add	1.21	
26 05 33 13-1819 LF 2-1/2" Flexible Steel Conduit.....	11.67	3.64
For Flexible Aluminum Conduit, Add	1.09	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.76	
For Installation In Metal Stud Wall, Add	0.51	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.26	
For Work In Restricted Working Space, Add	1.52	
26 05 33 13-1820 LF 3" Flexible Metallic Conduit.....	17.56	4.44
For Flexible Aluminum Conduit, Add	1.90	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.91	
For Installation In Metal Stud Wall, Add	0.61	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.52	
For Work In Restricted Working Space, Add	1.82	
26 05 33 13-1821 LF 3-1/2" Flexible Metallic Conduit.....	21.57	4.84
For Flexible Aluminum Conduit, Add	2.39	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.06	
For Installation In Metal Stud Wall, Add	0.71	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.77	
For Work In Restricted Working Space, Add	2.12	
26 05 33 13-1822 LF 4" Flexible Metallic Conduit.....	24.81	5.66
For Flexible Aluminum Conduit, Add	2.76	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.21	
For Installation In Metal Stud Wall, Add	0.81	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.02	
For Work In Restricted Working Space, Add	2.42	
26 05 33 13-1823 Plain Squeeze Type Straight Connector <small>(26 05 33 13-1810)</small>		
26 05 33 13-1824 EA 3/8" Flexible Straight Connectors, Plain.....	6.31	3.23
For Work In Restricted Working Space, Add	1.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.36	
26 05 33 13-1825 EA 1/2" Flexible Straight Connectors, Plain.....	7.85	3.64
For Work In Restricted Working Space, Add	1.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.52	
26 05 33 13-1826 EA 3/4" Flexible Straight Connectors, Plain.....	9.01	4.44
For Work In Restricted Working Space, Add	1.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.82	
26 05 33 13-1827 EA 1" Flexible Straight Connectors, Plain.....	14.56	4.84
For Work In Restricted Working Space, Add	2.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.42	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1828 EA 1-1/4" Flexible Straight Connectors, Plain.....	20.71	5.66
For Work In Restricted Working Space, Add	3.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.03	
26 05 33 13-1829 EA 1-1/2" Flexible Straight Connectors, Plain.....	27.35	6.87
For Work In Restricted Working Space, Add	3.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.79	
26 05 33 13-1830 EA 2" Flexible Straight Connectors, Plain.....	36.10	6.87
For Work In Restricted Working Space, Add	4.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.55	
26 05 33 13-1831 EA 2-1/2" Flexible Straight Connectors, Plain.....	58.82	8.48
For Work In Restricted Working Space, Add	5.30	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.30	
26 05 33 13-1832 EA 3" Flexible Straight Connectors, Plain.....	77.23	9.29
For Work In Restricted Working Space, Add	6.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.06	
26 05 33 13-1833 EA 3-1/2" Flexible Straight Connectors, Plain.....	243.33	10.91
For Work In Restricted Working Space, Add	6.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.82	
26 05 33 13-1834 EA 4" Flexible Straight Connectors, Plain.....	304.34	13.33
For Work In Restricted Working Space, Add	7.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.58	
26 05 33 13-1835 Insulated Throat Squeeze Type Straight Connector <small>(26 05 33 13-1810)</small>		
26 05 33 13-1836 EA 1/2" Flexible Straight Connectors, Insulated.....	8.82	3.64
For Work In Restricted Working Space, Add	1.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.52	
26 05 33 13-1837 EA 3/4" Flexible Straight Connectors, Insulated.....	10.28	4.44
For Work In Restricted Working Space, Add	1.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.82	
26 05 33 13-1838 EA 1" Flexible Straight Connectors, Insulated.....	16.28	4.84
For Work In Restricted Working Space, Add	2.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.42	
26 05 33 13-1839 EA 1-1/4" Flexible Straight Connectors, Insulated.....	23.87	5.66
For Work In Restricted Working Space, Add	3.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.03	
26 05 33 13-1840 EA 1-1/2" Flexible Straight Connectors, Insulated.....	32.98	6.06
For Work In Restricted Working Space, Add	3.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.79	
26 05 33 13-1841 EA 2" Flexible Straight Connectors, Insulated.....	46.04	6.87
For Work In Restricted Working Space, Add	4.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.55	
26 05 33 13-1842 EA 2-1/2" Flexible Straight Connectors, Insulated.....	80.09	8.48
For Work In Restricted Working Space, Add	5.30	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.30	
26 05 33 13-1843 EA 3" Flexible Straight Connectors, Insulated.....	102.31	9.29
For Work In Restricted Working Space, Add	6.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.06	
26 05 33 13-1844 EA 3-1/2" Flexible Straight Connectors, Insulated.....	281.98	10.91
For Work In Restricted Working Space, Add	6.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.82	
26 05 33 13-1845 EA 4" Flexible Straight Connectors, Insulated.....	362.46	13.33
For Work In Restricted Working Space, Add	7.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.58	
26 05 33 13-1846 Plain Squeeze Type 90 Degree Connector <small>(26 05 33 13-1810)</small>		
26 05 33 13-1847 EA 3/8" Flexible 90 Degree Connector, Plain.....	8.89	4.04
For Work In Restricted Working Space, Add	1.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.82	
26 05 33 13-1848 EA 1/2" Flexible 90 Degree Connector, Plain.....	11.80	4.44
For Work In Restricted Working Space, Add	2.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.12	
26 05 33 13-1849 EA 3/4" Flexible 90 Degree Connector, Plain.....	15.49	4.84
For Work In Restricted Working Space, Add	2.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.42	
26 05 33 13-1850 EA 1" Flexible 90 Degree Connector, Plain.....	21.79	5.66
For Work In Restricted Working Space, Add	3.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.03	
26 05 33 13-1851 EA 1-1/4" Flexible 90 Degree Connector, Plain.....	34.32	6.06
For Work In Restricted Working Space, Add	3.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.64	
26 05 33 13-1852 EA 1-1/2" Flexible 90 Degree Connector, Plain.....	53.95	7.07
For Work In Restricted Working Space, Add	4.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.55	
26 05 33 13-1853 EA 2" Flexible 90 Degree Connector, Plain.....	65.15	8.68
For Work In Restricted Working Space, Add	5.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.15	
26 05 33 13-1854 EA 2-1/2" Flexible 90 Degree Connector, Plain.....	145.24	9.29
For Work In Restricted Working Space, Add	6.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.06	
26 05 33 13-1855 EA 3" Flexible 90 Degree Connector, Plain.....	186.89	10.91
For Work In Restricted Working Space, Add	6.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1856 EA 3-1/2" Flexible 90 Degree Connector, Plain	398.60	13.33
For Work In Restricted Working Space, Add	7.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.58	
26 05 33 13-1857 EA 4" Flexible 90 Degree Connector, Plain	713.48	15.15
For Work In Restricted Working Space, Add	9.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.09	
26 05 33 13-1858 Insulated Throat Squeeze Type 90 Degree Connector <small>(26 05 33 13-1810)</small>		
26 05 33 13-1859 EA 1/2" Flexible 90 Degree Connector, Insulated	13.14	4.44
For Work In Restricted Working Space, Add	2.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.12	
26 05 33 13-1860 EA 3/4" Flexible 90 Degree Connector, Insulated	17.14	4.84
For Work In Restricted Working Space, Add	2.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.42	
26 05 33 13-1861 EA 1" Flexible 90 Degree Connector, Insulated	21.79	5.66
For Work In Restricted Working Space, Add	3.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.03	
26 05 33 13-1862 EA 1-1/4" Flexible 90 Degree Connector, Insulated	40.19	6.06
For Work In Restricted Working Space, Add	3.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.64	
26 05 33 13-1863 EA 1-1/2" Flexible 90 Degree Connector, Insulated	64.60	7.07
For Work In Restricted Working Space, Add	4.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.55	
26 05 33 13-1864 EA 2" Flexible 90 Degree Connector, Insulated	82.47	8.68
For Work In Restricted Working Space, Add	5.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.15	
26 05 33 13-1865 EA 2-1/2" Flexible 90 Degree Connector, Insulated	199.41	9.29
For Work In Restricted Working Space, Add	6.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.06	
26 05 33 13-1866 EA 3" Flexible 90 Degree Connector, Insulated	245.57	10.91
For Work In Restricted Working Space, Add	6.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.82	
26 05 33 13-1867 EA 3-1/2" Flexible 90 Degree Connector, Insulated	664.56	13.33
For Work In Restricted Working Space, Add	7.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.58	
26 05 33 13-1868 EA 4" Flexible 90 Degree Connector, Insulated	992.03	15.15
For Work In Restricted Working Space, Add	9.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.09	
26 05 33 13-1869 Plain Squeeze Type 45 Degree Connector <small>(26 05 33 13-1810)</small>		
26 05 33 13-1870 EA 3/8" Flexible 45 Degree Connector, Plain	9.97	4.04
For Work In Restricted Working Space, Add	1.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.82	
26 05 33 13-1871 EA 1/2" Flexible 45 Degree Connector, Plain	13.53	4.44
For Work In Restricted Working Space, Add	2.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.12	
26 05 33 13-1872 EA 3/4" Flexible 45 Degree Connector, Plain	17.42	4.84
For Work In Restricted Working Space, Add	2.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.42	
26 05 33 13-1873 Insulated Squeeze Type 45 Degree Connector <small>(26 05 33 13-1810)</small>		
26 05 33 13-1874 EA 3/8" Flexible 45 Degree Connector, Insulated	10.71	4.84
For Work In Restricted Working Space, Add	1.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.82	
26 05 33 13-1875 EA 1/2" Flexible 45 Degree Connector, Insulated	14.76	4.44
For Work In Restricted Working Space, Add	2.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.12	
26 05 33 13-1876 EA 3/4" Flexible 45 Degree Connector, Insulated	19.15	4.84
For Work In Restricted Working Space, Add	2.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.42	
26 05 33 13-1877 Plain Screw-In Connector <small>(26 05 33 13-1810)</small>		
26 05 33 13-1878 EA 3/8" Flexible Steel Screw-in Connector, Plain	5.19	3.23
For Work In Restricted Working Space, Add	1.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.36	
26 05 33 13-1879 EA 1/2" Flexible Steel Screw-in Connector, Plain	5.59	3.64
For Work In Restricted Working Space, Add	1.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.52	
26 05 33 13-1880 EA 3/4" Flexible Steel Screw-in Connector, Plain	7.16	4.44
For Work In Restricted Working Space, Add	1.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.82	
26 05 33 13-1881 EA 1" Flexible Steel Screw-in Connector, Plain	10.29	4.84
For Work In Restricted Working Space, Add	2.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.42	
26 05 33 13-1882 EA 1-1/4" Flexible Steel Screw-in Connector, Plain	15.27	5.66
For Work In Restricted Working Space, Add	3.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.03	
26 05 33 13-1883 EA 1-1/2" Flexible Steel Screw-in Connector, Plain	18.64	6.06
For Work In Restricted Working Space, Add	3.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.79	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1884 EA 2" Flexible Steel Screw-in Connector, Plain	27.66	6.87
For Work In Restricted Working Space, Add	4.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.55	
26 05 33 13-1885 Insulated Screw-In Connector <small>(26 05 33 13-1810)</small>		
26 05 33 13-1886 EA 3/8" Flexible Steel Screw-in Connector, Insulated	5.51	3.23
For Work In Restricted Working Space, Add	1.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.36	
26 05 33 13-1887 EA 1/2" Flexible Steel Screw-in Connector, Insulated	5.85	3.64
For Work In Restricted Working Space, Add	1.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.52	
26 05 33 13-1888 EA 3/4" Flexible Steel Screw-in Connector, Insulated	7.82	4.44
For Work In Restricted Working Space, Add	1.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.82	
26 05 33 13-1889 EA 1" Flexible Steel Screw-in Connector, Insulated	11.29	4.84
For Work In Restricted Working Space, Add	2.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.42	
26 05 33 13-1890 EA 1-1/4" Flexible Steel Screw-in Connector, Insulated	16.70	5.66
For Work In Restricted Working Space, Add	3.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.03	
26 05 33 13-1891 EA 1-1/2" Flexible Steel Screw-in Connector, Insulated	20.35	6.06
For Work In Restricted Working Space, Add	3.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.79	
26 05 33 13-1892 EA 2" Flexible Steel Screw-in Connector, Insulated	29.16	6.87
For Work In Restricted Working Space, Add	4.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.55	
26 05 33 13-1893 Screw-In Coupling <small>(26 05 33 13-1810)</small>		
26 05 33 13-1894 EA 1/2" Flexible Steel Screw-in Coupling	6.22	3.64
For Work In Restricted Working Space, Add	1.52	
26 05 33 13-1895 EA 3/4" Flexible Steel Screw-in Coupling	8.19	4.44
For Work In Restricted Working Space, Add	1.82	
26 05 33 13-1896 Flexible To Electrical Metallic Tubing (EMT) Coupling <small>(26 05 33 13-1810)</small>		
26 05 33 13-1897 EA 3/8" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling	8.52	3.23
For Work In Restricted Working Space, Add	1.36	
26 05 33 13-1898 EA 1/2" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling	11.68	3.64
For Work In Restricted Working Space, Add	1.52	
26 05 33 13-1899 EA 3/4" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling	15.49	4.44
For Work In Restricted Working Space, Add	1.82	
26 05 33 13-1900 Die Cast Squeeze Type Straight Connector <small>(26 05 33 13-1810)</small>		
26 05 33 13-1901 EA 3/8" Flexible Straight Connector, Die Cast	5.39	3.23
For Work In Restricted Working Space, Add	1.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.36	
26 05 33 13-1902 EA 1/2" Flexible Straight Connector, Die Cast	6.11	3.64
For Work In Restricted Working Space, Add	1.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.52	
26 05 33 13-1903 EA 3/4" Flexible Straight Connector, Die Cast	7.60	4.44
For Work In Restricted Working Space, Add	1.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.82	
26 05 33 13-1904 EA 1" Flexible Straight Connector, Die Cast	11.52	4.84
For Work In Restricted Working Space, Add	2.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.42	
26 05 33 13-1905 EA 1-1/4" Flexible Straight Connector, Die Cast	15.58	5.66
For Work In Restricted Working Space, Add	3.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.03	
26 05 33 13-1906 EA 1-1/2" Flexible Straight Connector, Die Cast	21.21	6.06
For Work In Restricted Working Space, Add	3.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.79	
26 05 33 13-1907 EA 2" Flexible Straight Connector, Die Cast	27.52	6.87
For Work In Restricted Working Space, Add	4.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.55	
26 05 33 13-1908 Die Cast Squeeze Type 90 Degree Connector <small>(26 05 33 13-1810)</small>		
26 05 33 13-1909 EA 3/8" Flexible 90 Degree Connector, Die Cast	7.14	4.04
For Work In Restricted Working Space, Add	1.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.82	
26 05 33 13-1910 EA 1/2" Flexible 90 Degree Connector, Die Cast	8.89	4.44
For Work In Restricted Working Space, Add	2.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.12	
26 05 33 13-1911 EA 3/4" Flexible 90 Degree Connector, Die Cast	10.83	4.84
For Work In Restricted Working Space, Add	2.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.42	
26 05 33 13-1912 EA 1" Flexible 90 Degree Connector, Die Cast	17.36	5.66
For Work In Restricted Working Space, Add	3.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1913 EA 1-1/4" Flexible 90 Degree Connector, Die Cast <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.79 3.64 3.64	6.06
26 05 33 13-1914 EA 1-1/2" Flexible 90 Degree Connector, Die Cast <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.80 4.55 4.55	7.07
26 05 33 13-1915 EA 2" Flexible 90 Degree Connector, Die Cast <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.46 5.15 5.15	8.68
26 05 33 13-1916 Flexible Liquid Tight Non-Metallic Conduit And Connectors (26 05 33 13-1768)		
26 05 33 13-1917 Flexible Liquid Tight Non-Metallic Conduit (26 05 33 13-1916)		
26 05 33 13-1918 LF 3/8" Flexible Liquid Tight Non-Metallic Conduit..... <i>For Work In Restricted Working Space, Add</i>	3.44 0.83	1.10
26 05 33 13-1919 LF 1/2" Flexible Liquid Tight Non-Metallic Conduit..... <i>For Work In Restricted Working Space, Add</i>	3.49 0.83	1.10
26 05 33 13-1920 LF 3/4" Flexible Liquid Tight Non-Metallic Conduit..... <i>For Work In Restricted Working Space, Add</i>	4.69 1.11	1.47
26 05 33 13-1921 LF 1" Flexible Liquid Tight Non-Metallic Conduit..... <i>For Work In Restricted Working Space, Add</i>	5.71 1.11	1.47
26 05 33 13-1922 LF 1-1/4" Flexible Liquid Tight Non-Metallic Conduit..... <i>For Work In Restricted Working Space, Add</i>	7.24 1.38	1.85
26 05 33 13-1923 LF 1-1/2" Flexible Liquid Tight Non-Metallic Conduit..... <i>For Work In Restricted Working Space, Add</i>	9.20 1.66	2.22
26 05 33 13-1924 LF 2" Flexible Liquid Tight Non-Metallic Conduit..... <i>For Work In Restricted Working Space, Add</i>	11.84 2.21	2.95
26 05 33 13-1925 Liquid Tight Non-Metallic Straight Connector (26 05 33 13-1916)		
26 05 33 13-1926 EA 3/8" Liquid Tight Non-Metallic Straight Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.84 2.21 2.21	2.95
26 05 33 13-1927 EA 1/2" Liquid Tight Non-Metallic Straight Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.84 2.21 2.21	2.95
26 05 33 13-1928 EA 3/4" Liquid Tight Non-Metallic Straight Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.95 2.49 2.49	3.32
26 05 33 13-1929 EA 1" Liquid Tight Non-Metallic Straight Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.70 2.77 2.77	3.69
26 05 33 13-1930 EA 1-1/4" Liquid Tight Non-Metallic Straight Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.97 3.05 3.05	4.06
26 05 33 13-1931 EA 1-1/2" Liquid Tight Non-Metallic Straight Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.74 3.32 3.32	4.42
26 05 33 13-1932 EA 2" Liquid Tight Non-Metallic Straight Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.99 3.88 3.88	5.17
26 05 33 13-1933 Liquid Tight Non-Metallic 90 Degree Angle Connector (26 05 33 13-1916)		
26 05 33 13-1934 EA 3/8" Liquid Tight Non-Metallic 90 Degree Angle Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.15 3.05 3.05	4.06
26 05 33 13-1935 EA 1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.15 3.05 3.05	4.06
26 05 33 13-1936 EA 3/4" Liquid Tight Non-Metallic 90 Degree Angle Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.23 3.32 3.32	4.42
26 05 33 13-1937 EA 1" Liquid Tight Non-Metallic 90 Degree Angle Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.04 3.88 3.88	5.17
26 05 33 13-1938 EA 1-1/4" Liquid Tight Non-Metallic 90 Degree Angle Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.89 4.15 4.15	5.54
26 05 33 13-1939 EA 1-1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.47 4.43 4.43	5.91
26 05 33 13-1940 EA 2" Liquid Tight Non-Metallic 90 Degree Angle Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.30 4.98 4.98	6.64
26 05 33 13-1941 Liquid Tight Non-Metallic 45 Degree Angle Connector (26 05 33 13-1916)		
26 05 33 13-1942 EA 3/8" Liquid Tight Non-Metallic 45 Degree Angle Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.15 3.05 3.05	4.06

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1943 EA 1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector .....14.15		4.06
<i>For Work In Restricted Working Space, Add</i>	3.05	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.05	
26 05 33 13-1944 EA 3/4" Liquid Tight Non-Metallic 45 Degree Angle Connector .....17.23		4.42
<i>For Work In Restricted Working Space, Add</i>	3.32	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.32	
26 05 33 13-1945 EA 1" Liquid Tight Non-Metallic 45 Degree Angle Connector .....24.04		5.17
<i>For Work In Restricted Working Space, Add</i>	3.88	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.88	
26 05 33 13-1946 EA 1-1/4" Liquid Tight Non-Metallic 45 Degree Angle Connector .....24.89		5.54
<i>For Work In Restricted Working Space, Add</i>	4.15	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.15	
26 05 33 13-1947 EA 1-1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector .....38.47		5.91
<i>For Work In Restricted Working Space, Add</i>	4.43	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.43	
26 05 33 13-1948 EA 2" Liquid Tight Non-Metallic 45 Degree Angle Connector .....51.30		6.64
<i>For Work In Restricted Working Space, Add</i>	4.98	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.98	
26 05 33 13-1949 Blue ENT Electrical Non-Metallic Tubing (26 05 33 13-1768)		
Note: Carlton - FLEX-PLUS.		
26 05 33 13-1950 Blue ENT Electrical Non-Metallic Tubing (26 05 33 13-1949)		
26 05 33 13-1951 LF 1/2" Blue ENT Electrical Non-Metallic Tubing .....4.02		1.21
<i>For Work In Restricted Working Space, Add</i>	0.91	
26 05 33 13-1952 LF 3/4" Blue ENT Electrical Non-Metallic Tubing .....5.42		1.61
<i>For Work In Restricted Working Space, Add</i>	1.21	
26 05 33 13-1953 LF 1" Blue ENT Electrical Non-Metallic Tubing .....6.27		1.61
<i>For Work In Restricted Working Space, Add</i>	1.21	
26 05 33 13-1954 Terminal Adapter (26 05 33 13-1949)		
26 05 33 13-1955 EA 1/2" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing .....9.71		3.23
<i>For Work In Restricted Working Space, Add</i>	2.42	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.42	
26 05 33 13-1956 EA 3/4" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing .....12.06		3.64
<i>For Work In Restricted Working Space, Add</i>	2.72	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.72	
26 05 33 13-1957 EA 1" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing .....13.93		4.04
<i>For Work In Restricted Working Space, Add</i>	3.03	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.03	
26 05 33 13-1958 Coupling (26 05 33 13-1949)		
26 05 33 13-1959 EA 1/2" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing .....9.50		3.23
<i>For Work In Restricted Working Space, Add</i>	2.42	
26 05 33 13-1960 EA 3/4" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing .....10.92		3.64
<i>For Work In Restricted Working Space, Add</i>	2.72	
26 05 33 13-1961 EA 1" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing .....12.86		4.04
<i>For Work In Restricted Working Space, Add</i>	3.03	
26 05 33 13-1962 Conduit Installed Below Grade (26 05 33 13-0057)		
Note: By direct burial in trench or in concrete slabs or duct banks. Includes warning tape for underground conduits. Excludes trenching, backfilling and concrete.		
26 05 33 13-1963 Schedule 40 Polyvinyl Chloride (PVC) Conduit, Direct Burial (26 05 33 13-1962)		
26 05 33 13-1964 Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial (26 05 33 13-1963)		
Note: Includes field bend conduit up to 1".		
26 05 33 13-1965 LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial .....3.44		
<i>For Schedule 60, Add</i>	0.30	
<i>For Schedule 80, Add</i>	0.50	
26 05 33 13-1966 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial .....3.87		
<i>For Schedule 60, Add</i>	0.36	
<i>For Schedule 80, Add</i>	0.60	
26 05 33 13-1967 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial .....4.50		
<i>For Schedule 60, Add</i>	0.48	
<i>For Schedule 80, Add</i>	0.76	
26 05 33 13-1968 LF 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial .....5.14		
<i>For Schedule 60, Add</i>	0.59	
<i>For Schedule 80, Add</i>	0.93	
26 05 33 13-1969 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial .....5.68		
<i>For Schedule 60, Add</i>	0.68	
<i>For Schedule 80, Add</i>	1.07	
26 05 33 13-1970 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial .....6.54		
<i>For Schedule 60, Add</i>	0.86	
<i>For Schedule 80, Add</i>	1.31	
26 05 33 13-1971 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial .....8.32		
<i>For Schedule 60, Add</i>	1.26	
<i>For Schedule 80, Add</i>	1.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1972 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	9.34	
<i>For Schedule 60, Add</i>	1.47	
<i>For Schedule 80, Add</i>	2.19	
26 05 33 13-1973 LF 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	10.95	
<i>For Schedule 60, Add</i>	1.83	
<i>For Schedule 80, Add</i>	2.70	
26 05 33 13-1974 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	11.80	
<i>For Schedule 60, Add</i>	2.00	
<i>For Schedule 80, Add</i>	2.94	
26 05 33 13-1975 LF 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	15.25	
<i>For Schedule 60, Add</i>	2.82	
<i>For Schedule 80, Add</i>	4.09	
26 05 33 13-1976 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	18.75	
<i>For Schedule 60, Add</i>	3.65	
<i>For Schedule 80, Add</i>	5.27	
 26 05 33 13-1977 Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows, Direct Burial		
<small>(26 05 33 13-1963)</small>		
See CSI section 26 05 33 13-2423 for conduit field bending.		
26 05 33 13-1978 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	22.69	
<i>For Schedule 60, Add</i>	1.34	
<i>For Schedule 80, Add</i>	2.53	
26 05 33 13-1979 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	27.24	
<i>For Schedule 60, Add</i>	1.61	
<i>For Schedule 80, Add</i>	3.04	
26 05 33 13-1980 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	32.28	
<i>For Schedule 60, Add</i>	2.01	
<i>For Schedule 80, Add</i>	3.72	
26 05 33 13-1981 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	37.49	
<i>For Schedule 60, Add</i>	2.44	
<i>For Schedule 80, Add</i>	4.46	
26 05 33 13-1982 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	42.84	
<i>For Schedule 60, Add</i>	2.92	
<i>For Schedule 80, Add</i>	5.25	
26 05 33 13-1983 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	48.64	
<i>For Schedule 60, Add</i>	3.50	
<i>For Schedule 80, Add</i>	6.20	
26 05 33 13-1984 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	57.09	
<i>For Schedule 60, Add</i>	4.75	
<i>For Schedule 80, Add</i>	8.07	
26 05 33 13-1985 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	67.44	
<i>For Schedule 60, Add</i>	6.47	
<i>For Schedule 80, Add</i>	10.61	
26 05 33 13-1986 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	82.16	
<i>For Schedule 60, Add</i>	8.42	
<i>For Schedule 80, Add</i>	13.60	
26 05 33 13-1987 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	96.98	
<i>For Schedule 60, Add</i>	10.39	
<i>For Schedule 80, Add</i>	16.63	
26 05 33 13-1988 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	126.74	
<i>For Schedule 60, Add</i>	16.10	
<i>For Schedule 80, Add</i>	24.87	
26 05 33 13-1989 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	148.82	
<i>For Schedule 60, Add</i>	19.89	
<i>For Schedule 80, Add</i>	30.44	
 26 05 33 13-1990 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows, Direct Burial		
<small>(26 05 33 13-1963)</small>		
See CSI section 26 05 33 13-2423 for conduit field bending.		
26 05 33 13-1991 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	22.69	
<i>For Schedule 60, Add</i>	1.34	
<i>For Schedule 80, Add</i>	2.53	
26 05 33 13-1992 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	27.16	
<i>For Schedule 60, Add</i>	1.59	
<i>For Schedule 80, Add</i>	3.01	
26 05 33 13-1993 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	32.18	
<i>For Schedule 60, Add</i>	1.98	
<i>For Schedule 80, Add</i>	3.69	
26 05 33 13-1994 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	37.18	
<i>For Schedule 60, Add</i>	2.37	
<i>For Schedule 80, Add</i>	4.35	
26 05 33 13-1995 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	42.15	
<i>For Schedule 60, Add</i>	2.74	
<i>For Schedule 80, Add</i>	5.01	
26 05 33 13-1996 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	48.27	
<i>For Schedule 60, Add</i>	3.41	
<i>For Schedule 80, Add</i>	6.07	
26 05 33 13-1997 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	56.40	
<i>For Schedule 60, Add</i>	4.57	
<i>For Schedule 80, Add</i>	7.83	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1998 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial.....	66.57	
For Schedule 60, Add	6.25	
For Schedule 80, Add	10.31	
26 05 33 13-1999 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	79.70	
For Schedule 60, Add	7.80	
For Schedule 80, Add	12.74	
26 05 33 13-2000 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial.....	94.87	
For Schedule 60, Add	9.86	
For Schedule 80, Add	15.89	
26 05 33 13-2001 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial.....	124.01	
For Schedule 60, Add	15.41	
For Schedule 80, Add	23.92	
26 05 33 13-2002 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial.....	140.68	
For Schedule 60, Add	17.85	
For Schedule 80, Add	27.59	
26 05 33 13-2003 Polyvinyl Chloride (PVC) Conduit Female Adapters, Direct Burial <small>(26 05 33 13-1963)</small>		
26 05 33 13-2004 EA 1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	12.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.64	
26 05 33 13-2005 EA 3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	14.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.16	
26 05 33 13-2006 EA 1" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	16.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.68	
26 05 33 13-2007 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	18.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.20	
26 05 33 13-2008 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	20.41	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.72	
26 05 33 13-2009 EA 2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	22.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 05 33 13-2010 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	26.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.01	
26 05 33 13-2011 EA 3" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	30.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 05 33 13-2012 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	36.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.09	
26 05 33 13-2013 EA 4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	41.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.39	
26 05 33 13-2014 EA 5" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	51.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.69	
26 05 33 13-2015 EA 6" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	58.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.99	
26 05 33 13-2016 Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug, Direct Burial <small>(26 05 33 13-1963)</small>		
26 05 33 13-2017 EA 1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	14.36	
26 05 33 13-2018 EA 3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	16.38	
26 05 33 13-2019 EA 1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	18.41	
26 05 33 13-2020 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	23.57	
26 05 33 13-2021 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	26.07	
26 05 33 13-2022 EA 2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	29.14	
26 05 33 13-2023 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	32.62	
26 05 33 13-2024 EA 3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	36.97	
26 05 33 13-2025 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	43.76	
26 05 33 13-2026 EA 4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	48.37	
26 05 33 13-2027 EA 5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	60.68	
26 05 33 13-2028 EA 6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	68.19	
26 05 33 13-2029 Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial <small>(26 05 33 13-1963)</small>		
26 05 33 13-2030 EA 1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial	12.53	
26 05 33 13-2031 EA 3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial	14.52	
26 05 33 13-2032 EA 1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial	16.39	
26 05 33 13-2033 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial	18.37	
26 05 33 13-2034 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	20.24	
26 05 33 13-2035 EA 2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	22.48	
26 05 33 13-2036 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	26.48	
26 05 33 13-2037 EA 3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	30.19	
26 05 33 13-2038 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	35.65	
26 05 33 13-2039 EA 4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	40.23	
26 05 33 13-2040 EA 5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	50.29	
26 05 33 13-2041 EA 6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	56.97	
26 05 33 13-2042 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial <small>(26 05 33 13-1962)</small>		
Note: 40 mil Polyvinyl Chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney).		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2043 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial <small>(26 05 33 13-2042)</small>		
<i>Note: Includes field bending for conduit up to 1".</i>		
26 05 33 13-2044 LF 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	10.69	1.94
<i>For >250 To 500, Deduct</i>	-0.41	
<i>For >500 To 1,000, Deduct</i>	-0.67	
<i>For >1,000, Deduct</i>	-0.94	
26 05 33 13-2045 LF 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	12.04	2.40
<i>For >250 To 500, Deduct</i>	-0.46	
<i>For >500 To 1,000, Deduct</i>	-0.76	
<i>For >1,000, Deduct</i>	-1.07	
26 05 33 13-2046 LF 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	14.87	2.68
<i>For >250 To 500, Deduct</i>	-0.58	
<i>For >500 To 1,000, Deduct</i>	-0.95	
<i>For >1,000, Deduct</i>	-1.33	
26 05 33 13-2047 LF 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	18.05	3.60
<i>For >250 To 500, Deduct</i>	-0.72	
<i>For >500 To 1,000, Deduct</i>	-1.17	
<i>For >1,000, Deduct</i>	-1.62	
26 05 33 13-2048 LF 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	21.28	4.06
<i>For >250 To 500, Deduct</i>	-0.86	
<i>For >500 To 1,000, Deduct</i>	-1.39	
<i>For >1,000, Deduct</i>	-1.92	
26 05 33 13-2049 LF 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	27.05	4.42
<i>For >250 To 500, Deduct</i>	-1.10	
<i>For >500 To 1,000, Deduct</i>	-1.78	
<i>For >1,000, Deduct</i>	-2.45	
26 05 33 13-2050 LF 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	39.45	6.64
<i>For >250 To 500, Deduct</i>	-1.63	
<i>For >500 To 1,000, Deduct</i>	-2.61	
<i>For >1,000, Deduct</i>	-3.60	
26 05 33 13-2051 LF 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	50.76	8.31
<i>For >250 To 500, Deduct</i>	-2.08	
<i>For >500 To 1,000, Deduct</i>	-3.35	
<i>For >1,000, Deduct</i>	-4.61	
26 05 33 13-2052 LF 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	62.59	8.77
<i>For >250 To 500, Deduct</i>	-2.55	
<i>For >500 To 1,000, Deduct</i>	-4.12	
<i>For >1,000, Deduct</i>	-5.68	
26 05 33 13-2053 LF 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	74.27	9.69
<i>For >250 To 500, Deduct</i>	-3.02	
<i>For >500 To 1,000, Deduct</i>	-4.88	
<i>For >1,000, Deduct</i>	-6.74	
26 05 33 13-2054 LF 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	117.64	13.38
<i>For >250 To 500, Deduct</i>	-5.01	
<i>For >500 To 1,000, Deduct</i>	-7.95	
<i>For >1,000, Deduct</i>	-10.89	
26 05 33 13-2055 LF 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	157.44	17.52
<i>For >250 To 500, Deduct</i>	-6.77	
<i>For >500 To 1,000, Deduct</i>	-10.70	
<i>For >1,000, Deduct</i>	-14.64	
26 05 33 13-2056 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings, Direct Burial <small>(26 05 33 13-2042)</small>		
26 05 33 13-2057 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	11.46	2.77
26 05 33 13-2058 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	13.59	3.69
26 05 33 13-2059 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	17.28	4.61
26 05 33 13-2060 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	19.55	5.08
26 05 33 13-2061 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	23.17	6.00
26 05 33 13-2062 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	30.19	6.92
26 05 33 13-2063 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	57.06	8.31
26 05 33 13-2064 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	72.20	11.54
26 05 33 13-2065 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	89.79	13.38
26 05 33 13-2066 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	110.61	18.45
26 05 33 13-2067 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	290.91	25.37
26 05 33 13-2068 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	296.90	14.29
26 05 33 13-2069 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbows, Direct Burial <small>(26 05 33 13-2042)</small>		
<i>Note: 90, 45, or 30 degree.</i>		
26 05 33 13-2070 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	43.82	11.54
26 05 33 13-2071 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	50.15	14.29
26 05 33 13-2072 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	59.77	17.52
26 05 33 13-2073 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	70.95	20.29
26 05 33 13-2074 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	83.44	23.06

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2075 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	102.82	25.37
26 05 33 13-2076 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	161.78	31.83
26 05 33 13-2077 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	243.52	43.35
26 05 33 13-2078 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	303.54	48.89
26 05 33 13-2079 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	344.81	63.65
26 05 33 13-2080 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	731.71	103.78
26 05 33 13-2081 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	1,154.32	155.90
26 05 33 13-2082 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2042)</small>		
26 05 33 13-2083 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial	108.70	17.52
26 05 33 13-2084 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial	122.03	20.29
26 05 33 13-2085 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial	139.36	23.06
26 05 33 13-2086 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial	167.35	25.37
26 05 33 13-2087 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial	234.82	31.83
26 05 33 13-2088 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2042)</small>		
26 05 33 13-2089 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial	121.93	17.52
26 05 33 13-2090 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial	143.89	20.29
26 05 33 13-2091 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial	155.04	23.06
26 05 33 13-2092 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial	201.53	25.37
26 05 33 13-2093 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial	267.78	31.83
26 05 33 13-2094 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial	341.27	43.35
26 05 33 13-2095 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2042)</small>		
26 05 33 13-2096 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial	137.75	17.52
26 05 33 13-2097 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial	155.28	20.29
26 05 33 13-2098 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial	175.15	23.06
26 05 33 13-2099 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial	212.87	25.37
26 05 33 13-2100 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial	305.65	31.83
26 05 33 13-2101 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial	385.74	43.35
26 05 33 13-2102 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial	489.77	48.89
26 05 33 13-2103 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial	547.69	63.65
26 05 33 13-2104 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2042)</small>		
26 05 33 13-2105 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	165.07	17.52
26 05 33 13-2106 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	182.00	20.29
26 05 33 13-2107 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	205.50	23.06
26 05 33 13-2108 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	256.56	25.37
26 05 33 13-2109 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	373.44	31.83
26 05 33 13-2110 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	461.08	43.35
26 05 33 13-2111 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	535.77	48.89



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2112 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	632.14	63.65
26 05 33 13-2113 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2042)</small>		
26 05 33 13-2114 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	186.34	17.52
26 05 33 13-2115 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	206.89	20.29
26 05 33 13-2116 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	235.37	23.06
26 05 33 13-2117 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	294.60	25.37
26 05 33 13-2118 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	410.43	31.83
26 05 33 13-2119 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	521.34	43.35
26 05 33 13-2120 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	647.61	48.89
26 05 33 13-2121 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	709.66	63.65
26 05 33 13-2122 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	1,184.27	103.78
26 05 33 13-2123 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2042)</small>		
26 05 33 13-2124 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	214.14	17.52
26 05 33 13-2125 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	236.94	20.29
26 05 33 13-2126 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	268.11	23.06
26 05 33 13-2127 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	336.79	25.37
26 05 33 13-2128 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	472.06	31.83
26 05 33 13-2129 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	598.12	43.35
26 05 33 13-2130 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	703.65	48.89
26 05 33 13-2131 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	809.74	63.65
26 05 33 13-2132 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	1,254.41	103.78
26 05 33 13-2133 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	1,708.52	155.90
26 05 33 13-2134 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2042)</small>		
26 05 33 13-2135 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	252.85	17.52
26 05 33 13-2136 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	263.75	20.29
26 05 33 13-2137 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	311.93	23.06
26 05 33 13-2138 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	395.52	25.37
26 05 33 13-2139 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	555.16	31.83
26 05 33 13-2140 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	701.62	43.35
26 05 33 13-2141 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	859.46	48.89
26 05 33 13-2142 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	1,004.42	63.65
26 05 33 13-2143 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	1,483.18	103.78
26 05 33 13-2144 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	1,813.53	155.90
26 05 33 13-2145 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2042)</small>		
26 05 33 13-2146 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	262.18	17.52
26 05 33 13-2147 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	309.08	20.29
26 05 33 13-2148 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	349.82	23.06

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2149 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	413.19	25.37
26 05 33 13-2150 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	575.92	31.83
26 05 33 13-2151 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	733.45	43.35
26 05 33 13-2152 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	944.32	48.89
26 05 33 13-2153 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	1,048.58	63.65
26 05 33 13-2154 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	1,544.64	103.78
26 05 33 13-2155 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	1,866.89	155.90
26 05 33 13-2156 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions, Direct Burial <small>(26 05 33 13-2042)</small>		
26 05 33 13-2157 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	84.93	11.54
26 05 33 13-2158 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	91.59	14.29
26 05 33 13-2159 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	119.51	17.52
26 05 33 13-2160 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	176.49	20.29
26 05 33 13-2161 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	210.05	23.06
26 05 33 13-2162 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	269.20	25.37
26 05 33 13-2163 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	359.42	31.83
26 05 33 13-2164 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	471.41	31.83
26 05 33 13-2165 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	603.58	48.89
26 05 33 13-2166 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	776.75	63.65
26 05 33 13-2167 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	1,421.46	103.78
26 05 33 13-2168 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	1,757.54	155.90
26 05 33 13-2169 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions, Direct Burial <small>(26 05 33 13-2042)</small>		
26 05 33 13-2170 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	87.01	11.54
26 05 33 13-2171 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	99.55	14.29
26 05 33 13-2172 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	123.75	17.52
26 05 33 13-2173 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	184.28	20.29
26 05 33 13-2174 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	220.86	23.06
26 05 33 13-2175 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	292.54	25.37
26 05 33 13-2176 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	409.37	31.83
26 05 33 13-2177 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	522.20	31.83
26 05 33 13-2178 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	695.41	48.89
26 05 33 13-2179 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	868.25	63.65
26 05 33 13-2180 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	1,589.18	103.78
26 05 33 13-2181 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	2,028.35	155.90
26 05 33 13-2182 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples, Direct Burial <small>(26 05 33 13-2042)</small>		
26 05 33 13-2183 EA 1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	28.62	5.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.32	
26 05 33 13-2184 EA 3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	31.71	6.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.15	
26 05 33 13-2185 EA 1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	36.38	8.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2186 EA 1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	43.49	10.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.09	
26 05 33 13-2187 EA 1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	47.03	11.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.92	
26 05 33 13-2188 EA 1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	31.80	6.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.60	
26 05 33 13-2189 EA 3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	34.11	6.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.15	
26 05 33 13-2190 EA 1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	38.81	8.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.26	
26 05 33 13-2191 EA 1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	46.06	10.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.09	
26 05 33 13-2192 EA 1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	49.79	11.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.92	
26 05 33 13-2193 EA 2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	53.76	12.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.75	
26 05 33 13-2194 EA 1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	31.96	6.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.60	
26 05 33 13-2195 EA 3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	34.28	6.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.15	
26 05 33 13-2196 EA 1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	39.12	8.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.26	
26 05 33 13-2197 EA 1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	46.39	10.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.09	
26 05 33 13-2198 EA 1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	50.12	11.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.92	
26 05 33 13-2199 EA 2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	54.62	12.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.75	
26 05 33 13-2200 EA 1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	34.23	6.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.60	
26 05 33 13-2201 EA 3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	36.55	6.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.15	
26 05 33 13-2202 EA 1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	41.56	8.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.26	
26 05 33 13-2203 EA 1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	47.78	10.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.09	
26 05 33 13-2204 EA 1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	51.66	11.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.92	
26 05 33 13-2205 EA 2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	57.30	12.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.75	
26 05 33 13-2206 EA 2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	81.32	15.68
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.41	
26 05 33 13-2207 EA 3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	104.47	21.68
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.01	
26 05 33 13-2208 EA 1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	34.40	6.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.60	
26 05 33 13-2209 EA 3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	36.87	6.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.15	
26 05 33 13-2210 EA 1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	41.90	8.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.26	
26 05 33 13-2211 EA 1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	49.17	10.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.09	
26 05 33 13-2212 EA 1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	53.19	11.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.92	
26 05 33 13-2213 EA 2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	59.99	12.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.75	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2214	EA	2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	83.70	15.68
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.41	
26 05 33 13-2215	EA	3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	109.58	21.68
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.01	
26 05 33 13-2216	EA	3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	131.49	24.44
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.67	
26 05 33 13-2217	EA	4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	152.02	31.83
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.09	
26 05 33 13-2218	EA	1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	34.71	6.00
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.60	
26 05 33 13-2219	EA	3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	37.20	6.92
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.15	
26 05 33 13-2220	EA	1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	42.26	8.77
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.26	
26 05 33 13-2221	EA	1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	49.82	10.15
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.09	
26 05 33 13-2222	EA	1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	53.86	11.54
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.92	
26 05 33 13-2223	EA	2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	61.45	12.92
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.75	
26 05 33 13-2224	EA	2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	93.14	15.68
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.41	
26 05 33 13-2225	EA	3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	117.23	21.68
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.01	
26 05 33 13-2226	EA	3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	133.12	24.44
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.67	
26 05 33 13-2227	EA	4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	156.38	31.83
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.09	
26 05 33 13-2228	EA	5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	231.88	43.81
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.29	
26 05 33 13-2229	EA	1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	35.31	6.00
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.60	
26 05 33 13-2230	EA	3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	37.80	6.92
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.15	
26 05 33 13-2231	EA	1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	42.90	8.77
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.26	
26 05 33 13-2232	EA	1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	51.02	10.15
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.09	
26 05 33 13-2233	EA	1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	55.30	11.54
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.92	
26 05 33 13-2234	EA	2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	62.91	12.92
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.75	
26 05 33 13-2235	EA	2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	102.73	15.68
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.41	
26 05 33 13-2236	EA	3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	127.39	21.68
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.01	
26 05 33 13-2237	EA	3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	142.28	24.44
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.67	
26 05 33 13-2238	EA	4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	171.82	31.83
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.09	
26 05 33 13-2239	EA	5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	254.97	43.81
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.29	
26 05 33 13-2240	EA	1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	36.25	6.00
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.60	
26 05 33 13-2241	EA	3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	38.71	6.92
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2242 EA 1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	44.34	8.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.26	
26 05 33 13-2243 EA 1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	51.33	10.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.09	
26 05 33 13-2244 EA 1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	58.22	11.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.92	
26 05 33 13-2245 EA 2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	70.06	12.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.75	
26 05 33 13-2246 EA 2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	114.52	15.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.41	
26 05 33 13-2247 EA 3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	141.29	21.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.01	
26 05 33 13-2248 EA 3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	165.19	24.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.67	
26 05 33 13-2249 EA 4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	195.00	31.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.09	
26 05 33 13-2250 EA 5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	270.79	43.81
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.29	
26 05 33 13-2251 EA 1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	37.23	6.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.60	
26 05 33 13-2252 EA 3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	39.67	6.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.15	
26 05 33 13-2253 EA 1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	45.76	8.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.26	
26 05 33 13-2254 EA 1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	55.65	10.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.09	
26 05 33 13-2255 EA 1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	65.18	11.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.92	
26 05 33 13-2256 EA 2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	80.55	12.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.75	
26 05 33 13-2257 EA 2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	126.99	15.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.41	
26 05 33 13-2258 EA 3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	159.10	21.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.01	
26 05 33 13-2259 EA 3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	189.26	24.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.67	
26 05 33 13-2260 EA 4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	235.56	31.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.09	
26 05 33 13-2261 EA 5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	302.36	43.81
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.29	
26 05 33 13-2262 EA 1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	38.24	6.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.60	
26 05 33 13-2263 EA 3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	40.80	6.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.15	
26 05 33 13-2264 EA 1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	49.35	8.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.26	
26 05 33 13-2265 EA 1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	62.74	10.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.09	
26 05 33 13-2266 EA 1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	73.59	11.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.92	
26 05 33 13-2267 EA 2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	88.99	12.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.75	
26 05 33 13-2268 EA 2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	143.62	15.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.41	
26 05 33 13-2269 EA 3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	185.81	21.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.01	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2270	EA	3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	204.03	24.44
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.67	
26 05 33	13-2271	EA	4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	248.00	31.83
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.09	
26 05 33	13-2272	EA	5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	306.86	43.81
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.29	
26 05 33	13-2273		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit <small>(26 05 33 13-1962)</small> Note: Direct burial or encased application.		
26 05 33	13-2274		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit <small>(26 05 33 13-2273)</small>		
26 05 33	13-2275	LF	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	5.50	1.12
			<i>For Work In Restricted Working Space, Add</i>	0.85	
26 05 33	13-2276	LF	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	6.05	1.21
			<i>For Work In Restricted Working Space, Add</i>	0.91	
26 05 33	13-2277	LF	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	6.44	1.30
			<i>For Work In Restricted Working Space, Add</i>	0.98	
26 05 33	13-2278	LF	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	6.84	1.38
			<i>For Work In Restricted Working Space, Add</i>	1.04	
26 05 33	13-2279	LF	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	7.32	1.47
			<i>For Work In Restricted Working Space, Add</i>	1.10	
26 05 33	13-2280	LF	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	7.64	1.56
			<i>For Work In Restricted Working Space, Add</i>	1.17	
26 05 33	13-2281	LF	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	8.59	1.64
			<i>For Work In Restricted Working Space, Add</i>	1.23	
26 05 33	13-2282	LF	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	9.70	1.73
			<i>For Work In Restricted Working Space, Add</i>	1.30	
26 05 33	13-2283	LF	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	10.59	1.81
			<i>For Work In Restricted Working Space, Add</i>	1.37	
26 05 33	13-2284	LF	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	11.47	1.90
			<i>For Work In Restricted Working Space, Add</i>	1.43	
26 05 33	13-2285	LF	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	13.37	1.99
			<i>For Work In Restricted Working Space, Add</i>	1.49	
26 05 33	13-2286	LF	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	15.68	2.07
			<i>For Work In Restricted Working Space, Add</i>	1.56	
26 05 33	13-2287		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-2273)</small>		
26 05 33	13-2288	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	71.20	8.66
			<i>For Work In Restricted Working Space, Add</i>	6.49	
			<i>For 24" Radius, Add</i>	4.80	
			<i>For 36" Radius, Add</i>	7.12	
			<i>For 48" Radius, Add</i>	9.44	
26 05 33	13-2289	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	81.47	10.39
			<i>For Work In Restricted Working Space, Add</i>	7.79	
			<i>For 24" Radius, Add</i>	5.46	
			<i>For 36" Radius, Add</i>	8.15	
			<i>For 48" Radius, Add</i>	10.83	
26 05 33	13-2290	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	86.36	12.13
			<i>For Work In Restricted Working Space, Add</i>	9.09	
			<i>For 24" Radius, Add</i>	5.72	
			<i>For 36" Radius, Add</i>	8.64	
			<i>For 48" Radius, Add</i>	11.55	
26 05 33	13-2291	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	91.24	13.86
			<i>For Work In Restricted Working Space, Add</i>	10.39	
			<i>For 24" Radius, Add</i>	5.98	
			<i>For 36" Radius, Add</i>	9.12	
			<i>For 48" Radius, Add</i>	12.27	
26 05 33	13-2292	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	96.13	15.59
			<i>For Work In Restricted Working Space, Add</i>	11.69	
			<i>For 24" Radius, Add</i>	6.24	
			<i>For 36" Radius, Add</i>	9.61	
			<i>For 48" Radius, Add</i>	12.99	
26 05 33	13-2293	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	108.34	17.32
			<i>For Work In Restricted Working Space, Add</i>	12.99	
			<i>For 24" Radius, Add</i>	7.04	
			<i>For 36" Radius, Add</i>	10.83	
			<i>For 48" Radius, Add</i>	14.63	
26 05 33	13-2294	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	125.48	19.05
			<i>For Work In Restricted Working Space, Add</i>	14.29	
			<i>For 24" Radius, Add</i>	8.22	
			<i>For 36" Radius, Add</i>	12.55	
			<i>For 48" Radius, Add</i>	16.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2295 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial .....145.38	145.38	20.78
For Work In Restricted Working Space, Add	15.59	
For 24" Radius, Add	9.60	
For 36" Radius, Add	14.54	
For 48" Radius, Add	19.47	
26 05 33 13-2296 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....165.72	165.72	24.25
For Work In Restricted Working Space, Add	18.19	
For 24" Radius, Add	10.91	
For 36" Radius, Add	16.57	
For 48" Radius, Add	22.23	
26 05 33 13-2297 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial .....186.05	186.05	31.17
For Work In Restricted Working Space, Add	20.78	
For 24" Radius, Add	12.22	
For 36" Radius, Add	18.61	
For 48" Radius, Add	24.99	
26 05 33 13-2298 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial .....223.91	223.91	31.17
For Work In Restricted Working Space, Add	23.38	
For 24" Radius, Add	14.84	
For 36" Radius, Add	22.39	
For 48" Radius, Add	29.94	
26 05 33 13-2299 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial .....269.07	269.07	34.64
For Work In Restricted Working Space, Add	25.98	
For 24" Radius, Add	18.02	
For 36" Radius, Add	26.91	
For 48" Radius, Add	35.80	
26 05 33 13-2300 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings (26 05 33 13-2273)		
26 05 33 13-2301 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....32.65	32.65	4.85
For Work In Restricted Working Space, Add	3.64	
26 05 33 13-2302 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....36.73	36.73	5.54
For Work In Restricted Working Space, Add	4.16	
26 05 33 13-2303 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....38.69	38.69	6.23
For Work In Restricted Working Space, Add	4.68	
26 05 33 13-2304 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....40.62	40.62	6.92
For Work In Restricted Working Space, Add	5.20	
26 05 33 13-2305 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....42.81	42.81	7.62
For Work In Restricted Working Space, Add	5.72	
26 05 33 13-2306 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....49.08	49.08	8.32
For Work In Restricted Working Space, Add	6.23	
26 05 33 13-2307 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....57.44	57.44	9.35
For Work In Restricted Working Space, Add	7.01	
26 05 33 13-2308 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....66.85	66.85	10.39
For Work In Restricted Working Space, Add	7.79	
26 05 33 13-2309 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....76.29	76.29	12.13
For Work In Restricted Working Space, Add	9.09	
26 05 33 13-2310 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....85.73	85.73	13.86
For Work In Restricted Working Space, Add	10.39	
26 05 33 13-2311 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....102.83	102.83	15.59
For Work In Restricted Working Space, Add	11.69	
26 05 33 13-2312 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....123.10	123.10	17.32
For Work In Restricted Working Space, Add	12.99	
26 05 33 13-2313 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings (26 05 33 13-2273)		
26 05 33 13-2314 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....23.71	23.71	4.85
For Work In Restricted Working Space, Add	3.64	
26 05 33 13-2315 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....26.72	26.72	5.54
For Work In Restricted Working Space, Add	4.16	
26 05 33 13-2316 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....28.59	28.59	6.23
For Work In Restricted Working Space, Add	4.68	
26 05 33 13-2317 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....30.46	30.46	6.92
For Work In Restricted Working Space, Add	5.20	
26 05 33 13-2318 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....32.32	32.32	7.62
For Work In Restricted Working Space, Add	5.72	
26 05 33 13-2319 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....34.13	34.13	8.32
For Work In Restricted Working Space, Add	6.23	
26 05 33 13-2320 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....39.40	39.40	9.35
For Work In Restricted Working Space, Add	7.01	
26 05 33 13-2321 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....45.21	45.21	10.39
For Work In Restricted Working Space, Add	7.79	
26 05 33 13-2322 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....51.94	51.94	12.13
For Work In Restricted Working Space, Add	9.09	



MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2323	EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	58.68	13.86
	<i>For Work In Restricted Working Space, Add</i>	10.39	
26 05 33 13-2324	EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	69.04	15.59
	<i>For Work In Restricted Working Space, Add</i>	11.69	
26 05 33 13-2325	EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	80.86	17.32
	<i>For Work In Restricted Working Space, Add</i>	12.99	

26 05 33 13-2326 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings ^(26 05 33 13-2273)

26 05 33 13-2327	EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial	21.31	2.78
	<i>For Work In Restricted Working Space, Add</i>	2.08	
26 05 33 13-2328	EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial	23.80	3.12
	<i>For Work In Restricted Working Space, Add</i>	2.34	
26 05 33 13-2329	EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial	24.83	3.47
	<i>For Work In Restricted Working Space, Add</i>	2.60	
26 05 33 13-2330	EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial	25.80	3.81
	<i>For Work In Restricted Working Space, Add</i>	2.86	
26 05 33 13-2331	EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial	27.03	4.16
	<i>For Work In Restricted Working Space, Add</i>	3.12	
26 05 33 13-2332	EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial	31.94	4.85
	<i>For Work In Restricted Working Space, Add</i>	3.64	
26 05 33 13-2333	EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial	38.48	5.89
	<i>For Work In Restricted Working Space, Add</i>	4.42	
26 05 33 13-2334	EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial	45.83	6.92
	<i>For Work In Restricted Working Space, Add</i>	5.20	
26 05 33 13-2335	EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial	53.71	8.66
	<i>For Work In Restricted Working Space, Add</i>	6.49	
26 05 33 13-2336	EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial	61.62	10.39
	<i>For Work In Restricted Working Space, Add</i>	7.79	
26 05 33 13-2337	EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial	74.84	12.13
	<i>For Work In Restricted Working Space, Add</i>	9.09	
26 05 33 13-2338	EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial	90.32	13.86
	<i>For Work In Restricted Working Space, Add</i>	10.39	

26 05 33 13-2339 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints ^(26 05 33 13-2273)

26 05 33 13-2340	EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial	59.16	17.32
	<i>For Work In Restricted Working Space, Add</i>	12.99	
26 05 33 13-2341	EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial	69.55	20.78
	<i>For Work In Restricted Working Space, Add</i>	15.59	
26 05 33 13-2342	EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial	78.41	24.25
	<i>For Work In Restricted Working Space, Add</i>	18.19	
26 05 33 13-2343	EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	87.18	27.71
	<i>For Work In Restricted Working Space, Add</i>	20.78	
26 05 33 13-2344	EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	91.91	29.44
	<i>For Work In Restricted Working Space, Add</i>	22.08	
26 05 33 13-2345	EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	99.74	31.17
	<i>For Work In Restricted Working Space, Add</i>	23.38	
26 05 33 13-2346	EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	108.43	32.91
	<i>For Work In Restricted Working Space, Add</i>	24.68	
26 05 33 13-2347	EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	117.99	34.64
	<i>For Work In Restricted Working Space, Add</i>	25.98	
26 05 33 13-2348	EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	126.25	36.38
	<i>For Work In Restricted Working Space, Add</i>	27.28	
26 05 33 13-2349	EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	134.50	38.10
	<i>For Work In Restricted Working Space, Add</i>	28.58	
26 05 33 13-2350	EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	148.64	39.83
	<i>For Work In Restricted Working Space, Add</i>	29.88	
26 05 33 13-2351	EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	165.23	41.57
	<i>For Work In Restricted Working Space, Add</i>	31.18	

26 05 33 13-2352 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints ^(26 05 33 13-2273)

26 05 33 13-2353	EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	65.60	17.32
	<i>For Work In Restricted Working Space, Add</i>	12.99	
26 05 33 13-2354	EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	76.78	20.78
	<i>For Work In Restricted Working Space, Add</i>	15.59	
26 05 33 13-2355	EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	85.67	24.25
	<i>For Work In Restricted Working Space, Add</i>	18.19	
26 05 33 13-2356	EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	94.51	27.71
	<i>For Work In Restricted Working Space, Add</i>	20.78	
26 05 33 13-2357	EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	99.31	29.44
	<i>For Work In Restricted Working Space, Add</i>	22.08	
26 05 33 13-2358	EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	108.19	31.17
	<i>For Work In Restricted Working Space, Add</i>	23.38	
26 05 33 13-2359	EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	118.57	32.91
	<i>For Work In Restricted Working Space, Add</i>	24.68	
26 05 33 13-2360	EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	130.16	34.64
	<i>For Work In Restricted Working Space, Add</i>	25.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2361 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	139.94 27.28	36.38
26 05 33 13-2362 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	149.72 28.58	38.10
26 05 33 13-2363 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	167.71 29.88	39.83
26 05 33 13-2364 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	189.07 31.18	41.57
26 05 33 13-2365 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters <small>(26 05 33 13-2273)</small>		
26 05 33 13-2366 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	65.16 3.64	4.85
26 05 33 13-2367 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	72.77 4.16	5.54
26 05 33 13-2368 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	76.31 4.68	6.23
26 05 33 13-2369 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	79.93 5.20	6.92
26 05 33 13-2370 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	82.64 5.72	7.62
26 05 33 13-2371 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	90.42 6.23	8.32
26 05 33 13-2372 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	106.96 7.01	9.35
26 05 33 13-2373 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	126.21 7.79	10.39
26 05 33 13-2374 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	143.08 9.09	12.13
26 05 33 13-2375 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	159.94 10.39	13.86
26 05 33 13-2376 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	195.65 11.69	15.59
26 05 33 13-2377 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	237.93 12.99	17.32
26 05 33 13-2378 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints <small>(26 05 33 13-2273)</small>		
26 05 33 13-2379 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	76.80 12.99	17.32
26 05 33 13-2380 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	89.19 15.59	20.78
26 05 33 13-2381 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	106.61 18.19	24.25
26 05 33 13-2382 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	131.28 20.78	27.71
26 05 33 13-2383 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	158.61 22.08	29.44
26 05 33 13-2384 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	203.93 23.38	31.17
26 05 33 13-2385 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	280.52 24.68	32.91
26 05 33 13-2386 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	332.43 25.98	34.64
26 05 33 13-2387 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	393.26 27.28	36.38
26 05 33 13-2388 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	454.10 28.58	38.10
26 05 33 13-2389 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	525.83 29.88	39.83
26 05 33 13-2390 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	827.54 31.18	41.57
26 05 33 13-2391 Spacers <small>(26 05 33 13-1962)</small> Note: For concrete encasement applications. See CSI section 03 31 13 00-0039 for concrete., 26 05 33 13-1962 for conduit.		
26 05 33 13-2392 EA 1" Base Spacers, Average 4" Wide, Direct Burial	9.20	
26 05 33 13-2393 EA 1" Intermediate Spacers, Average 4" Wide, Direct Burial.....	9.89	
26 05 33 13-2394 EA 1-1/4" Base Spacer, Average 4" Wide, Direct Burial	10.94	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2395 EA 1-1/4" Intermediate Spacers, Average 4" Wide, Direct Burial.....	11.77	
26 05 33 13-2396 EA 1-1/2" Base Spacer, Average 4" Wide, Direct Burial.....	11.04	
26 05 33 13-2397 EA 1-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial.....	11.84	
26 05 33 13-2398 EA 2" Base Spacer, Average 4" Wide, Direct Burial.....	13.69	
26 05 33 13-2399 EA 2" Intermediate Spacers, Average 4" Wide, Direct Burial.....	12.71	
26 05 33 13-2400 EA 2-1/2" Base Spacer, Average 4" Wide, Direct Burial.....	15.13	
26 05 33 13-2401 EA 2-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial.....	14.63	
26 05 33 13-2402 EA 3" Base Spacer, Average 4" Wide, Direct Burial.....	17.31	
26 05 33 13-2403 EA 3" Intermediate Spacers, Average 4" Wide, Direct Burial.....	16.53	
26 05 33 13-2404 EA 3-1/2" Base Spacer, Average 4" Wide, Direct Burial.....	18.75	
26 05 33 13-2405 EA 3-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial.....	17.93	
26 05 33 13-2406 EA 4" Base Spacer, Average 4" Wide, Direct Burial.....	19.33	
26 05 33 13-2407 EA 4" Intermediate Spacers, Average 4" Wide, Direct Burial.....	18.44	
26 05 33 13-2408 EA 5" Base Spacer, Average 4" Wide, Direct Burial.....	21.37	
26 05 33 13-2409 EA 5" Intermediate Spacers, Average 4" Wide, Direct Burial.....	20.32	
26 05 33 13-2410 EA 6" Base Spacer, Average 4" Wide, Direct Burial.....	24.15	
26 05 33 13-2411 EA 6" Intermediate Spacers, Average 4" Wide, Direct Burial.....	23.26	
26 05 33 13-2412 Conduit Field Bending (26 05 33 13-0057)		
26 05 33 13-2413 Metallic Conduit Field Bending (26 05 33 13-2412)		
Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT), Intermediate Metal Conduit (IMC) and aluminum conduits.		
26 05 33 13-2414 EA 1-1/4" Metallic Conduit Field Bending.....	15.61	
26 05 33 13-2415 EA 1-1/2" Metallic Conduit Field Bending.....	20.82	
26 05 33 13-2416 EA 2" Metallic Conduit Field Bending.....	26.02	
26 05 33 13-2417 EA 2-1/2" Metallic Conduit Field Bending.....	36.43	
26 05 33 13-2418 EA 3" Metallic Conduit Field Bending.....	46.84	
26 05 33 13-2419 EA 3-1/2" Metallic Conduit Field Bending.....	57.25	
26 05 33 13-2420 EA 4" Metallic Conduit Field Bending.....	67.66	
26 05 33 13-2421 EA 5" Metallic Conduit Field Bending.....	83.27	
26 05 33 13-2422 EA 6" Metallic Conduit Field Bending.....	98.90	
26 05 33 13-2423 Plastic Conduit Field Bending (26 05 33 13-2412)		
Note: For PVC conduits.		
26 05 33 13-2424 EA 1" Plastic Conduit Field Bending.....	23.94	
26 05 33 13-2425 EA 1-1/4" Plastic Conduit Field Bending.....	26.02	
26 05 33 13-2426 EA 1-1/2" Plastic Conduit Field Bending.....	31.23	
26 05 33 13-2427 EA 2" Plastic Conduit Field Bending.....	41.64	
26 05 33 13-2428 EA 2-1/2" Plastic Conduit Field Bending.....	52.05	
26 05 33 13-2429 EA 3" Plastic Conduit Field Bending.....	62.46	
26 05 33 13-2430 EA 3-1/2" Plastic Conduit Field Bending.....	72.86	
26 05 33 13-2431 EA 4" Plastic Conduit Field Bending.....	83.27	
26 05 33 13-2432 EA 5" Plastic Conduit Field Bending.....	93.68	
26 05 33 13-2433 EA 6" Plastic Conduit Field Bending.....	104.10	
26 05 33 13-2434 Cut And Thread Existing In-Place Threaded Conduit (26 05 33 13-0057)		
Note: For use when connecting conduit to an existing in-place system.		
26 05 33 13-2435 EA 1/2", Cut And Thread Existing In-Place Threaded Conduit.....	30.35	
For Work In Restricted Working Space, Add	9.11	
26 05 33 13-2436 EA 3/4", Cut And Thread Existing In-Place Threaded Conduit.....	33.39	
For Work In Restricted Working Space, Add	10.02	
26 05 33 13-2437 EA 1", Cut And Thread Existing In-Place Threaded Conduit.....	36.43	
For Work In Restricted Working Space, Add	10.93	
26 05 33 13-2438 EA 1-1/4", Cut And Thread Existing In-Place Threaded Conduit.....	39.46	
For Work In Restricted Working Space, Add	11.84	
26 05 33 13-2439 EA 1-1/2", Cut And Thread Existing In-Place Threaded Conduit.....	41.48	
For Work In Restricted Working Space, Add	12.44	
26 05 33 13-2440 EA 2", Cut And Thread Existing In-Place Threaded Conduit.....	43.51	
For Work In Restricted Working Space, Add	13.05	
26 05 33 13-2441 EA 2-1/2", Cut And Thread Existing In-Place Threaded Conduit.....	45.53	
For Work In Restricted Working Space, Add	13.66	
26 05 33 13-2442 EA 3", Cut And Thread Existing In-Place Threaded Conduit.....	47.56	
For Work In Restricted Working Space, Add	14.27	
26 05 33 13-2443 EA 3-1/2", Cut And Thread Existing In-Place Threaded Conduit.....	48.56	
For Work In Restricted Working Space, Add	14.57	
26 05 33 13-2444 EA 4", Cut And Thread Existing In-Place Threaded Conduit.....	49.58	
For Work In Restricted Working Space, Add	14.87	
26 05 33 13-2445 EA 5", Cut And Thread Existing In-Place Threaded Conduit.....	51.60	
For Work In Restricted Working Space, Add	15.48	
26 05 33 13-2446 EA 6", Cut And Thread Existing In-Place Threaded Conduit.....	53.63	
For Work In Restricted Working Space, Add	16.09	
26 05 33 13-2447 Conduit Bodies (26 05 33 13-0057)		
26 05 33 13-2448 Threaded, Cast Aluminum Conduit Body (26 05 33 13-2447)		
26 05 33 13-2449 Type LB, Threaded, Two Hub Cast Aluminum Conduit Body (26 05 33 13-2448)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2450 EA 1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	50.90	17.71
For Mogul LB, Add	2.75	
For Work In Restricted Working Space, Add	13.28	
For Elevated Installation >10' To 15', Add	4.43	
For Elevated Installation >15' To 20', Add	8.86	
For Elevated Installation >20' To 25', Add	11.07	
For Elevated Installation >25' To 30', Add	15.50	
For Elevated Installation >30' To 35', Add	17.71	
For Elevated Installation >35' To 40', Add	22.14	
For Elevated Installation >40', Add	24.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.28	
26 05 33 13-2451 EA 3/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	59.72	20.29
For Mogul LB, Add	4.21	
For Work In Restricted Working Space, Add	15.22	
For Elevated Installation >10' To 15', Add	5.07	
For Elevated Installation >15' To 20', Add	10.15	
For Elevated Installation >20' To 25', Add	12.68	
For Elevated Installation >25' To 30', Add	17.76	
For Elevated Installation >30' To 35', Add	20.29	
For Elevated Installation >35' To 40', Add	25.37	
For Elevated Installation >40', Add	27.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.22	
26 05 33 13-2452 EA 1" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	71.84	23.61
For Mogul LB, Add	6.65	
For Work In Restricted Working Space, Add	17.71	
For Elevated Installation >10' To 15', Add	5.90	
For Elevated Installation >15' To 20', Add	11.81	
For Elevated Installation >20' To 25', Add	14.76	
For Elevated Installation >25' To 30', Add	20.66	
For Elevated Installation >30' To 35', Add	23.62	
For Elevated Installation >35' To 40', Add	29.52	
For Elevated Installation >40', Add	32.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.71	
26 05 33 13-2453 EA 1-1/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	86.45	26.93
For Mogul LB, Add	10.97	
For Work In Restricted Working Space, Add	20.20	
For Elevated Installation >10' To 15', Add	6.73	
For Elevated Installation >15' To 20', Add	13.47	
For Elevated Installation >20' To 25', Add	16.84	
For Elevated Installation >25' To 30', Add	23.57	
For Elevated Installation >30' To 35', Add	26.94	
For Elevated Installation >35' To 40', Add	33.67	
For Elevated Installation >40', Add	37.04	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.20	
26 05 33 13-2454 EA 1-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	98.45	29.52
For Mogul LB, Add	14.81	
For Work In Restricted Working Space, Add	22.14	
For Elevated Installation >10' To 15', Add	7.38	
For Elevated Installation >15' To 20', Add	14.76	
For Elevated Installation >20' To 25', Add	18.45	
For Elevated Installation >25' To 30', Add	25.83	
For Elevated Installation >30' To 35', Add	29.52	
For Elevated Installation >35' To 40', Add	36.90	
For Elevated Installation >40', Add	40.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.14	
26 05 33 13-2455 EA 2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	128.38	35.42
For Mogul LB, Add	25.44	
For Work In Restricted Working Space, Add	26.57	
For Elevated Installation >10' To 15', Add	8.86	
For Elevated Installation >15' To 20', Add	17.71	
For Elevated Installation >20' To 25', Add	22.14	
For Elevated Installation >25' To 30', Add	31.00	
For Elevated Installation >30' To 35', Add	35.42	
For Elevated Installation >35' To 40', Add	44.28	
For Elevated Installation >40', Add	48.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.57	
26 05 33 13-2456 EA 2-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	212.67	49.81
For Mogul LB, Add	59.88	
For Work In Restricted Working Space, Add	37.36	
For Elevated Installation >10' To 15', Add	12.45	
For Elevated Installation >15' To 20', Add	24.91	
For Elevated Installation >20' To 25', Add	31.13	
For Elevated Installation >25' To 30', Add	43.59	
For Elevated Installation >30' To 35', Add	49.81	
For Elevated Installation >35' To 40', Add	62.27	
For Elevated Installation >40', Add	68.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.36	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2457	EA	3"	Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	279.85	66.42
			<i>For Mogul LB, Add</i>	77.05	
			<i>For Work In Restricted Working Space, Add</i>	49.82	
			<i>For Elevated Installation >10' To 15', Add</i>	16.61	
			<i>For Elevated Installation >15' To 20', Add</i>	33.21	
			<i>For Elevated Installation >20' To 25', Add</i>	41.51	
			<i>For Elevated Installation >25' To 30', Add</i>	58.12	
			<i>For Elevated Installation >30' To 35', Add</i>	66.42	
			<i>For Elevated Installation >35' To 40', Add</i>	83.03	
			<i>For Elevated Installation >40', Add</i>	91.33	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49.82	
26 05 33 13-2458	EA	3-1/2"	Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	370.31	83.02
			<i>For Mogul LB, Add</i>	111.69	
			<i>For Work In Restricted Working Space, Add</i>	62.27	
			<i>For Elevated Installation >10' To 15', Add</i>	20.76	
			<i>For Elevated Installation >15' To 20', Add</i>	41.51	
			<i>For Elevated Installation >20' To 25', Add</i>	51.89	
			<i>For Elevated Installation >25' To 30', Add</i>	72.64	
			<i>For Elevated Installation >30' To 35', Add</i>	83.02	
			<i>For Elevated Installation >35' To 40', Add</i>	103.78	
			<i>For Elevated Installation >40', Add</i>	114.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.27	
26 05 33 13-2459	EA	4"	Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	478.92	101.10
			<i>For Mogul LB, Add</i>	156.99	
			<i>For Work In Restricted Working Space, Add</i>	75.83	
			<i>For Elevated Installation >10' To 15', Add</i>	25.28	
			<i>For Elevated Installation >15' To 20', Add</i>	50.55	
			<i>For Elevated Installation >20' To 25', Add</i>	63.19	
			<i>For Elevated Installation >25' To 30', Add</i>	88.46	
			<i>For Elevated Installation >30' To 35', Add</i>	101.10	
			<i>For Elevated Installation >35' To 40', Add</i>	126.38	
			<i>For Elevated Installation >40', Add</i>	139.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.83	
26 05 33 13-2460			Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover		
			<small>(26 05 33 13-2448)</small>		
26 05 33 13-2461	EA	1/2"	Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	51.71	17.71
			<i>For Mogul LB, Add</i>	3.36	
			<i>For Work In Restricted Working Space, Add</i>	13.28	
			<i>For Elevated Installation >10' To 15', Add</i>	4.43	
			<i>For Elevated Installation >15' To 20', Add</i>	8.86	
			<i>For Elevated Installation >20' To 25', Add</i>	11.07	
			<i>For Elevated Installation >25' To 30', Add</i>	15.50	
			<i>For Elevated Installation >30' To 35', Add</i>	17.71	
			<i>For Elevated Installation >35' To 40', Add</i>	22.14	
			<i>For Elevated Installation >40', Add</i>	24.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.28	
26 05 33 13-2462	EA	3/4"	Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	60.51	20.29
			<i>For Mogul LB, Add</i>	4.80	
			<i>For Work In Restricted Working Space, Add</i>	15.22	
			<i>For Elevated Installation >10' To 15', Add</i>	5.07	
			<i>For Elevated Installation >15' To 20', Add</i>	10.15	
			<i>For Elevated Installation >20' To 25', Add</i>	12.68	
			<i>For Elevated Installation >25' To 30', Add</i>	17.76	
			<i>For Elevated Installation >30' To 35', Add</i>	20.29	
			<i>For Elevated Installation >35' To 40', Add</i>	25.37	
			<i>For Elevated Installation >40', Add</i>	27.90	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.22	
26 05 33 13-2463	EA	1"	Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	73.42	23.61
			<i>For Mogul LB, Add</i>	7.83	
			<i>For Work In Restricted Working Space, Add</i>	17.71	
			<i>For Elevated Installation >10' To 15', Add</i>	5.90	
			<i>For Elevated Installation >15' To 20', Add</i>	11.81	
			<i>For Elevated Installation >20' To 25', Add</i>	14.76	
			<i>For Elevated Installation >25' To 30', Add</i>	20.66	
			<i>For Elevated Installation >30' To 35', Add</i>	23.62	
			<i>For Elevated Installation >35' To 40', Add</i>	29.52	
			<i>For Elevated Installation >40', Add</i>	32.47	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.71	
26 05 33 13-2464	EA	1-1/4"	Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	88.38	26.93
			<i>For Mogul LB, Add</i>	12.41	
			<i>For Work In Restricted Working Space, Add</i>	20.20	
			<i>For Elevated Installation >10' To 15', Add</i>	6.73	
			<i>For Elevated Installation >15' To 20', Add</i>	13.47	
			<i>For Elevated Installation >20' To 25', Add</i>	16.84	
			<i>For Elevated Installation >25' To 30', Add</i>	23.57	
			<i>For Elevated Installation >30' To 35', Add</i>	26.94	
			<i>For Elevated Installation >35' To 40', Add</i>	33.67	
			<i>For Elevated Installation >40', Add</i>	37.04	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2465 EA 1-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	101.73	29.52
<i>For Mogul LB, Add</i>	17.27	
<i>For Work In Restricted Working Space, Add</i>	22.14	
<i>For Elevated Installation >10' To 15', Add</i>	7.38	
<i>For Elevated Installation >15' To 20', Add</i>	14.76	
<i>For Elevated Installation >20' To 25', Add</i>	18.45	
<i>For Elevated Installation >25' To 30', Add</i>	25.83	
<i>For Elevated Installation >30' To 35', Add</i>	29.52	
<i>For Elevated Installation >35' To 40', Add</i>	36.90	
<i>For Elevated Installation >40', Add</i>	40.58	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.14	
26 05 33 13-2466 EA 2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	135.43	35.42
<i>For Mogul LB, Add</i>	30.72	
<i>For Work In Restricted Working Space, Add</i>	26.57	
<i>For Elevated Installation >10' To 15', Add</i>	8.86	
<i>For Elevated Installation >15' To 20', Add</i>	17.71	
<i>For Elevated Installation >20' To 25', Add</i>	22.14	
<i>For Elevated Installation >25' To 30', Add</i>	31.00	
<i>For Elevated Installation >30' To 35', Add</i>	35.42	
<i>For Elevated Installation >35' To 40', Add</i>	44.28	
<i>For Elevated Installation >40', Add</i>	48.71	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.57	
26 05 33 13-2467 EA 2-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	209.12	49.81
<i>For Mogul LB, Add</i>	57.22	
<i>For Work In Restricted Working Space, Add</i>	37.36	
<i>For Elevated Installation >10' To 15', Add</i>	12.45	
<i>For Elevated Installation >15' To 20', Add</i>	24.91	
<i>For Elevated Installation >20' To 25', Add</i>	31.13	
<i>For Elevated Installation >25' To 30', Add</i>	43.59	
<i>For Elevated Installation >30' To 35', Add</i>	49.81	
<i>For Elevated Installation >35' To 40', Add</i>	62.27	
<i>For Elevated Installation >40', Add</i>	68.49	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.36	
26 05 33 13-2468 EA 3" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	267.91	66.42
<i>For Mogul LB, Add</i>	68.09	
<i>For Work In Restricted Working Space, Add</i>	49.82	
<i>For Elevated Installation >10' To 15', Add</i>	16.61	
<i>For Elevated Installation >15' To 20', Add</i>	33.21	
<i>For Elevated Installation >20' To 25', Add</i>	41.51	
<i>For Elevated Installation >25' To 30', Add</i>	58.12	
<i>For Elevated Installation >30' To 35', Add</i>	66.42	
<i>For Elevated Installation >35' To 40', Add</i>	83.03	
<i>For Elevated Installation >40', Add</i>	91.33	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49.82	
26 05 33 13-2469 EA 3-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	380.49	83.02
<i>For Mogul LB, Add</i>	119.33	
<i>For Work In Restricted Working Space, Add</i>	62.27	
<i>For Elevated Installation >10' To 15', Add</i>	20.76	
<i>For Elevated Installation >15' To 20', Add</i>	41.51	
<i>For Elevated Installation >20' To 25', Add</i>	51.89	
<i>For Elevated Installation >25' To 30', Add</i>	72.64	
<i>For Elevated Installation >30' To 35', Add</i>	83.02	
<i>For Elevated Installation >35' To 40', Add</i>	103.78	
<i>For Elevated Installation >40', Add</i>	114.15	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.27	
26 05 33 13-2470 EA 4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	499.73	101.10
<i>For Mogul LB, Add</i>	172.60	
<i>For Work In Restricted Working Space, Add</i>	75.83	
<i>For Elevated Installation >10' To 15', Add</i>	25.28	
<i>For Elevated Installation >15' To 20', Add</i>	50.55	
<i>For Elevated Installation >20' To 25', Add</i>	63.19	
<i>For Elevated Installation >25' To 30', Add</i>	88.46	
<i>For Elevated Installation >30' To 35', Add</i>	101.10	
<i>For Elevated Installation >35' To 40', Add</i>	126.38	
<i>For Elevated Installation >40', Add</i>	139.01	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.83	
26 05 33 13-2471 Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover ^(26 05 33 13-2448)		
26 05 33 13-2472 EA 1 1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	59.51	20.29
<i>For Work In Restricted Working Space, Add</i>	15.22	
<i>For Elevated Installation >10' To 15', Add</i>	5.07	
<i>For Elevated Installation >15' To 20', Add</i>	10.15	
<i>For Elevated Installation >20' To 25', Add</i>	12.68	
<i>For Elevated Installation >25' To 30', Add</i>	17.76	
<i>For Elevated Installation >30' To 35', Add</i>	20.29	
<i>For Elevated Installation >35' To 40', Add</i>	25.37	
<i>For Elevated Installation >40', Add</i>	27.90	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.22	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2473 EA 3/4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	70.34	23.61
For Work In Restricted Working Space, Add	17.71	
For Elevated Installation >10' To 15', Add	5.90	
For Elevated Installation >15' To 20', Add	11.81	
For Elevated Installation >20' To 25', Add	14.76	
For Elevated Installation >25' To 30', Add	20.66	
For Elevated Installation >30' To 35', Add	23.62	
For Elevated Installation >35' To 40', Add	29.52	
For Elevated Installation >40', Add	32.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.71	
26 05 33 13-2474 EA 1" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	80.57	25.83
For Work In Restricted Working Space, Add	19.37	
For Elevated Installation >10' To 15', Add	6.46	
For Elevated Installation >15' To 20', Add	12.92	
For Elevated Installation >20' To 25', Add	16.15	
For Elevated Installation >25' To 30', Add	22.60	
For Elevated Installation >30' To 35', Add	25.83	
For Elevated Installation >35' To 40', Add	32.29	
For Elevated Installation >40', Add	35.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.37	
26 05 33 13-2475 EA 1-1/4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	98.03	29.52
For Work In Restricted Working Space, Add	22.14	
For Elevated Installation >10' To 15', Add	7.38	
For Elevated Installation >15' To 20', Add	14.76	
For Elevated Installation >20' To 25', Add	18.45	
For Elevated Installation >25' To 30', Add	25.83	
For Elevated Installation >30' To 35', Add	29.52	
For Elevated Installation >35' To 40', Add	36.90	
For Elevated Installation >40', Add	40.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.14	
26 05 33 13-2476 EA 1-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	112.69	32.47
For Work In Restricted Working Space, Add	24.35	
For Elevated Installation >10' To 15', Add	8.12	
For Elevated Installation >15' To 20', Add	16.24	
For Elevated Installation >20' To 25', Add	20.30	
For Elevated Installation >25' To 30', Add	28.41	
For Elevated Installation >30' To 35', Add	32.47	
For Elevated Installation >35' To 40', Add	40.59	
For Elevated Installation >40', Add	44.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.35	
26 05 33 13-2477 EA 2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	148.90	38.01
For Work In Restricted Working Space, Add	28.50	
For Elevated Installation >10' To 15', Add	9.50	
For Elevated Installation >15' To 20', Add	19.00	
For Elevated Installation >20' To 25', Add	23.75	
For Elevated Installation >25' To 30', Add	33.25	
For Elevated Installation >30' To 35', Add	38.00	
For Elevated Installation >35' To 40', Add	47.51	
For Elevated Installation >40', Add	52.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.50	
26 05 33 13-2478 EA 2-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	233.59	55.35
For Work In Restricted Working Space, Add	41.51	
For Elevated Installation >10' To 15', Add	13.84	
For Elevated Installation >15' To 20', Add	27.67	
For Elevated Installation >20' To 25', Add	34.59	
For Elevated Installation >25' To 30', Add	48.43	
For Elevated Installation >30' To 35', Add	55.35	
For Elevated Installation >35' To 40', Add	69.19	
For Elevated Installation >40', Add	76.10	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.51	
26 05 33 13-2479 EA 3" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	301.94	71.95
For Work In Restricted Working Space, Add	53.96	
For Elevated Installation >10' To 15', Add	17.99	
For Elevated Installation >15' To 20', Add	35.98	
For Elevated Installation >20' To 25', Add	44.97	
For Elevated Installation >25' To 30', Add	62.96	
For Elevated Installation >30' To 35', Add	71.95	
For Elevated Installation >35' To 40', Add	89.94	
For Elevated Installation >40', Add	98.93	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.96	
26 05 33 13-2480 EA 3-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	474.91	88.56
For Work In Restricted Working Space, Add	66.42	
For Elevated Installation >10' To 15', Add	22.14	
For Elevated Installation >15' To 20', Add	44.28	
For Elevated Installation >20' To 25', Add	55.35	
For Elevated Installation >25' To 30', Add	77.49	
For Elevated Installation >30' To 35', Add	88.56	
For Elevated Installation >35' To 40', Add	110.70	
For Elevated Installation >40', Add	121.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2481 EA 4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	545.73	106.64
For Work In Restricted Working Space, Add	79.98	
For Elevated Installation >10' To 15', Add	26.66	
For Elevated Installation >15' To 20', Add	53.32	
For Elevated Installation >20' To 25', Add	66.65	
For Elevated Installation >25' To 30', Add	93.31	
For Elevated Installation >30' To 35', Add	106.64	
For Elevated Installation >35' To 40', Add	133.30	
For Elevated Installation >40', Add	146.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	79.98	
26 05 33 13-2482 Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <small>(26 05 33 13-2482)</small>		
26 05 33 13-2483 EA 1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	51.87	17.71
For Work In Restricted Working Space, Add	13.28	
For Elevated Installation >10' To 15', Add	4.43	
For Elevated Installation >15' To 20', Add	8.86	
For Elevated Installation >20' To 25', Add	11.07	
For Elevated Installation >25' To 30', Add	15.50	
For Elevated Installation >30' To 35', Add	17.71	
For Elevated Installation >35' To 40', Add	22.14	
For Elevated Installation >40', Add	24.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.28	
26 05 33 13-2484 EA 3/4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	59.95	20.29
For Work In Restricted Working Space, Add	15.22	
For Elevated Installation >10' To 15', Add	5.07	
For Elevated Installation >15' To 20', Add	10.15	
For Elevated Installation >20' To 25', Add	12.68	
For Elevated Installation >25' To 30', Add	17.76	
For Elevated Installation >30' To 35', Add	20.29	
For Elevated Installation >35' To 40', Add	25.37	
For Elevated Installation >40', Add	27.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.22	
26 05 33 13-2485 EA 1" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	71.86	23.25
For Work In Restricted Working Space, Add	17.44	
For Elevated Installation >10' To 15', Add	5.81	
For Elevated Installation >15' To 20', Add	11.62	
For Elevated Installation >20' To 25', Add	14.53	
For Elevated Installation >25' To 30', Add	20.34	
For Elevated Installation >30' To 35', Add	23.25	
For Elevated Installation >35' To 40', Add	29.06	
For Elevated Installation >40', Add	31.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.44	
26 05 33 13-2486 EA 1-1/4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	87.61	26.93
For Work In Restricted Working Space, Add	20.20	
For Elevated Installation >10' To 15', Add	6.73	
For Elevated Installation >15' To 20', Add	13.47	
For Elevated Installation >20' To 25', Add	16.84	
For Elevated Installation >25' To 30', Add	23.57	
For Elevated Installation >30' To 35', Add	26.94	
For Elevated Installation >35' To 40', Add	33.67	
For Elevated Installation >40', Add	37.04	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.20	
26 05 33 13-2487 EA 1-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	97.91	29.52
For Work In Restricted Working Space, Add	22.14	
For Elevated Installation >10' To 15', Add	7.38	
For Elevated Installation >15' To 20', Add	14.76	
For Elevated Installation >20' To 25', Add	18.45	
For Elevated Installation >25' To 30', Add	25.83	
For Elevated Installation >30' To 35', Add	29.52	
For Elevated Installation >35' To 40', Add	36.90	
For Elevated Installation >40', Add	40.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.14	
26 05 33 13-2488 EA 2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	128.44	35.42
For Work In Restricted Working Space, Add	26.57	
For Elevated Installation >10' To 15', Add	8.86	
For Elevated Installation >15' To 20', Add	17.71	
For Elevated Installation >20' To 25', Add	22.14	
For Elevated Installation >25' To 30', Add	31.00	
For Elevated Installation >30' To 35', Add	35.42	
For Elevated Installation >35' To 40', Add	44.28	
For Elevated Installation >40', Add	48.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.57	
26 05 33 13-2489 EA 2-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	206.13	49.81
For Work In Restricted Working Space, Add	37.36	
For Elevated Installation >10' To 15', Add	12.45	
For Elevated Installation >15' To 20', Add	24.91	
For Elevated Installation >20' To 25', Add	31.13	
For Elevated Installation >25' To 30', Add	43.59	
For Elevated Installation >30' To 35', Add	49.81	
For Elevated Installation >35' To 40', Add	62.27	
For Elevated Installation >40', Add	68.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.36	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2490	EA	3" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	266.00 49.82 16.61 33.21 41.51 58.12 66.42 83.03 91.33 49.82	66.42
26 05 33	13-2491	EA	3-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	374.37 62.27 20.76 41.51 51.89 72.64 83.02 103.78 114.15 62.27	83.02
26 05 33	13-2492	EA	4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	480.83 75.83 25.28 50.55 63.19 88.46 101.10 126.38 139.01 75.83	101.10
26 05 33 13-2493 Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover <small>(26 05 33 13-2493)</small>					
26 05 33	13-2494	EA	1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68.89 17.44 5.81 11.62 14.53 20.34 23.25 29.06 31.97 17.44	23.25
26 05 33	13-2495	EA	3/4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	79.15 19.37 6.46 12.92 16.15 22.60 25.83 32.29 35.52 19.37	25.83
26 05 33	13-2496	EA	1" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95.69 21.31 7.10 14.21 17.76 24.86 28.41 35.52 39.07 21.31	28.42
26 05 33	13-2497	EA	1-1/4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110.21 24.35 8.12 16.24 20.30 28.41 32.47 40.59 44.65 24.35	32.47
26 05 33	13-2498	EA	1-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	139.41 26.57 8.86 17.71 22.14 31.00 35.42 44.28 48.71 26.57	35.42



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2499 EA 2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	168.81	43.54
For Work In Restricted Working Space, Add	32.66	
For Elevated Installation >10' To 15', Add	10.89	
For Elevated Installation >15' To 20', Add	21.77	
For Elevated Installation >20' To 25', Add	27.21	
For Elevated Installation >25' To 30', Add	38.10	
For Elevated Installation >30' To 35', Add	43.54	
For Elevated Installation >35' To 40', Add	54.43	
For Elevated Installation >40', Add	59.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.66	
26 05 33 13-2500 EA 2-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	308.36	63.83
For Work In Restricted Working Space, Add	47.88	
For Elevated Installation >10' To 15', Add	15.96	
For Elevated Installation >15' To 20', Add	31.92	
For Elevated Installation >20' To 25', Add	39.90	
For Elevated Installation >25' To 30', Add	55.86	
For Elevated Installation >30' To 35', Add	63.84	
For Elevated Installation >35' To 40', Add	79.80	
For Elevated Installation >40', Add	87.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.88	
26 05 33 13-2501 EA 3" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	381.83	83.02
For Work In Restricted Working Space, Add	62.27	
For Elevated Installation >10' To 15', Add	20.76	
For Elevated Installation >15' To 20', Add	41.51	
For Elevated Installation >20' To 25', Add	51.89	
For Elevated Installation >25' To 30', Add	72.64	
For Elevated Installation >30' To 35', Add	83.02	
For Elevated Installation >35' To 40', Add	103.78	
For Elevated Installation >40', Add	114.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.27	
26 05 33 13-2502 EA 3-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	539.37	102.58
For Work In Restricted Working Space, Add	77.49	
For Elevated Installation >10' To 15', Add	25.83	
For Elevated Installation >15' To 20', Add	51.66	
For Elevated Installation >20' To 25', Add	64.57	
For Elevated Installation >25' To 30', Add	90.40	
For Elevated Installation >30' To 35', Add	103.32	
For Elevated Installation >35' To 40', Add	129.15	
For Elevated Installation >40', Add	142.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	77.49	
26 05 33 13-2503 EA 4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	651.01	123.25
For Work In Restricted Working Space, Add	92.43	
For Elevated Installation >10' To 15', Add	30.81	
For Elevated Installation >15' To 20', Add	61.62	
For Elevated Installation >20' To 25', Add	77.03	
For Elevated Installation >25' To 30', Add	107.84	
For Elevated Installation >30' To 35', Add	123.24	
For Elevated Installation >35' To 40', Add	154.05	
For Elevated Installation >40', Add	169.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.43	
26 05 33 13-2504 Threaded, Malleable Iron Conduit Body <small>(26 05 33 13-2447)</small>		
26 05 33 13-2505 Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover <small>(26 05 33 13-2504)</small>		
26 05 33 13-2506 EA 1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	53.15	17.71
For Work In Restricted Working Space, Add	13.28	
For Elevated Installation >10' To 15', Add	4.43	
For Elevated Installation >15' To 20', Add	8.86	
For Elevated Installation >20' To 25', Add	11.07	
For Elevated Installation >25' To 30', Add	15.50	
For Elevated Installation >30' To 35', Add	17.71	
For Elevated Installation >35' To 40', Add	22.14	
For Elevated Installation >40', Add	24.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.28	
26 05 33 13-2507 EA 3/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	61.61	20.29
For Work In Restricted Working Space, Add	15.22	
For Elevated Installation >10' To 15', Add	5.07	
For Elevated Installation >15' To 20', Add	10.15	
For Elevated Installation >20' To 25', Add	12.68	
For Elevated Installation >25' To 30', Add	17.76	
For Elevated Installation >30' To 35', Add	20.29	
For Elevated Installation >35' To 40', Add	25.37	
For Elevated Installation >40', Add	27.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.22	
26 05 33 13-2508 EA 1" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	75.25	23.61
For Work In Restricted Working Space, Add	17.71	
For Elevated Installation >10' To 15', Add	5.90	
For Elevated Installation >15' To 20', Add	11.81	
For Elevated Installation >20' To 25', Add	14.76	
For Elevated Installation >25' To 30', Add	20.66	
For Elevated Installation >30' To 35', Add	23.62	
For Elevated Installation >35' To 40', Add	29.52	
For Elevated Installation >40', Add	32.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.71	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2509 EA 1-1/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	96.43	26.93
For Work In Restricted Working Space, Add	20.20	
For Elevated Installation >10' To 15', Add	6.73	
For Elevated Installation >15' To 20', Add	13.47	
For Elevated Installation >20' To 25', Add	16.84	
For Elevated Installation >25' To 30', Add	23.57	
For Elevated Installation >30' To 35', Add	26.94	
For Elevated Installation >35' To 40', Add	33.67	
For Elevated Installation >40', Add	37.04	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.20	
26 05 33 13-2510 EA 1-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	109.47	29.52
For Work In Restricted Working Space, Add	22.14	
For Elevated Installation >10' To 15', Add	7.38	
For Elevated Installation >15' To 20', Add	14.76	
For Elevated Installation >20' To 25', Add	18.45	
For Elevated Installation >25' To 30', Add	25.83	
For Elevated Installation >30' To 35', Add	29.52	
For Elevated Installation >35' To 40', Add	36.90	
For Elevated Installation >40', Add	40.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.14	
26 05 33 13-2511 EA 2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	148.27	35.42
For Work In Restricted Working Space, Add	26.57	
For Elevated Installation >10' To 15', Add	8.86	
For Elevated Installation >15' To 20', Add	17.71	
For Elevated Installation >20' To 25', Add	22.14	
For Elevated Installation >25' To 30', Add	31.00	
For Elevated Installation >30' To 35', Add	35.42	
For Elevated Installation >35' To 40', Add	44.28	
For Elevated Installation >40', Add	48.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.57	
26 05 33 13-2512 EA 2-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	246.77	49.81
For Work In Restricted Working Space, Add	37.36	
For Elevated Installation >10' To 15', Add	12.45	
For Elevated Installation >15' To 20', Add	24.91	
For Elevated Installation >20' To 25', Add	31.14	
For Elevated Installation >25' To 30', Add	43.59	
For Elevated Installation >30' To 35', Add	49.82	
For Elevated Installation >35' To 40', Add	62.27	
For Elevated Installation >40', Add	68.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.36	
26 05 33 13-2513 EA 3" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	348.38	66.42
For Work In Restricted Working Space, Add	49.82	
For Elevated Installation >10' To 15', Add	16.61	
For Elevated Installation >15' To 20', Add	33.21	
For Elevated Installation >20' To 25', Add	41.51	
For Elevated Installation >25' To 30', Add	58.12	
For Elevated Installation >30' To 35', Add	66.42	
For Elevated Installation >35' To 40', Add	83.03	
For Elevated Installation >40', Add	91.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.82	
26 05 33 13-2514 EA 3-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	477.49	83.02
For Work In Restricted Working Space, Add	62.27	
For Elevated Installation >10' To 15', Add	20.76	
For Elevated Installation >15' To 20', Add	41.51	
For Elevated Installation >20' To 25', Add	51.89	
For Elevated Installation >25' To 30', Add	72.64	
For Elevated Installation >30' To 35', Add	83.02	
For Elevated Installation >35' To 40', Add	103.78	
For Elevated Installation >40', Add	114.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.27	
26 05 33 13-2515 EA 4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	571.96	101.10
For Work In Restricted Working Space, Add	75.83	
For Elevated Installation >10' To 15', Add	25.28	
For Elevated Installation >15' To 20', Add	50.55	
For Elevated Installation >20' To 25', Add	63.19	
For Elevated Installation >25' To 30', Add	88.47	
For Elevated Installation >30' To 35', Add	101.10	
For Elevated Installation >35' To 40', Add	126.38	
For Elevated Installation >40', Add	139.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.83	
26 05 33 13-2516 Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover		
<small>(26 05 33 13-2504)</small>		
26 05 33 13-2517 EA 1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	55.21	17.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.28	
26 05 33 13-2518 EA 3/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	62.21	20.29
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.22	
26 05 33 13-2519 EA 1" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	78.39	23.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.71	
26 05 33 13-2520 EA 1-1/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	98.53	26.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.20	
26 05 33 13-2521 EA 1-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	112.04	29.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.14	
26 05 33 13-2522 EA 2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	143.00	35.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2523 EA 2-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	217.46	49.81
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.36	
26 05 33 13-2524 EA 3" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	295.68	66.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.82	
26 05 33 13-2525 EA 3-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	508.52	83.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.27	
26 05 33 13-2526 EA 4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	594.85	101.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.83	
26 05 33 13-2527 Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover <small>(26 05 33 13-2504)</small>		
26 05 33 13-2528 EA 1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	65.38	20.29
For Work In Restricted Working Space, Add	15.22	
For Elevated Installation >10' To 15', Add	5.07	
For Elevated Installation >15' To 20', Add	10.15	
For Elevated Installation >20' To 25', Add	12.68	
For Elevated Installation >25' To 30', Add	17.76	
For Elevated Installation >30' To 35', Add	20.29	
For Elevated Installation >35' To 40', Add	25.37	
For Elevated Installation >40', Add	27.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.22	
26 05 33 13-2529 EA 3/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	77.09	23.61
For Work In Restricted Working Space, Add	17.99	
For Elevated Installation >10' To 15', Add	6.00	
For Elevated Installation >15' To 20', Add	11.99	
For Elevated Installation >20' To 25', Add	14.99	
For Elevated Installation >25' To 30', Add	20.99	
For Elevated Installation >30' To 35', Add	23.98	
For Elevated Installation >35' To 40', Add	29.98	
For Elevated Installation >40', Add	32.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.99	
26 05 33 13-2530 EA 1" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	90.49	25.83
For Work In Restricted Working Space, Add	19.37	
For Elevated Installation >10' To 15', Add	6.46	
For Elevated Installation >15' To 20', Add	12.92	
For Elevated Installation >20' To 25', Add	16.15	
For Elevated Installation >25' To 30', Add	22.60	
For Elevated Installation >30' To 35', Add	25.83	
For Elevated Installation >35' To 40', Add	32.29	
For Elevated Installation >40', Add	35.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.37	
26 05 33 13-2531 EA 1-1/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	113.02	29.52
For Work In Restricted Working Space, Add	21.86	
For Elevated Installation >10' To 15', Add	7.29	
For Elevated Installation >15' To 20', Add	14.57	
For Elevated Installation >20' To 25', Add	18.22	
For Elevated Installation >25' To 30', Add	25.50	
For Elevated Installation >30' To 35', Add	29.15	
For Elevated Installation >35' To 40', Add	36.44	
For Elevated Installation >40', Add	40.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.86	
26 05 33 13-2532 EA 1-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	129.43	32.47
For Work In Restricted Working Space, Add	24.35	
For Elevated Installation >10' To 15', Add	8.12	
For Elevated Installation >15' To 20', Add	16.24	
For Elevated Installation >20' To 25', Add	20.30	
For Elevated Installation >25' To 30', Add	28.41	
For Elevated Installation >30' To 35', Add	32.47	
For Elevated Installation >35' To 40', Add	40.59	
For Elevated Installation >40', Add	44.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.35	
26 05 33 13-2533 EA 2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	170.60	38.01
For Work In Restricted Working Space, Add	28.50	
For Elevated Installation >10' To 15', Add	9.50	
For Elevated Installation >15' To 20', Add	19.00	
For Elevated Installation >20' To 25', Add	23.75	
For Elevated Installation >25' To 30', Add	33.25	
For Elevated Installation >30' To 35', Add	38.00	
For Elevated Installation >35' To 40', Add	47.51	
For Elevated Installation >40', Add	52.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.50	
26 05 33 13-2534 EA 2-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	217.67	55.35
For Work In Restricted Working Space, Add	41.51	
For Elevated Installation >10' To 15', Add	13.84	
For Elevated Installation >15' To 20', Add	27.67	
For Elevated Installation >20' To 25', Add	34.59	
For Elevated Installation >25' To 30', Add	48.43	
For Elevated Installation >30' To 35', Add	55.35	
For Elevated Installation >35' To 40', Add	69.19	
For Elevated Installation >40', Add	76.10	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.51	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2535	EA	3" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	311.66	71.95
			<i>For Work In Restricted Working Space, Add</i>	53.96	
			<i>For Elevated Installation >10' To 15', Add</i>	17.99	
			<i>For Elevated Installation >15' To 20', Add</i>	35.98	
			<i>For Elevated Installation >20' To 25', Add</i>	44.97	
			<i>For Elevated Installation >25' To 30', Add</i>	62.96	
			<i>For Elevated Installation >30' To 35', Add</i>	71.95	
			<i>For Elevated Installation >35' To 40', Add</i>	89.94	
			<i>For Elevated Installation >40', Add</i>	98.93	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.96	
26 05 33	13-2536	EA	3-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	536.70	88.56
			<i>For Work In Restricted Working Space, Add</i>	66.42	
			<i>For Elevated Installation >10' To 15', Add</i>	22.14	
			<i>For Elevated Installation >15' To 20', Add</i>	44.28	
			<i>For Elevated Installation >20' To 25', Add</i>	55.35	
			<i>For Elevated Installation >25' To 30', Add</i>	77.49	
			<i>For Elevated Installation >30' To 35', Add</i>	88.56	
			<i>For Elevated Installation >35' To 40', Add</i>	110.70	
			<i>For Elevated Installation >40', Add</i>	121.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66.42	
26 05 33	13-2537	EA	4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	622.00	106.64
			<i>For Work In Restricted Working Space, Add</i>	80.26	
			<i>For Elevated Installation >10' To 15', Add</i>	26.75	
			<i>For Elevated Installation >15' To 20', Add</i>	53.50	
			<i>For Elevated Installation >20' To 25', Add</i>	66.88	
			<i>For Elevated Installation >25' To 30', Add</i>	93.63	
			<i>For Elevated Installation >30' To 35', Add</i>	107.01	
			<i>For Elevated Installation >35' To 40', Add</i>	133.76	
			<i>For Elevated Installation >40', Add</i>	147.14	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	80.26	
26 05 33	13-2538		Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover <small>(26 05 33 13-2534)</small>		
26 05 33	13-2539	EA	1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover	53.31	17.71
			<i>For Work In Restricted Working Space, Add</i>	13.28	
			<i>For Elevated Installation >10' To 15', Add</i>	4.43	
			<i>For Elevated Installation >15' To 20', Add</i>	8.86	
			<i>For Elevated Installation >20' To 25', Add</i>	11.07	
			<i>For Elevated Installation >25' To 30', Add</i>	15.50	
			<i>For Elevated Installation >30' To 35', Add</i>	17.71	
			<i>For Elevated Installation >35' To 40', Add</i>	22.14	
			<i>For Elevated Installation >40', Add</i>	24.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.28	
26 05 33	13-2540	EA	3/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover	64.27	20.29
			<i>For Work In Restricted Working Space, Add</i>	15.22	
			<i>For Elevated Installation >10' To 15', Add</i>	5.07	
			<i>For Elevated Installation >15' To 20', Add</i>	10.15	
			<i>For Elevated Installation >20' To 25', Add</i>	12.68	
			<i>For Elevated Installation >25' To 30', Add</i>	17.76	
			<i>For Elevated Installation >30' To 35', Add</i>	20.29	
			<i>For Elevated Installation >35' To 40', Add</i>	25.37	
			<i>For Elevated Installation >40', Add</i>	27.90	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.22	
26 05 33	13-2541	EA	1" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover	75.07	23.25
			<i>For Work In Restricted Working Space, Add</i>	17.44	
			<i>For Elevated Installation >10' To 15', Add</i>	5.81	
			<i>For Elevated Installation >15' To 20', Add</i>	11.62	
			<i>For Elevated Installation >20' To 25', Add</i>	14.53	
			<i>For Elevated Installation >25' To 30', Add</i>	20.34	
			<i>For Elevated Installation >30' To 35', Add</i>	23.25	
			<i>For Elevated Installation >35' To 40', Add</i>	29.06	
			<i>For Elevated Installation >40', Add</i>	31.97	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.44	
26 05 33	13-2542	EA	1-1/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover	100.31	26.93
			<i>For Work In Restricted Working Space, Add</i>	20.21	
			<i>For Elevated Installation >10' To 15', Add</i>	6.74	
			<i>For Elevated Installation >15' To 20', Add</i>	13.47	
			<i>For Elevated Installation >20' To 25', Add</i>	16.84	
			<i>For Elevated Installation >25' To 30', Add</i>	23.57	
			<i>For Elevated Installation >30' To 35', Add</i>	26.94	
			<i>For Elevated Installation >35' To 40', Add</i>	33.68	
			<i>For Elevated Installation >40', Add</i>	37.04	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.21	
26 05 33	13-2543	EA	1-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover	116.72	29.52
			<i>For Work In Restricted Working Space, Add</i>	22.14	
			<i>For Elevated Installation >10' To 15', Add</i>	7.38	
			<i>For Elevated Installation >15' To 20', Add</i>	14.76	
			<i>For Elevated Installation >20' To 25', Add</i>	18.45	
			<i>For Elevated Installation >25' To 30', Add</i>	25.83	
			<i>For Elevated Installation >30' To 35', Add</i>	29.52	
			<i>For Elevated Installation >35' To 40', Add</i>	36.90	
			<i>For Elevated Installation >40', Add</i>	40.58	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2544 EA 2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover	150.35	35.42
For Work In Restricted Working Space, Add	26.57	
For Elevated Installation >10' To 15', Add	8.86	
For Elevated Installation >15' To 20', Add	17.71	
For Elevated Installation >20' To 25', Add	22.14	
For Elevated Installation >25' To 30', Add	31.00	
For Elevated Installation >30' To 35', Add	35.42	
For Elevated Installation >35' To 40', Add	44.28	
For Elevated Installation >40', Add	48.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.57	
26 05 33 13-2545 EA 2-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover	339.71	93.44
For Work In Restricted Working Space, Add	70.05	
For Elevated Installation >10' To 15', Add	23.35	
For Elevated Installation >15' To 20', Add	46.70	
For Elevated Installation >20' To 25', Add	58.38	
For Elevated Installation >25' To 30', Add	81.73	
For Elevated Installation >30' To 35', Add	93.40	
For Elevated Installation >35' To 40', Add	116.76	
For Elevated Installation >40', Add	128.43	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	70.05	
26 05 33 13-2546 EA 3" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover	317.82	66.42
For Work In Restricted Working Space, Add	49.82	
For Elevated Installation >10' To 15', Add	16.61	
For Elevated Installation >15' To 20', Add	33.21	
For Elevated Installation >20' To 25', Add	41.51	
For Elevated Installation >25' To 30', Add	58.12	
For Elevated Installation >30' To 35', Add	66.42	
For Elevated Installation >35' To 40', Add	83.03	
For Elevated Installation >40', Add	91.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.82	
26 05 33 13-2547 EA 3-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover	508.52	83.02
For Work In Restricted Working Space, Add	62.27	
For Elevated Installation >10' To 15', Add	20.76	
For Elevated Installation >15' To 20', Add	41.51	
For Elevated Installation >20' To 25', Add	51.89	
For Elevated Installation >25' To 30', Add	72.64	
For Elevated Installation >30' To 35', Add	83.02	
For Elevated Installation >35' To 40', Add	103.78	
For Elevated Installation >40', Add	114.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.27	
26 05 33 13-2548 EA 4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover	594.83	101.10
For Work In Restricted Working Space, Add	75.82	
For Elevated Installation >10' To 15', Add	25.27	
For Elevated Installation >15' To 20', Add	50.55	
For Elevated Installation >20' To 25', Add	63.19	
For Elevated Installation >25' To 30', Add	88.46	
For Elevated Installation >30' To 35', Add	101.10	
For Elevated Installation >35' To 40', Add	126.37	
For Elevated Installation >40', Add	139.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.82	
26 05 33 13-2549 Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover <small>(26 05 33 13-2504)</small>		
26 05 33 13-2550 EA 1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	74.36	23.25
For Work In Restricted Working Space, Add	17.44	
For Elevated Installation >10' To 15', Add	5.81	
For Elevated Installation >15' To 20', Add	11.62	
For Elevated Installation >20' To 25', Add	14.53	
For Elevated Installation >25' To 30', Add	20.34	
For Elevated Installation >30' To 35', Add	23.25	
For Elevated Installation >35' To 40', Add	29.06	
For Elevated Installation >40', Add	31.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.44	
26 05 33 13-2551 EA 3/4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	81.43	25.83
For Work In Restricted Working Space, Add	19.37	
For Elevated Installation >10' To 15', Add	6.46	
For Elevated Installation >15' To 20', Add	12.92	
For Elevated Installation >20' To 25', Add	16.15	
For Elevated Installation >25' To 30', Add	22.60	
For Elevated Installation >30' To 35', Add	25.83	
For Elevated Installation >35' To 40', Add	32.29	
For Elevated Installation >40', Add	35.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.37	
26 05 33 13-2552 EA 1" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	94.15	28.42
For Work In Restricted Working Space, Add	21.31	
For Elevated Installation >10' To 15', Add	7.10	
For Elevated Installation >15' To 20', Add	14.21	
For Elevated Installation >20' To 25', Add	17.76	
For Elevated Installation >25' To 30', Add	24.86	
For Elevated Installation >30' To 35', Add	28.41	
For Elevated Installation >35' To 40', Add	35.52	
For Elevated Installation >40', Add	39.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.31	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2553	EA	1-1/4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	111.71	32.47
			<i>For Work In Restricted Working Space, Add</i>	24.35	
			<i>For Elevated Installation >10' To 15', Add</i>	8.12	
			<i>For Elevated Installation >15' To 20', Add</i>	16.24	
			<i>For Elevated Installation >20' To 25', Add</i>	20.30	
			<i>For Elevated Installation >25' To 30', Add</i>	28.41	
			<i>For Elevated Installation >30' To 35', Add</i>	32.47	
			<i>For Elevated Installation >35' To 40', Add</i>	40.59	
			<i>For Elevated Installation >40', Add</i>	44.65	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.35	
26 05 33	13-2554	EA	1-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	128.39	35.42
			<i>For Work In Restricted Working Space, Add</i>	26.57	
			<i>For Elevated Installation >10' To 15', Add</i>	8.86	
			<i>For Elevated Installation >15' To 20', Add</i>	17.71	
			<i>For Elevated Installation >20' To 25', Add</i>	22.14	
			<i>For Elevated Installation >25' To 30', Add</i>	31.00	
			<i>For Elevated Installation >30' To 35', Add</i>	35.42	
			<i>For Elevated Installation >35' To 40', Add</i>	44.28	
			<i>For Elevated Installation >40', Add</i>	48.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.57	
26 05 33	13-2555	EA	2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	178.20	43.54
			<i>For Work In Restricted Working Space, Add</i>	32.66	
			<i>For Elevated Installation >10' To 15', Add</i>	10.89	
			<i>For Elevated Installation >15' To 20', Add</i>	21.77	
			<i>For Elevated Installation >20' To 25', Add</i>	27.21	
			<i>For Elevated Installation >25' To 30', Add</i>	38.10	
			<i>For Elevated Installation >30' To 35', Add</i>	43.54	
			<i>For Elevated Installation >35' To 40', Add</i>	54.43	
			<i>For Elevated Installation >40', Add</i>	59.87	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.66	
26 05 33	13-2556	EA	2-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	283.40	63.83
			<i>For Work In Restricted Working Space, Add</i>	47.88	
			<i>For Elevated Installation >10' To 15', Add</i>	15.96	
			<i>For Elevated Installation >15' To 20', Add</i>	31.92	
			<i>For Elevated Installation >20' To 25', Add</i>	39.90	
			<i>For Elevated Installation >25' To 30', Add</i>	55.86	
			<i>For Elevated Installation >30' To 35', Add</i>	63.84	
			<i>For Elevated Installation >35' To 40', Add</i>	79.80	
			<i>For Elevated Installation >40', Add</i>	87.77	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47.88	
26 05 33	13-2557	EA	3" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	413.29	83.02
			<i>For Work In Restricted Working Space, Add</i>	62.27	
			<i>For Elevated Installation >10' To 15', Add</i>	20.76	
			<i>For Elevated Installation >15' To 20', Add</i>	41.51	
			<i>For Elevated Installation >20' To 25', Add</i>	51.89	
			<i>For Elevated Installation >25' To 30', Add</i>	72.64	
			<i>For Elevated Installation >30' To 35', Add</i>	83.02	
			<i>For Elevated Installation >35' To 40', Add</i>	103.78	
			<i>For Elevated Installation >40', Add</i>	114.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.27	
26 05 33	13-2558	EA	3-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	612.22	102.58
			<i>For Work In Restricted Working Space, Add</i>	76.93	
			<i>For Elevated Installation >10' To 15', Add</i>	25.64	
			<i>For Elevated Installation >15' To 20', Add</i>	51.29	
			<i>For Elevated Installation >20' To 25', Add</i>	64.11	
			<i>For Elevated Installation >25' To 30', Add</i>	89.75	
			<i>For Elevated Installation >30' To 35', Add</i>	102.58	
			<i>For Elevated Installation >35' To 40', Add</i>	128.22	
			<i>For Elevated Installation >40', Add</i>	141.04	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	76.93	
26 05 33	13-2559	EA	4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	685.85	123.25
			<i>For Work In Restricted Working Space, Add</i>	92.43	
			<i>For Elevated Installation >10' To 15', Add</i>	30.81	
			<i>For Elevated Installation >15' To 20', Add</i>	61.62	
			<i>For Elevated Installation >20' To 25', Add</i>	77.03	
			<i>For Elevated Installation >25' To 30', Add</i>	107.84	
			<i>For Elevated Installation >30' To 35', Add</i>	123.24	
			<i>For Elevated Installation >35' To 40', Add</i>	154.05	
			<i>For Elevated Installation >40', Add</i>	169.46	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.43	
26 05 33	13-2560	EA	1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover.....	25.22	7.01
			<i>For Work In Restricted Working Space, Add</i>	5.26	
			<i>For Elevated Installation >10' To 15', Add</i>	1.75	
			<i>For Elevated Installation >15' To 20', Add</i>	3.50	
			<i>For Elevated Installation >20' To 25', Add</i>	4.38	
			<i>For Elevated Installation >25' To 30', Add</i>	6.13	
			<i>For Elevated Installation >30' To 35', Add</i>	7.01	
			<i>For Elevated Installation >35' To 40', Add</i>	8.76	
			<i>For Elevated Installation >40', Add</i>	9.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.26	
26 05 33	13-2561	EA	1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover.....	25.22	7.01
			<i>For Work In Restricted Working Space, Add</i>	5.26	
			<i>For Elevated Installation >10' To 15', Add</i>	1.75	
			<i>For Elevated Installation >15' To 20', Add</i>	3.50	
			<i>For Elevated Installation >20' To 25', Add</i>	4.38	
			<i>For Elevated Installation >25' To 30', Add</i>	6.13	
			<i>For Elevated Installation >30' To 35', Add</i>	7.01	
			<i>For Elevated Installation >35' To 40', Add</i>	8.76	
			<i>For Elevated Installation >40', Add</i>	9.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.26	



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 33	13-2563	EA 3/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	32.32	9.23
		<i>For Work In Restricted Working Space, Add</i>	6.92	
		<i>For Elevated Installation >10' To 15', Add</i>	2.31	
		<i>For Elevated Installation >15' To 20', Add</i>	4.61	
		<i>For Elevated Installation >20' To 25', Add</i>	5.77	
		<i>For Elevated Installation >25' To 30', Add</i>	8.07	
		<i>For Elevated Installation >30' To 35', Add</i>	9.22	
		<i>For Elevated Installation >35' To 40', Add</i>	11.53	
		<i>For Elevated Installation >40', Add</i>	12.68	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.92	
26 05 33	13-2564	EA 1" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	43.55	11.43
		<i>For Work In Restricted Working Space, Add</i>	8.58	
		<i>For Elevated Installation >10' To 15', Add</i>	2.86	
		<i>For Elevated Installation >15' To 20', Add</i>	5.72	
		<i>For Elevated Installation >20' To 25', Add</i>	7.15	
		<i>For Elevated Installation >25' To 30', Add</i>	10.01	
		<i>For Elevated Installation >30' To 35', Add</i>	11.44	
		<i>For Elevated Installation >35' To 40', Add</i>	14.30	
		<i>For Elevated Installation >40', Add</i>	15.73	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.58	
26 05 33	13-2565	EA 1-1/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	56.32	14.02
		<i>For Work In Restricted Working Space, Add</i>	10.52	
		<i>For Elevated Installation >10' To 15', Add</i>	3.51	
		<i>For Elevated Installation >15' To 20', Add</i>	7.01	
		<i>For Elevated Installation >20' To 25', Add</i>	8.77	
		<i>For Elevated Installation >25' To 30', Add</i>	12.27	
		<i>For Elevated Installation >30' To 35', Add</i>	14.02	
		<i>For Elevated Installation >35' To 40', Add</i>	17.53	
		<i>For Elevated Installation >40', Add</i>	19.28	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.52	
26 05 33	13-2566	EA 1-1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	73.65	16.24
		<i>For Work In Restricted Working Space, Add</i>	12.17	
		<i>For Elevated Installation >10' To 15', Add</i>	4.06	
		<i>For Elevated Installation >15' To 20', Add</i>	8.12	
		<i>For Elevated Installation >20' To 25', Add</i>	10.15	
		<i>For Elevated Installation >25' To 30', Add</i>	14.20	
		<i>For Elevated Installation >30' To 35', Add</i>	16.23	
		<i>For Elevated Installation >35' To 40', Add</i>	20.29	
		<i>For Elevated Installation >40', Add</i>	22.32	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.17	
26 05 33	13-2567	EA 2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	97.02	18.45
		<i>For Work In Restricted Working Space, Add</i>	13.84	
		<i>For Elevated Installation >10' To 15', Add</i>	4.61	
		<i>For Elevated Installation >15' To 20', Add</i>	9.22	
		<i>For Elevated Installation >20' To 25', Add</i>	11.53	
		<i>For Elevated Installation >25' To 30', Add</i>	16.14	
		<i>For Elevated Installation >30' To 35', Add</i>	18.45	
		<i>For Elevated Installation >35' To 40', Add</i>	23.06	
		<i>For Elevated Installation >40', Add</i>	25.37	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.84	
26 05 33	13-2568	Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <small>(26 05 33 13-2560)</small>		
26 05 33	13-2569	EA 1/2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	25.44	7.01
		<i>For Work In Restricted Working Space, Add</i>	5.26	
		<i>For Elevated Installation >10' To 15', Add</i>	1.75	
		<i>For Elevated Installation >15' To 20', Add</i>	3.50	
		<i>For Elevated Installation >20' To 25', Add</i>	4.38	
		<i>For Elevated Installation >25' To 30', Add</i>	6.13	
		<i>For Elevated Installation >30' To 35', Add</i>	7.01	
		<i>For Elevated Installation >35' To 40', Add</i>	8.76	
		<i>For Elevated Installation >40', Add</i>	9.64	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.26	
26 05 33	13-2570	EA 3/4" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	33.13	9.23
		<i>For Work In Restricted Working Space, Add</i>	6.92	
		<i>For Elevated Installation >10' To 15', Add</i>	2.31	
		<i>For Elevated Installation >15' To 20', Add</i>	4.61	
		<i>For Elevated Installation >20' To 25', Add</i>	5.77	
		<i>For Elevated Installation >25' To 30', Add</i>	8.07	
		<i>For Elevated Installation >30' To 35', Add</i>	9.22	
		<i>For Elevated Installation >35' To 40', Add</i>	11.53	
		<i>For Elevated Installation >40', Add</i>	12.68	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.92	
26 05 33	13-2571	EA 1" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	40.72	11.43
		<i>For Work In Restricted Working Space, Add</i>	8.58	
		<i>For Elevated Installation >10' To 15', Add</i>	2.86	
		<i>For Elevated Installation >15' To 20', Add</i>	5.72	
		<i>For Elevated Installation >20' To 25', Add</i>	7.15	
		<i>For Elevated Installation >25' To 30', Add</i>	10.01	
		<i>For Elevated Installation >30' To 35', Add</i>	11.44	
		<i>For Elevated Installation >35' To 40', Add</i>	14.30	
		<i>For Elevated Installation >40', Add</i>	15.73	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.58	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2572	EA	1-1/4" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56.08 10.52 3.51 7.01 8.77 12.27 14.02 17.53 19.28 10.52	14.02
26 05 33	13-2573	EA	1-1/2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68.95 12.17 4.06 8.12 10.15 14.20 16.23 20.29 22.32 12.17	16.24
26 05 33	13-2574	EA	2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	96.61 13.84 4.61 9.22 11.53 16.14 18.45 23.06 25.37 13.84	18.45
26 05 33 13-2575 Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover ⁽²⁶⁾					
26 05 33	13-2576	EA	^{05 33 13-2560} 1/2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.76 6.92 2.31 4.61 5.77 8.07 9.22 11.53 12.68 6.92	9.23
26 05 33	13-2577	EA	3/4" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.58 8.58 2.86 5.72 7.15 10.01 11.44 14.30 15.73 8.58	11.43
26 05 33	13-2578	EA	1" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.40 10.52 3.51 7.01 8.77 12.27 14.02 17.53 19.28 10.52	14.02
26 05 33	13-2579	EA	1-1/4" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	70.64 12.73 4.24 8.49 10.61 14.85 16.97 21.22 23.34 12.73	16.24
26 05 33	13-2580	EA	1-1/2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	90.24 14.94 4.98 9.96 12.45 17.43 19.92 24.91 27.40 14.94	18.45



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2581 EA 2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.72 17.16 5.72 11.44 14.30 20.02 22.88 28.60 31.45 17.16	20.66
26 05 33 13-2582 Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <small>(26 05 33 13-2560)</small>		
26 05 33 13-2583 EA 1/2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.13 5.26 1.75 3.50 4.38 6.13 7.01 8.76 9.64 5.26	7.01
26 05 33 13-2584 EA 3/4" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.94 6.92 2.31 4.61 5.77 8.07 9.22 11.53 12.68 6.92	9.23
26 05 33 13-2585 EA 1" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.57 8.58 2.86 5.72 7.15 10.01 11.44 14.30 15.73 8.58	11.43
26 05 33 13-2586 EA 1-1/4" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.55 10.52 3.51 7.01 8.77 12.27 14.02 17.53 19.28 10.52	14.02
26 05 33 13-2587 EA 1-1/2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.79 12.17 4.06 8.12 10.15 14.20 16.23 20.29 22.32 12.17	16.24
26 05 33 13-2588 EA 2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	104.46 13.84 4.61 9.22 11.53 16.14 18.45 23.06 25.37 13.84	18.45
26 05 33 13-2589 Aluminum Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways) <small>(26 05 33 13-2447)</small>		
26 05 33 13-2590 EA 3/4" To 1-1/4" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB120)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.29 15.17	20.20
26 05 33 13-2591 EA 1-1/2" To 2-1/2" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB250) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	436.32 28.03	37.36
26 05 33 13-2592 EA 3" To 4" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB400)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	840.67 56.87	75.83

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 05 33 13-2593	Replacement Covers And Gaskets For Conduit Body (26 05 33 13-2447)			
26 05 33 13-2594	Replacement Stamped Aluminum Conduit Body Cover (26 05 33 13-2593)			
26 05 33 13-2595	EA	1/2" Replacement Stamped Aluminum Conduit Body Cover.....	9.36	3.60
26 05 33 13-2596	EA	3/4" Replacement Stamped Aluminum Conduit Body Cover.....	11.43	4.19
26 05 33 13-2597	EA	1" Replacement Stamped Aluminum Conduit Body Cover.....	14.64	5.40
26 05 33 13-2598	EA	1-1/4" Replacement Stamped Aluminum Conduit Body Cover.....	17.82	6.60
26 05 33 13-2599	EA	1-1/2" Replacement Stamped Aluminum Conduit Body Cover.....	21.86	7.79
26 05 33 13-2600	EA	2" Replacement Stamped Aluminum Conduit Body Cover.....	25.89	9.00
26 05 33 13-2601	EA	2-1/2" Replacement Stamped Aluminum Conduit Body Cover.....	34.05	10.19
26 05 33 13-2602	EA	3" Replacement Stamped Aluminum Conduit Body Cover.....	44.23	14.39
26 05 33 13-2603	EA	3-1/2" Replacement Stamped Aluminum Conduit Body Cover.....	48.03	16.19
26 05 33 13-2604	EA	4" Replacement Stamped Aluminum Conduit Body Cover.....	60.50	20.38
26 05 33 13-2605	Replacement Cast Steel Conduit Body Cover (26 05 33 13-2593)			
26 05 33 13-2606	EA	1/2" Replacement Cast Steel Conduit Body Cover.....	10.84	3.60
26 05 33 13-2607	EA	3/4" Replacement Cast Steel Conduit Body Cover.....	12.72	4.19
26 05 33 13-2608	EA	1" Replacement Cast Steel Conduit Body Cover.....	17.81	5.40
26 05 33 13-2609	EA	1-1/4" Replacement Cast Steel Conduit Body Cover.....	22.12	6.60
26 05 33 13-2610	EA	1-1/2" Replacement Cast Steel Conduit Body Cover.....	26.87	7.79
26 05 33 13-2611	EA	2" Replacement Cast Steel Conduit Body Cover.....	31.61	9.00
26 05 33 13-2612	EA	2-1/2" Replacement Cast Steel Conduit Body Cover.....	36.33	10.19
26 05 33 13-2613	EA	3" Replacement Cast Steel Conduit Body Cover.....	49.60	14.39
26 05 33 13-2614	EA	3-1/2" Replacement Cast Steel Conduit Body Cover.....	56.50	16.19
26 05 33 13-2615	EA	4" Replacement Cast Steel Conduit Body Cover.....	71.20	20.38
26 05 33 13-2616	Replacement Velbuna Composition Conduit Body Gasket (26 05 33 13-2593)			
26 05 33 13-2617	EA	1/2" Replacement Velbuna Composition Conduit Body Gasket.....	8.70	3.60
26 05 33 13-2618	EA	3/4" Replacement Velbuna Composition Conduit Body Gasket.....	9.95	4.19
26 05 33 13-2619	EA	1" Replacement Velbuna Composition Conduit Body Gasket.....	12.99	5.40
26 05 33 13-2620	EA	1-1/4" Replacement Velbuna Composition Conduit Body Gasket.....	16.83	6.60
26 05 33 13-2621	EA	1-1/2" Replacement Velbuna Composition Conduit Body Gasket.....	19.23	7.79
26 05 33 13-2622	EA	2" Replacement Velbuna Composition Conduit Body Gasket.....	22.83	9.00
26 05 33 13-2623	EA	2-1/2" Replacement Velbuna Composition Conduit Body Gasket.....	29.88	10.19
26 05 33 13-2624	EA	3" Replacement Velbuna Composition Conduit Body Gasket.....	39.02	14.39
26 05 33 13-2625	EA	3-1/2" Replacement Velbuna Composition Conduit Body Gasket.....	43.10	16.19
26 05 33 13-2626	EA	4" Replacement Velbuna Composition Conduit Body Gasket.....	51.39	20.38
26 05 33 13-2627	Replacement Neoprene Conduit Body Gasket (26 05 33 13-2593)			
26 05 33 13-2628	EA	1/2" Replacement Neoprene Conduit Body Gasket.....	9.72	3.60
26 05 33 13-2629	EA	3/4" Replacement Neoprene Conduit Body Gasket.....	10.93	4.19
26 05 33 13-2630	EA	1" Replacement Neoprene Conduit Body Gasket.....	14.27	5.40
26 05 33 13-2631	EA	1-1/4" Replacement Neoprene Conduit Body Gasket.....	17.48	6.60
26 05 33 13-2632	EA	1-1/2" Replacement Neoprene Conduit Body Gasket.....	19.88	7.79
26 05 33 13-2633	EA	2" Replacement Neoprene Conduit Body Gasket.....	22.90	9.00
26 05 33 13-2634	EA	2-1/2" Replacement Neoprene Conduit Body Gasket.....	30.04	10.19
26 05 33 13-2635	EA	3" Replacement Neoprene Conduit Body Gasket.....	39.18	14.39
26 05 33 13-2636	EA	3-1/2" Replacement Neoprene Conduit Body Gasket.....	44.20	16.19
26 05 33 13-2637	EA	4" Replacement Neoprene Conduit Body Gasket.....	52.49	20.38
26 05 33 16	Boxes for Electrical Systems (26 05 33)			
See CSI section 26 27 16 00-0000 for larger junction boxes and enclosures.				
26 05 33 16-0001	Steel Junction, Device, And Fixture Boxes, Rings And Covers (26 05 33 16)			
Note: Thin wall metal. See CSI section 26 27 26 00-0003 for steel box/receptacle assemblies, 26 27 26 00-0128 for steel box/switch assemblies.				
26 05 33 16-0002	4" Square Steel Boxes, Rings And Covers (26 05 33 16-0001)			
26 05 33 16-0003	EA	1-1/2" Depth, 4" Square Steel Box.....	33.49	15.15
		<i>For Stud Bracket, Add</i>	0.79	
26 05 33 16-0004	EA	2-1/8" Depth, 4" Square Steel Box.....	34.94	15.15
		<i>For Stud Bracket, Add</i>	1.41	
26 05 33 16-0005	EA	3-1/2" Depth, 4" Square Steel Box.....	39.93	15.15
		<i>For Stud Bracket, Add</i>	1.54	
26 05 33 16-0006	EA	1-1/2" Depth, 4" Square Steel Extension Ring.....	27.30	10.10
26 05 33 16-0007	EA	2-1/8" Depth, 4" Square Steel Extension Ring.....	22.25	10.10
26 05 33 16-0008	EA	1/2" Depth, 1 Gang, 4" Square Steel Mud Ring.....	11.62	5.05
26 05 33 16-0009	EA	5/8" Depth, 1 Gang, 4" Square Steel Mud Ring.....	11.86	5.05
26 05 33 16-0010	EA	3/4" Depth, 1 Gang, 4" Square Steel Mud Ring.....	12.02	5.05
26 05 33 16-0011	EA	1" Depth, 1 Gang, 4" Square Steel Mud Ring.....	12.56	5.05
26 05 33 16-0012	EA	1-1/4" Depth, 1 Gang, 4" Square Steel Mud Ring.....	12.72	5.05
26 05 33 16-0013	EA	1-1/2" Depth, 1 Gang, 4" Square Steel Mud Ring.....	14.45	5.05
26 05 33 16-0014	EA	1/2" Depth, 2 Gang, 4" Square Steel Mud Ring.....	12.28	5.05
26 05 33 16-0015	EA	5/8" Depth, 2 Gang, 4" Square Steel Mud Ring.....	12.44	5.05
26 05 33 16-0016	EA	3/4" Depth, 2 Gang, 4" Square Steel Mud Ring.....	12.65	5.05
26 05 33 16-0017	EA	1" Depth, 2 Gang, 4" Square Steel Mud Ring.....	14.42	5.05
26 05 33 16-0018	EA	1-1/4" Depth, 2 Gang, 4" Square Steel Mud Ring.....	14.78	5.05



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0019 EA 1-1/2" Depth, 2 Gang, 4" Square Steel Mud Ring	17.02	5.05
26 05 33 16-0020 EA 3/4" Depth, Fixture Cover, 4" Square Mud Rings	13.14	5.05
26 05 33 16-0021 EA 1" Depth, Fixture Cover, 4" Square Mud Rings	14.57	5.05
26 05 33 16-0022 EA One Toggle Switch, 4" Square Steel Exposed Work Cover	12.25	5.05
26 05 33 16-0023 EA Two Toggle Switches, 4" Square Steel Exposed Work Cover	12.39	5.05
26 05 33 16-0024 EA One Duplex Receptacle, 4" Square Steel Exposed Work Cover	12.22	5.05
26 05 33 16-0025 EA Two Duplex Receptacles, 4" Square Steel Exposed Work Cover	12.60	5.05
26 05 33 16-0026 EA One Toggle Switch And One Duplex Receptacle, 4" Square Steel Exposed Work Cover	12.92	5.05
26 05 33 16-0027 EA One Toggle Switch And One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover	16.88	5.05
26 05 33 16-0028 EA One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover	12.86	5.05
26 05 33 16-0029 EA Two 1.406" Diameter Receptacles, 4" Square Steel Exposed Work Cover	16.88	5.05
26 05 33 16-0030 EA One 1.620" Diameter Receptacle, 4" Square Steel Exposed Work Cover	12.86	5.05
26 05 33 16-0031 EA One 1.719" Diameter Receptacle, 4" Square Steel Exposed Work Cover	13.79	5.05
26 05 33 16-0032 EA One 2.165" Diameter Receptacle, 4" Square Steel Exposed Work Cover	16.88	5.05
26 05 33 16-0033 EA One 2.480" Diameter Receptacle, 4" Square Steel Exposed Work Cover	16.88	5.05
26 05 33 16-0034 EA Flat, 4" Square Steel Exposed Work Cover	11.12	5.05
26 05 33 16-0035 4-11/16" Square Steel Boxes, Rings And Covers <small>(26 05 33 16-0001)</small>		
26 05 33 16-0036 EA 1-1/2" Depth, 4-11/16" Square Steel Box.....	38.86	15.15
26 05 33 16-0037 EA 2-1/8" Depth, 4-11/16" Square Steel Box.....	35.58	15.15
<i>For Stud Bracket, Add</i>		
<i>0.74</i>		
26 05 33 16-0038 EA 3-1/4" Depth, 4-11/16" Square Steel Box.....	52.08	15.15
26 05 33 16-0039 EA 1-1/2" Depth, 4-11/16" Square Extension Ring	28.67	10.10
26 05 33 16-0040 EA 2-1/8" Depth, 4-11/16" Square Extension Ring	29.48	10.10
26 05 33 16-0041 EA 1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring	14.91	5.05
26 05 33 16-0042 EA 5/8" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring	14.95	5.05
26 05 33 16-0043 EA 3/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring	16.35	5.05
26 05 33 16-0044 EA 1" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring	15.79	5.05
26 05 33 16-0045 EA 1-1/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring	15.66	5.05
26 05 33 16-0046 EA 1-1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring	21.49	5.05
26 05 33 16-0047 EA 1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring	16.03	5.05
26 05 33 16-0048 EA 5/8" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring	16.33	5.05
26 05 33 16-0049 EA 3/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring	16.35	5.05
26 05 33 16-0050 EA 1" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring	18.41	5.05
26 05 33 16-0051 EA 1-1/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring	18.84	5.05
26 05 33 16-0052 EA 1-1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring	23.83	5.05
26 05 33 16-0053 EA 1/2" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring	15.75	5.05
26 05 33 16-0054 EA 5/8" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring	15.90	5.05
26 05 33 16-0055 EA One Toggle Switch, 4-11/16" Square Steel Exposed Work Cover	19.77	5.05
26 05 33 16-0056 EA Two Toggle Switches, 4-11/16" Square Steel Exposed Work Cover	20.85	5.05
26 05 33 16-0057 EA One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover	19.45	5.05
26 05 33 16-0058 EA Two Duplex Receptacles, 4-11/16" Square Steel Exposed Work Cover	18.27	5.05
26 05 33 16-0059 EA One Toggle Switch And One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover	22.22	5.05
26 05 33 16-0060 EA One 1.594" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	20.84	5.05
26 05 33 16-0061 EA One 2.141" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover	20.84	5.05
26 05 33 16-0062 EA One 2.625" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover	20.84	5.05
26 05 33 16-0063 EA Flat, 4-11/16" Square Steel Exposed Work Cover	12.01	5.05
26 05 33 16-0064 Steel Square Box Brackets <small>(26 05 33 16-0001)</small>		
26 05 33 16-0065 EA 16" Or 24" Width Box Bracket, For Multiple 1-1/2" And 2-1/8" Deep Boxes	16.65	7.58
26 05 33 16-0066 EA Single Box Bracket, One 4" Or 4-11/16" Square Box	12.39	5.06
26 05 33 16-0067 EA 16" Box Bracket, Up To Three 4" Or 4-11/16" Square Boxes	20.16	7.58
26 05 33 16-0068 EA 24" Box Bracket, Up To Four 4" Or 4-11/16" Square Boxes	21.95	7.58
26 05 33 16-0069 4" Octagon Steel Boxes And Covers <small>(26 05 33 16-0001)</small>		
26 05 33 16-0070 EA 1-1/2" Depth, 4" Steel Octagon Box	27.87	12.62
<i>For Stud Bracket, Add</i>		
<i>1.91</i>		
26 05 33 16-0071 EA 2-1/8" Depth, 4" Steel Octagon Box	29.14	12.62
26 05 33 16-0072 EA Flat, 4" Octagon Steel Exposed Work Cover	11.04	5.05
26 05 33 16-0073 4" Steel Octagonal Concrete Rings And Steel Covers <small>(26 05 33 16-0001)</small>		
<i>Note: Placed in concrete slabs or walls.</i>		
26 05 33 16-0074 EA 2" Depth, 4" Steel Octagonal Concrete Ring	46.15	
26 05 33 16-0075 EA 2-1/2" Depth, 4" Steel Octagonal Concrete Ring	49.10	
26 05 33 16-0076 EA 3" Depth, 4" Steel Octagonal Concrete Ring	51.36	
26 05 33 16-0077 EA 3-1/2" Depth, 4" Steel Octagonal Concrete Ring	53.55	
26 05 33 16-0078 EA 4" Depth, 4" Steel Octagonal Concrete Ring	59.07	
26 05 33 16-0079 EA 5" Depth, 4" Steel Octagonal Concrete Ring	64.82	
26 05 33 16-0080 EA 6" Depth, 4" Steel Octagonal Concrete Ring	69.16	
26 05 33 16-0081 EA Flat, 4" Steel Octagonal Concrete Cover	12.79	5.05
26 05 33 16-0082 4-1/2" Steel Gang Boxes <small>(26 05 33 16-0001)</small>		
26 05 33 16-0083 EA 2 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	45.87	12.62
26 05 33 16-0084 EA 3 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	50.50	13.64
26 05 33 16-0085 EA 4 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	61.40	15.15

26 Electrical
26 05 Common Work Results for Electrical
26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	16-0086	EA	5 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	81.83	16.66
26 05 33	16-0087	EA	6 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	124.92	18.18
26 05 33	16-0088	EA	2 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....	65.49	12.62
26 05 33	16-0089	EA	3 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....	71.41	13.64
26 05 33	16-0090	EA	4 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....	96.71	15.15
26 05 33	16-0091	EA	5 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....	125.75	16.66
26 05 33	16-0092	EA	6 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....	211.74	18.18
26 05 33	16-0093	EA	2 Device, Gang Box Mud Ring.....	20.31	5.05
26 05 33	16-0094	EA	3 Device, Gang Box Mud Ring.....	20.64	5.05
26 05 33	16-0095	EA	4 Device, Gang Box Mud Ring.....	24.42	5.05
26 05 33	16-0096	EA	5 Device, Gang Box Mud Ring.....	30.92	5.05
26 05 33	16-0097	EA	6 Device, Gang Box Mud Ring.....	45.18	5.05
26 05 33	16-0098	EA	2 Device, Gang Box Flat Cover.....	17.06	5.05
26 05 33	16-0099	EA	3 Device, Gang Box Flat Cover.....	20.60	5.05
26 05 33	16-0100	EA	4 Device, Gang Box Flat Cover.....	25.30	5.05
26 05 33	16-0101	EA	5 Device, Gang Box Flat Cover.....	31.29	5.05
26 05 33	16-0102	EA	6 Device, Gang Box Flat Cover.....	46.19	5.05
26 05 33	16-0103		Steel Switch Boxes (26 05 33 16-0001)		
26 05 33	16-0104	EA	2-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box.....	30.32	12.62
26 05 33	16-0105	EA	2-3/4" Depth, 3" x 2", Stud Bracket, Steel Switch Box.....	30.86	12.62
26 05 33	16-0106	EA	3-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box.....	33.70	12.62
26 05 33	16-0107	EA	2-1/2" Depth, 2 Device, Stud Bracket, Steel Box.....	40.07	12.62
26 05 33	16-0108	EA	2-1/2" Depth, 3 Device, Stud Bracket, Steel Box.....	40.62	12.62
26 05 33	16-0109	EA	2-1/2" Depth, 4 Device, Stud Bracket, Steel Box.....	49.25	12.62
26 05 33	16-0110		4" x 2" Steel Handy Boxes, Extension Rings And Covers (26 05 33 16-0001)		
26 05 33	16-0111	EA	1-1/2" Deep, 4" x 2" Steel Handy Box.....	27.73	12.62
			For Stud Bracket, Add	3.07	
26 05 33	16-0112	EA	1-7/8" Deep, 4" x 2" Steel Handy Box.....	28.32	12.62
			For Stud Bracket, Add	1.32	
26 05 33	16-0113	EA	2-1/8" Deep, 4" x 2" Steel Handy Box.....	29.62	12.62
			For Stud Bracket, Add	1.80	
26 05 33	16-0114	EA	1-1/2" Deep, 4" x 2" Steel Handy Box Extension Ring.....	18.71	7.57
26 05 33	16-0115	EA	1-7/8" Deep, 4" x 2" Steel Handy Box Extension Ring.....	18.12	7.57
26 05 33	16-0116	EA	GFI Receptacle, 2" x 4" Steel Handy Box Exposed Work Cover.....	6.34	2.53
26 05 33	16-0117	EA	1.406" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover.....	6.45	2.53
26 05 33	16-0118	EA	Duplex Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover.....	5.89	2.53
26 05 33	16-0119	EA	Toggle Switch, 4" x 2" Steel Handy Box Exposed Work Cover.....	5.93	2.53
26 05 33	16-0120	EA	1.594" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover.....	7.05	2.53
26 05 33	16-0121	EA	Flat, 2" x 4" Steel Handy Box Exposed Work Cover.....	5.93	2.53
26 05 33	16-0122		3"-1/2" Depth, 3-3/4" Steel Masonry Boxes (26 05 33 16-0001)		
26 05 33	16-0123	EA	1 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box.....	42.24	17.67
26 05 33	16-0124	EA	2 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box.....	47.77	18.68
26 05 33	16-0125	EA	3 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box.....	55.34	20.19
26 05 33	16-0126	EA	4 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box.....	63.40	22.22
26 05 33	16-0127		Cast Boxes (26 05 33 16)		
			Note: For flush or surface mount.		
26 05 33	16-0128		Cast Iron Alloy Boxes (26 05 33 16-0127)		
			See CSI section 26 27 26 00-0265 for box covers.		
26 05 33	16-0129		Shallow, Single Gang Cast Iron Alloy Boxes (26 05 33 16-0128)		
			Note: Up to 2" deep boxes.		
26 05 33	16-0130	EA	1/2" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....	85.24	30.29
			Note: One hub.		
26 05 33	16-0131	EA	3/4" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....	92.12	35.34
			Note: One hub.		
26 05 33	16-0132	EA	1" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....	108.61	42.91
			Note: One hub.		
26 05 33	16-0133	EA	1/2" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box.....	106.80	40.40
			Note: Two hub.		
26 05 33	16-0134	EA	3/4" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box.....	136.14	47.97
			Note: Two hub.		
26 05 33	16-0135	EA	1/2" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box.....	106.38	40.40
			Note: Two hub.		
26 05 33	16-0136	EA	3/4" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box.....	127.86	47.97
			Note: Two hubs.		
26 05 33	16-0137	EA	1/2" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box.....	109.04	40.40
			Note: Two hubs.		
26 05 33	16-0138	EA	3/4" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box.....	127.90	47.97
			Note: Two hubs.		
26 05 33	16-0139	EA	1/2" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box.....	106.38	40.40
			Note: Two hubs.		
26 05 33	16-0140	EA	3/4" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box.....	124.62	47.97
			Note: Two hubs.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0141 EA 1/2" Depth, Type FSCA, Shallow, Single Gang Cast Iron Alloy Box Note: Three hubs.	127.01	50.49
26 05 33 16-0142 EA 3/4" Depth, Type FSCA, Shallow, Single Gang Cast Iron Alloy Box Note: Three hubs.	150.41	60.59
26 05 33 16-0143 EA 1/2" Depth, Type FSCC, Shallow, Single Gang Cast Iron Alloy Box Note: Three hubs.	132.12	50.49
26 05 33 16-0144 EA 3/4" Depth, Type FSCC, Shallow, Single Gang Cast Iron Alloy Box Note: Three hubs.	169.88	60.59
26 05 33 16-0145 EA 1/2" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box Note: Three hubs.	135.45	50.49
26 05 33 16-0146 EA 3/4" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box Note: Three hubs.	161.88	60.59
26 05 33 16-0147 EA 1/2" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box Note: Three hubs.	126.58	50.49
26 05 33 16-0148 EA 3/4" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box Note: Three hubs.	164.13	60.59
26 05 33 16-0149 EA 1/2" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box Note: Four hubs.	160.95	60.59
26 05 33 16-0150 EA 3/4" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box Note: Four hubs.	194.18	73.21
26 05 33 16-0151 Deep, Single Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: >2" deep boxes.		
26 05 33 16-0152 EA 1/2" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box Note: One hub.	89.00	30.29
26 05 33 16-0153 EA 3/4" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box Note: One hub.	102.55	35.34
26 05 33 16-0154 EA 1" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box Note: One hub.	120.65	42.91
26 05 33 16-0155 EA 1/2" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box Note: Two hubs.	113.67	40.40
26 05 33 16-0156 EA 3/4" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box Note: Two hubs.	131.40	47.97
26 05 33 16-0157 EA 1" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box Note: Two hubs.	157.98	58.06
26 05 33 16-0158 EA 3/4" Depth, Type FDS, Deep, Single Gang Cast Iron Alloy Box Note: Two hubs.	140.77	47.97
26 05 33 16-0159 EA 3/4" Depth, Type FDCC, Deep, Single Gang Cast Iron Alloy Box Note: Three hubs.	180.98	60.59
26 05 33 16-0160 Shallow, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: Up to 2" deep boxes.		
26 05 33 16-0161 EA 1/2" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box Note: One hub.	102.11	32.82
26 05 33 16-0162 EA 3/4" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box Note: One hub.	113.31	37.87
26 05 33 16-0163 EA 1" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box Note: One hub.	131.81	45.44
26 05 33 16-0164 EA 1/2" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box Note: Two hubs.	124.12	42.91
26 05 33 16-0165 EA 3/4" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box Note: Two hubs.	141.19	50.49
26 05 33 16-0166 Deep, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: >2" deep boxes.		
26 05 33 16-0167 EA 1/2" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box Note: One hub.	113.39	32.82
26 05 33 16-0168 EA 3/4" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box Note: One hub.	123.93	37.87
26 05 33 16-0169 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box Note: Two hubs.	141.11	42.91
26 05 33 16-0170 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box Note: Two hubs.	159.14	50.49
26 05 33 16-0171 Cast Aluminum Boxes (26 05 33 16-0127) See CSI section 26 27 26 00-0265 for box covers.		
26 05 33 16-0172 Shallow, Single Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0173 EA 1/2" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box Note: One hub.	75.14	25.25
26 05 33 16-0174 EA 3/4" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box Note: One hub.	86.23	30.29
26 05 33 16-0175 EA 1" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box Note: One hub.	96.34	37.87
26 05 33 16-0176 EA 1/2" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box Note: One hub.	70.76	25.25
26 05 33 16-0177 EA 3/4" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box Note: One hub.	89.31	30.29

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0178 EA 1/2" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	95.77	35.34
26 05 33 16-0179 EA 3/4" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	115.11	42.91
26 05 33 16-0180 EA 1" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	144.34	53.01
26 05 33 16-0181 EA 1/2" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	103.38	35.34
26 05 33 16-0182 EA 3/4" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	111.40	42.91
26 05 33 16-0183 EA 1/2" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	99.05	35.34
26 05 33 16-0184 EA 3/4" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	113.99	42.91
26 05 33 16-0185 EA 1/2" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	96.25	35.34
26 05 33 16-0186 EA 3/4" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	113.99	42.91
26 05 33 16-0187 EA 1/2" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	89.79	35.34
26 05 33 16-0188 EA 3/4" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	120.86	42.91
26 05 33 16-0189 EA 1/2" Depth, Type FSACA, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	114.44	45.44
26 05 33 16-0190 EA 3/4" Depth, Type FSACA, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	139.08	55.54
26 05 33 16-0191 EA 1/2" Depth, Type FSACC, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	121.13	45.44
26 05 33 16-0192 EA 3/4" Depth, Type FSACC, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	162.28	55.54
26 05 33 16-0193 EA 1/2" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	120.57	45.44
26 05 33 16-0194 EA 3/4" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	147.91	55.54
26 05 33 16-0195 EA 3/4" Depth, Type FST, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	149.90	55.54
26 05 33 16-0196 EA 1/2" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box..... Note: Four hubs.	147.04	55.54
26 05 33 16-0197 EA 3/4" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box..... Note: Four hubs.	179.53	68.16
26 05 33 16-0198 Deep, Single Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: >2" deep boxes.		
26 05 33 16-0199 EA 1/2" Depth, Type FD, Deep, Single Gang Cast Aluminum Box..... Note: One hub.	82.91	25.25
26 05 33 16-0200 EA 3/4" Depth, Type FD, Deep, Single Gang Cast Aluminum Box..... Note: One hub.	99.33	30.29
26 05 33 16-0201 EA 1" Depth, Type FD, Deep, Single Gang Cast Aluminum Box..... Note: One hub.	114.36	37.87
26 05 33 16-0202 EA 3/4" Depth, Type FDA, Deep, Single Gang Cast Aluminum Box..... Note: One hub.	106.42	30.29
26 05 33 16-0203 EA 1/2" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box..... Note: Two hubs.	105.81	35.34
26 05 33 16-0204 EA 3/4" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box..... Note: Two hubs.	127.44	42.91
26 05 33 16-0205 EA 1" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box..... Note: Two hubs.	143.18	53.01
26 05 33 16-0206 EA 3/4" Depth, Type FDS, Deep, Single Gang Cast Aluminum Box..... Note: Two hubs.	129.09	42.91
26 05 33 16-0207 EA 3/4" Depth, Type FDCC, Deep, Single Gang Cast Aluminum Box..... Note: Three hubs.	158.26	55.54
26 05 33 16-0208 Shallow, Two Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0209 EA 1/2" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box..... Note: One hub.	98.84	27.77
26 05 33 16-0210 EA 3/4" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box..... Note: One hub.	113.31	32.82
26 05 33 16-0211 EA 1" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box..... Note: One hub.	122.33	40.40
26 05 33 16-0212 EA 1/2" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box..... Note: Two hubs.	123.93	37.87
26 05 33 16-0213 EA 3/4" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box..... Note: Two hubs.	127.27	45.44
26 05 33 16-0214 EA 1" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box..... Note: Two hubs.	157.13	55.54
26 05 33 16-0215 Deep, Two Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: >2" deep boxes.		
26 05 33 16-0216 EA 1/2" Depth, Type FD, Deep, Two Gang Cast Aluminum Box..... Note: One hub.	98.75	27.77



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0217 EA 3/4" Depth, Type FD, Deep, Two Gang Cast Aluminum Box Note: One hub.	114.36	32.82
26 05 33 16-0218 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box..... Note: Two hubs.	126.36	37.87
26 05 33 16-0219 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box..... Note: Two hubs.	143.51	45.44
26 05 33 16-0220 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box..... Note: Two hubs.	126.36	37.87
26 05 33 16-0221 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box..... Note: Two hubs.	143.51	45.44
26 05 33 16-0222 Shallow, Three Gang Cast Aluminum Boxes <small>(26 05 33 16-0171)</small> Note: Up to 2" deep boxes.		
26 05 33 16-0223 EA 1/2" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box Note: Two hubs.	132.70	40.40
26 05 33 16-0224 EA 3/4" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box Note: Two hubs.	149.23	47.97
26 05 33 16-0225 Deep, Three Gang Cast Aluminum Boxes <small>(26 05 33 16-0171)</small> Note: >2" deep boxes.		
26 05 33 16-0226 EA 3/4" Depth, Type FD, Deep, Three Gang Cast Aluminum Box Note: One hub.	149.94	35.34
26 05 33 16-0227 EA 1" Depth, Type FD, Deep, Three Gang Cast Aluminum Box Note: One hub.	167.58	42.91
26 05 33 16-0228 Cast Aluminum Explosion Proof Outlet Bodies <small>(26 05 33 16-0127)</small> Note: Class I, Div. 1 & 2; Class II, Div. 1 & 2; and Class III.		
26 05 33 16-0229 EA 1/2" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body	155.62	40.40
26 05 33 16-0230 EA 3/4" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body	192.34	45.44
26 05 33 16-0231 EA 1" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	176.99	50.49
26 05 33 16-0232 EA 1/2" Depth, Type GRSSA, 13 Opening, Cast Aluminum Explosion Proof Outlet Body	172.54	45.44
26 05 33 16-0233 EA 3/4" Depth, 13 Hubs, Explosion Proof Conduit Outlet Box With Cover Cast Aluminum, Type GRSSA.....	209.80	50.49
26 05 33 16-0234 Non Metallic (PVC) Boxes <small>(26 05 33 16)</small> See CSI section 26 27 26 00-0265 for box covers.		
26 05 33 16-0235 Shallow, Single Gang Non Metallic (PVC) Boxes <small>(26 05 33 16-0234)</small>		
26 05 33 16-0236 EA 1/2" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box..... Note: One hub.	52.99	21.21
26 05 33 16-0237 EA 3/4" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box..... Note: One hub.	60.39	24.74
26 05 33 16-0238 EA 1" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box..... Note: One hub.	68.21	30.04
26 05 33 16-0239 EA 1/2" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	67.46	28.28
26 05 33 16-0240 EA 3/4" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	79.14	33.58
26 05 33 16-0241 EA 1" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	96.02	40.65
26 05 33 16-0242 EA 1/2" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Two hubs.	67.74	28.28
26 05 33 16-0243 EA 3/4" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Two hubs.	78.39	33.58
26 05 33 16-0244 EA 1" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Two hubs.	93.46	40.65
26 05 33 16-0245 EA 1/2" Depth, Type FSCC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Three hubs.	85.66	35.34
26 05 33 16-0246 EA 3/4" Depth, Type FSCC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Three hubs.	96.83	42.41
26 05 33 16-0247 EA 1" Depth, Type FSCC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Three hubs.	113.62	51.25
26 05 33 16-0248 Deep, Single Gang Non Metallic (PVC) Boxes <small>(26 05 33 16-0234)</small>		
26 05 33 16-0249 EA No Hub, Type FD, Deep, Single Gang Non Metallic (PVC) Box Note: No hubs.	53.81	21.21
26 05 33 16-0250 EA 1/2" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box Note: One hub.	52.37	21.21
26 05 33 16-0251 EA 3/4" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box Note: One hub.	62.35	24.74
26 05 33 16-0252 EA 1" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box Note: One hub.	69.01	30.04
26 05 33 16-0253 EA 1/2" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box Note: Two hubs.	69.08	28.28
26 05 33 16-0254 EA 3/4" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box Note: Two hubs.	77.02	33.58
26 05 33 16-0255 EA 1" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box Note: Two hubs.	91.89	40.65

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0256 Shallow, Two Gang Non Metallic (PVC) Boxes <small>(26 05 33 16-0234)</small>		
26 05 33 16-0257 EA 1/2" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box..... Note: One hub.	56.95	22.97
26 05 33 16-0258 EA 3/4" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box..... Note: One hub.	65.17	26.51
26 05 33 16-0259 EA 1" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box..... Note: One hub.	71.90	31.80
26 05 33 16-0260 EA 1/2" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	69.19	30.04
26 05 33 16-0261 EA 3/4" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	86.20	35.34
26 05 33 16-0262 EA 1" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	101.78	42.41
26 05 33 16-0263 EA 1/2" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	71.11	30.04
26 05 33 16-0264 EA 3/4" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	91.51	35.34
26 05 33 16-0265 EA 1" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	97.53	42.41
26 05 33 16-0266 EA 1/2" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Three hubs.	86.81	37.11
26 05 33 16-0267 EA 3/4" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Three hubs.	115.85	44.18
26 05 33 16-0268 EA 1" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Three hubs.	117.03	53.01
26 05 33 16-0269 Poke Thru Units <small>(26 05 33 16)</small>		
26 05 33 16-0270 Surface Poke Thru Units <small>(26 05 33 16-0269)</small>		
Note: Excludes concrete drilling. See CSI section 27 11 19 00-0122 for jacks.		
26 05 33 16-0271 EA Single 20 Amperes, Duplex Receptacle RC3 Power And Communications Poke Thru Unit..... Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC3ATCAL.	515.32	37.87
26 05 33 16-0272 EA Retrofit Kit Upgrades Existing RC3 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements.....	328.78	
Note: Includes 20 Amp duplex receptacle. Tile or carpet with brushed aluminum flange with black nonmetallic cover. Wiremold RC3KTCAL.		
26 05 33 16-0273 EA 20 Amperes, Replacement Duplex Receptacle For RC3 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC37REC.	43.22	10.10
26 05 33 16-0274 EA Abandonment Plate For RC3 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC3APTCBK.	54.86	5.05
26 05 33 16-0275 EA Four 20 Amperes, Receptacles RC4 Power And Communications Poke Thru Unit..... Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC4ATCAL.	583.72	40.40
26 05 33 16-0276 EA Retrofit Kit Upgrades Existing RC4 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements.....	307.26	
Note: Includes two 20 Amp duplex receptacles. Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC4KTCAL.		
26 05 33 16-0277 EA Two 20 Amperes, Replacement Duplex Receptacles For RC4 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC4REC2.	74.88	15.15
26 05 33 16-0278 EA Abandonment Plate For RC4 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC4APTCBK.	54.86	5.05
26 05 33 16-0279 EA Abandonment Plug For RC4 Series Power And Communications Poke Thru Unit..... Note: Wiremold ABPLUG4.	161.55	10.10
26 05 33 16-0280 EA Four Jack RC9AMD Communications Poke Thru Unit..... Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Includes bezels to accept four Ortronics TracJack inserts and two Ortronics Series II inserts. Excludes communication jacks. Wiremold RC9AMDTCAL.	460.67	35.34
26 05 33 16-0281 EA Abandonment Plate For RC9 Series Communications Poke Thru Unit..... Note: Wiremold RC9APTCBK.	37.56	5.05
26 05 33 16-0282 EA Eight Jack AMD8 Communications Poke Thru Unit..... Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Includes bezels to accept eight Ortronics TracJack inserts and four Ortronics Series II inserts. Excludes communication jacks. Wiremold AMD8ATCAL.	458.48	35.34
26 05 33 16-0283 EA Communication Conduit Adapter For Poke Thru Units..... Note: Includes two conduit connections for communication systems. Wiremold COM75.	52.96	5.05
26 05 33 16-0284 Recessed Poke Thru Units <small>(26 05 33 16-0269)</small>		
Note: Excludes concrete drilling.		
26 05 33 16-0285 Evolution 6AT Poke Thru Units <small>(26 05 33 16-0284)</small>		
Note: Excludes concrete drilling.		
26 05 33 16-0286 EA Recessed Prewired Assembly With Surface Style Cover (Wiremold 6ATCP).....	780.80	40.40
Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0287 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 6ATP).....	780.90	40.40
Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0288 EA Recessed Assembly With Surface Style Cover (Wiremold 6ATC) Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	743.87	40.40
26 05 33 16-0289 EA Recessed Assembly With Flush Style Cover (Wiremold 6AT) Note: For tile, wood or laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	743.87	40.40
26 05 33 16-0290 EA Recessed Prewired Audio/Video Assembly With Surface Style Cover (Wiremold 6ATCPA) Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	780.80	40.40
26 05 33 16-0291 EA Recessed Prewired Audio/Video Assembly With Flush Style Cover (Wiremold 6ATPA) Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	780.80	40.40
26 05 33 16-0292 EA Recessed Furniture Feed Assembly With Surface Style Cover (Wiremold 6ATCFF) Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Die-cast aluminum cover assembly provides one (1) 3/4" trade size screw plug opening and one (1) concentric 2"-1 1/4" trade size screw plug opening and is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	712.62	40.40
26 05 33 16-0293 EA Recessed Assembly With Disposable Plate (Wiremold 6STC) Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. No device plates are included. For use with the following cover assemblies (purchased separately): 6CTC, 6CT, and 6CFFTC Series.	444.70	37.87
26 05 33 16-0294 EA Recessed Prewired Audio/Video Assembly With Disposable Plate (Wiremold 6STCPAV) Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies(purchased separately): 6CTC and 6CT Series.	477.36	37.87
26 05 33 16-0295 EA Recessed Prewired Assembly With Disposable Plate (Wiremold 6STCP) Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 6CTC and 6CT Series.	480.60	37.87
26 05 33 16-0296 EA 6" Pre-Pour Poke-Thru Sleeve (Wiremold 6PPS) Note: Nonmetallic sleeve attaches to structural decking and maintains 6"-6 1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.	134.67	20.19
26 05 33 16-0297 EA Surface Style Cover Assembly (Wiremold 6CTC) Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CTC Series cover assemblies designed for use with 6STC, 6STCP, and 6STCPAV Poke-Thru Stem Assemblies.	315.71	10.10
26 05 33 16-0298 EA Flush Style Cover Assembly (Wiremold 6CT) Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CT Series cover assemblies designed for use with 6STC, 6STCP and 6STCPAV Poke-Thru Stem Assemblies. Includes one (1) 6TS Tile Shim.	315.71	10.10
26 05 33 16-0299 EA Furniture Feed Cover Assembly (Wiremold 6CFFTC) Note: Surface style, die-cast aluminum cover assembly, with one (1) 3/4" trade size screw plug opening, and one (1) concentric 2"-1 1/4" trade size screw plug opening. Cover assembly is available in finishes: black (BK), gray(GY), nickel (NK), brass (BS), and bronze (BZ). 6CFFTC Series Cover Assemblies designed for use with 6STC Poke- Thru Stem Assembly. Includes one (1) 3/4" and one (1) 2" trade size conduit fittings and one (1) divider to separate services.	262.16	10.10
26 05 33 16-0300 EA Tile Shim (Wiremold 6TS) Note: Used for floor coverings greater than 5/16" The 6TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" of adjustment.	37.75	2.53
26 05 33 16-0301 EA Device Mounting Plate (Wiremold 6AAP) Note: Device plate that will accept up to two (2) Extron® Electronics AAP style plates. For use in the center compartment only. Devices supplied by others.	17.87	5.05
26 05 33 16-0302 EA Device Mounting Plate (Wiremold 6ACT8A) Note: Device plate that will accept up to eight (8) ports of communication devices. For use in the center compartment only. Devices supplied by others.	20.77	5.05
26 05 33 16-0303 EA Device Mounting Plate (Wiremold 6B) Note: Device plate used to blank off center compartment, when no devices are used.	17.78	5.05
26 05 33 16-0304 EA Device Mounting Plate (Wiremold 6DEC) Note: Device plate that will accept Decorator style devices such as 20A receptacles, GFCLs, 106 adapters or AV devices. For use in the center compartment only. Devices supplied by others.	17.84	5.05
26 05 33 16-0305 EA Device Mounting Plate (Wiremold 6DP) Note: Device plate that will accept standard 20A duplex receptacle or duplex Turnlok receptacle. For use in the center compartment only. Devices supplied by others.	17.71	5.05
26 05 33 16-0306 EA Device Mounting Plate (Wiremold 6MAAP) Note: Device plate that will accept up to six (6) Extron® Electronics MAAP style plates. For use in the center compartment only. Devices supplied by others.	21.07	5.05
26 05 33 16-0307 EA Device Mounting Plate (Wiremold 6MAAP2A) Note: Combination device plate that will accept up to three (3) Extron® Electronics MAAP style plates, and up to two (2) ports of communication devices. For use in the center compartment only. Devices supplied by others.	20.84	5.05
26 05 33 16-0308 EA Mosaic Mounting Plate (Wiremold 6MOS) Note: Device plate will accept two (2) standard [45mm x 45mm] or one (1) standard [45mm x 90mm] Mosaic style device(s). Devices supplied by others.	21.37	5.05
26 05 33 16-0309 EA Device Mounting Plate (Wiremold 6S1) Note: Receptacle opening 1 3/8". For 6" poke-thru units only.	17.44	5.05
26 05 33 16-0310 EA Device Mounting Plate (Wiremold 6S2) Note: Receptacle opening 1 9/16". For 6" poke-thru units only.	17.45	5.05
26 05 33 16-0311 EA Device Mounting Plate (Wiremold 6SER) Note: Device plate that will accept up to four (4) Ortronics® Series II dual modular inserts. For use in the center compartment only. Devices supplied by others.	17.20	5.05

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0312 EA Device Mounting Plate (Wiremold 6TRAC).....	17.20	5.05
Note: Device plate that will accept up to eight (8) Ortronics® TracJack devices. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0313 EA 20 Amperes, Duplex Receptacles (Wiremold 68REC).....	42.20	7.57
Note: Two (2) proprietary 20AMP duplex power receptacles with mounting plates. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated ground device.		
26 05 33 16-0314 EA Device Mounting Plate (Wiremold 68B).....	15.67	5.05
Note: Blank plate. Used to blank off either of the side compartments when no devices or cabling are to be used.		
26 05 33 16-0315 EA Device Mounting Plate (Wiremold 68MAAP).....	16.09	5.05
Note: Device plate that will accept up to two (2) Extron® Electronics MAAP device plates. For use in either of the two side compartments only. Not for use in the center compartment. Extron Devices supplied by others.		
26 05 33 16-0316 EA 20 Amperes, Duplex Receptacles (Wiremold 68REC-25).....	135.18	9.08
Note: Two (2) proprietary 20AMP duplex power receptacles with mounting plates and 25' leads. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated		
26 05 33 16-0317 EA Device Mounting Plate (Wiremold 682A).....	20.57	5.05
Note: Device plate that will accept up to two (2) ports of communication devices. For use in either of the two side compartments only. Not for use in the center compartment. Communication devices supplied by others.		
26 05 33 16-0318 EA Bottom Housing Assembly (Wiremold 5PTHA).....	21.48	5.05
Note: Half-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required. For use on side compartments only.		
26 05 33 16-0319 EA Bottom Housing Assembly (Wiremold 5BLH).....	22.12	5.05
Note: Half-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required. For use on side compartments only. Includes tunnels for 6" and 8" poke-thru devices.		
26 05 33 16-0320 EA Bottom Housing Assembly (Wiremold 152CHA).....	33.57	10.10
Note: One and a half-gang 2" trade size conduit housing assembly. Recommended for use with furniture feed devices (6ATCF). Covers the center compartment and one of the side compartments.		
26 05 33 16-0321 EA Bottom Housing Assembly (Wiremold 575CHA).....	38.29	12.62
Note: Half-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections. For use on side compartments only.		
26 05 33 16-0322 EA Bottom Housing Assembly (Wiremold 175CHA).....	42.45	12.62
Note: One-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections.		
26 05 33 16-0323 EA Bottom Housing Assembly (Wiremold 1125CHA).....	32.16	10.10
Note: One-gang 1 1/4" trade size conduit housing assembly.		
26 05 33 16-0324 EA Bottom Housing Assembly (Wiremold 1PTHA).....	21.32	5.05
Note: One-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required.		
26 05 33 16-0325 EA Bottom Housing Assembly (Wiremold 1BLH).....	21.32	5.05
Note: One-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required.		
26 05 33 16-0326 EA Bottom Housing Assembly (Wiremold 15FFHA).....	22.52	5.05
Note: One and a half-gang pass through conduit housing assembly. Used for furniture feed applications on the center compartment only. Only for use with 6AT Series units.		
26 05 33 16-0327 EA Bottom Housing Assembly (Wiremold 1BHA).....	23.33	5.05
Note: One-gang bottom housing assembly. Designed to accept 175CHA, 1125CHA, 1PTHA, and 1BLH plates.		
26 05 33 16-0328 Evolution 8AT Poke Thru Units (26 05 33 16-0284)		
Note: Excludes concrete drilling.		
26 05 33 16-0329 EA Recessed Prewired Assembly With Surface Style Cover (Wiremold 8ATCP).....	1,026.42	40.40
Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0330 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 8ATP).....	976.59	40.40
Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0331 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 8AT2P).....	1,037.70	40.40
Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0332 EA Recessed Assembly With Surface Style Cover (Wiremold 8ATC).....	967.21	40.40
Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0333 EA Recessed Assembly With Flush Style Cover (Wiremold 8AT).....	958.32	40.40
Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0334 EA Recessed Assembly With Disposable Plate (Wiremold 8STC).....	576.55	37.87
Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.		
26 05 33 16-0335 EA Recessed Prewired Assembly With Disposable Plate (Wiremold 8STCP).....	646.75	37.87
Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.		
26 05 33 16-0336 EA 8" Pre-Pour Poke-Thru Sleeve (Wiremold 8PPS).....	162.07	20.19
Note: Nonmetallic sleeve attaches to structural decking and maintains 8"-8 1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.		
26 05 33 16-0337 EA Surface Style Cover Assembly (Wiremold 8CTC).....	341.57	10.10
Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0338 EA Flush Style Cover Assembly (Wiremold 8CT)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies. Includes one (1) 8TS Tile Shim.	341.57	10.10
26 05 33 16-0339 EA Tile Shim (Wiremold 8TS)..... Note: Used for floor coverings greater than 5/16". The 8TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" [9.5mm] of adjustment.	59.06	2.53
26 05 33 16-0340 EA Device Mounting Plate (Wiremold 8B) Note: Singlegang device plate used to blank off any one (1) of the three (3) gangs in the center compartment, when no devices are used.	18.49	5.05
26 05 33 16-0341 EA Device Mounting Plate (Wiremold 8DP)..... Note: Singlegang device plate that accepts standard 20A duplex receptacle or a duplex Turnlok receptacle. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	18.60	5.05
26 05 33 16-0342 EA Device Mounting Plate (Wiremold 8DEC)..... Note: Singlegang device plate that will accept Decorator style devices such as 20A receptacles, GGCI's, 106 adapters or A/V devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	18.73	5.05
26 05 33 16-0343 EA Device Mounting Plate (Wiremold 8ACT6A)..... Note: Singlegang device plate that will accept up to six (6) ports of communication devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	21.84	5.05
26 05 33 16-0344 EA Mosaic Mounting Plate (Wiremold 8MOS)..... Note: Device plate accepts three (3) standard Mosaic devices. Devices supplied by others.	26.63	5.05
26 05 33 16-0345 EA Crestron Double Gang Plate (Wiremold 8CREST) Note: Device plate accepts Crestron double-gang decorator style devices.	26.59	5.05
26 05 33 16-0346 EA Device Mounting Plate (Wiremold 8S1) Note: Receptacle opening 1 3/8". For 8" poke-thru units only.	17.91	5.05
26 05 33 16-0347 EA Device Mounting Plate (Wiremold 8S2)..... Note: Receptacle opening 1 9/16". For 8" poke-thru units only.	18.14	5.05
26 05 33 16-0348 EA Device Mounting Plate (Wiremold 8TRAC)..... Note: Singlegang device plate that will accept up to six (6) Ortronics TracJack devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	17.91	5.05
26 05 33 16-0349 EA Device Mounting Plate (Wiremold 8SER)..... Note: Singlegang device plate that will accept up to three (3) Ortronics Series II dual modular inserts. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	17.91	5.05
26 05 33 16-0350 EA Device Mounting Plate (Wiremold 8MAAP)..... Note: Singlegang device plate that will accept up to four (4) Extron® Electronics MAAP style plates. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	26.20	5.05
26 05 33 16-0351 EA Device Mounting Plate (Wiremold 8AAP)..... Note: Twogang device plate that will accept up to four (4) Extron® Electronics AAP style plates. 8AAP takes up 2 of the 3 gangs in the center compartment. Devices supplied by others.	21.70	5.05
26 05 33 16-0352 EA 8" Divider (Wiremold 8DIV)..... Note: Divider allows for separation of services when required.	25.14	5.05
26 05 33 16-0353 EA Bottom Housing Assembly (Wiremold 22CHA)..... Note: Two-gang 2" trade size conduit housing assembly. Used on 8AT Series devices. Covers two (2) of the three (3) gangs in the center compartment. Only for use with 8AT Series units.	33.57	10.10

26 05 43 Underground Ducts and Raceways for Electrical Systems (26 05)

Note: Underground utilities and conduits include warning tape.

26 05 43 00-0001 Precast Concrete Trenches, One Piece Pedestrian Trench (26 05 43)

Note: Rated for 200 PSF Pedestrian Weight. Excludes excavation, removal of dirt and sand bedding.

26 05 43 00-0002 10" Wide Pedestrian Trench (26 05 43 00-0001)

26 05 43 00-0003 LF Base, Solid Bottom 10" Wide x 15" Deep Pedestrian Trench	65.34
26 05 43 00-0004 LF Base, Open Bottom 10" Wide x 15" Deep Pedestrian Trench.....	62.64
26 05 43 00-0005 LF Base, Solid Bottom 10" Wide x 24" Deep Pedestrian Trench	90.74
26 05 43 00-0006 LF Base, Open Bottom 10" Wide x 24" Deep Pedestrian Trench.....	86.99
26 05 43 00-0007 EA End Wall, 10" Wide x 15" Deep Pedestrian Trench	45.36
26 05 43 00-0008 EA End Wall, 10" Wide x 24" Deep Pedestrian Trench	54.45
26 05 43 00-0009 LF Lid, Concrete, 10" Wide Pedestrian Trench.....	43.56

26 05 43 00-0010 20" Wide Pedestrian Trench (26 05 43 00-0001)

26 05 43 00-0011 LF Base, Solid Bottom 20" Wide x 15" Deep Pedestrian Trench	83.24
26 05 43 00-0012 LF Base, Open Bottom 20" Wide x 15" Deep Pedestrian Trench.....	78.47
26 05 43 00-0013 LF Base, Solid Bottom 20" Wide x 24" Deep Pedestrian Trench	113.22
26 05 43 00-0014 LF Base, Open Bottom 20" Wide x 24" Deep Pedestrian Trench.....	108.87
26 05 43 00-0015 EA End Wall, 20" Wide x 15" Deep Pedestrian Trench	57.22
26 05 43 00-0016 EA End Wall, 20" Wide x 24" Deep Pedestrian Trench	83.31
26 05 43 00-0017 LF Lid, Concrete, 20" Wide Pedestrian Trench.....	54.47

26 05 43 00-0018 30" Wide Pedestrian Trench (26 05 43 00-0001)

26 05 43 00-0019 LF Base, Solid Bottom 30" Wide x 15" Deep Pedestrian Trench	107.43
26 05 43 00-0020 LF Base, Open Bottom 30" Wide x 15" Deep Pedestrian Trench.....	124.91
26 05 43 00-0021 LF Base, Solid Bottom 30" Wide x 24" Deep Pedestrian Trench	134.16
26 05 43 00-0022 LF Base, Open Bottom 30" Wide x 24" Deep Pedestrian Trench.....	129.21
26 05 43 00-0023 EA End Wall, 30" Wide x 15" Deep Pedestrian Trench	82.45
26 05 43 00-0024 EA End Wall, 30" Wide x 24" Deep Pedestrian Trench	110.81
26 05 43 00-0025 LF Lid, Concrete, 30" Wide Pedestrian Trench.....	67.86

26 Electrical**26 05 Common Work Results for Electrical****26 05 43 Underground Ducts and Raceways for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0026			40" Wide Pedestrian Trench (26 05 43 00-0001)		
	26 05 43 00-0027	LF	Base, Solid Bottom 40" Wide x 15" Deep Pedestrian Trench.....	129.31	
	26 05 43 00-0028	LF	Base, Open Bottom 40" Wide x 15" Deep Pedestrian Trench.....	124.80	
	26 05 43 00-0029	LF	Base, Solid Bottom 40" Wide x 24" Deep Pedestrian Trench.....	158.18	
	26 05 43 00-0030	LF	Base, Open Bottom 40" Wide x 24" Deep Pedestrian Trench.....	152.67	
	26 05 43 00-0031	EA	End Wall, 40" Wide x 15" Deep Pedestrian Trench.....	105.53	
	26 05 43 00-0032	EA	End Wall, 40" Wide x 24" Deep Pedestrian Trench.....	141.70	
	26 05 43 00-0033	LF	Lid, Concrete, 40" Wide Pedestrian Trench.....	80.44	
26 05 43 00-0034			Precast Concrete Trenches, One Piece Medium Vehicle Trench (26 05 43) Note: Rated for 7000 lbs Gross Vehicle Weight. Excludes excavation, removal of dirt and sand bedding.		
26 05 43 00-0035			10" Wide Medium Vehicle Trench (26 05 43 00-0034)		
	26 05 43 00-0036	LF	Base, Solid Bottom 10" Wide x 15" Deep Medium Vehicle Trench.....	78.59	
	26 05 43 00-0037	LF	Base, Open Bottom 10" Wide x 15" Deep Medium Vehicle Trench.....	75.09	
	26 05 43 00-0038	LF	Base, Solid Bottom 10" Wide x 24" Deep Medium Vehicle Trench.....	109.11	
	26 05 43 00-0039	LF	Base Open Bottom 10" Wide x 24" Deep Medium Vehicle Trench.....	104.28	
	26 05 43 00-0040	EA	End Wall, 10" Wide x 15" Deep Medium Vehicle Trench.....	52.72	
	26 05 43 00-0041	EA	End Wall, 10" Wide x 24" Deep Medium Vehicle Trench.....	62.17	
	26 05 43 00-0042	LF	Lid, Concrete 10" Wide Medium Vehicle Trench.....	52.40	
	26 05 43 00-0043	LF	Lid, Galvanized Steel 10" Wide Medium Vehicle Trench.....	224.29	
26 05 43 00-0044			20" Wide Medium Vehicle Trench (26 05 43 00-0034)		
	26 05 43 00-0045	LF	Base, Solid Bottom 20" Wide x 15" Deep Medium Vehicle Trench.....	99.41	
	26 05 43 00-0046	LF	Base, Open Bottom 20" Wide x 15" Deep Medium Vehicle Trench.....	93.26	
	26 05 43 00-0047	LF	Base, Solid Bottom 20" Wide x 24" Deep Medium Vehicle Trench.....	134.54	
	26 05 43 00-0048	LF	Base Open Bottom 20" Wide x 24" Deep Medium Vehicle Trench.....	128.92	
	26 05 43 00-0049	EA	End Wall, 20" Wide x 15" Deep Medium Vehicle Trench.....	65.74	
	26 05 43 00-0050	EA	End Wall, 20" Wide x 24" Deep Medium Vehicle Trench.....	95.85	
	26 05 43 00-0051	LF	Lid, Concrete 20" Wide Medium Vehicle Trench.....	65.51	
	26 05 43 00-0052	LF	Lid, Galvanized Steel 20" Wide Medium Vehicle Trench.....	297.31	
26 05 43 00-0053			30" Wide Medium Vehicle Trench (26 05 43 00-0034)		
	26 05 43 00-0054	LF	Base, Solid Bottom 30" Wide x 15" Deep Medium Vehicle Trench.....	102.52	
	26 05 43 00-0055	LF	Base, Open Bottom 30" Wide x 15" Deep Medium Vehicle Trench.....	121.50	
	26 05 43 00-0056	LF	Base, Solid Bottom 30" Wide x 24" Deep Medium Vehicle Trench.....	158.43	
	26 05 43 00-0057	LF	Base Open Bottom 30" Wide x 24" Deep Medium Vehicle Trench.....	152.02	
	26 05 43 00-0058	EA	End Wall, 30" Wide x 15" Deep Medium Vehicle Trench.....	94.20	
	26 05 43 00-0059	EA	End Wall, 30" Wide x 24" Deep Medium Vehicle Trench.....	128.21	
	26 05 43 00-0060	LF	Lid, Concrete 30" Wide Medium Vehicle Trench.....	81.84	
	26 05 43 00-0061	LF	Lid, Galvanized Steel 30" Wide Medium Vehicle Trench.....	371.04	
26 05 43 00-0062			40" Wide Medium Vehicle Trench (26 05 43 00-0034)		
	26 05 43 00-0063	LF	Base, Solid Bottom 40" Wide x 15" Deep Medium Vehicle Trench.....	151.36	
	26 05 43 00-0064	LF	Base, Open Bottom 40" Wide x 15" Deep Medium Vehicle Trench.....	145.54	
	26 05 43 00-0065	LF	Base, Solid Bottom 40" Wide x 24" Deep Medium Vehicle Trench.....	185.23	
	26 05 43 00-0066	LF	Base Open Bottom 40" Wide x 24" Deep Medium Vehicle Trench.....	178.10	
	26 05 43 00-0067	EA	End Wall, 40" Wide x 15" Deep Medium Vehicle Trench.....	120.59	
	26 05 43 00-0068	EA	End Wall, 40" Wide x 24" Deep Medium Vehicle Trench.....	163.91	
	26 05 43 00-0069	LF	Lid, Concrete 40" Wide Medium Vehicle Trench.....	96.61	
	26 05 43 00-0070	LF	Lid, Galvanized Steel 40" Wide Medium Vehicle Trench.....	504.17	
26 05 43 00-0071			Precast Concrete Trenches, One Piece H20 Road Crossing Trench (26 05 43) Note: H20 Rated for 32000 lbs Gross Vehicle Weight. Excludes excavation, removal of dirt and sand bedding.		
26 05 43 00-0072			10" Wide H20 Road Crossing Trench (26 05 43 00-0071)		
	26 05 43 00-0073	LF	Base, Solid Bottom for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench.....	165.92	
	26 05 43 00-0074	LF	Base, Open Bottom for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench.....	158.07	
	26 05 43 00-0075	LF	Base, Solid Bottom for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench.....	207.76	
	26 05 43 00-0076	LF	Base, Open Bottom for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench.....	197.85	
	26 05 43 00-0077	LF	Base, Solid Bottom for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench.....	159.46	
	26 05 43 00-0078	LF	Base, Open Bottom for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench.....	151.98	
	26 05 43 00-0079	LF	Base, Solid Bottom for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench.....	201.29	
	26 05 43 00-0080	LF	Base, Open Bottom for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench.....	191.79	
	26 05 43 00-0081	EA	End Wall for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench.....	110.93	
	26 05 43 00-0082	EA	End Wall for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench.....	150.26	
	26 05 43 00-0083	EA	End Wall for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench.....	100.67	
	26 05 43 00-0084	EA	End Wall for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench.....	139.78	
	26 05 43 00-0085	LF	Lid, Concrete 10" Wide Road Crossing Trench.....	77.31	
	26 05 43 00-0086	LF	Lid, Galvanized Steel 10" Wide Road Crossing Trench.....	243.25	
26 05 43 00-0087			20" Wide H20 Road Crossing Trench (26 05 43 00-0071)		
	26 05 43 00-0088	LF	Base, Solid Bottom for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench.....	177.05	
	26 05 43 00-0089	LF	Base, Open Bottom for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench.....	169.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0090 LF Base, Solid Bottom for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench	234.81	
26 05 43 00-0091 LF Base, Open Bottom for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench.....	224.04	
26 05 43 00-0092 LF Base, Solid Bottom for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench	177.05	
26 05 43 00-0093 LF Base, Open Bottom for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench	169.00	
26 05 43 00-0094 LF Base, Solid Bottom for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench.....	228.34	
26 05 43 00-0095 LF Base, Open Bottom for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench	217.97	
26 05 43 00-0096 EA End Wall for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench.....	158.29	
26 05 43 00-0097 EA End Wall for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench.....	215.83	
26 05 43 00-0098 EA End Wall for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench.....	143.35	
26 05 43 00-0099 EA End Wall for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench.....	200.89	
26 05 43 00-0100 LF Lid, Concrete 20" Wide Road Crossing Trench.....	86.52	
26 05 43 00-0101 LF Lid, Galvanized Steel 20" Wide Road Crossing Trench.....	360.43	
26 05 43 00-0102 30" Wide H20 Road Crossing Trench <small>(26 05 43 00-0071)</small>		
26 05 43 00-0103 LF Base, Solid Bottom for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench	210.64	
26 05 43 00-0104 LF Base, Open Bottom for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench.....	201.43	
26 05 43 00-0105 LF Base, Solid Bottom for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench	260.30	
26 05 43 00-0106 LF Base, Open Bottom for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench.....	248.86	
26 05 43 00-0107 LF Base, Solid Bottom for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench.....	204.17	
26 05 43 00-0108 LF Base, Open Bottom for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench	195.34	
26 05 43 00-0109 LF Base, Solid Bottom for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench	253.83	
26 05 43 00-0110 LF Base, Open Bottom for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench	242.57	
26 05 43 00-0111 EA End Wall for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench.....	211.96	
26 05 43 00-0112 EA End Wall for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench.....	279.86	
26 05 43 00-0113 EA End Wall for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench.....	192.33	
26 05 43 00-0114 EA End Wall for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench.....	260.23	
26 05 43 00-0115 LF Lid, Concrete 30" Wide Road Crossing Trench.....	109.32	
26 05 43 00-0116 LF Lid, Galvanized Steel 30" Wide Road Crossing Trench.....	451.84	
26 05 43 00-0117 40" Wide H20 Road Crossing Trench <small>(26 05 43 00-0071)</small>		
26 05 43 00-0118 LF Base, Solid Bottom for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench	233.84	
26 05 43 00-0119 LF Base, Open Bottom for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench.....	223.93	
26 05 43 00-0120 LF Base, Solid Bottom for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench	287.76	
26 05 43 00-0121 LF Base, Open Bottom for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench.....	275.33	
26 05 43 00-0122 LF Base, Solid Bottom for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench	227.37	
26 05 43 00-0123 LF Base, Open Bottom for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench	217.87	
26 05 43 00-0124 LF Base, Solid Bottom for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench.....	281.29	
26 05 43 00-0125 LF Base, Open Bottom for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench	269.25	
26 05 43 00-0126 EA End Wall for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench.....	263.32	
26 05 43 00-0127 EA End Wall for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench.....	347.46	
26 05 43 00-0128 EA End Wall for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench.....	239.23	
26 05 43 00-0129 EA End Wall for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench	323.37	
26 05 43 00-0130 LF Lid, Concrete 40" Wide Road Crossing Trench.....	132.19	
26 05 43 00-0131 LF Lid, Galvanized Steel 40" Wide Road Crossing Trench.....	614.12	
26 05 43 00-0132 Duct Bank <small>(26 05 43)</small>		
Note: Installation of single or multiple configuration underground utility raceways to have 3" concrete leveling base and encased in concrete envelope. Based on 100' run, minimum 30" bury depth. Labor units include material handling, unloading at job site, layout of job, measuring, cutting and fabrication, installation in trench using the appropriate supports, cleaning to remove any obstructions and installation of nylon pull string. Excludes trenching, concrete, backfilling, grading and seeding. Duct Banks are to be installed according to the appropriate sections of the accompanying specifications. Individual rows to be stacked for larger duct bank configurations.		
26 05 43 00-0133 Rigid Galvanized Steel Conduit, Galvanized Rigid Conduit (GRC) Or Rigid Galvanized Steel (RGS), Duct Bank <small>(26 05 43 00-0132)</small>		
Note: Includes appropriate spacers and fittings.		
26 05 43 00-0134 LF 2 At 2", Rigid Galvanized Conduit Duct Bank	31.58	
26 05 43 00-0135 LF 4 At 2", Rigid Galvanized Conduit Duct Bank	63.19	
26 05 43 00-0136 LF 2 At 3", Rigid Galvanized Conduit Duct Bank	65.43	
26 05 43 00-0137 LF 4 At 3", Rigid Galvanized Conduit Duct Bank	131.24	
26 05 43 00-0138 LF 2 At 4", Rigid Galvanized Conduit Duct Bank	96.38	
26 05 43 00-0139 LF 4 At 4", Rigid Galvanized Conduit Duct Bank	193.71	
26 05 43 00-0140 LF 6 At 4", Rigid Galvanized Conduit Duct Bank	290.92	
26 05 43 00-0141 LF 2 At 5", Rigid Galvanized Conduit Duct Bank	183.02	
26 05 43 00-0142 LF 4 At 5", Rigid Galvanized Conduit Duct Bank	365.11	
26 05 43 00-0143 LF 6 At 5", Rigid Galvanized Conduit Duct Bank	560.91	
26 05 43 00-0144 LF 2 At 6", Rigid Galvanized Conduit Duct Bank	259.89	
26 05 43 00-0145 LF 4 At 6", Rigid Galvanized Conduit Duct Bank	521.70	
26 05 43 00-0146 LF 6 At 6", Rigid Galvanized Conduit Duct Bank	776.98	
26 05 43 00-0147 Polyvinyl Chloride (PVC), Type EB Duct Bank System <small>(26 05 43 00-0132)</small>		
Note: Includes appropriate spacers and fittings.		
26 05 43 00-0148 LF 1 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	6.51	
26 05 43 00-0149 LF 2 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	14.30	
26 05 43 00-0150 LF 4 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	27.45	
26 05 43 00-0151 LF 1 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	8.61	
26 05 43 00-0152 LF 2 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	17.20	

26 Electrical

26 05 Common Work Results for Electrical

26 05 43 Underground Ducts and Raceways for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 05 43 00-0153	LF	4 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	34.95	
26 05 43 00-0154	LF	1 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	11.51	
26 05 43 00-0155	LF	2 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	23.04	
26 05 43 00-0156	LF	4 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	46.12	
26 05 43 00-0157	LF	6 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	69.16	
26 05 43 00-0158	LF	1 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	14.54	
26 05 43 00-0159	LF	2 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	29.06	
26 05 43 00-0160	LF	4 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	56.25	
26 05 43 00-0161	LF	6 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	79.75	
26 05 43 00-0162	LF	1 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	25.84	
26 05 43 00-0163	LF	2 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	39.36	
26 05 43 00-0164	LF	4 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	78.89	
26 05 43 00-0165	LF	6 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	127.58	

26 05 43 00-0166 Polyvinyl Chloride (PVC), Type DB Duct Bank System (26 05 43 00-0132)

Note: Includes appropriate spacers and fittings.

26 05 43 00-0167	LF	1 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	7.23	
26 05 43 00-0168	LF	2 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	15.80	
26 05 43 00-0169	LF	4 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	30.25	
26 05 43 00-0170	LF	1 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	8.94	
26 05 43 00-0171	LF	2 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	17.86	
26 05 43 00-0172	LF	4 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	35.62	
26 05 43 00-0173	LF	1 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	11.78	
26 05 43 00-0174	LF	2 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	23.59	
26 05 43 00-0175	LF	4 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	47.21	
26 05 43 00-0176	LF	6 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	70.79	
26 05 43 00-0177	LF	1 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	14.95	
26 05 43 00-0178	LF	2 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	29.88	
26 05 43 00-0179	LF	4 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	57.89	
26 05 43 00-0180	LF	6 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	82.22	
26 05 43 00-0181	LF	1 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	26.41	
26 05 43 00-0182	LF	2 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	40.54	
26 05 43 00-0183	LF	4 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	81.25	
26 05 43 00-0184	LF	6 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	131.12	

26 05 43 00-0185 Male Or Female Adapters (26 05 43 00-0132)

26 05 43 00-0186	EA	2" Adapter	35.85	
26 05 43 00-0187	EA	3" Adapter	53.14	
26 05 43 00-0188	EA	4" Adapter	69.17	
26 05 43 00-0189	EA	5" Adapter	110.32	
26 05 43 00-0190	EA	6" Adapter	135.43	

26 05 46 Utility Poles for Electrical Systems (26 05)

26 05 46 00-0001 Wood Poles (26 05 46)

26 05 46 00-0002 Wood Pole, Class 3, Penta-Treated To 8 LB Retention (26 05 46 00-0001)

Note: Machine dig and set.

26 05 46 00-0003	EA	25' Treated Wood Pole, Class 3, Machine Dig And Set	852.97	271.53
		For Class 1 Pole, Add	108.43	
		For Class 2 Pole, Add	61.96	
		For Class 4 Pole, Deduct	-30.98	
		For Class 5 Pole, Deduct	-92.94	
		For Class 6 Pole, Deduct	-123.92	
26 05 46 00-0004	EA	30' Treated Wood Pole, Class 3, Machine Dig And Set	1,023.20	301.26
		For Class 1 Pole, Add	147.22	
		For Class 2 Pole, Add	84.13	
		For Class 4 Pole, Deduct	-42.06	
		For Class 5 Pole, Deduct	-126.19	
		For Class 6 Pole, Deduct	-168.26	
26 05 46 00-0005	EA	35' Treated Wood Pole, Class 3, Machine Dig And Set	1,325.72	398.45
		For Class 1 Pole, Add	185.13	
		For Class 2 Pole, Add	105.79	
		For Class 4 Pole, Deduct	-52.89	
		For Class 5 Pole, Deduct	-158.68	
		For Class 6 Pole, Deduct	-211.58	
26 05 46 00-0006	EA	40' Treated Wood Pole, Class 3, Machine Dig And Set	1,518.75	438.24
		For Class 1 Pole, Add	224.80	
		For Class 2 Pole, Add	128.46	
		For Class 4 Pole, Deduct	-64.23	
		For Class 5 Pole, Deduct	-192.69	
		For Class 6 Pole, Deduct	-256.92	
26 05 46 00-0007	EA	45' Treated Wood Pole, Class 3, Machine Dig And Set	1,736.98	488.11
		For Class 1 Pole, Add	266.23	
		For Class 2 Pole, Add	152.13	
		For Class 4 Pole, Deduct	-76.07	
		For Class 5 Pole, Deduct	-228.20	
		For Class 6 Pole, Deduct	-304.27	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0008 EA 50' Treated Wood Pole, Class 3, Machine Dig And Set	1,977.14	547.81
<i>For Class 1 Pole, Add</i>	308.55	
<i>For Class 2 Pole, Add</i>	176.31	
<i>For Class 4 Pole, Deduct</i>	-88.16	
<i>For Class 5 Pole, Deduct</i>	-264.47	
<i>For Class 6 Pole, Deduct</i>	-352.63	
26 05 46 00-0009 EA 55' Treated Wood Pole, Class 3, Machine Dig And Set	2,212.64	602.53
<i>For Class 1 Pole, Add</i>	352.63	
<i>For Class 2 Pole, Add</i>	201.50	
<i>For Class 4 Pole, Deduct</i>	-100.75	
<i>For Class 5 Pole, Deduct</i>	-302.25	
<i>For Class 6 Pole, Deduct</i>	-403.00	
26 05 46 00-0010 EA 60' Treated Wood Pole, Class 3, Machine Dig And Set	2,473.79	662.57
<i>For Class 1 Pole, Add</i>	402.00	
<i>For Class 2 Pole, Add</i>	229.71	
<i>For Class 4 Pole, Deduct</i>	-114.86	
<i>For Class 5 Pole, Deduct</i>	-344.57	
<i>For Class 6 Pole, Deduct</i>	-459.42	
26 05 46 00-0011 EA 65' Treated Wood Pole, Class 3, Machine Dig And Set	4,090.85	722.15
<i>For Class 1 Pole, Add</i>	926.27	
<i>For Class 2 Pole, Add</i>	529.30	
<i>For Class 4 Pole, Deduct</i>	-264.65	
<i>For Class 5 Pole, Deduct</i>	-793.95	
<i>For Class 6 Pole, Deduct</i>	-1,058.60	
26 05 46 00-0012 EA 70' Treated Wood Pole, Class 3, Machine Dig And Set	4,495.09	768.20
<i>For Class 1 Pole, Add</i>	1,035.53	
<i>For Class 2 Pole, Add</i>	591.73	
<i>For Class 4 Pole, Deduct</i>	-295.87	
<i>For Class 5 Pole, Deduct</i>	-887.60	
<i>For Class 6 Pole, Deduct</i>	-1,183.47	
26 05 46 00-0013 EA 75' Treated Wood Pole, Class 3, Machine Dig And Set	4,943.82	820.49
<i>For Class 1 Pole, Add</i>	1,155.98	
<i>For Class 2 Pole, Add</i>	660.56	
<i>For Class 4 Pole, Deduct</i>	-330.28	
<i>For Class 5 Pole, Deduct</i>	-990.84	
<i>For Class 6 Pole, Deduct</i>	-1,321.12	
26 05 46 00-0014 Removal And Relocation Of Wood Poles With Cross Arm <small>(26 05 46 00-0001)</small>		
26 05 46 00-0015 LF Removal And Relocation Of Up To 75' Wood Pole With Cross Arms	23.14	
26 05 46 00-0016 Crossarms <small>(26 05 46)</small>		
<i>Note: Includes hardware and braces.</i>		
26 05 46 00-0017 Wood Single Arm Crossarms <small>(26 05 46 00-0016)</small>		
26 05 46 00-0018 EA 3-1/2" x 4-1/2" x 5'-7", Single Arm Wood Crossarm, With Hardware And Braces	200.90	80.99
26 05 46 00-0019 EA 3-1/2" x 4-1/2" x 8'-0", Single Arm Wood Crossarm, With Hardware And Braces	242.60	80.99
26 05 46 00-0020 EA 3-3/4" x 4-3/4" x 10'-0", Single Arm Wood Crossarm, With Hardware And Braces	254.56	104.13
26 05 46 00-0021 Wood Double Arm Crossarms <small>(26 05 46 00-0016)</small>		
26 05 46 00-0022 EA 3-1/2" x 4-1/2" x 5'-7", Double Arm Wood Crossarm, With Hardware And Braces	516.51	225.60
26 05 46 00-0023 EA 3-1/2" x 4-1/2" x 8'-0", Double Arm Wood Crossarm, With Hardware And Braces	550.24	225.60
26 05 46 00-0024 EA 3-3/4" x 4-3/4" x 10'-0", Double Arm Wood Crossarm, With Hardware And Braces	572.54	225.60
26 05 46 00-0025 Fiberglass Crossarms <small>(26 05 46 00-0016)</small>		
<i>Note: Includes hardware.</i>		
26 05 46 00-0026 Single Phase, 15 Degree Angle <small>(26 05 46 00-0025)</small>		
26 05 46 00-0027 EA Fiberglass Cutout And Arrestor Bracket, 18", Minimum Ultimate Load 800 LB	199.54	
26 05 46 00-0028 EA Fiberglass Insulator Bracket, 14", 11/16" Diameter Hole, Minimum Ultimate Load 1,200 LB	255.60	48.59
26 05 46 00-0029 EA Fiberglass Insulator Bracket, 14", 1" Lead Threaded, Minimum Ultimate Load 1,200 LB	267.17	52.06
26 05 46 00-0030 Two Phase, 15 Degree Angle <small>(26 05 46 00-0025)</small>		
26 05 46 00-0031 EA Fiberglass Insulator Bracket, 36", Minimum Ultimate Load 1,200 LB	320.03	62.48
26 05 46 00-0032 Fiberglass Crossarm Accessories <small>(26 05 46 00-0025)</small>		
26 05 46 00-0033 EA Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 7,000 LB Per Conductor	513.75	79.83
26 05 46 00-0034 EA Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 12,000 LB Per Conductor	610.36	97.18
26 05 46 00-0035 EA Pole Top Pin, Hot Dip Galvanized, 18", 1" Lead Threaded	89.35	13.88
26 05 46 00-0036 EA Three Phase Equipment Mounting Bracket	446.74	69.42
26 05 46 00-0037 EA Fiberglass Bull Horn Crossarm	360.59	115.70
26 05 46 00-0038 Insulator Support System <small>(26 05 46 00-0016)</small>		
26 05 46 00-0039 Epoxy Construction Units, In Place Mounting <small>(26 05 46 00-0038)</small>		
<i>Note: Includes hardware.</i>		
26 05 46 00-0040 EA 1-1/2" Diameter x 19" Long Pole Side Pins Vertical (1 Arm Installed), In Place Mounting	108.40	
26 05 46 00-0041 EA 1-1/2" Diameter x 15" Long Pole Top Pins, In Place Mounting	86.78	

26 Electrical
26 05 Common Work Results for Electrical
26 05 46 Utility Poles for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0042 EA Deadend Arms, In Place Mounting.....	236.02	
26 05 46 00-0043 EA 1-1/2" Diameter x 18" Long Pole Side Pins Vertical (2 Arms Installed), In Place Mounting	170.04	
26 05 46 00-0044 Epoxy Construction Units, Grounding Mounting (26 05 46 00-0038) Note: Includes hardware.		
26 05 46 00-0045 EA 1-1/2" Diameter x 18" Long Pole Side Pins Vertical, Grounding Mounting.....	74.93	
26 05 46 00-0046 EA 1-1/2" Diameter x 15" Long Pole Top Pins, Grounding Mounting.....	64.46	
26 05 46 00-0047 EA Deadend Arms, Grounding Mounting.....	213.70	
26 05 46 00-0048 Guying (26 05 46) Note: Includes cable, anchor and rod assembly, guy marker.		
26 05 46 00-0049 Down Guy (26 05 46 00-0048)		
26 05 46 00-0050 EA Down Guy For 25' To 40' Pole	776.39	323.94
26 05 46 00-0051 EA Down Guy For 45' To 60' Pole	788.72	323.94
26 05 46 00-0052 EA Down Guy For 65' To 75' Pole	814.08	323.94
26 05 46 00-0053 EA Guy Guard, Plastic.....	28.44	
26 05 46 00-0054 Head Guy, 50' Spans (26 05 46 00-0048)		
26 05 46 00-0055 EA Head Guy (50' Span), For 25' To 40' Pole.....	1,130.86	497.48
26 05 46 00-0056 EA Head Guy (50' Span), For 45' To 60' Pole.....	1,130.86	497.48
26 05 46 00-0057 EA Head Guy (50' Span), For 65' To 75' Pole.....	1,130.86	497.48
26 05 46 00-0058 Guy Strain Insulators Additional Insulators (26 05 46 00-0048) Note: As required at same material cost and labor.		
26 05 46 00-0059 EA Guy Strain Insulator	489.82	242.95
26 05 46 00-0060 Insulators (26 05 46)		
26 05 46 00-0061 Pin Insulator With Pin (26 05 46 00-0060)		
26 05 46 00-0062 EA 5 KV Class 55-3, Pin Insulator With Pin	158.66	69.42
26 05 46 00-0063 EA 15 KV Class 55-5, Pin Insulator With Pin.....	165.14	69.42
26 05 46 00-0064 Suspension Insulator (26 05 46 00-0060) Note: Includes clevis and strain clamp.		
26 05 46 00-0065 EA 5 KV Class 52-2, Suspension Insulator, With Clevis And Strain Clamp.....	204.39	92.56
26 05 46 00-0066 EA 15 KV Class 52-4, Suspension Insulator, With Clevis And Strain Clamp	222.02	92.56
26 05 46 00-0067 EA 25 KV Class 2 x 52-4, Suspension Insulator, With Clevis And Strain Clamp	317.27	115.70
26 05 46 00-0068 EA 50 KV Class 4 x 52-4, Suspension Insulator, With Clevis And Strain Clamp	510.62	185.10
26 05 46 00-0069 Spool Insulator With Clevis (26 05 46 00-0060)		
26 05 46 00-0070 EA 5 KV Class 53-5, Spool Insulator With Clevis	68.06	28.92
26 05 46 00-0071 EA 15 KV Class, Spool Insulator With Clevis.....	220.14	104.13
26 05 46 00-0072 EA 25 KV Class, Spool Insulator With Clevis.....	284.96	104.13
26 05 46 00-0073 Secondary Rack (26 05 46 00-0060)		
26 05 46 00-0074 EA 1 Spool Secondary Rack.....	134.85	57.85
26 05 46 00-0075 EA 2 Spool Secondary Rack.....	140.54	73.81
26 05 46 00-0076 EA 3 Spool Secondary Rack.....	210.19	98.34
26 05 46 00-0077 EA 4 Spool Secondary Rack.....	235.47	98.34
26 05 46 00-0078 Outdoor Load Break Switches (26 05 46) Note: 3-Phase, group operated, 3-insulator, vertical break, high strength pin insulators worm gear operating mechanism operating rods, mechanisms, and switch bases are galvanized steel.		
26 05 46 00-0079 7.2 KV Outdoor Load Break Switches (26 05 46 00-0078)		
26 05 46 00-0080 EA 600 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	3,946.84	393.36
26 05 46 00-0081 EA 1,200 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	7,716.05	393.36
26 05 46 00-0082 EA 1,600 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	11,490.84	665.23
26 05 46 00-0083 EA 2,000 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	11,730.07	665.23
26 05 46 00-0084 14.4 KV Outdoor Load Break Switches (26 05 46 00-0078)		
26 05 46 00-0085 EA 600 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	4,817.57	393.36
26 05 46 00-0086 EA 1,200 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	9,113.45	393.36
26 05 46 00-0087 EA 1,600 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	11,490.84	665.23
26 05 46 00-0088 EA 2,000 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	11,730.07	665.23
26 05 46 00-0089 23 KV Outdoor Load Break Switches (26 05 46 00-0078)		
26 05 46 00-0090 EA 600 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	5,313.77	456.99
26 05 46 00-0091 EA 1,200 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	9,973.49	456.99



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0092 EA 1,600 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	12,012.98	786.71
26 05 46 00-0093 EA 2,000 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	12,260.04	786.71
26 05 46 00-0094 Square Distribution Poles (26 05 46)		
26 05 46 00-0095 Square Steel Tapered Shaft Distribution Poles (26 05 46 00-0094)		
26 05 46 00-0096 EA 20', Steel Taped Shaft Distribution Pole.....	2,704.64	491.70
26 05 46 00-0097 EA 25', Steel Taped Shaft Distribution Pole.....	3,025.49	520.61
26 05 46 00-0098 EA 30', Steel Taped Shaft Distribution Pole.....	3,286.33	578.46
26 05 46 00-0099 EA 35', Steel Taped Shaft Distribution Pole.....	3,635.21	636.31
26 05 46 00-0100 EA 40', Steel Taped Shaft Distribution Pole.....	4,881.53	694.16
26 05 46 00-0101 Square Prestressed Concrete Distribution Poles (26 05 46 00-0094)		
26 05 46 00-0102 EA 30', Prestressed Concrete Square Pole For Distribution.....	4,348.53	859.74
26 05 46 00-0103 EA 35', Prestressed Concrete Square Pole For Distribution.....	4,915.76	942.94
26 05 46 00-0104 EA 40', Prestressed Concrete Square Pole For Distribution.....	5,770.89	1,053.87
26 05 46 00-0105 EA 45', Prestressed Concrete Square Pole For Distribution.....	6,503.33	1,164.80
26 05 46 00-0106 EA 50', Prestressed Concrete Square Pole For Distribution.....	5,720.54	1,414.41
26 05 46 00-0107 EA 55', Prestressed Concrete Square Pole For Distribution.....	9,173.15	1,664.01
26 05 46 00-0108 EA 60', Prestressed Concrete Square Pole For Distribution.....	10,826.39	1,885.87
26 05 46 00-0109 EA 65', Prestressed Concrete Square Pole For Distribution.....	13,065.85	2,329.61
26 05 46 00-0110 EA 70', Prestressed Concrete Square Pole For Distribution.....	14,637.40	2,551.48
26 05 46 00-0111 Aluminum Tapered Poles (26 05 46)		
26 05 46 00-0112 Aluminum Tapered Round Seamless Shaft Poles (26 05 46 00-0111)		
26 05 46 00-0113 EA 20', Aluminum Tapered Round Seamless Shaft Pole For Distribution	2,417.56	433.85
26 05 46 00-0114 EA 25', Aluminum Tapered Round Seamless Shaft Pole For Distribution	3,331.83	462.77
26 05 46 00-0115 EA 30', Aluminum Tapered Round Seamless Shaft Pole For Distribution	3,826.99	520.61
26 05 46 00-0116 EA 35', Aluminum Tapered Round Seamless Shaft Pole For Distribution	4,522.62	578.46
26 05 46 00-0117 EA 40', Aluminum Tapered Round Seamless Shaft Pole For Distribution	6,742.82	636.31
26 05 46 00-0118 Steel Service Poles Distribution (26 05 46)		
Note: Direct embedded, bearing plate on base end, pole cap on top end, grounding nut, galvanized finish.		
26 05 46 00-0119 Round Tapered Pole (26 05 46 00-0118)		
26 05 46 00-0120 EA 40', Galvanized Steel Tapered Round Pole For Distribution	3,436.89	694.16
26 05 46 00-0121 EA 45', Galvanized Steel Tapered Round Pole For Distribution	3,965.28	752.00
26 05 46 00-0122 EA 50', Galvanized Steel Tapered Round Pole For Distribution	4,229.21	809.85
26 05 46 00-0123 EA 55', Galvanized Steel Tapered Round Pole For Distribution	4,966.65	925.54
26 05 46 00-0124 EA 60', Galvanized Steel Tapered Round Pole For Distribution	6,090.27	1,041.24
26 05 46 00-0125 EA 65', Galvanized Steel Tapered Round Pole For Distribution	7,202.41	1,303.48
26 05 46 00-0126 EA 70', Galvanized Steel Tapered Round Pole For Distribution	8,032.16	1,478.75
26 05 46 00-0127 EA 75', Galvanized Steel Tapered Round Pole For Distribution	8,887.55	1,664.01
26 05 46 00-0128 EA 80', Galvanized Steel Tapered Round Pole For Distribution	9,991.11	1,885.87
26 05 46 00-0129 EA 85', Galvanized Steel Tapered Round Pole For Distribution	10,670.50	1,996.81
26 05 46 00-0130 EA 90', Galvanized Steel Tapered Round Pole For Distribution	11,607.59	2,218.68
26 05 46 00-0131 EA 95', Galvanized Steel Tapered Round Pole For Distribution	12,773.78	2,496.01
26 05 46 00-0132 EA 100', Galvanized Steel Tapered Round Pole For Distribution	14,148.73	2,828.81
26 05 46 00-0133 12 Sided Tapered (26 05 46 00-0118)		
26 05 46 00-0134 EA 40', Galvanized Steel Tapered 12 Sided Pole For Distribution	5,632.55	694.16
26 05 46 00-0135 EA 45', Galvanized Steel Tapered 12 Sided Pole For Distribution	6,208.51	752.00
26 05 46 00-0136 EA 50', Galvanized Steel Tapered 12 Sided Pole For Distribution	6,864.11	809.85
26 05 46 00-0137 EA 55', Galvanized Steel Tapered 12 Sided Pole For Distribution	7,559.96	925.54
26 05 46 00-0138 EA 60', Galvanized Steel Tapered 12 Sided Pole For Distribution	9,953.56	1,041.24
26 05 46 00-0139 EA 65', Galvanized Steel Tapered 12 Sided Pole For Distribution	11,089.45	1,303.48
26 05 46 00-0140 EA 70', Galvanized Steel Tapered 12 Sided Pole For Distribution	12,833.08	1,478.75
26 05 46 00-0141 EA 75', Galvanized Steel Tapered 12 Sided Pole For Distribution	13,839.79	1,664.01
26 05 46 00-0142 EA 80', Galvanized Steel Tapered 12 Sided Pole For Distribution	14,937.14	1,885.87
26 05 46 00-0143 EA 85', Galvanized Steel Tapered 12 Sided Pole For Distribution	15,827.52	1,996.81
26 05 46 00-0144 EA 90', Galvanized Steel Tapered 12 Sided Pole For Distribution	17,948.48	2,218.68
26 05 46 00-0145 EA 95', Galvanized Steel Tapered 12 Sided Pole For Distribution	19,096.91	2,496.01
26 05 46 00-0146 EA 100', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	20,513.36	2,828.81
26 05 46 00-0147 EA 105', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	22,019.55	3,161.61
26 05 46 00-0148 Standard Options For Round, 12 Sided and Octagonal Tapered Poles (26 05 46 00-0118)		
26 05 46 00-0149 EA Ladder Clips.....	18.52	
26 05 46 00-0150 EA Coal Tar Epoxy Coating From Base To 1' Above Ground Line.....	138.94	
26 05 46 00-0151 EA Ground Sleeve-2' At Ground Line	139.75	
26 05 46 00-0152 Arms With Baseplates And Endplates (26 05 46 00-0118)		
26 05 46 00-0153 EA 4' Arm With Baseplate And Endplate	590.01	115.70

26 Electrical**26 05 Common Work Results for Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0154 EA 5' Arm With Baseplate And Endplate	638.63	115.70
26 05 46 00-0155 EA 6' Arm With Baseplate And Endplate	803.86	173.54
26 05 46 00-0156 EA 7' Arm With Baseplate And Endplate	846.39	173.54
26 05 46 00-0157 EA 8' Arm With Baseplate And Endplate	1,009.84	231.38
26 05 46 00-0158 EA 9' Arm With Baseplate And Endplate	1,058.44	231.38
26 05 46 00-0159 EA 10' Arm With Baseplate And Endplate	1,399.06	289.23
26 05 46 00-0160 EA 11' Arm With Baseplate And Endplate	1,453.62	289.23
26 05 46 00-0161 Standard Vangs Load Bearing At Any Angle (26 05 46 00-0118)		
26 05 46 00-0162 EA 15,000 LB Standard Vangs Load Bearing At Any Angle	271.48	115.70
26 05 46 00-0163 EA 30,000 LB Standard Vangs Load Bearing At Any Angle	301.27	115.70
26 05 46 00-0164 EA 45,000 LB Standard Vangs Load Bearing At Any Angle	342.01	115.70
26 05 46 00-0165 Armless Construction Brackets (26 05 46 00-0118)		
26 05 46 00-0166 Verticals Insulator And Equipment Bracket (26 05 46 00-0165)		
26 05 46 00-0167 EA 7" 1 Position Vertical Insulation And Equipment Bracket	276.34	115.70
26 05 46 00-0168 EA 12" 1 Position Vertical Insulation And Equipment Bracket	295.15	115.70
26 05 46 00-0169 EA 12" 3 Position Vertical Insulation And Equipment Bracket	325.71	115.70
26 05 46 00-0170 EA 18" 1 Position Vertical Insulation And Equipment Bracket	461.51	173.54
26 05 46 00-0171 EA 18" 3 Position Vertical Insulation And Equipment Bracket	479.35	173.54
26 05 46 00-0172 Horizontal And Multiple Insulator Brackets (26 05 46 00-0165)		
26 05 46 00-0173 EA Sidepole 1 7/8" Clearance Horizontal And Multiple Insulation Brackets.....	261.69	115.70
26 05 46 00-0174 EA Sidepole 2" Clearance Horizontal And Multiple Insulation Brackets.....	301.22	115.70
26 05 46 00-0175 EA Sidepole 9" Clearance Horizontal And Multiple Insulation Brackets.....	442.36	173.54
26 05 46 00-0176 EA Sidepole 10" Clearance Horizontal And Multiple Insulation Brackets.....	535.65	173.54
26 05 46 00-0177 EA Sidepole 15" Clearance Horizontal And Multiple Insulation Brackets.....	690.10	231.38
26 05 46 00-0178 EA Sidepole 20" Clearance Horizontal And Multiple Insulation Brackets.....	739.61	231.38
26 05 46 00-0179 Pole Top Bracket And Pins (26 05 46 00-0165)		
26 05 46 00-0180 EA Pole Top Pin - 5"	267.43	115.70
26 05 46 00-0181 EA Pole Top Bracket - 5"	277.03	115.70
26 05 46 00-0182 Angle Pins (26 05 46 00-0165)		
26 05 46 00-0183 EA Angle Pin - 25 Degree, 6"	266.13	115.70
26 05 46 00-0184 EA Angle Pin - 25 Degree, 7 1/4"	297.30	115.70
26 05 46 00-0185 Static And Neutral Wire Brackets (26 05 46 00-0165)		
26 05 46 00-0186 EA Neutral Wire Extension Bracket	281.63	115.70
26 05 46 00-0187 EA Static Wire Support Bracket	285.23	115.70
26 05 46 00-0188 Cutout, Arrestor And Terminator Brackets (26 05 46 00-0165)		
26 05 46 00-0189 EA Cutout And Arrestor, With Mounting Bracket	258.94	115.70
26 05 46 00-0190 EA Equipment Mounting T Bracket	276.98	115.70
26 05 46 00-0191 EA 15 KV Cutout.....	359.54	983.39
26 05 46 00-0192 EA 9/10 KV Arrestor.....	334.17	115.70
26 05 46 00-0193 Spacer Cable, Conduit Support And Cluster Bracket (26 05 46 00-0165)		
26 05 46 00-0194 EA Parallel Cable Spacer	307.49	115.70
26 05 46 00-0195 EA Conduit Standoff Support Bracket.....	295.99	115.70
26 05 46 00-0196 EA Three Transformer Pole Mounted Cluster Bracket.....	694.71	115.70
26 05 46 00-0197 15 KV, 200 Amperes, Solenoid Operated High Voltage Switch (26 05 46 00-0165)		
Note: Includes pole mounting bracket.		
26 05 46 00-0198 EA 15 KV, 1 Phase, Solenoid Switch With Pole Bracket	1,696.42	289.23
26 05 46 00-0199 Octagonal Tapered (26 05 46 00-0118)		
26 05 46 00-0200 EA 40', Galvanized Steel Tapered Octagonal Pole For Distribution	5,795.74	694.16
26 05 46 00-0201 EA 45', Galvanized Steel Tapered Octagonal Pole For Distribution	6,389.51	752.00
26 05 46 00-0202 EA 50', Galvanized Steel Tapered Octagonal Pole For Distribution	7,065.88	809.85
26 05 46 00-0203 EA 55', Galvanized Steel Tapered Octagonal Pole For Distribution	7,779.54	983.39
26 05 46 00-0204 EA 60', Galvanized Steel Tapered Octagonal Pole For Distribution	10,256.21	1,041.24
26 05 46 00-0205 EA 65', Galvanized Steel Tapered Octagonal Pole For Distribution	11,415.85	1,303.48
26 05 46 00-0206 EA 70', Galvanized Steel Tapered Octagonal Pole For Distribution	13,212.88	1,386.67
26 05 46 00-0207 EA 75', Galvanized Steel Tapered Octagonal Pole For Distribution	14,244.81	1,664.01
26 05 46 00-0208 EA 80', Galvanized Steel Tapered Octagonal Pole For Distribution	15,365.89	1,774.94
26 05 46 00-0209 EA 85', Galvanized Steel Tapered Octagonal Pole For Distribution	16,281.50	1,996.81
26 05 46 00-0210 EA 90', Galvanized Steel Tapered Octagonal Pole For Distribution	18,466.25	2,107.74



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0211 EA 95', Galvanized Steel Tapered Octagonal Pole For Distribution	19,641.39	2,496.01
26 05 46 00-0212 EA 100', Galvanized Steel Tapered Octagonal Pole For Distribution	21,084.55	2,662.41
26 05 46 00-0213 EA 105', Galvanized Steel Tapered Octagonal Pole For Distribution	22,620.41	2,995.21
26 05 46 00-0214 Removal And Relocation Of Steel Service Poles <small>(26 05 46 00-0118)</small>		
26 05 46 00-0215 LF Removal And Relocation Of Steel Service Poles With Arms Up To 60'	40.49	
26 05 46 00-0216 Special Steel Bases For Poles <small>(26 05 46 00-0118)</small>		
26 05 46 00-0217 EA Spin-In Steel Base For Poles	214.44	
26 05 46 00-0218 EA Series 3, 25' Pole And less	235.27	57.85
26 05 46 00-0219 EA Series 4, 40' Pole And less	279.20	66.52
26 05 46 00-0220 EA Series 5, 50' Pole And less	317.34	72.31
26 05 46 00-0221 Primary Fuse Cutouts <small>(26 05 46)</small>		
<small>Note: Interrupting rating RMS, amperes - 25,000 symmetric and 40,000 asymmetric.</small>		
26 05 46 00-0222 Non-Loadbreak Current Limiting Primary Fuse Cutouts <small>(26 05 46 00-0221)</small>		
<small>Note: Includes the fuse and cut-out switch.</small>		
26 05 46 00-0223 8.3 KV-95 KV-BIL Non-Loadbreak Current Limiting <small>(26 05 46 00-0222)</small>		
26 05 46 00-0224 EA 15 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting	577.69	289.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	138.83	
26 05 46 00-0225 EA 25 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting	693.38	289.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	173.54	
26 05 46 00-0226 EA 40 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting	808.69	289.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	208.13	
26 05 46 00-0227 EA 100 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting	819.82	289.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	208.26	
26 05 46 00-0228 EA 200 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting	819.82	289.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	208.26	
26 05 46 00-0229 17.1 KV-95 KV-BIL Non-Loadbreak Current Limiting <small>(26 05 46 00-0222)</small>		
26 05 46 00-0230 EA 15 A Primary Fuse Cutout 17.1 KV - 95 KV Non-Loadbreak Current Limiting	577.69	231.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	138.83	
26 05 46 00-0231 17.1 KV-125 KV-BIL Non-Loadbreak Current Limiting <small>(26 05 46 00-0222)</small>		
26 05 46 00-0232 EA 15 A Primary Fuse Cutout 17.1 KV - 125 KV Non-Loadbreak Current Limiting	592.18	231.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	138.83	
26 05 46 00-0233 Fuseholders <small>(26 05 46 00-0222)</small>		
<small>Note: Including current limiting fuse.</small>		
26 05 46 00-0234 EA 15 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting	516.61	289.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	138.83	
26 05 46 00-0235 EA 25 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting	632.30	289.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	173.54	
26 05 46 00-0236 EA 40 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting	747.61	289.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	208.13	
26 05 46 00-0237 EA 100 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting	521.62	289.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	138.83	
26 05 46 00-0238 EA 200 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting	637.31	289.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	173.54	
26 05 46 00-0239 EA 15 A 17.1 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting	516.61	231.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	138.83	
26 05 46 00-0240 Accessories <small>(26 05 46 00-0222)</small>		
26 05 46 00-0241 EA Hot Line Clamp	72.80	26.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	17.36	
26 05 46 00-0242 EA Stirrup	77.41	26.03
26 05 46 00-0243 Loadbreak Current Limiting Primary Fuse Cutouts <small>(26 05 46 00-0221)</small>		
<small>Note: Includes fuse, cutout switch, crossarm mounting bracket and fuse holder.</small>		
26 05 46 00-0244 8.3 KV-95 KV BIL Loadbreak Current Limiting <small>(26 05 46 00-0243)</small>		
26 05 46 00-0245 EA 15 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting	690.54	289.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	138.83	
26 05 46 00-0246 EA 25 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting	806.23	289.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	173.54	
26 05 46 00-0247 EA 40 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting	921.54	289.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	208.13	
26 05 46 00-0248 EA 100 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting	943.18	289.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	208.26	
26 05 46 00-0249 EA 200 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting	943.18	289.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	208.26	

26 Electrical**26 05 Common Work Results for Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0250 17.1 KV-95 KV BIL Loadbreak Current Limiting (26 05 46 00-0243)		
26 05 46 00-0251 EA 15 A Primary Fuse Cutout 17.1 KV - 95 KV Loadbreak Current Limiting .....690.54 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 138.83		231.38
26 05 46 00-0252 17.1 KV-125 KV BIL Loadbreak Current Limiting (26 05 46 00-0243)		
26 05 46 00-0253 EA 15 A Primary Fuse Cutout 17.1 KV - 125 KV Loadbreak Current Limiting .....690.54 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 138.83		231.38
26 05 46 00-0254 Fuseholders (26 05 46 00-0243) Note: Includes current limiting fuses.		
26 05 46 00-0255 EA 15 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting .....521.78 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 138.83		289.23
26 05 46 00-0256 EA 25 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting .....637.47 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 173.54		289.23
26 05 46 00-0257 EA 40 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting .....752.78 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 208.13		289.23
26 05 46 00-0258 EA 15 Amperes, 17.1 KV Primary Fuseholder With Fuse Loadbreak Current Limiting .....521.78 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 138.83		289.23
26 05 46 00-0259 Pole Mounted Capacitors (26 05 46 00-0243)		
26 05 46 00-0260 EA Capacitors - Pole Mounted 6 KVAR .....1,109.68		233.24
26 05 46 00-0261 Pole Structure Assemblies (26 05 46 00-0221)		
26 05 46 00-0262 5 KV Pole Structure Assemblies (26 05 46 00-0261) Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 05 46 00-0263 EA Type OH-1, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....459.36		219.81
26 05 46 00-0264 EA Type OH-2, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....769.29		370.22
26 05 46 00-0265 EA Type OH-3, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....784.27		289.23
26 05 46 00-0266 EA Type OH-4, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....433.42		150.40
26 05 46 00-0267 EA Type OH-5, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....564.35		208.24
26 05 46 00-0268 EA Type OH-6, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,025.16		416.50
26 05 46 00-0269 EA Type OH-7, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....792.70		312.37
26 05 46 00-0270 EA Type OH-8, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,493.71		624.74
26 05 46 00-0271 EA Type OH-9, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,690.52		705.73
26 05 46 00-0272 EA Type OH-10, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....899.94		347.08
26 05 46 00-0273 EA Type OH-11, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....814.84		370.22
26 05 46 00-0274 EA Type OH-12, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,571.64		752.00
26 05 46 00-0275 EA Type OH-13, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,113.74		451.21
26 05 46 00-0276 EA Type OH-14, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....723.49		323.94
26 05 46 00-0277 EA Type OH-15, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,401.45		659.45
26 05 46 00-0278 EA Type OH-16, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,018.37		335.51
26 05 46 00-0279 15 KV Pole Structure Assemblies (26 05 46 00-0261) Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 05 46 00-0280 EA Type OH-1, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....473.85		219.81
26 05 46 00-0281 EA Type OH-2, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....790.00		370.22
26 05 46 00-0282 EA Type OH-3, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....854.67		289.23
26 05 46 00-0283 EA Type OH-4, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....458.27		150.40
26 05 46 00-0284 EA Type OH-5, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....599.54		196.67
26 05 46 00-0285 EA Type OH-6, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,095.56		416.50
26 05 46 00-0286 EA Type OH-7, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....844.47		312.37
26 05 46 00-0287 EA Type OH-8, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,599.31		624.74
26 05 46 00-0288 EA Type OH-9, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,833.40		705.73
26 05 46 00-0289 EA Type OH-10, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....970.34		347.08
26 05 46 00-0290 EA Type OH-11, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....841.76		370.22
26 05 46 00-0291 EA Type OH-12, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,598.56		752.00
26 05 46 00-0292 EA Type OH-13, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,167.58		451.21
26 05 46 00-0293 EA Type OH-14, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....750.41		312.37
26 05 46 00-0294 EA Type OH-15, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,428.37		659.45
26 05 46 00-0295 EA Type OH-16, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,072.21		404.93
26 05 46 00-0296 25 KV Pole Structure Assemblies (26 05 46 00-0261) Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 05 46 00-0297 EA Type OH-3, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,216.74		347.08
26 05 46 00-0298 EA Type OH-4, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....718.34		173.54
26 05 46 00-0299 EA Type OH-5, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,047.25		266.09
26 05 46 00-0300 EA Type OH-6, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,514.18		543.75
26 05 46 00-0301 EA Type OH-7, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,361.09		404.93
26 05 46 00-0302 EA Type OH-8, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....2,307.93		798.28
26 05 46 00-0303 EA Type OH-9, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....2,295.46		902.40
26 05 46 00-0304 EA Type OH-13, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,547.31		526.40
26 05 46 00-0305 EA Type OH-16, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer .....1,372.52		526.40



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0306				50 KV Pole Structure Assemblies <small>(26 05 46 00-0261)</small> Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
				26 05 46 00-0307 EA Type OH-3, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,635.24	474.34
				26 05 46 00-0308 EA Type OH-4, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	876.51	242.95
				26 05 46 00-0309 EA Type OH-5, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,170.91	381.79
				26 05 46 00-0310 EA Type OH-6, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,234.15	775.14
				26 05 46 00-0311 EA Type OH-7, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,703.57	578.46
				26 05 46 00-0312 EA Type OH-8, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	3,305.67	1,156.93
				26 05 46 00-0313 EA Type OH-9, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	3,850.58	1,284.19
				26 05 46 00-0314 EA Type OH-10, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,940.96	624.74
				26 05 46 00-0315 EA Type OH-13, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,023.86	723.08
				26 05 46 00-0316 EA Type OH-16, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,938.79	682.59
26 05 46 00-0317				Overhead To Underground Conversion Structures <small>(26 05 46 00-0221)</small> Note: Includes insulator with pin, bolts, washers, crossarms, fused cut out, arrestors, ground rods, clamps, conduit, molding, cable termination and neutral wire brackets. Excludes pole.		
26 05 46 00-0318				5 KV Structures <small>(26 05 46 00-0317)</small> Note: Excludes pole.		
				26 05 46 00-0319 EA (3 Wire Dead End), 5 KV, Overhead To Underground Conversion Structures, Without Poles	4,346.93	2,313.85
				26 05 46 00-0320 EA (3 Wire Tangent), 5 KV, Overhead To Underground Conversion Structures, Without Poles	4,346.93	2,313.85
				26 05 46 00-0321 EA (4 Wire Tangent), 5 KV, Overhead To Underground Conversion Structures, Without Poles	4,346.93	2,313.85
				26 05 46 00-0322 EA (4 Wire Dead End), 5 KV, Overhead To Underground Conversion Structures, Without Poles	4,346.93	2,313.85
26 05 46 00-0323				15 KV Structures <small>(26 05 46 00-0317)</small> Note: Excludes pole.		
				26 05 46 00-0324 EA (3 Wire Dead End), 15 KV, Overhead To Underground Conversion Structures, Without Poles	4,444.36	2,313.85
				26 05 46 00-0325 EA (3 Wire Tangent), 15 KV, Overhead To Underground Conversion Structures, Without Poles	4,444.36	2,313.85
				26 05 46 00-0326 EA (4 Wire Tangent), 15 KV, Overhead To Underground Conversion Structures, Without Poles	4,444.36	2,313.85
				26 05 46 00-0327 EA (4 Wire Dead End), 15 KV, Overhead To Underground Conversion Structures, Without Poles	4,444.36	2,313.85
26 05 46 00-0328				25 KV Structures <small>(26 05 46 00-0317)</small> Note: Excludes pole.		
				26 05 46 00-0329 EA (3 Wire Dead End), 25 KV, Overhead To Underground Conversion Structures, Without Poles	4,550.64	2,313.85
				26 05 46 00-0330 EA (3 Wire Tangent), 25 KV, Overhead To Underground Conversion Structures, Without Poles	4,550.64	2,313.85
				26 05 46 00-0331 EA (4 Wire Tangent), 25 KV, Overhead To Underground Conversion Structures, Without Poles	4,550.64	2,313.85
				26 05 46 00-0332 EA (4 Wire Dead End), 25 KV, Overhead To Underground Conversion Structures, Without Poles	4,550.64	2,313.85
26 05 46 00-0333				Transformer Stations <small>(26 05 46 00-0221)</small> Note: Includes insulator with pin, bolts, washers, crossarms, fused cut out, arrestors, ground rods, clamps, conduit, molding, cable termination, neutral wire brackets and transformer mounting bracket(s). Excludes pole and transformer.		
26 05 46 00-0334				5 KV Station <small>(26 05 46 00-0333)</small>		
				26 05 46 00-0335 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 5 KV Transformer Station Without Pole	5,938.56	3,084.37
				26 05 46 00-0336 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 5 KV Transformer Station Without Pole	6,667.58	3,470.78
				26 05 46 00-0337 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 5 KV Transformer Station Without Pole	7,396.61	3,856.04
				26 05 46 00-0338 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 5 KV Transformer Station Without Pole	7,396.61	3,856.04
				26 05 46 00-0339 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 5 KV Transformer Station Without Pole	5,938.56	3,084.37
26 05 46 00-0340				15 KV Stations <small>(26 05 46 00-0333)</small>		
				26 05 46 00-0341 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 15 KV Transformer Station Without Pole	6,035.98	3,083.50
				26 05 46 00-0342 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 15 KV Transformer Station Without Pole	6,765.01	3,470.78
				26 05 46 00-0343 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 15 KV Transformer Station Without Pole	7,494.04	3,856.04
				26 05 46 00-0344 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 15 KV Transformer Station Without Pole	7,494.04	3,856.04
				26 05 46 00-0345 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 15 KV Transformer Station Without Pole	6,035.98	3,084.37
26 05 46 00-0346				25 KV Stations <small>(26 05 46 00-0333)</small>		
				26 05 46 00-0347 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 25 KV Transformer Station Without Pole	6,142.27	3,084.37
				26 05 46 00-0348 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 25 KV Transformer Station Without Pole	6,871.30	3,470.78
				26 05 46 00-0349 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 25 KV Transformer Station Without Pole	7,600.32	3,856.04
				26 05 46 00-0350 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 25 KV Transformer Station Without Pole	7,600.32	3,856.04
				26 05 46 00-0351 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 25 KV Transformer Station Without Pole	6,142.27	3,084.37
26 05 53 Identification for Electrical Systems <small>(26 05)</small>						
26 05 53 00-0001				Conduit Markers Pressure-Sensitive <small>(26 05 53)</small> Note: Stick-on, includes arrow tape.		
				26 05 53 00-0002 EA 1/2" Outside Diameter Pressure Sensitive Marker Stick-on	13.03	
				26 05 53 00-0003 EA 3/4" Outside Diameter Pressure Sensitive Marker Stick-on	13.53	
				26 05 53 00-0004 EA 1" Outside Diameter Pressure Sensitive Marker Stick-on	14.55	
				26 05 53 00-0005 EA 1-1/4" Outside Diameter Pressure Sensitive Marker Stick-on	14.75	
				26 05 53 00-0006 EA 1-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	14.95	
				26 05 53 00-0007 EA 2" Outside Diameter Pressure Sensitive Marker Stick-on	15.26	

26 Electrical**26 05 Common Work Results for Electrical****26 05 53 Identification for Electrical Systems**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 05 53 00-0008	EA	2-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	18.85	
26 05 53 00-0009	EA	3" Outside Diameter Pressure Sensitive Marker Stick-on	19.25	
26 05 53 00-0010	EA	3-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	19.55	
26 05 53 00-0011	EA	4" Outside Diameter Pressure Sensitive Marker Stick-on	19.87	
26 05 53 00-0012	EA	4-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	20.50	
26 05 53 00-0013	EA	5" Outside Diameter Pressure Sensitive Marker Stick-on	21.17	
26 05 53 00-0014	EA	6" Outside Diameter Pressure Sensitive Marker Stick-on	21.77	
26 05 53 00-0015	EA	7" Outside Diameter Pressure Sensitive Marker Stick-on	22.37	
26 05 53 00-0016	EA	8" Outside Diameter Pressure Sensitive Marker Stick-on	25.17	
26 05 53 00-0017	EA	10" Outside Diameter Pressure Sensitive Marker Stick-on	26.27	

26 05 53 00-0018 Labeling Electrical Wires (26 05 53)

Note: Self-adhesive vinyl coated white cloth

26 05 53 00-0019	EA	Labeling Wire	3.11	
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26 05 53 00-0020 Equipment Labeling (26 05 53)

26 05 53 00-0021	EA	Label Both Ends Of One 4 Pair Cable.....	19.87	
26 05 53 00-0022	EA	Label single gang face plate (2 labels required).....	15.90	
26 05 53 00-0023	EA	Label two gang face plate (4 labels required)	23.85	
26 05 53 00-0024	EA	Label both ends of a Siamese (dual 4 Pair cable).....	19.87	

26 05 83 Wiring Connections (26 05)**26 05 83 00-0001 Tape Wrapped Compression Connectors** (26 05 83)

26 05 83 00-0002	EA	#6 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	13.65	4.54
26 05 83 00-0003	EA	#4 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	14.98	5.05
26 05 83 00-0004	EA	#2 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	16.24	5.55
26 05 83 00-0005	EA	1/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	18.81	6.06
26 05 83 00-0006	EA	2/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	20.24	6.57
26 05 83 00-0007	EA	3/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	22.46	7.07
26 05 83 00-0008	EA	4/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	24.08	7.57
26 05 83 00-0009	EA	250 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	26.23	8.08
26 05 83 00-0010	EA	300 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	29.03	9.08
26 05 83 00-0011	EA	350 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	30.45	9.60
26 05 83 00-0012	EA	400 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	33.93	10.10
26 05 83 00-0013	EA	500 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	36.98	10.60
26 05 83 00-0014	EA	750 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	41.34	11.61
26 05 83 00-0015	EA	1,000 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	48.00	13.12

26 05 83 00-0016 One Hole Compression Lugs (26 05 83)

26 05 83 00-0017	EA	#22-18 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	17.52	13.12
26 05 83 00-0018	EA	#16-14 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	17.66	13.12
26 05 83 00-0019	EA	#12-10 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	20.00	14.14
26 05 83 00-0020	EA	#8 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	24.86	15.65
26 05 83 00-0021	EA	#6 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	34.85	20.19
26 05 83 00-0022	EA	#4 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	40.73	20.19
26 05 83 00-0023	EA	#2 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	46.86	20.19
26 05 83 00-0024	EA	1/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	57.64	30.29
26 05 83 00-0025	EA	2/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	67.50	30.29
26 05 83 00-0026	EA	3/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	78.95	30.29
26 05 83 00-0027	EA	4/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	95.16	40.40
26 05 83 00-0028	EA	250 MCM Low Voltage (To 600 Volt) One Hole Compression Lug	112.84	60.59
26 05 83 00-0029	EA	300 MCM Low Voltage (To 600 Volt) One Hole Compression Lug	129.10	60.59
26 05 83 00-0030	EA	350 MCM Low Voltage (To 600 Volt) One Hole Compression Lug	138.72	60.59
26 05 83 00-0031	EA	400 MCM Low Voltage (To 600 Volt) One Hole Compression Lug	151.15	70.69
26 05 83 00-0032	EA	500 MCM Low Voltage (To 600 Volt) One Hole Compression Lug	165.30	70.69
26 05 83 00-0033	EA	750 MCM Low Voltage (To 600 Volt) One Hole Compression Lug	179.59	80.78
26 05 83 00-0034	EA	1,000 MCM Compression Lugs, 1 Hole, Low Voltage, To 600 Volt.....	211.55	90.88

26 05 83 00-0035 Two Hole Compression Lugs (26 05 83)

26 05 83 00-0036	EA	#8 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug	35.85	17.17
26 05 83 00-0037	EA	#6 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug	38.53	18.28
26 05 83 00-0038	EA	#4 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug	40.57	18.28
26 05 83 00-0039	EA	#2 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug	46.68	21.01
26 05 83 00-0040	EA	1/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug	57.45	26.26
26 05 83 00-0041	EA	2/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug	67.30	31.20
26 05 83 00-0042	EA	3/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug	78.73	36.56
26 05 83 00-0043	EA	4/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug	94.91	44.33
26 05 83 00-0044	EA	250 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug	112.55	52.61
26 05 83 00-0045	EA	300 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug	128.76	60.08
26 05 83 00-0046	EA	350 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug	138.37	64.73
26 05 83 00-0047	EA	400 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug	150.74	70.09
26 05 83 00-0048	EA	500 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug	164.83	76.54
26 05 83 00-0049	EA	750 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug	180.23	83.01
26 05 83 00-0050	EA	1,000 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug	223.43	100.98



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 05 83 00-0051			Tape Wrapped Split Bolt Connectors <small>(26 05 83)</small>		
	26 05 83 00-0052	EA		#8 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	53.35	40.40
	26 05 83 00-0053	EA		#6 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	58.66	43.43
	26 05 83 00-0054	EA		#4 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	66.89	45.44
	26 05 83 00-0055	EA		#2 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	77.76	50.49
	26 05 83 00-0056	EA		1/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	91.90	55.54
	26 05 83 00-0057	EA		2/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	103.38	60.59
	26 05 83 00-0058	EA		3/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	129.34	65.63
	26 05 83 00-0059	EA		4/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	138.79	70.69
	26 05 83 00-0060	EA		250 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	146.32	75.73
	26 05 83 00-0061	EA		300 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	167.45	83.31
	26 05 83 00-0062	EA		350 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	188.56	121.18
	26 05 83 00-0063	EA		400 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	206.73	100.98
	26 05 83 00-0064	EA		500 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	224.88	136.32
	26 05 83 00-0065	EA		750 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	250.41	141.38
	26 05 83 00-0066	EA		1,000 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	284.52	151.47
	26 05 83 00-0067			Cable Termination Lugs Handwrapped, No Stress Cone <small>(26 05 83)</small>		
	26 05 83 00-0068	EA		#8 Or #6 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	89.42	40.40
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.20	
	26 05 83 00-0069	EA		#4 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	99.35	40.40
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.04	
	26 05 83 00-0070	EA		1/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	137.44	60.59
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.66	
	26 05 83 00-0071	EA		4/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	155.83	60.59
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.84	
	26 05 83 00-0072	EA		300 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	186.65	75.73
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.90	
	26 05 83 00-0073	EA		500 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	261.16	100.98
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.11	
	26 05 83 00-0074			Terminal Blocks <small>(26 05 83)</small>		
				Note: Labor excludes wire termination.		
	26 05 83 00-0075	EA		Power Distribution Block, 250 MCM 3 Phase Terminal Block, No Labor Wire Termination, 600 Volt.....	901.19	373.63
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	224.40	
	26 05 83 00-0076	EA		#22 To #10 Wire Size, 12 Point, 600 Volt Terminal Block.....	240.19	50.59
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.65	
	26 05 83 00-0077	EA		#8 To #2 Wire Size, 12 Point, 600 Volt Terminal Block.....	265.96	50.59
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.98	
	26 05 83 00-0078			Parallel Gutter Tap Or Motor Connection <small>(26 05 83)</small>		
	26 05 83 00-0079	EA		#8 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	35.84	18.28
	26 05 83 00-0080	EA		#6 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	38.53	18.28
	26 05 83 00-0081	EA		#4 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	40.57	18.28
	26 05 83 00-0082	EA		#2 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	46.68	21.01
	26 05 83 00-0083	EA		1/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	57.45	26.26
	26 05 83 00-0084	EA		2/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	67.30	31.20
	26 05 83 00-0085	EA		3/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	78.73	36.56
	26 05 83 00-0086	EA		4/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	94.91	44.33
	26 05 83 00-0087	EA		250 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	112.55	52.61
	26 05 83 00-0088	EA		300 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	128.76	60.08
	26 05 83 00-0089	EA		350 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	138.37	64.73
	26 05 83 00-0090	EA		400 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	150.74	70.09
	26 05 83 00-0091	EA		500 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	164.83	76.54
	26 05 83 00-0092	EA		750 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	165.25	76.54
	26 05 83 00-0093	EA		#8 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	35.84	18.28
	26 05 83 00-0094	EA		#6 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	38.53	18.28
	26 05 83 00-0095	EA		#4 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	40.57	18.28
	26 05 83 00-0096	EA		#2 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	46.68	21.01
	26 05 83 00-0097	EA		1/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	57.45	26.26
	26 05 83 00-0098	EA		2/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	67.30	31.20
	26 05 83 00-0099	EA		3/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	78.73	36.56
	26 05 83 00-0100	EA		4/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	94.91	44.33
	26 05 83 00-0101	EA		250 MCM Parallel Gutter Tap, Versitap, Insulating Cover.....	112.55	52.61
	26 05 83 00-0102	EA		300 MCM Parallel Gutter Tap, Versitap, Insulating Cover.....	128.76	60.08
	26 05 83 00-0103	EA		350 MCM Parallel Gutter Tap, Versitap, Insulating Cover.....	138.37	64.73
	26 05 83 00-0104	EA		400 MCM Parallel Gutter Tap, Versitap, Insulating Cover.....	150.74	70.09
	26 05 83 00-0105	EA		500 MCM Parallel Gutter Tap, Versitap, Insulating Cover.....	164.83	76.54
	26 05 83 00-0106	EA		750 MCM Parallel Gutter Tap, Versitap, Insulating Cover.....	165.25	76.54
	26 05 83 00-0107			Copper Mechanical Lugs <small>(26 05 83)</small>		
	26 05 83 00-0108	EA		#8 Copper Mechanical Lugs.....	27.99	12.62
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.58	
	26 05 83 00-0109	EA		#6 Copper Mechanical Lugs.....	33.63	15.25
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.15	

26 Electrical
26 05 Common Work Results for Electrical
26 05 83 Wiring Connections



Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include items like #4 Copper Mechanical Lugs, Gel Connectors, Other Connections, Motor/Equipment Connections And Terminations, AC Single Phase, 230 Volt, and AC Three Phase, 230 Volt.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 05 83 00-0161	EA	125 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	810.78	300.42
26 05 83 00-0162	EA	150 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	959.66	350.40
26 05 83 00-0163	EA	200 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	1,370.45	525.50

26 05 83 00-0164 AC Three Phase, 460 Volt (26 05 83 00-0130)

26 05 83 00-0165	EA	1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	61.35	25.25
26 05 83 00-0166	EA	3/4 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	71.90	30.29
26 05 83 00-0167	EA	1 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	87.88	37.87
26 05 83 00-0168	EA	1-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	88.64	37.87
26 05 83 00-0169	EA	2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	88.79	37.87
26 05 83 00-0170	EA	3 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	91.28	37.87
26 05 83 00-0171	EA	5 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	116.82	50.49
26 05 83 00-0172	EA	7-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	119.61	50.49
26 05 83 00-0173	EA	10 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	151.11	63.12
26 05 83 00-0174	EA	15 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	154.88	63.12
26 05 83 00-0175	EA	20 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	195.00	75.73
26 05 83 00-0176	EA	25 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	200.72	75.73
26 05 83 00-0177	EA	30 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	273.63	100.98
26 05 83 00-0178	EA	40 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	343.27	126.43
26 05 83 00-0179	EA	50 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	404.48	151.47
26 05 83 00-0180	EA	60 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	481.05	176.72
26 05 83 00-0181	EA	75 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	552.81	201.97
26 05 83 00-0182	EA	100 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	686.31	252.45
26 05 83 00-0183	EA	125 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	811.06	300.52
26 05 83 00-0184	EA	150 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	960.05	350.61
26 05 83 00-0185	EA	200 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	1,371.33	525.91

26 05 83 00-0186 AC Single Phase, 120 Volt (26 05 83 00-0130)

26 05 83 00-0187	EA	1/2 HP AC And Less Single Phase, 120 Volt Motor/Equipment, Connection, Termination And Rotation Testing	61.73	25.25
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26 05 83 00-0188 Motor Moisture Sensor (26 05 83 00-0130)

26 05 83 00-0189	EA	Motor Moisture Sensor Located In Winding	621.15	
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26 09 Instrumentation and Control for Electrical Systems (26)

Note: Includes testing of new devices and certification.

26 09 23 Lighting Control Devices (26 09)

26 09 23 00-0001 Lighting Contactors (26 09 23)

Note: Up to 600 volt.

26 09 23 00-0002 Electrically Held, Lighting Contactors (26 09 23 00-0001)

26 09 23 00-0003 NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)

26 09 23 00-0004 2-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0003)

26 09 23 00-0005	EA	20 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	487.75	80.78
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>48.47</i>	
26 09 23 00-0006	EA	30 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	608.33	90.88
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>54.53</i>	
26 09 23 00-0007	EA	60 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	1,156.51	141.38
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>84.83</i>	
26 09 23 00-0008	EA	100 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	1,818.49	191.87
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>115.12</i>	
26 09 23 00-0009	EA	200 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	3,878.96	252.45
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>151.47</i>	

26 09 23 00-0010 3-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0003)

26 09 23 00-0011	EA	20 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	551.04	90.88
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>54.53</i>	
26 09 23 00-0012	EA	30 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	666.18	100.98
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>60.59</i>	
26 09 23 00-0013	EA	60 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	1,247.08	161.57
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>96.94</i>	
26 09 23 00-0014	EA	100 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	1,961.05	212.06
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>127.24</i>	
26 09 23 00-0015	EA	200 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	4,159.76	277.70
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>166.62</i>	

26 09 23 00-0016 4-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0003)

26 09 23 00-0017	EA	20 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	652.55	100.98
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>60.59</i>	
26 09 23 00-0018	EA	30 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	789.43	111.07
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>66.65</i>	
26 09 23 00-0019	EA	60 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	1,516.89	181.76
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>109.06</i>	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0020	EA		100 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,359.00 139.35	232.26
26 09 23 00-0021	EA		200 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,342.11 181.77	302.94
26 09 23 00-0022			NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)		
26 09 23 00-0023			2-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0022)		
26 09 23 00-0024	EA		20 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	834.51 48.47	80.78
26 09 23 00-0025	EA		30 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,068.07 54.53	90.88
26 09 23 00-0026	EA		60 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,073.28 84.83	141.38
26 09 23 00-0027	EA		100 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,120.61 115.12	191.87
26 09 23 00-0028	EA		200 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,101.45 151.47	252.45
26 09 23 00-0029			3-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0022)		
26 09 23 00-0030	EA		20 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	861.55 54.53	90.88
26 09 23 00-0031	EA		30 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,125.91 60.59	100.98
26 09 23 00-0032	EA		60 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,166.55 96.94	161.57
26 09 23 00-0033	EA		100 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,262.28 127.24	212.06
26 09 23 00-0034	EA		200 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,381.35 166.62	277.70
26 09 23 00-0035			4-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0022)		
26 09 23 00-0036	EA		20 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	929.76 60.59	100.98
26 09 23 00-0037	EA		30 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,249.16 66.65	111.07
26 09 23 00-0038	EA		60 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,793.92 109.06	181.76
26 09 23 00-0039	EA		100 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,017.80 139.35	232.26
26 09 23 00-0040	EA		200 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,549.48 181.77	302.94
26 09 23 00-0041			Mechanically Held, Lighting Contactors (26 09 23 00-0001)		
26 09 23 00-0042			NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0041)		
26 09 23 00-0043			2-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0042)		
26 09 23 00-0044	EA		20 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	740.47 48.47	80.78
26 09 23 00-0045	EA		30 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	843.13 54.53	90.88
26 09 23 00-0046	EA		60 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,613.55 84.83	141.38
26 09 23 00-0047	EA		100 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,251.33 115.12	191.87
26 09 23 00-0048	EA		200 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,284.15 151.47	252.45
26 09 23 00-0049			3-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0042)		
26 09 23 00-0050	EA		20 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	789.07 54.53	90.88
26 09 23 00-0051	EA		30 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	902.77 60.59	100.98
26 09 23 00-0052	EA		60 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,706.82 96.94	161.57
26 09 23 00-0053	EA		100 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,394.79 127.24	212.06
26 09 23 00-0054	EA		200 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,945.81 166.62	277.70
26 09 23 00-0055			4-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0042)		
26 09 23 00-0056	EA		20 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	850.42 60.59	100.98
26 09 23 00-0057	EA		30 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	960.60 66.65	111.07



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0058 EA 60 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,000.82 109.06	181.76
26 09 23 00-0059 EA 100 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,818.73 139.35	232.26
26 09 23 00-0060 EA 200 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,195.38 181.77	302.94
26 09 23 00-0061 NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0041)		
26 09 23 00-0062 2-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0061)		
26 09 23 00-0063 EA 20 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,131.30 48.47	80.78
26 09 23 00-0064 EA 30 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,302.86 54.53	90.88
26 09 23 00-0065 EA 60 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,533.02 84.83	141.38
26 09 23 00-0066 EA 100 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,553.46 115.12	191.87
26 09 23 00-0067 EA 200 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,504.84 151.47	252.45
26 09 23 00-0068 3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0061)		
26 09 23 00-0069 EA 20 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,192.63 54.53	90.88
26 09 23 00-0070 EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,362.50 60.59	100.98
26 09 23 00-0071 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,626.28 96.94	161.57
26 09 23 00-0072 EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,697.81 127.24	212.06
26 09 23 00-0073 EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,168.29 166.62	277.70
26 09 23 00-0074 4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0061)		
26 09 23 00-0075 EA 20 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,258.88 60.59	100.98
26 09 23 00-0076 EA 30 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,420.33 66.65	111.07
26 09 23 00-0077 EA 60 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,277.85 109.06	181.76
26 09 23 00-0078 EA 100 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,477.53 139.35	232.26
26 09 23 00-0079 EA 200 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,337.32 181.77	302.94
26 09 23 00-0080 Combination Lighting Contactors (26 09 23) Note: Up to 600 volt.		
26 09 23 00-0081 Electrically Held, Combination Lighting Contactors (26 09 23 00-0080)		
26 09 23 00-0082 NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0081)		
26 09 23 00-0083 3-Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0082)		
26 09 23 00-0084 EA 30 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,452.14 66.65	111.07
26 09 23 00-0085 EA 60 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,275.03 106.64	177.73
26 09 23 00-0086 EA 100 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,700.79 139.96	233.27
26 09 23 00-0087 EA 200 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,817.31 183.28	305.47
26 09 23 00-0088 NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0081)		
26 09 23 00-0089 3-Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0088)		
26 09 23 00-0090 EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,676.75 66.65	111.07

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0091 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	4,162.35	177.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	106.64	
26 09 23 00-0092 EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	6,994.19	233.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	139.96	
26 09 23 00-0093 EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	11,030.17	305.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	183.28	
26 09 23 00-0094 Mechanically Held, Combination Lighting Contactors <small>(26 09 23 00-0090)</small>		
26 09 23 00-0095 NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactors <small>(26 09 23 00-0094)</small>		
26 09 23 00-0096 3-Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactors <small>(26 09 23 00-0095)</small>		
26 09 23 00-0097 EA 30 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	1,591.95	111.07
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66.65	
26 09 23 00-0098 EA 60 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	2,758.96	177.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	106.64	
26 09 23 00-0099 EA 100 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	4,159.18	233.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	139.96	
26 09 23 00-0100 EA 200 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	8,119.88	305.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	183.28	
26 09 23 00-0101 NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactors <small>(26 09 23 00-0094)</small>		
26 09 23 00-0102 3-Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactors <small>(26 09 23 00-0101)</small>		
26 09 23 00-0103 EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	2,817.90	111.07
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66.65	
26 09 23 00-0104 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	4,648.97	177.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	106.64	
26 09 23 00-0105 EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	7,453.92	233.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	139.96	
26 09 23 00-0106 EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	12,332.74	305.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	183.28	
26 09 23 00-0107 Photo-Cell, Relay, Lighting Arrester, Receptacle And Bracket <small>(26 09 23)</small>		
26 09 23 00-0108 EA 105 To 130 Volt Relay, Photo-Cell, Lighting Arrester, Receptacle And Bracket	121.82	26.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.78	
26 09 23 00-0109 EA 105 To 285 Volt Relay, Photo-Cell, Lighting Arrester, Receptacle And Bracket	133.29	26.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.78	
26 09 23 00-0110 Dimming Module System (Lutron Grafik Eye) <small>(26 09 23)</small>		
26 09 23 00-0111 EA 2,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-2).....	1,240.24	100.98
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.59	
26 09 23 00-0112 EA 4,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-4).....	1,592.87	100.98
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.59	
26 09 23 00-0113 EA 6,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-6).....	1,951.78	100.98
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.59	
26 09 23 00-0114 Dimming Module Contol (Leviton) <small>(26 09 23)</small>		
26 09 23 00-0115 EA 5 Amperes, Wireless Dimming Module (Leviton WSD05-9D0)	160.38	12.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.59	
26 09 23 00-0116 Light Control Panels <small>(26 09 23)</small>		
26 09 23 00-0117 Lighting Control Panels (Watt Stopper) <small>(26 09 23 00-0116)</small>		
26 09 23 00-0118 Lighting Control Panels (Watt Stopper) <small>(26 09 23 00-0117)</small>		
26 09 23 00-0119 EA 4 Relays, Surface Mount, Lighting Control Panel (Watt Stopper LP8S-4).....	1,530.99	141.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.99	
26 09 23 00-0120 EA 8 Relays, Surface Mount, Lighting Control Panel (Watt Stopper LP8S-8).....	1,437.72	151.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	91.06	
26 09 23 00-0121 EA 8 Relays, Surface Mount, Lighting Control Panel With Group Switching Card (Watt Stopper LP8S-8-G).....	1,615.03	151.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	91.06	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23	00-0122	EA	8 Relays, Surface Mount, Lighting Control Panel With DIN Rail (Watt Stopper LP24S-8)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,408.49 91.06	151.77
26 09 23	00-0123	EA	8 Relays, Surface Mount, Lighting Control Panel With Group Switching Card And DIN Rail (Watt Stopper LP24S-8-G)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,616.65 91.06	151.77
26 09 23	00-0124	EA	4 Relays, Flush Mount, Lighting Control Panel (Watt Stopper LP8F-4)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,701.50 84.99	141.65
26 09 23	00-0125	EA	8 Relays, Flush Mount, Lighting Control Panel (Watt Stopper LP8F-8)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,825.73 91.06	151.77
26 09 23	00-0126	EA	8 Relays, Flush Mount, Lighting Control Panel With Group Switching Card (Watt Stopper LP8F-8-G)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,033.68 91.06	151.77
26 09 23	00-0127	EA	8 Relays, Flush Mount, Lighting Control Panel With DIN Rail (Watt Stopper LP24F-8)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,491.68 91.06	151.77
26 09 23	00-0128	EA	8 Relays, Flush Mount, Lighting Control Panel With Group Switching Card And DIN Rail (Watt Stopper LP24F-8-G)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,699.83 91.06	151.77
26 09 23 00-0129 Accessories For Lighting Control Panels (Watt Stopper) (26 09 23 00-0117)					
26 09 23	00-0130	EA	Low Voltage Photocell For Watt Stopper Lighting Control Panels (Watt Stopper EM-24A2)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	149.44 15.18	25.30
26 09 23	00-0131	EA	Automatic Control Switch For Watt Stopper Lighting Control Panels (Watt Stopper AS-100-W)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	115.09 12.14	20.23
26 09 23	00-0132	EA	Low Voltage Momentary Switch For Watt Stopper Lighting Control Panels (Watt Stopper DCC2)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.60 12.14	20.23
26 09 23 00-0133 Lighting Control Panels (Synergy) (26 09 23 00-0116)					
26 09 23 00-0134 Lighting Control Panels (Synergy) (26 09 23 00-0133)					
26 09 23	00-0135	EA	8 Relays, Surface Mount, Lighting Control Panel (Synergy SwitchPak SPAK 8S)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,965.51 91.06	151.77
26 09 23 00-0136 Accessories For Lighting Control Panels (Synergy) (26 09 23 00-0133)					
26 09 23	00-0137	EA	Outdoor Photocell For Synergy SwitchPak Lighting Control Panels (Synergy LSA-APS-OL)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	478.20 15.18	25.30
26 09 23	00-0138	EA	Sweepswitch, Line Voltage Override Switch For Synergy SwitchPak Lighting Control Panels (Synergy SSPL-20)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	185.32 6.07	10.12
26 09 23	00-0139	EA	Override Switch For Synergy SwitchPak Lighting Control Panels (Synergy LVPS-2BT)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	108.04 9.11	15.18
26 09 23 00-0140 Lighting Switching Panels (Lutron) (26 09 23 00-0116)					
26 09 23 00-0141 Lighting Switching Panels (Lutron) (26 09 23 00-0140)					
26 09 23	00-0142	EA	8 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS8-FT)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,608.62 91.06	151.77
26 09 23	00-0143	EA	12 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS12-FT)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,190.50 97.13	161.89
26 09 23	00-0144	EA	16 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS16-FT)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,855.43 103.20	172.00
26 09 23 00-0145 Wireless (ZigBee) LED Lighting Control Panels (PlanLED GigaTera) (26 09 23 00-0116)					
26 09 23	00-0146	EA	6 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC6Z)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,089.14 84.99	141.65
26 09 23	00-0147	EA	12 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC12Z)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,235.66 84.99	141.65
26 09 23	00-0148	EA	18 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC18Z)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,382.18 84.99	141.65
26 09 23 00-0149 Power Filters (26 09 23 00-0116)					
26 09 23	00-0150	EA	600 Amperes, 480/277 Volt, 4 Conductor Power Filter With 80" X 60" X 17" Enclosure.....	36,033.55	841.47
26 09 23	00-0151	EA	200 Amperes, 480/277 Volt, 4 Conductor Power Filter With 25" X 40" X 17" Enclosure.....	21,342.07	365.85
26 09 23 00-0152 Signal Filters (26 09 23 00-0116)					
26 09 23	00-0153	EA	0.5 Amperes, 125 Volt, 500 Conductor Signal Filter With 19" X 36-3/4" X 19-1/8 Case.....	16,415.25	765.03
26 09 23	00-0154	EA	0.5 Amperes, 125 Volt, 200 Conductor Signal Filter With 29" X 40" X 11" Case.....	11,240.17	467.54
26 09 23	00-0155	EA	0.5 Amperes, 125 Volt, 3 Pair Conductor Signal Filter With 12" X 12" X 4" Case.....	6,268.00	271.44
26 09 23	00-0156	EA	5 Amperes, 24 Volt DC, 5 Volt, 2 - 1 Pair Conductor Signal Filter With Case.....	8,558.03	271.44
26 09 23 00-0157 Lighting Control Devices (Encelium) (26 09 23)					
26 09 23	00-0158	EA	8 Port, G4, Wired Energy Control Unit, GreenBus II™ (120V) With Polaris 3D™ (Encelium EN-ECU-G4-P3D)..... Note: Excludes GB II cable.	11,126.99	101.18

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0159 EA Server, System Support Unit (SSU) (Encelium EN-SSU-1U).....	5,103.21	101.18
Note: Excludes GB II and Ethernet cable.		
26 09 23 00-0160 EA Server, System Support Unit (SSU), VIRTUAL (Encelium EN-SW-SSUVIRT)	2,670.50	101.18
Note: Excludes GB II and Ethernet cable.		
26 09 23 00-0161 EA Server, System Support Unit (SSU) With BACnet (Encelium EN-SSU-BIF-KIT).....	11,192.25	101.18
Note: Excludes GB II and Ethernet cable.		
26 09 23 00-0162 EA Isolated, Wired Luminaire Control Module (Encelium EN-iLCM-1R10V-GB2-BK)	91.57	12.65
Note: Excludes GB II cable.		
26 09 23 00-0163 EA Damp Rated, Isolated, Wired Luminaire Control Module (Encelium EN-iLCM-1R10V-GB2-BK/DR)	139.76	12.65
Note: Excludes GB II cable.		
26 09 23 00-0164 EA Wired Area Lighting Controller, Heavy Duty Relay With 0-10V Dimming (Encelium EN-ALC-1R10V-GB2-BK)	178.67	25.30
Note: Excludes GB II cable.		
26 09 23 00-0165 EA Damp Rated, Wired Area Lighting Controller, Heavy Duty Relay With 0-10V Dimming (Encelium EN-ALC-1R10V-GB2-BK-DR)	214.10	25.30
Note: Excludes GB II cable.		
26 09 23 00-0166 EA Wired Sensor Interface Module (Encelium EN-SIM-AI/SPS-GB2-BK)	116.86	25.30
Note: Excludes GB II cable.		
26 09 23 00-0167 EA Damp Rated, Wired Sensor Interface Module (Encelium EN-SIM-AI/SPS-GB2-BK/DR)	165.05	25.30
Note: Excludes GB II cable.		
26 09 23 00-0168 EA 16 Port, Rack Mounted, Wired Ethernet Switch (Encelium ETH-700).....	411.85	50.59
Note: Excludes cable.		
26 09 23 00-0169 EA Rack Mounted, Wired Power Bar (Encelium PWR-700)	312.83	50.59
26 09 23 00-0170 EA Rack Mounted, Wired Power Bar With Surge Protection (Encelium PWR-800).....	561.75	50.59
26 09 23 00-0171 EA Wall Mounted, 4U Mounting Rack (Encelium RCK-700).....	200.94	50.59
26 09 23 00-0172 EA 4 Port, 10/100 VPN, Dual WAN, Wired Router (Encelium RV042).....	628.06	50.59
Note: Excludes cable.		
26 09 23 00-0173 EA Wired BACnet Interface (Encelium BIF-600).....	6,493.75	202.36
Note: Excludes cable.		
26 09 23 00-0174 EA Wired AV Interface (Encelium EN-SW-AVINT)	4,779.47	50.59
Note: Excludes cable.		
26 09 23 00-0175 EA Two Button, GB2, Wired Wall Station (Encelium EN-WS-2B-GB2-WH)	182.00	12.65
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0176 EA 3 Scene, GB2, Wired Wall Station (Encelium EN-WS-SC3-GB2-WH).....	221.16	12.65
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0177 EA 3 Zone, GB2, Wired Wall Station (Encelium EN-WS-ZC3-GB2-WH).....	211.71	12.65
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0178 EA 5 Scene, GB2, Wired Wall Station (Encelium EN-WS-SC5-GB2-WH).....	221.16	12.65
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0179 EA 6 Zone, GB2, Wired Wall Station (Encelium EN-WS-ZC6-GB2-WH).....	211.71	12.65
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0180 EA Rocker Switch, GB2, Wired Wall Station (Encelium EN-WS-R-GB2-WT).....	160.84	12.65
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0181 EA Scene Controller, GB2, Wired Wall Station (Encelium EN-WS-SC3D-GB2-WT).....	221.16	12.65
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0182 EA 3 Zone Controller, GB2, Wired Wall Station (Encelium EN-WS-ZC3-GB2-WT).....	211.71	12.65
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0183 EA Wired Key Switch Controller (Encelium KSW-300).....	157.03	12.65
Note: Excludes GB II cable.		
26 09 23 00-0184 EA Wall Station Surface Mount Kit (Encelium EN-SMK-ZB-WH).....	68.91	12.65
Note: Includes white finish.		
26 09 23 00-0185 EA 1/2' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-0.5FT-GB2).....	60.50	25.30
26 09 23 00-0186 EA 1' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-01FT-GB2)	60.92	25.30
26 09 23 00-0187 EA 5' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-05FT-GB2)	64.25	25.30
26 09 23 00-0188 EA 10' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-10FT-GB2)	67.54	25.30
26 09 23 00-0189 EA 15' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-15FT-GB2)	71.48	25.30
26 09 23 00-0190 EA 20' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-20FT-GB2)	75.02	25.30
26 09 23 00-0191 EA 25' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-25FT-GB2)	79.38	25.30
26 09 23 00-0192 EA 50' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-50FT-GB2)	99.07	25.30
26 09 23 00-0193 EA 1,000' Box, GreenBus II™ Cable (Encelium EN-BC-1000FT-GB2)	596.75	25.30
26 09 23 00-0194 EA Box Of 50, Greenbus II™ Connectors (Encelium EN-CON-50-GB2).....	150.51	25.30
26 09 23 00-0195 EA 1,000' Box, Category 5, Network Cable (Encelium NWC-400-B)	768.23	25.30
26 09 23 00-0196 EA Indoor Wired Photo Sensor (Encelium PHS-700)	460.01	50.59
Note: Excludes GB II cable.		
26 09 23 00-0197 EA Outdoor Wired Photo Sensor (Encelium PHS-800).....	460.01	50.59
Note: Excludes GB II cable.		
26 09 23 00-0198 EA Skylight Wired Photo Sensor (Encelium PHS-900).....	460.01	50.59
Note: Excludes GB II cable.		
26 09 23 00-0199 EA 450 SF, 360 Degree, Passive Infrared, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCP-0450)	246.64	50.59
Note: Excludes GB II cable.		
26 09 23 00-0200 EA 1,500 SF, 360 Degree, Passive Infrared, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCP-1500)	239.48	50.59
Note: Excludes GB II cable.		
26 09 23 00-0201 EA 2,500 SF, Wide View, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-WV00)	244.25	50.59
Note: Excludes GB II cable.		
26 09 23 00-0202 EA High-Bay, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-HBAY).....	268.10	50.59
Note: Excludes GB II cable.		
26 09 23 00-0203 EA Long-Range, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-LRNG).....	244.25	50.59
Note: Excludes GB II cable.		
26 09 23 00-0204 EA 120-277 Volt AC, No Neutral, Passive Infrared, Wall Switch Mounted, Wired Occupancy Sensor (Encelium SSP-LNV).....	196.57	50.59
Note: Excludes GB II cable.		
26 09 23 00-0205 EA High Bay, Passive Infrared, Fixture Mounted, Wired Occupancy Sensor (Encelium WSPPEM24V)	207.47	50.59
Note: Excludes GB II cable.		
26 09 23 00-0206 EA High Bay, Passive Infrared, Surface Mounted, Wired Occupancy Sensor (Encelium WSPSM24V)	207.47	50.59
Note: Excludes GB II cable.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0207 EA 360 Degree Lens, Wired Occupancy Sensor (Encelium WSPLENS360) Note: Excludes GB II cable.	116.63	50.59
26 09 23 00-0208 EA Passive Infrared, Wall Switch Mounted, Wired Occupancy Sensor (Encelium PW-100-24) Note: Excludes GB II cable.	250.15	50.59
26 09 23 00-0209 EA Hallway, Wired Occupancy Sensor (Encelium HW-13)..... Note: Excludes GB II cable.	347.36	50.59
26 09 23 00-0210 EA 500 SF, 180 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-0500)..... Note: Excludes GB II cable.	306.25	50.59
26 09 23 00-0211 EA 1,000 SF, 360 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-1000)..... Note: Excludes GB II cable.	325.32	50.59
26 09 23 00-0212 EA 2,000 SF, 360 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-2000)..... Note: Excludes GB II cable.	334.87	50.59
26 09 23 00-0213 EA 1,200 SF, (Multi) Passive Infrared And Ultrasonic, Wall Mounted, Wired Occupancy Sensor (Encelium SWM- 1200)..... Note: Excludes GB II cable.	303.86	50.59
26 09 23 00-0214 EA 120-277 Volt AC, No Neutral, Passive Infrared And Ultrasonic, Wall Switch Mounted, Wired Occupancy Sensor (Encelium SSM-LNV)..... Note: Excludes GB II cable.	256.18	50.59
26 09 23 00-0215 EA 500 SF, 180 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC05-M0W) Note: Excludes GB II cable.	316.50	50.59
26 09 23 00-0216 EA 1,200 SF, 360 Degree, Dual Technology, Wall Mounted, Wired Occupancy Sensor (Encelium OSW12-M0W)..... Note: Excludes GB II cable.	314.01	50.59
26 09 23 00-0217 EA 2,000 SF, 360 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC20-M0W) Note: Excludes GB II cable.	346.55	50.59
26 09 23 00-0218 EA 1,000 SF, 360 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC10-M0W) Note: Excludes GB II cable.	336.54	50.59
26 09 23 00-0219 EA Dual Technology, Wall Switch Mounted, Wired Occupancy Sensor (Encelium DW-100-24) Note: Excludes GB II cable.	360.99	50.59
26 09 23 00-0220 EA Dual Technology, Wall Switch Mounted, Wired Occupancy Sensor (Encelium WSD-PDT-LV)..... Note: Excludes GB II cable.	336.64	50.59
26 09 23 00-0221 EA Wide View, Dual Technology, Wired Occupancy Sensor (Encelium WV-PDT)..... Note: Excludes GB II cable.	336.64	50.59
26 09 23 00-0222 EA 10A, 120V, Single Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESRU1C).....	226.75	50.59
26 09 23 00-0223 EA 10A, 277V, Single Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESRH1C).....	241.74	50.59
26 09 23 00-0224 EA 20A, 120V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR01P).....	411.52	50.59
26 09 23 00-0225 EA 20A, 277V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR02P).....	439.03	50.59
26 09 23 00-0226 EA 10A, 120V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR2401D).....	328.02	50.59
26 09 23 00-0227 EA 10A, 277V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR2402D).....	341.31	50.59
26 09 23 00-0228 EA 24 Circuit, Relay Module (Encelium EN-RPM-24C-GB2)..... Note: Excludes GB II cable and enclosure.	965.42	101.18
26 09 23 00-0229 EA 24 Circuit, 120/277V, Relay Panel With Relay Module (Encelium EN-RP-24C-GB2-120/277V)..... Note: Excludes GB II cable.	3,044.12	404.71
26 09 23 00-0230 EA 12 Relays, 24 Circuit, 120-347V, Emergency Relay Panel (Encelium EN-RPA12R120-347V)..... Note: Excludes GB II cable.	4,384.93	404.71
26 09 23 00-0231 EA 24 Relays, 24 Circuit, 120-347V, Emergency Relay Panel (Encelium EN-RPA24R120-347V)..... Note: Excludes GB II cable.	5,725.73	404.71
26 09 23 00-0232 EA Wired Phase Cut Dimming Module (Encelium EN-PCDM-GB2)..... Note: Excludes GB II cable.	482.71	50.59
26 09 23 00-0233 EA Wired DALI Bridge (Encelium EN-DB-1L-GB2)..... Note: Excludes GB II cable.	550.85	50.59
26 09 23 00-0234 EA Wireless Manager (Encelium EN-WM-ZB-P3D)..... Note: Includes white finish.	1,463.79	50.59
26 09 23 00-0235 EA Wireless Control Module (Encelium EN-WCM-ZB).....	205.02	25.30
26 09 23 00-0236 EA Damp Rated, Wireless Control Module (Encelium EN-WCM-ZB-DR).....	241.36	25.30
26 09 23 00-0237 EA Wireless Area Lighting Controller (Encelium EN-ALC-ZB-BK).....	242.26	25.30
26 09 23 00-0238 EA Damp Rated, Wireless Area Lighting Controller (Encelium EN-ALC-ZB-BK-DR).....	250.83	25.30
26 09 23 00-0239 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH)..... Note: Includes white finish.	179.73	12.65
26 09 23 00-0240 EA 3 Scene Control, Wireless Wall Station (Encelium EN-WS-SC3-ZB-WH)..... Note: Includes white finish.	179.73	12.65
26 09 23 00-0241 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH)..... Note: Includes white finish.	179.73	12.65
26 09 23 00-0242 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH)..... Note: Includes white finish.	179.73	12.65
26 09 23 00-0243 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH)..... Note: Includes white finish.	179.73	12.65
26 09 23 00-0244 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW).....	185.63	12.65
26 09 23 00-0245 EA 315 MHz, Wireless Photocell (Encelium TAP-17C).....	400.95	50.59
26 09 23 00-0246 EA 450 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB).....	255.61	50.59
26 09 23 00-0247 EA 1,500 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB).....	255.61	50.59
26 09 23 00-0248 EA 1,500 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB-DR).....	291.95	50.59
26 09 23 00-0249 EA 450 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB-DR).....	291.95	50.59
26 09 23 00-0250 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH)..... Note: Includes white finish.	179.73	12.65
26 09 23 00-0251 EA 3 Scene Control, Wireless Wall Station (Encelium EN-WS-SC3-ZB-WH)..... Note: Includes white finish.	179.73	12.65
26 09 23 00-0252 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH)..... Note: Includes white finish.	179.73	12.65
26 09 23 00-0253 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH)..... Note: Includes white finish.	179.73	12.65

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0254 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH).....	179.73	12.65
Note: Includes white finish.		
26 09 23 00-0255 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW).....	185.63	12.65
Note: Includes white finish.		
26 09 23 00-0256 EA 315 MHz, Wireless Photocell (Encelium TAP-17C).....	400.95	50.59
26 09 23 00-0257 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH).....	179.73	12.65
26 09 23 00-0258 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH).....	179.73	12.65
26 09 23 00-0259 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH).....	179.73	12.65
26 09 23 00-0260 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW).....	185.63	12.65
26 09 23 00-0261 EA 315 MHz, Wireless Photocell (Encelium TAP-17C).....	400.95	50.59
26 09 23 00-0262 EA 450 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB).....	255.61	50.59
26 09 23 00-0263 EA 1,500 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB).....	255.61	50.59
26 09 23 00-0264 EA 1,500 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB-DR).....	291.95	50.59
26 09 23 00-0265 EA 450 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB-DR).....	291.95	50.59
26 09 23 00-0266 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH).....	179.73	12.65
Note: Includes white finish.		
26 09 23 00-0267 EA 3 Scene Control, Wireless, Wall Station (Encelium EN-WS-SC3-ZB-WH).....	179.73	12.65
Note: Includes white finish.		
26 09 23 00-0268 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH).....	179.73	12.65
Note: Includes white finish.		
26 09 23 00-0269 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH).....	179.73	12.65
Note: Includes white finish.		
26 09 23 00-0270 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH).....	179.73	12.65
Note: Includes white finish.		
26 09 23 00-0271 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW).....	185.63	12.65
26 09 23 00-0272 EA 315 MHz, Wireless Photocell (Encelium TAP-17C).....	400.95	50.59
26 09 23 00-0273 EA Ceiling Mounted, Wireless Mounting Kit (Encelium EN-SCPPH-MK-ZB).....	122.07	50.59
26 09 23 00-0274 EA Wireless Ethernet Transceiver Unit (cns-enocean Connectivity Kit).....	520.56	50.59
26 09 23 00-0275 Lighting Control Sensors <small>(26 09 23)</small>		
26 09 23 00-0276 EA DALIMulti Sensor, 600 SF (Fifthlight FLT-MTS6-DALI).....	276.29	22.76
26 09 23 00-0277 EA DALIMulti Sensor, 1,200 SF (Fifthlight FLT-MTS12-DALI).....	276.29	22.76
26 09 23 00-0278 EA Smart Multi-sensor (LG 9SD131VVDA.ALWB000).....	242.80	22.76
26 09 23 00-0279 EA Zigbee Dongle (LG 9CM2315VD2.AWP01U).....	74.06	15.18
26 09 23 00-0280 EA Clip for Performance Troffer (LG BKTR015122.BUAAWAA).....	6.46	
26 09 23 00-0281 EA Clip for Downlight (BKTCE015123.BUAAWAA).....	47.80	
26 09 23 00-0282 EA Clip for Tube (LG BKTTU015121.BUAAWAA).....	8.90	
26 09 23 00-0283 Radio Controlled Devices (Lutron) <small>(26 09 23)</small>		
26 09 23 00-0284 Tabletop Transmitters For Radio Controlled Devices <small>(26 09 23 00-0283)</small>		
26 09 23 00-0285 Switched Lighting Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0284)</small>		
26 09 23 00-0286 EA One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-SW-B-WH).....	359.03	15.18
26 09 23 00-0287 EA Two Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2SW-B-WH).....	465.83	15.18
26 09 23 00-0288 EA Three Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3SW-B-WH).....	585.97	15.18
26 09 23 00-0289 Dimmable Lighting Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0284)</small>		
26 09 23 00-0290 EA One Zone Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L-B-WH).....	359.03	15.18
26 09 23 00-0291 EA Two Zones Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-B-WH).....	425.78	15.18
26 09 23 00-0292 EA Three Zones Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3L-B-WH).....	585.97	15.18
26 09 23 00-0293 EA One Zone Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L-WH).....	359.03	15.18
26 09 23 00-0294 EA Two Zones Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-WH).....	465.83	15.18
26 09 23 00-0295 EA Three Zones Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3L-WH).....	585.97	15.18
26 09 23 00-0296 Dimmable And Switched Lighting Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0284)</small>		
26 09 23 00-0297 EA One Zone Of Dimmable Lighting Controls And One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LSW-B-WH).....	465.83	15.18
26 09 23 00-0298 EA Two Zones Of Dimmable Lighting Controls And One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LSW-B-WH).....	585.97	15.18
26 09 23 00-0299 EA One Zone Of Dimmable Lighting Controls And Two Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2SW-B-WH).....	585.97	15.18
26 09 23 00-0300 Dimmable Lighting Controls And Shade Or Projection Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0284)</small>		
26 09 23 00-0301 EA One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-C3-B-WH).....	359.03	15.18
26 09 23 00-0302 EA Two Zones Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2C3-B-WH).....	465.83	15.18
26 09 23 00-0303 EA One Zone Of Dimmable Lighting Controls And One Zone Of Output Switch Projection Screen Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LC2-B-WH).....	425.78	15.18
26 09 23 00-0304 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Output Switch Projection Screen Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC2-B-WH).....	519.22	15.18



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0305 EA One Zone Of Dimmable Lighting Controls And One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LC3-B-WH).....	465.83	15.18
26 09 23 00-0306 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC3-B-WH).....	559.27	15.18
26 09 23 00-0307 EA One Zone Of Dimmable Lighting Controls And Two Zones Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC3-B-WH).....	465.83	15.18
26 09 23 00-0308 Dimmable Lighting Controls And Sivoia QED Shade Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0284)</small>		
26 09 23 00-0309 EA One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-Q-B-WH).....	359.03	15.18
26 09 23 00-0310 EA Two Zones Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2Q-B-WH).....	465.83	15.18
26 09 23 00-0311 EA One Zone Of Dimmable Lighting Controls And One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LQ-B-WH).....	465.83	15.18
26 09 23 00-0312 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LQ-B-WH).....	585.97	15.18
26 09 23 00-0313 EA One Zone Of Dimmable Lighting Controls And Two Zones Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2Q-B-WH).....	465.83	15.18
26 09 23 00-0314 EA One Zone Of Dimmable Lighting Controls, One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, One Zone Of Output Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LQC2-B-WH).....	585.97	15.18
26 09 23 00-0315 Output Switch Closure Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0284)</small>		
26 09 23 00-0316 EA Five Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5-WH).....	359.03	15.18
26 09 23 00-0317 EA Nine Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5C4-WH).....	465.83	15.18
26 09 23 00-0318 EA Thirteen Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C52C4-WH).....	585.97	15.18
26 09 23 00-0319 Accessories For Tabletop Wireless Transmitter <small>(26 09 23 00-0284)</small>		
26 09 23 00-0320 EA Security Mounting Brackets For Tabletop Wireless Transmitters (Lutron RTA-SEC-WH).....	78.70	15.18
26 09 23 00-0321 Wall Box Transmitters For Radio Controlled Devices <small>(26 09 23 00-0283)</small>		
26 09 23 00-0322 EA On/Off Switched Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-2BSW-WH).....	332.33	15.18
26 09 23 00-0323 EA Dimmable Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-2B-WH).....	359.03	15.18
26 09 23 00-0324 EA Four Preset Lighting Level And Dimmable Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-5B-WH).....	359.03	15.18
26 09 23 00-0325 EA Open/Stop/Close Motorized Shade Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-C3LB-WH).....	359.03	15.18
26 09 23 00-0326 EA Up/Down Projection Screen Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-C2LB-WH).....	359.03	15.18
26 09 23 00-0327 EA Open/Stop/Close Sivoia QED Shade Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-Q3LB-WH).....	359.03	15.18
26 09 23 00-0328 Interfaces For Radio Controlled Devices <small>(26 09 23 00-0283)</small>		
26 09 23 00-0329 EA Incandescent And Magnetic Low Voltage Lighting Interface For Radio Controlled Devices (Lutron FDI-INC-2000).....	332.33	15.18
26 09 23 00-0330 EA Lutron Tu-Wire Ballast Interface For Radio Controlled Devices (Lutron FDI-INC-2000).....	332.33	15.18
26 09 23 00-0331 EA Electronic Low Voltage Lighting Interface For Radio Controlled Devices (Lutron FDI-ELV-1000).....	332.33	15.18
26 09 23 00-0332 EA Sivoia QED Controllable Window Treatments Contact Closure Interface For Radio Controlled Devices (Lutron SVQ-CCI-8).....	671.41	15.18
26 09 23 00-0333 EA RS-232 Interface For Radio Controlled Devices (Lutron RTA-RS232).....	959.75	15.18
26 09 23 00-0334 EA Switch Closure Input Interface For Radio Controlled (Lutron RTA-SCI).....	959.75	15.18
26 09 23 00-0335 Fluorescent Controllers For Radio Controlled Devices <small>(26 09 23 00-0283)</small>		
26 09 23 00-0336 EA On/Off Switched Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-SW).....	425.78	15.18
26 09 23 00-0337 EA Dimmable Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-F).....	479.18	15.18
26 09 23 00-0338 EA Switch Closures And Dimmable Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-F-SC).....	559.27	15.18
26 09 23 00-0339 AC Motor Group Controllers For Radio Controlled Devices <small>(26 09 23 00-0283)</small>		
26 09 23 00-0340 EA Up To Two Motors, AC Motor Group Controllers For Radio Controlled Devices (Lutron WC-2M-GC).....	626.02	15.18
26 09 23 00-0341 EA Up To Four Motors, AC Motor Group Controllers For Radio Controlled Devices (Lutron WC-4M-GC).....	859.63	15.18
26 09 23 00-0342 RF Wireless Technology, Switches And Dimmers (Lutron® Maestro Wireless®) <small>(26 09 23)</small>		
26 09 23 00-0343 RF Wireless Technology, Switches (Lutron® Maestro Wireless®) <small>(26 09 23 00-0342)</small>		
26 09 23 00-0344 EA 6 Amperes Lighting, 3 Amperes Fan, RF Wireless Technology, Electronic Switch (Lutron® Maestro Wireless® MRF2-6ANS).....	101.94	20.23
26 09 23 00-0345 EA 8 Amperes Lighting, 5.8 Amperes Fan, RF Wireless Technology, Spec Grade Electronic Switch (Lutron® Maestro Wireless® MRF2-8ANS-120).....	118.94	20.23
26 09 23 00-0346 EA 8 Amperes Lighting, 3 Amperes Fan, RF Wireless Technology, Spec Grade Electronic Switch (Lutron® Maestro Wireless® MRF2-8S-DV).....	182.30	20.23
26 09 23 00-0347 EA 120 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MA-AS).....	73.58	20.23
26 09 23 00-0348 EA 277 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MA-AS-277).....	88.43	20.23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0349 EA 120 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MSC-AS).....	79.81	20.23
26 09 23 00-0350 EA 277 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MSC-AS-277).....	94.96	20.23
26 09 23 00-0351 RF Wireless Technology, Dimmers (Lutron® Maestro Wireless®) (26 09 23 00-0342)		
26 09 23 00-0352 EA 600 Watt, 120 Volt, RF Wireless Technology, Incandescent Dimmer (Lutron® Maestro Wireless® MRF2-600M).....	98.01	20.23
26 09 23 00-0353 EA 600 Watt, 120 Volt, RF Wireless Technology, Magnetic Low Voltage Dimmer (Lutron® Maestro Wireless® MRF2-6MLV).....	105.86	20.23
26 09 23 00-0354 EA 600 Watt, 120 Volt, RF Wireless Technology, Spec Grade Neutral Wire Dimmer (Lutron® Maestro Wireless® MRF2-6ND-120).....	125.47	20.23
26 09 23 00-0355 EA 1,000 Watt, 120 Volt, RF Wireless Technology, Spec Grade Dimmer (Lutron® Maestro Wireless® MRF2-10D-120).....	135.58	25.30
26 09 23 00-0356 EA 600 Watt, 120 Volt, RF Wireless Technology, Electronic Low-Voltage Dimmer (Lutron® Maestro Wireless® MRF2-6ELV-120).....	164.05	20.23
26 09 23 00-0357 EA 120 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MA-R).....	58.46	20.23
26 09 23 00-0358 EA 277 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MA-R-277).....	69.25	20.23
26 09 23 00-0359 EA 120 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MSC-AD).....	62.39	20.23
26 09 23 00-0360 EA 277 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MSC-AD-277).....	73.17	20.23
26 09 23 00-0361 EA 6 Amperes, 120/277 Volt, RF Wireless Technology, 3-Wire Fluorescent Spec Grade Neutral Wire Dimmer (Lutron® Maestro Wireless® MRF2-F6AN-DV).....	188.51	35.41
26 09 23 00-0362 Removal And Reinstallation Of Occupancy Sensors (26 09 23)		
26 09 23 00-0363 EA Removal And Reinstallation Of Ceiling Mounted Occupancy Sensor Note: Includes storing and cleaning.	68.29	
26 09 23 00-0364 EA Removal And Reinstallation Of Wall Mounted Occupancy Sensor Note: Includes storing and cleaning.	45.53	
26 09 23 00-0365 Occupancy Sensors (Watt Stopper) (26 09 23) Note: Includes testing of new devices and certification.		
26 09 23 00-0366 Occupancy Sensors (26 09 23 00-0365) Note: Exclude boxes.		
26 09 23 00-0367 Wall Switch Mounted Occupancy Sensors (26 09 23 00-0366)		
26 09 23 00-0368 Ultrasonic, Wall Switch Mounted Occupancy Sensors (26 09 23 00-0367)		
26 09 23 00-0369 EA Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper UW-100)..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	107.83 6.07	10.12
26 09 23 00-0370 EA Dual Relay, Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper UW-200)..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	127.22 6.07	10.12
26 09 23 00-0371 Passive Infrared, Wall Switch Mounted Occupancy Sensors (26 09 23 00-0367)		
26 09 23 00-0372 EA Nightlight, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WN-100)..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	89.07 6.07	10.12
26 09 23 00-0373 EA Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WS)..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.19 6.07	10.12
26 09 23 00-0374 EA Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper PW-100)..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	94.17 6.07	10.12
26 09 23 00-0375 EA Dual Relay, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper PW-200)..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	109.00 6.07	10.12
26 09 23 00-0376 EA Dimmable, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WD)..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	107.78 6.07	10.12
26 09 23 00-0377 Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensors (26 09 23 00-0367)		
26 09 23 00-0378 EA Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper DW-100)..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	156.76 6.07	10.12
26 09 23 00-0379 EA Dual Relay, Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper DW-200)..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	169.03 6.07	10.12
26 09 23 00-0380 Wall Switch Mounted Occupancy Sensor Accessories (26 09 23 00-0367)		
26 09 23 00-0381 EA Single Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP).....	6.23	2.53
26 09 23 00-0382 EA One Side Blank, Double Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP).....	7.21	2.53
26 09 23 00-0383 EA Switch Option, Double Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP).....	7.21	2.53
26 09 23 00-0384 Ceiling Mounted Occupancy Sensors (26 09 23 00-0366)		
26 09 23 00-0385 Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0384)		
26 09 23 00-0386 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0385)		
26 09 23 00-0387 EA 500 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-500A).....	142.63	22.76



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0388	EA		1,000 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-1000A).....	163.73	22.76
26 09 23 00-0389	EA		2,000 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-2000A).....	184.98	22.76
26 09 23 00-0390	EA		90 LF Hallway Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-2000H).....	183.06	22.76
26 09 23 00-0391			32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0385)</small>		
26 09 23 00-0392	EA		600 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-605).....	155.12	22.76
26 09 23 00-0393	EA		1,100 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-1105).....	176.52	22.76
26 09 23 00-0394	EA		2,205 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2205).....	196.78	22.76
26 09 23 00-0395	EA		90 LF Hallway Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2255).....	200.21	22.76
26 09 23 00-0396	EA		600 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-600).....	167.91	22.76
26 09 23 00-0397	EA		1,100 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-1100).....	189.84	22.76
26 09 23 00-0398	EA		2,200 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2200).....	211.69	22.76
26 09 23 00-0399	EA		90 LF Hallway Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2250).....	217.98	22.76
26 09 23 00-0400			40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0385)</small>		
26 09 23 00-0401	EA		500 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-1).....	161.30	22.76
26 09 23 00-0402	EA		1,000 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-2).....	186.87	22.76
26 09 23 00-0403	EA		2,000 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-3).....	208.27	22.76
26 09 23 00-0404	EA		500 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-1).....	151.88	22.76
26 09 23 00-0405	EA		1,000 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-2).....	184.10	22.76
26 09 23 00-0406	EA		2,000 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-3).....	194.54	22.76
26 09 23 00-0407	EA		500 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-1).....	162.63	22.76
26 09 23 00-0408	EA		1,000 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-2).....	181.18	22.76
26 09 23 00-0409	EA		2,000 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-3).....	204.09	22.76
26 09 23 00-0410			Passive Infrared, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0384)</small>		
26 09 23 00-0411	EA		30 Segment, 5 Level Lens, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper WPIR).....	118.00	22.76
26 09 23 00-0412	EA		HVAC/BAS, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-12/24).....	120.49	22.76
26 09 23 00-0413	EA		Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-205).....	126.40	22.76
26 09 23 00-0414	EA		Line Voltage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-355).....	142.23	22.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>				13.66	
26 09 23 00-0415	EA		Low Profile, Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-305).....	144.15	22.76
26 09 23 00-0416	EA		Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-200).....	152.44	22.76
26 09 23 00-0417	EA		Low Profile, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-300).....	165.70	22.76
26 09 23 00-0418			Passive Infrared And Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0384)</small>		
26 09 23 00-0419	EA		1,000 SF 360 Degree Coverage, Line Voltage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-355).....	196.60	22.76
26 09 23 00-0420	EA		1,000 SF 360 Degree Coverage, Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-300).....	224.66	22.76
26 09 23 00-0421	EA		1,000 SF 360 Degree Coverage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-305).....	190.65	22.76
26 09 23 00-0422			Ceiling/Wall Mounted Occupancy Sensors <small>(26 09 23 00-0366)</small>		
26 09 23 00-0423			Passive Infrared, Ceiling/Wall Mounted Occupancy Sensors <small>(26 09 23 00-0422)</small>		
26 09 23 00-0424	EA		120 LF Coverage, Low Temperature, Passive Infrared, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper CB-100-1/3).....	241.47	22.76
26 09 23 00-0425	EA		2,000 SF Coverage, Low Temperature, Passive Infrared, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper CB-100).....	241.47	22.76
26 09 23 00-0426			Passive Infrared And Ultrasonic, Ceiling/Wall Mounted Occupancy Sensors <small>(26 09 23 00-0422)</small>		
26 09 23 00-0427	EA		2,000 SF Coverage, Passive Infrared And Ultrasonic, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper DT-200).....	224.66	22.76
26 09 23 00-0428			Occupancy Sensor Power Packs <small>(26 09 23 00-0365)</small>		
26 09 23 00-0429			Single Voltage, Occupancy Sensor Power Packs <small>(26 09 23 00-0428)</small>		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0430 EA 220 To 240 Volt AC, 20 Amperes, Occupancy Sensor Power Pack (Watt Stopper B230E-P).....	79.71	20.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.14	
26 09 23 00-0431 EA 347 Volt AC, 15 Amperes, Occupancy Sensor Power Pack (Watt Stopper B347D-P).....	72.58	20.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.14	
26 09 23 00-0432 Auxiliary, Occupancy Sensor Power Packs (26 09 23 00-0428)		
26 09 23 00-0433 EA 120, 277 Or 347 Volt AC, 20 Amperes, Auxiliary Occupancy Sensor Power Pack (Watt Stopper S120/277/347E-P).....	66.71	20.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.14	
26 09 23 00-0434 Universal Voltage, Power Packs For Occupancy Sensors (26 09 23 00-0428)		
26 09 23 00-0435 EA 120/277 Volt AC, 20 Amperes, Dual Voltage, Occupancy Sensor Power Pack (Watt Stopper BZ-100).....	88.20	20.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.14	
26 09 23 00-0436 Form C, Occupancy Sensor Power Packs (26 09 23 00-0428)		
26 09 23 00-0437 EA 120 Volt AC, Form C, Occupancy Sensor Power Pack (Watt Stopper A120C-P).....	80.03	20.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.14	
26 09 23 00-0438 EA 277 Volt AC, Form C, Occupancy Sensor Power Pack (Watt Stopper A277C-P).....	80.09	20.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.14	
26 09 23 00-0439 Two Relay, Occupancy Sensor Power Packs (26 09 23 00-0428)		
26 09 23 00-0440 EA 120 Volt AC, Two Relay, Occupancy Sensor Power Pack (Watt Stopper C120E-P).....	100.68	20.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.14	
26 09 23 00-0441 EA 277 Volt AC, Two Relay, Occupancy Sensor Power Pack (Watt Stopper C277E-P).....	102.10	20.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.14	
26 09 23 00-0442 Occupancy Sensor Power Supplies (26 09 23 00-0428)		
26 09 23 00-0443 EA 120 Volt AC, Occupancy Sensor Power Supply (Watt Stopper BZ-150).....	93.42	20.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.14	
26 09 23 00-0444 EA 277 Volt AC, Occupancy Sensor Power Supply (Watt Stopper AT-277).....	205.10	20.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.14	
26 09 23 00-0445 Intelligent, Occupancy Sensor Power Packs (26 09 23 00-0428)		
26 09 23 00-0446 EA 120/277 Volt AC, Two Relays, Two Dimming Channels, Intelligent Occupancy Sensor Power Pack (Watt Stopper LC-100).....	271.33	20.23
26 09 23 00-0447 DIN Rail Mounted, Occupancy Sensor Power Packs (26 09 23 00-0428)		
26 09 23 00-0448 EA 120/230/277 Volt AC, DIN Rail Mounted, Occupancy Sensor Power Pack (Watt Stopper BD-100).....	87.39	20.23
26 09 23 00-0449 Occupancy Sensor Accessories (26 09 23 00-0365)		
26 09 23 00-0450 Protective Cages For Occupancy Sensors (26 09 23 00-0449)		
26 09 23 00-0451 EA Protective Cage For Occupancy Sensors (Watt Stopper WC).....	50.17	7.58
26 09 23 00-0452 Mounting Brackets For Occupancy Sensors (26 09 23 00-0449)		
26 09 23 00-0453 EA Mounting Bracket For Occupancy Sensor (Watt Stopper MB).....	39.27	12.65
<i>Note: Includes J-plate for mounting to HID fixtures or L-plate for mounting to fluorescent fixtures, walls, shelves and girders.</i>		
26 09 23 00-0454 Occupancy/Lighting Logger (26 09 23 00-0449)		
<i>Note: Logs when a space is occupied/vacant and when lighting is on/off.</i>		
26 09 23 00-0455 EA Occupancy/Lighting Logger With Connector Cable (Watt Stopper IT-200).....	372.35	43.00
26 09 23 00-0456 Digital Time Light Switches (26 09 23 00-0365)		
26 09 23 00-0457 EA Preset Time, Wall Switch Mounted, Digital Time Light Switch (Watt Stopper TS-400).....	80.41	10.12
26 09 23 00-0458 Occupancy Sensors (Sensor Switch) (26 09 23)		
<i>Note: Includes testing of new devices and certification.</i>		
26 09 23 00-0459 Occupancy Sensors (Sensor Switch) (26 09 23 00-0458)		
<i>Note: Exclude boxes</i>		
26 09 23 00-0460 Wall Switch Mount Occupancy Sensors (Sensor Switch) (26 09 23 00-0459)		
26 09 23 00-0461 Passive Infrared, Wall Switch Mount Occupancy Sensors (Sensor Switch) (26 09 23 00-0460)		
26 09 23 00-0462 EA Single Pole, Low Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD LV).....	153.72	10.12
<i>For Low Temp/High Humidity Option, Add</i>	10.11	
<i>For Low Voltage Relay Option, Add</i>	12.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0463 EA Nightlight, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD NL).....	109.23	10.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.07	
26 09 23 00-0464 EA Single Pole, Line Voltage, Fully Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD).....	104.33	10.12
For Low Temp/High Humidity Option, Add	10.11	
For Photocell (Inhibit Mode Only) Option, Add	12.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.07	
26 09 23 00-0465 EA Single Pole, Line Voltage, Semi-Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD SA).....	104.33	10.12
For Low Temp/High Humidity Option, Add	10.11	
For Photocell (Inhibit Mode Only) Option, Add	12.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.07	
26 09 23 00-0466 EA 2-Pole, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD 2P)	131.47	10.12
For Low Temp/High Humidity Option, Add	10.11	
For Photocell (Inhibit Mode Only) Option, Add	12.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.07	
26 09 23 00-0467 EA Single Pole, Passive Infrared, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS).....	131.47	10.12
For Low Temp/High Humidity Option, Add	10.11	
For Photocell (Inhibit Mode Only) Option, Add	12.14	
26 09 23 00-0468 EA 2-Pole, Passive Infrared, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS 2P)	159.29	10.12
For Low Temp/High Humidity Option, Add	10.11	
For Photocell (Inhibit Mode Only) Option, Add	12.14	
26 09 23 00-0469 EA Single Pole, Passive Infrared, Internally Powered, Wall Switch Mount Occupancy Sensor (Sensor Switch IPD).....	131.47	10.12
For Low Temp/High Humidity Option, Add	10.11	
For Photocell (Inhibit Mode Only) Option, Add	12.14	
26 09 23 00-0470 Dual Technology, Wall Switch Mount Occupancy Sensors (Sensor Switch)		
<small>(26 09 23 00-0460)</small>		
Note: Includes passive infrared and microphonics detection		
26 09 23 00-0471 EA Single Pole, Low Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT LV).....	198.22	10.12
For Low Temp/High Humidity Option, Add	10.11	
For Low Voltage Relay Option, Add	12.14	
26 09 23 00-0472 EA Nightlight, Line Voltage, Dual Technology, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT NL).....	153.72	10.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.07	
26 09 23 00-0473 EA Single Pole, Line Voltage, Fully Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT)	150.39	10.12
For Low Temp/High Humidity Option, Add	10.11	
For Photocell (Inhibit Mode Only) Option, Add	12.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.07	
26 09 23 00-0474 EA Single Pole, Line Voltage, Semi-Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT SA).....	150.39	10.12
For Low Temp/High Humidity Option, Add	10.11	
For Photocell (Inhibit Mode Only) Option, Add	12.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.07	
26 09 23 00-0475 EA 2-Pole, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT 2P)	175.97	10.12
For Low Temp/High Humidity Option, Add	10.11	
For Photocell (Inhibit Mode Only) Option, Add	12.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.07	
26 09 23 00-0476 EA Single Pole, Dual Technology, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS PDT).....	175.97	10.12
For Low Temp/High Humidity Option, Add	10.11	
For Photocell (Inhibit Mode Only) Option, Add	12.14	
26 09 23 00-0477 EA 2-Pole, Dual Technology, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS PDT 2P)	189.32	10.12
For Low Temp/High Humidity Option, Add	10.11	
For Photocell (Inhibit Mode Only) Option, Add	12.14	
26 09 23 00-0478 Wall Switch Mount Occupancy Sensor Accessories (Sensor Switch)		
<small>(26 09 23 00-0460)</small>		
26 09 23 00-0479 EA One Blank, 2-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS BPX)	13.96	2.53
26 09 23 00-0480 EA One Switch, 2-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS SPX).....	13.96	2.53
26 09 23 00-0481 EA Two Blanks, 3-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS BPX 3)	27.31	2.53
26 09 23 00-0482 EA Two Switches, 3-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS SPX 3).....	27.31	2.53
26 09 23 00-0483 360 Degree View Occupancy Sensors (Sensor Switch)		
<small>(26 09 23 00-0459)</small>		
26 09 23 00-0484 Passive Infrared, 360 Degree View Occupancy Sensors (Sensor Switch)		
<small>(26 09 23 00-0483)</small>		
Note: One photocell or dimming option per occupancy sensor		
26 09 23 00-0485 EA Low Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CM 9)	179.02	22.76
For Low Temp/High Humidity Option, Add	10.11	
For Low Voltage Relay Option, Add	12.14	
For Photocell (Inhibit Mode Only) Option, Add	12.14	
For Occupancy Controlled Dimming Option, Add	20.23	
For Photocell Option With Dimming Capability, Add	30.34	
26 09 23 00-0486 EA Low Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RM 9)	179.02	22.76
For Low Temp/High Humidity Option, Add	10.11	
For Low Voltage Relay Option, Add	12.14	
For Photocell (Inhibit Mode Only) Option, Add	12.14	
For Occupancy Controlled Dimming Option, Add	20.23	
For Photocell Option With Dimming Capability, Add	30.34	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0487	EA		Low Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB 9).....	179.02	22.76
			<i>For Low Temp/High Humidity Option, Add</i>	10.11	
			<i>For Low Voltage Relay Option, Add</i>	12.14	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	12.14	
			<i>For Occupancy Controlled Dimming Option, Add</i>	20.23	
			<i>For Photocell Option With Dimming Capability, Add</i>	30.34	
26 09 23 00-0488	EA		Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 9).....	190.15	22.76
			<i>For Low Temp/High Humidity Option, Add</i>	10.11	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	12.14	
			<i>For Occupancy Controlled Dimming Option, Add</i>	20.23	
			<i>For Photocell Option With Dimming Capability, Add</i>	30.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0489	EA		Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 9).....	190.15	22.76
			<i>For Low Temp/High Humidity Option, Add</i>	10.11	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	12.14	
			<i>For Occupancy Controlled Dimming Option, Add</i>	20.23	
			<i>For Photocell Option With Dimming Capability, Add</i>	30.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0490	EA		Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 9).....	154.55	22.76
			<i>For Low Temp/High Humidity Option, Add</i>	10.11	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	12.14	
			<i>For Occupancy Controlled Dimming Option, Add</i>	20.23	
			<i>For Photocell Option With Dimming Capability, Add</i>	30.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0491	EA		2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 9 2P).....	234.65	22.76
			<i>For Low Temp/High Humidity Option, Add</i>	10.11	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	12.14	
			<i>For Photocell Option With Dual Zone On/Off, Add</i>	30.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0492	EA		2-Pole, Line Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 9 2P).....	234.65	22.76
			<i>For Low Temp/High Humidity Option, Add</i>	10.11	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	12.14	
			<i>For Photocell Option With Dual Zone On/Off, Add</i>	30.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0493	EA		2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 9 2P).....	199.05	22.76
			<i>For Low Temp/High Humidity Option, Add</i>	10.11	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	12.14	
			<i>For Photocell Option With Dual Zone On/Off, Add</i>	30.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0494	EA		Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CM 10).....	179.02	22.76
			<i>For Low Temp/High Humidity Option, Add</i>	10.11	
			<i>For Low Voltage Relay Option, Add</i>	12.14	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	12.14	
			<i>For Occupancy Controlled Dimming Option, Add</i>	20.23	
			<i>For Photocell Option With Dimming Capability, Add</i>	30.34	
26 09 23 00-0495	EA		Low Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RM 10).....	179.02	22.76
			<i>For Low Temp/High Humidity Option, Add</i>	10.11	
			<i>For Low Voltage Relay Option, Add</i>	12.14	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	12.14	
			<i>For Occupancy Controlled Dimming Option, Add</i>	20.23	
			<i>For Photocell Option With Dimming Capability, Add</i>	30.34	
26 09 23 00-0496	EA		Low Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB 10).....	179.02	22.76
			<i>For Low Temp/High Humidity Option, Add</i>	10.11	
			<i>For Low Voltage Relay Option, Add</i>	12.14	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	12.14	
			<i>For Occupancy Controlled Dimming Option, Add</i>	20.23	
			<i>For Photocell Option With Dimming Capability, Add</i>	30.34	
26 09 23 00-0497	EA		Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 10).....	190.15	22.76
			<i>For Low Temp/High Humidity Option, Add</i>	10.11	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	12.14	
			<i>For Occupancy Controlled Dimming Option, Add</i>	20.23	
			<i>For Photocell Option With Dimming Capability, Add</i>	30.34	
26 09 23 00-0498	EA		Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 10).....	190.15	22.76
			<i>For Low Temp/High Humidity Option, Add</i>	10.11	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	12.14	
			<i>For Occupancy Controlled Dimming Option, Add</i>	20.23	
			<i>For Photocell Option With Dimming Capability, Add</i>	30.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0499	EA		Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 10).....	154.55	22.76
			<i>For Low Temp/High Humidity Option, Add</i>	10.11	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	12.14	
			<i>For Occupancy Controlled Dimming Option, Add</i>	20.23	
			<i>For Photocell Option With Dimming Capability, Add</i>	30.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0500 EA 2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 10 2P).....	234.65	22.76
<i>For Low Temp/High Humidity Option, Add</i>	10.11	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	12.14	
<i>For Photocell Option With Dual Zone On/Off, Add</i>	30.34	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0501 EA 2-Pole, Line Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 10 2P).....	234.65	22.76
<i>For Low Temp/High Humidity Option, Add</i>	10.11	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	12.14	
<i>For Photocell Option With Dual Zone On/Off, Add</i>	30.34	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0502 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 10 2P).....	199.05	22.76
<i>For Low Temp/High Humidity Option, Add</i>	10.11	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	12.14	
<i>For Photocell Option With Dual Zone On/Off, Add</i>	30.34	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0503 Dual Technology, 360 Degree View Occupancy Sensors (Sensor Switch)⁽²⁶⁾ <small>09 23 00-0483</small> Note: One photocell or dimming option per occupancy sensor. Includes passive infrared and microphonics detection		
26 09 23 00-0504 EA Low Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CM PDT 9).....	223.52	22.76
<i>For Low Temp/High Humidity Option, Add</i>	10.11	
<i>For Low Voltage Relay Option, Add</i>	12.14	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	12.14	
<i>For Occupancy Controlled Dimming Option, Add</i>	20.23	
<i>For Photocell Option With Dimming Capability, Add</i>	30.34	
26 09 23 00-0505 EA Low Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RM PDT 9).....	223.52	22.76
<i>For Low Temp/High Humidity Option, Add</i>	10.11	
<i>For Low Voltage Relay Option, Add</i>	12.14	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	12.14	
<i>For Occupancy Controlled Dimming Option, Add</i>	20.23	
<i>For Photocell Option With Dimming Capability, Add</i>	30.34	
26 09 23 00-0506 EA Low Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB PDT 9).....	223.52	22.76
<i>For Low Temp/High Humidity Option, Add</i>	10.11	
<i>For Low Voltage Relay Option, Add</i>	12.14	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	12.14	
<i>For Occupancy Controlled Dimming Option, Add</i>	20.23	
<i>For Photocell Option With Dimming Capability, Add</i>	30.34	
26 09 23 00-0507 EA Single Pole, Line Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 9).....	212.40	22.76
<i>For Low Temp/High Humidity Option, Add</i>	10.11	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	12.14	
<i>For Occupancy Controlled Dimming Option, Add</i>	20.23	
<i>For Photocell Option With Dimming Capability, Add</i>	30.34	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0508 EA Single Pole, Line Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 9).....	212.40	22.76
<i>For Low Temp/High Humidity Option, Add</i>	10.11	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	12.14	
<i>For Occupancy Controlled Dimming Option, Add</i>	20.23	
<i>For Photocell Option With Dimming Capability, Add</i>	30.34	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0509 EA Single Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 9).....	176.80	22.76
<i>For Low Temp/High Humidity Option, Add</i>	10.11	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	12.14	
<i>For Occupancy Controlled Dimming Option, Add</i>	20.23	
<i>For Photocell Option With Dimming Capability, Add</i>	30.34	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0510 EA 2-Pole, Line Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 9 2P).....	256.89	22.76
<i>For Low Temp/High Humidity Option, Add</i>	10.11	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	12.14	
<i>For Photocell Option With Dual Zone On/Off, Add</i>	30.34	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0511 EA 2-Pole, Line Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 9 2P).....	256.89	22.76
<i>For Low Temp/High Humidity Option, Add</i>	10.11	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	12.14	
<i>For Photocell Option With Dual Zone On/Off, Add</i>	30.34	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0512 EA 2-Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 9 2P).....	221.30	22.76
<i>For Low Temp/High Humidity Option, Add</i>	10.11	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	12.14	
<i>For Photocell Option With Dual Zone On/Off, Add</i>	30.34	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0513 EA Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CM PDT 10)	223.52	22.76
For Low Temp/High Humidity Option, Add	10.11	
For Low Voltage Relay Option, Add	12.14	
For Photocell (Inhibit Mode Only) Option, Add	12.14	
For Occupancy Controlled Dimming Option, Add	20.23	
For Photocell Option With Dimming Capability, Add	30.34	
26 09 23 00-0514 EA Low Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RM PDT 10)	223.52	22.76
For Low Temp/High Humidity Option, Add	10.11	
For Low Voltage Relay Option, Add	12.14	
For Photocell (Inhibit Mode Only) Option, Add	12.14	
For Occupancy Controlled Dimming Option, Add	20.23	
For Photocell Option With Dimming Capability, Add	30.34	
26 09 23 00-0515 EA Low Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB PDT 10).....	223.52	22.76
For Low Temp/High Humidity Option, Add	10.11	
For Low Voltage Relay Option, Add	12.14	
For Photocell (Inhibit Mode Only) Option, Add	12.14	
For Occupancy Controlled Dimming Option, Add	20.23	
For Photocell Option With Dimming Capability, Add	30.34	
26 09 23 00-0516 EA Single Pole, Line Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 10)	212.40	22.76
For Low Temp/High Humidity Option, Add	10.11	
For Photocell (Inhibit Mode Only) Option, Add	12.14	
For Occupancy Controlled Dimming Option, Add	20.23	
For Photocell Option With Dimming Capability, Add	30.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.66	
26 09 23 00-0517 EA Single Pole, Line Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 10).....	212.40	22.76
For Low Temp/High Humidity Option, Add	10.11	
For Photocell (Inhibit Mode Only) Option, Add	12.14	
For Occupancy Controlled Dimming Option, Add	20.23	
For Photocell Option With Dimming Capability, Add	30.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.66	
26 09 23 00-0518 EA Single Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 10).....	176.80	22.76
For Low Temp/High Humidity Option, Add	10.11	
For Photocell (Inhibit Mode Only) Option, Add	12.14	
For Occupancy Controlled Dimming Option, Add	20.23	
For Photocell Option With Dimming Capability, Add	30.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.66	
26 09 23 00-0519 EA 2-Pole, Line Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 10 2P).....	256.89	22.76
For Low Temp/High Humidity Option, Add	10.11	
For Photocell (Inhibit Mode Only) Option, Add	12.14	
For Photocell Option With Dual Zone On/Off, Add	30.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.66	
26 09 23 00-0520 EA 2-Pole, Line Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 10 2P).....	256.89	22.76
For Low Temp/High Humidity Option, Add	10.11	
For Photocell (Inhibit Mode Only) Option, Add	12.14	
For Photocell Option With Dual Zone On/Off, Add	30.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.66	
26 09 23 00-0521 EA 2-Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 10 2P)	221.30	22.76
For Low Temp/High Humidity Option, Add	10.11	
For Photocell (Inhibit Mode Only) Option, Add	12.14	
For Photocell Option With Dual Zone On/Off, Add	30.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.66	
26 09 23 00-0522 Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0459)		
26 09 23 00-0523 Passive Infrared, Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0522)		
26 09 23 00-0524 EA Low Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WV 16).....	179.02	22.76
For Low Temp/High Humidity Option, Add	10.11	
For Low Voltage Relay Option, Add	12.14	
For Photocell (Inhibit Mode Only) Option, Add	12.14	
For Ceiling Mount, Add	20.23	
26 09 23 00-0525 EA Low Voltage, Passive Infrared, Wall Mount, Hallway Occupancy Sensor (Sensor Switch HW 13).....	201.27	22.76
For Low Temp/High Humidity Option, Add	10.11	
For Low Voltage Relay Option, Add	12.14	
For Photocell (Inhibit Mode Only) Option, Add	12.14	
For Ceiling Mount, Add	20.23	
26 09 23 00-0526 EA Line Voltage, Passive Infrared, Wall Mount, Hallway Occupancy Sensor (Sensor Switch HWR 13).....	245.77	22.76
For Low Temp/High Humidity Option, Add	10.11	
For Ceiling Mount, Add	20.23	
26 09 23 00-0527 EA Single Pole, Line Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR 16).....	234.65	22.76
For Low Temp/High Humidity Option, Add	10.11	
For Photocell (Inhibit Mode Only) Option, Add	12.14	
For Ceiling Mount, Add	20.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0528 EA 2-Pole, Line Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR 16 2P) <i>For Low Temp/High Humidity Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i> <i>For Ceiling Mount, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	279.14 10.11 12.14 20.23 13.66	22.76
26 09 23 00-0529 Dual Technology, Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0529) Note: Includes passive infrared and microphonics detection		
26 09 23 00-0530 EA Low Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WV PDT 16) <i>For Low Temp/High Humidity Option, Add</i> <i>For Low Voltage Relay Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i> <i>For Ceiling Mount, Add</i>	223.52 10.11 12.14 12.14 20.23	22.76
26 09 23 00-0531 EA Single Pole, Line Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR PDT 16) <i>For Low Temp/High Humidity Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i> <i>For Ceiling Mount, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	256.89 10.11 12.14 20.23 13.66	22.76
26 09 23 00-0532 EA 2-Pole, Line Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR PDT 16 2P) <i>For Low Temp/High Humidity Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i> <i>For Ceiling Mount, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	301.39 10.11 12.14 20.23 13.66	22.76
26 09 23 00-0533 High Bay Occupancy Sensors (Sensor Switch) (26 09 23 00-0459)		
26 09 23 00-0534 Passive Infrared, High Bay Occupancy Sensors (Sensor Switch) (26 09 23 00-0533)		
26 09 23 00-0535 EA Low Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CM 6) <i>For Low Temp/High Humidity Option, Add</i> <i>For Low Voltage Relay Option, Add</i> <i>For Photocell Option, Add</i> <i>For Occupancy Controlled Dimming Option, Add</i>	179.02 10.11 12.14 20.23 20.23	22.76
26 09 23 00-0536 EA Low Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RM 6) <i>For Low Temp/High Humidity Option, Add</i> <i>For Low Voltage Relay Option, Add</i> <i>For Photocell Option, Add</i> <i>For Occupancy Controlled Dimming Option, Add</i>	179.02 10.11 12.14 20.23 20.23	22.76
26 09 23 00-0537 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMB 6) <i>For Low Temp/High Humidity Option, Add</i> <i>For Low Voltage Relay Option, Add</i> <i>For Photocell Option, Add</i> <i>For Occupancy Controlled Dimming Option, Add</i>	179.02 10.11 12.14 20.23 20.23	22.76
26 09 23 00-0538 EA Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6) <i>For Low Temp/High Humidity Option, Add</i> <i>For Start To High, HID Option, Add</i> <i>For Photocell Option, Add</i> <i>For Occupancy Controlled Dimming Option, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	154.55 10.11 12.14 20.23 20.23 13.66	22.76
26 09 23 00-0539 EA Single Pole, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6) <i>For Low Temp/High Humidity Option, Add</i> <i>For Start To High, HID Option, Add</i> <i>For Photocell Option, Add</i> <i>For Occupancy Controlled Dimming Option, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	154.55 10.11 12.14 20.23 20.23 13.66	22.76
26 09 23 00-0540 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6) <i>For Low Temp/High Humidity Option, Add</i> <i>For Start To High, HID Option, Add</i> <i>For Photocell Option, Add</i> <i>For Occupancy Controlled Dimming Option, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	154.55 10.11 12.14 20.23 20.23 13.66	22.76
26 09 23 00-0541 EA 2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 2P) <i>For Low Temp/High Humidity Option, Add</i> <i>For Photocell Option, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	199.05 10.11 20.23 13.66	22.76
26 09 23 00-0542 EA 2-Pole, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 2P) <i>For Low Temp/High Humidity Option, Add</i> <i>For Photocell Option, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	199.05 10.11 20.23 13.66	22.76
26 09 23 00-0543 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 2P) <i>For Low Temp/High Humidity Option, Add</i> <i>For Photocell Option, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	199.05 10.11 20.23 13.66	22.76

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0544	EA	208/240 Volt AC, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 208).....	170.12	22.76
		<i>For Low Temp/High Humidity Option, Add</i>	10.11	
		<i>For Photozell Option, Add</i>	20.23	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0545	EA	208/240 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 208).....	170.12	22.76
		<i>For Low Temp/High Humidity Option, Add</i>	10.11	
		<i>For Photozell Option, Add</i>	20.23	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0546	EA	208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 208).....	170.12	22.76
		<i>For Low Temp/High Humidity Option, Add</i>	10.11	
		<i>For Photozell Option, Add</i>	20.23	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0547	EA	480 Volt AC, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 480).....	170.12	22.76
		<i>For Low Temp/High Humidity Option, Add</i>	10.11	
		<i>For Photozell Option, Add</i>	20.23	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0548	EA	480 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 480).....	170.12	22.76
		<i>For Low Temp/High Humidity Option, Add</i>	10.11	
		<i>For Photozell Option, Add</i>	20.23	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0549	EA	480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 480).....	170.12	22.76
		<i>For Low Temp/High Humidity Option, Add</i>	10.11	
		<i>For Photozell Option, Add</i>	20.23	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0550	EA	Low Voltage, Passive Infrared, Surface Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HM 50).....	201.27	22.76
		<i>For Low Temp/High Humidity Option, Add</i>	10.11	
		<i>For Low Voltage Relay Option, Add</i>	12.14	
		<i>For Occupancy Controlled Dimming Option, Add</i>	20.23	
26 09 23 00-0551	EA	Low Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RM 50).....	201.27	22.76
		<i>For Low Temp/High Humidity Option, Add</i>	10.11	
		<i>For Low Voltage Relay Option, Add</i>	12.14	
		<i>For Occupancy Controlled Dimming Option, Add</i>	20.23	
26 09 23 00-0552	EA	Low Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMB 50).....	201.27	22.76
		<i>For Low Temp/High Humidity Option, Add</i>	10.11	
		<i>For Low Voltage Relay Option, Add</i>	12.14	
		<i>For Photozell Option, Add</i>	20.23	
		<i>For Occupancy Controlled Dimming Option, Add</i>	20.23	
26 09 23 00-0553	EA	Single Pole, Line Voltage, Passive Infrared, Surface Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMR 50).....	243.55	22.76
		<i>For Low Temp/High Humidity Option, Add</i>	10.11	
		<i>For Start To High, HID Option, Add</i>	12.14	
		<i>For Occupancy Controlled Dimming Option, Add</i>	20.23	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0554	EA	Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50).....	243.55	22.76
		<i>For Low Temp/High Humidity Option, Add</i>	10.11	
		<i>For Start To High, HID Option, Add</i>	12.14	
		<i>For Occupancy Controlled Dimming Option, Add</i>	20.23	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0555	EA	Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50).....	243.55	22.76
		<i>For Low Temp/High Humidity Option, Add</i>	10.11	
		<i>For Start To High, HID Option, Add</i>	12.14	
		<i>For Photozell Option, Add</i>	20.23	
		<i>For Occupancy Controlled Dimming Option, Add</i>	20.23	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0556	EA	2-Pole, Line Voltage, Recessed Mount, Passive Infrared, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 2P).....	214.62	22.76
		<i>For Low Temp/High Humidity Option, Add</i>	10.11	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0557	EA	2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 2P).....	214.62	22.76
		<i>For Low Temp/High Humidity Option, Add</i>	10.11	
		<i>For Photozell Option, Add</i>	20.23	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0558	EA	208/240 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 208).....	181.25	22.76
		<i>For Low Temp/High Humidity Option, Add</i>	10.11	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0559	EA	208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 208).....	181.25	22.76
		<i>For Low Temp/High Humidity Option, Add</i>	10.11	
		<i>For Photozell Option, Add</i>	20.23	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0560	EA	480 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 480).....	181.25	22.76
		<i>For Low Temp/High Humidity Option, Add</i>	10.11	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0561 EA 480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 480).....	181.25	22.76
<i>For Low Temp/High Humidity Option, Add</i>	10.11	
<i>For Photocell Option, Add</i>	20.23	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0562 EA Low Voltage, Passive Infrared, Surface Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HM 10).....	201.27	22.76
<i>For Low Temp/High Humidity Option, Add</i>	10.11	
<i>For Low Voltage Relay Option, Add</i>	12.14	
<i>For Occupancy Controlled Dimming Option, Add</i>	20.23	
26 09 23 00-0563 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMB 10).....	201.27	22.76
<i>For Low Temp/High Humidity Option, Add</i>	10.11	
<i>For Low Voltage Relay Option, Add</i>	12.14	
<i>For Occupancy Controlled Dimming Option, Add</i>	20.23	
26 09 23 00-0564 EA Single Pole, Line Voltage, Passive Infrared, Surface Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMR 10).....	243.55	22.76
<i>For Low Temp/High Humidity Option, Add</i>	10.11	
<i>For Start To High, HID Option, Add</i>	12.14	
<i>For Occupancy Controlled Dimming Option, Add</i>	20.23	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0565 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10).....	243.55	22.76
<i>For Low Temp/High Humidity Option, Add</i>	10.11	
<i>For Start To High, HID Option, Add</i>	12.14	
<i>For Occupancy Controlled Dimming Option, Add</i>	20.23	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0566 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 2P).....	234.65	22.76
<i>For Low Temp/High Humidity Option, Add</i>	10.11	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0567 EA 480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 480).....	212.40	22.76
<i>For Low Temp/High Humidity Option, Add</i>	10.11	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0568 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 208).....	212.40	22.76
<i>For Low Temp/High Humidity Option, Add</i>	10.11	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	
26 09 23 00-0569 Occupancy Sensor Power Packs (Sensor Switch) (26 09 23 00-0458)		
26 09 23 00-0570 EA Single Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack With Relay Circuit Protection (Sensor Switch PP20).....	102.78	20.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.14	
26 09 23 00-0571 EA 2-Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack With Relay Circuit Protection (Sensor Switch PP20 2P).....	147.27	20.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.14	
26 09 23 00-0572 EA Single Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack Without Relay Circuit Protection (Sensor Switch MP20).....	80.53	20.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.14	
26 09 23 00-0573 EA 2-Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Slave Pack Without Relay Circuit Protection (Sensor Switch MSP20).....	73.85	20.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.14	
26 09 23 00-0574 EA 20 Amperes, 120/277 Volt AC, Occupancy Sensor Slave Pack (Sensor Switch SP20).....	96.10	20.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.14	
26 09 23 00-0575 EA 120/277 Volt AC, High Intensity Discharge (HID) Power Pack With 20 Minute Start To High Override (Sensor Switch PP20 SH).....	151.72	20.23
<i>For Low Temp/High Humidity Option, Add</i>	10.11	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.14	
26 09 23 00-0576 EA 120/277 Volt AC, 2-Pole, Power Pack With Alternating Relays (Sensor Switch PP 2PAR).....	151.72	20.23
<i>For Low Temp/High Humidity Option, Add</i>	10.11	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.14	
26 09 23 00-0577 EA 120/277 Volt AC, Power Pack With Momentary Contacts For Latching Contactors Or Relays (Sensor Switch PP 2PM).....	151.72	20.23
<i>For Low Temp/High Humidity Option, Add</i>	10.11	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.14	
26 09 23 00-0578 Daylighting Control (Sensor Switch) (26 09 23 00-0458)		
26 09 23 00-0579 EA Low Voltage, Ceiling Mount, On-Off Switching Photocell (Sensor Switch CM PC).....	156.77	22.76
<i>For Low Temp/High Humidity Option, Add</i>	10.11	
<i>For Dual Zone Option, Add</i>	30.34	
26 09 23 00-0580 EA Low Voltage, Recessed Mount, On-Off Switching Photocell (Sensor Switch RM PC).....	156.77	22.76
<i>For Low Temp/High Humidity Option, Add</i>	10.11	
<i>For Dual Zone Option, Add</i>	30.34	
26 09 23 00-0581 EA Low Voltage, Fixture (Box) Mount, On-Off Switching Photocell (Sensor Switch CMB PC).....	156.77	22.76
<i>For Low Temp/High Humidity Option, Add</i>	10.11	
<i>For Dual Zone Option, Add</i>	30.34	
26 09 23 00-0582 EA Line Voltage, Ceiling Mount, On-Off Switching Photocell (Sensor Switch CMR PC).....	156.77	22.76
<i>For Low Temp/High Humidity Option, Add</i>	10.11	
<i>For 480 Volt AC Option, Add</i>	14.16	
<i>For Dual Zone Option, Add</i>	30.34	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.66	

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0583 EA Line Voltage, Recessed Mount, On-Off Switching Photocell (Sensor Switch RMR PC)	156.77	22.76
For Low Temp/High Humidity Option, Add	10.11	
For 480 Volt AC Option, Add	14.16	
For Dual Zone Option, Add	30.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.66	
26 09 23 00-0584 EA Line Voltage, Fixture (Box) Mount, On-Off Switching Photocell (Sensor Switch CMRB PC)	156.77	22.76
For Low Temp/High Humidity Option, Add	10.11	
For 480 Volt AC Option, Add	14.16	
For Dual Zone Option, Add	30.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.66	
26 09 23 00-0585 EA Low Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch CM ADC)	156.77	22.76
For Low Temp/High Humidity Option, Add	10.11	
For Dual Zone Option, Add	30.34	
26 09 23 00-0586 EA Low Voltage, Recessed Mount, Automatic Dimming Control Photocell (Sensor Switch RM ADC)	156.77	22.76
For Low Temp/High Humidity Option, Add	10.11	
For Dual Zone Option, Add	30.34	
26 09 23 00-0587 EA Low Voltage, Fixture (Box) Mount, Automatic Dimming Control Photocell (Sensor Switch CMB ADC)	156.77	22.76
For Low Temp/High Humidity Option, Add	10.11	
For Dual Zone Option, Add	30.34	
26 09 23 00-0588 EA Line Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch CMR ADC)	156.77	22.76
For Low Temp/High Humidity Option, Add	10.11	
For Dual Zone Option, Add	30.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.66	
26 09 23 00-0589 EA Line Voltage, Recessed Mount, Automatic Dimming Control Photocell (Sensor Switch RMR ADC)	156.77	22.76
For Low Temp/High Humidity Option, Add	10.11	
For Dual Zone Option, Add	30.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.66	
26 09 23 00-0590 EA Line Voltage, Fixture (Box) Mount, Automatic Dimming Control Photocell (Sensor Switch CMRB ADC)	156.77	22.76
For Low Temp/High Humidity Option, Add	10.11	
For Dual Zone Option, Add	30.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.66	
26 09 23 00-0591 EA Low Voltage, Ceiling Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CM PC ADC)	223.52	22.76
For Low Temp/High Humidity Option, Add	10.11	
For Dual Zone Option, Add	30.34	
26 09 23 00-0592 EA Low Voltage, Recessed Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch RM PC ADC)	223.52	22.76
For Low Temp/High Humidity Option, Add	10.11	
For Dual Zone Option, Add	30.34	
26 09 23 00-0593 EA Low Voltage, Fixture (Box) Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMB PC ADC)	223.52	22.76
For Low Temp/High Humidity Option, Add	10.11	
For Dual Zone Option, Add	30.34	
26 09 23 00-0594 EA Line Voltage, Ceiling Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMR PC ADC)	223.52	22.76
For Low Temp/High Humidity Option, Add	10.11	
For Dual Zone Option, Add	30.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.66	
26 09 23 00-0595 EA Line Voltage, Recessed Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch RMR PC ADC)	223.52	22.76
For Low Temp/High Humidity Option, Add	10.11	
For Dual Zone Option, Add	30.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.66	
26 09 23 00-0596 EA Line Voltage, Fixture (Box) Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMRB PC ADC)	223.52	22.76
For Low Temp/High Humidity Option, Add	10.11	
For Dual Zone Option, Add	30.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.66	
26 09 23 00-0597 Occupancy Sensors (Sensor Switch nLight®) (26 09 23)		
Note: Includes testing of new devices and certification.		
26 09 23 00-0598 Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0597)		
Note: Excludes boxes.		
26 09 23 00-0599 Wall Switch Mount Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0598)		
26 09 23 00-0600 Dual Technology, Wall Switch Mount Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0599)		
Note: Includes passive infrared and microphonics detection		
26 09 23 00-0601 EA Low Voltage, Dual Technology, Wall Switch Mount Occupancy Sensor With Raise/Lower Dim Control (Sensor Switch nLight® nWSX PDT LV DX)	237.51	10.12
26 09 23 00-0602 360 Degree View Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0598)		
26 09 23 00-0603 Passive Infrared, 360 Degree View Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0602)		
Note: One photocell or dimming option per occupancy sensor		
26 09 23 00-0604 EA Low Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM 9)	284.29	22.76
26 09 23 00-0605 EA Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM 10)	284.29	22.76
26 09 23 00-0606 EA Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor With Auto Dimming Control Photocell (Sensor Switch nLight® nCM 10 ADC)	284.29	22.76



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0607 Dual Technology, 360 Degree View Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0602)</small> Note: One photocell or dimming option per occupancy sensor. Includes passive infrared and microphonics detection		
26 09 23 00-0608 EA Low Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 9).....	332.04	22.76
26 09 23 00-0609 EA Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 10).....	332.04	22.76
26 09 23 00-0610 EA 2-Channel, Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 10 2P).....	343.96	22.76
26 09 23 00-0611 Wide View And Hallway Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0598)</small>		
26 09 23 00-0612 Dual Technology, Wide View And Hallway Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0611)</small> Note: Includes passive infrared and microphonics detection		
26 09 23 00-0613 EA Low Voltage, Dual Technology, Corner/Ceiling Mount, Wide View Occupancy Sensor (Sensor Switch nLight® nWV PDT 16).....	332.04	22.76
26 09 23 00-0614 High Bay Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0598)</small>		
26 09 23 00-0615 Passive Infrared, High Bay Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0614)</small>		
26 09 23 00-0616 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch nLight® nCMB 6).....	284.29	22.76
26 09 23 00-0617 Occupancy Sensor Power Packs (Sensor Switch nLight®) <small>(26 09 23 00-0597)</small>		
26 09 23 00-0618 EA 150mA At 15 Volt DC Output, 120-277 Volt AC Input, Standard Power Supply (Sensor Switch nLight® PS-150).....	100.17	20.23
26 09 23 00-0619 EA 250mA At 15 Volt DC Output, 120-277 Volt AC Input, Standard Power Supply (Sensor Switch nLight® PS-250).....	124.07	20.23
26 09 23 00-0620 EA 30mA/Port At 15 Volt DC Output, 120-277 Volt AC Input, Dimming Power Pack (Sensor Switch nLight® nEPP5 D KO).....	164.64	20.23
26 09 23 00-0621 EA System Power Pack and Relay, Switching Module (Sensor Switch nLight® nPP 16).....	164.64	20.23
26 09 23 00-0622 Occupancy Sensor Accessories (Sensor Switch nLight®) <small>(26 09 23 00-0597)</small>		
26 09 23 00-0623 EA RS232 AV Integrator (Sensor Switch nLight® nIO X).....	343.96	22.76
26 09 23 00-0624 EA 8 Port, Aggregation Bridge With Power Supply (Sensor Switch nLight® nBRG 8 KIT).....	279.33	22.76
26 09 23 00-0625 Daylighting Controls (Sensor Switch nLight®) <small>(26 09 23 00-0597)</small>		
26 09 23 00-0626 EA Low Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch nLight® nCM ADC).....	236.54	22.76
26 09 23 00-0627 Controls (Sensor Switch nLight®) <small>(26 09 23 00-0597)</small>		
26 09 23 00-0628 EA On/Off And Raise/Lower Control, Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM DX).....	157.75	22.76
26 09 23 00-0629 EA 1 Scene Controller (2 Buttons), Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM 1SB).....	224.62	22.76
26 09 23 00-0630 EA On/Off Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM).....	511.12	22.76
26 09 23 00-0631 EA 3-1/2" Screen, High Resolution Touch Screen Controller, WallPod® Station (Sensor Switch nLight® nPOD GFX).....	511.12	22.76
26 09 23 00-0632 EA 3-1/2" Screen, Touch Screen Clock And Network Interface Controller, Gateway (Sensor Switch nLight® nGWY2).....	1,895.93	22.76
26 09 23 00-0633 Occupancy Sensors (Lutron) <small>(26 09 23)</small> Note: Includes testing of new devices and certification.		
26 09 23 00-0634 Wireless Occupancy Sensors <small>(26 09 23 00-0633)</small>		
26 09 23 00-0635 EA Wireless, Passive Infrared, Ceiling Mount, 360 Degree View Occupancy/Vacancy Sensor (Lutron® LRF2-OCR2B-P-WH).....	119.07	22.76
26 09 23 00-0636 EA Wireless, Passive Infrared, Ceiling Mount, 360 Degree View Vacancy Sensor (Lutron® LRF2-VCR2B-P-WH).....	123.98	22.76
26 09 23 00-0637 EA Wireless, Passive Infrared, Hallway Wall Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OHLB-P-WH).....	120.24	22.76
26 09 23 00-0638 EA Wireless, Passive Infrared, Hallway Wall Mount, Vacancy Sensor (Lutron® LRF2-VHLB-P-WH).....	126.77	22.76
26 09 23 00-0639 EA Wireless, Passive Infrared, 90 Degree Corner Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OKLB-P-WH).....	121.70	22.76
26 09 23 00-0640 EA Wireless, Passive Infrared, 90 Degree Corner Mount, Vacancy Sensor (Lutron® LRF2-VKLB-P-WH).....	126.77	22.76
26 09 23 00-0641 EA Wireless, Passive Infrared, 180 Degree Wall Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OWLB-P-WH).....	119.07	22.76
26 09 23 00-0642 EA Wireless, Passive Infrared, 180 Degree Wall Mount, Vacancy Sensor (Lutron® LRF2-VWLB-P-WH).....	121.70	22.76
26 09 23 00-0643 EA Wireless, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Lutron® FHB140NP24V).....	120.24	22.76
26 09 23 00-0644 EA Wireless, Dual Technology, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CDT-500-WH).....	181.78	22.76
26 09 23 00-0645 EA Wireless, Dual Technology, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-500R-WH).....	193.50	22.76
26 09 23 00-0646 EA Wireless, Dual Technology, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CDT-1000-WH).....	219.87	22.76
26 09 23 00-0647 EA Wireless, Dual Technology, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-1000R-WH).....	231.59	22.76
26 09 23 00-0648 EA Wireless, Dual Technology, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CDT-2000-WH).....	237.45	22.76



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0649 EA Wireless, Dual Technology, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-2000R-WH).....	249.17	22.76
26 09 23 00-0650 EA Wireless, Passive Infrared, Ceiling Mount, 450 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CIR-450-WH).....	144.85	22.76
26 09 23 00-0651 EA Wireless, Passive Infrared, Ceiling Mount, 1,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CIR-1500-WH).....	152.47	22.76
26 09 23 00-0652 EA Wireless, Ultrasonic, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CUS-500-WH).....	177.38	22.76
26 09 23 00-0653 EA Wireless, Ultrasonic, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CUS-1000-WH).....	196.43	22.76
26 09 23 00-0654 EA Wireless, Ultrasonic, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CUS-2000-WH).....	211.08	22.76
26 09 23 00-0655 EA Wireless, Passive Infrared, 1,600 SF Coverage, 110 Degree Wall Mount, Occupancy Sensor (Lutron® LOS-WIR-WH).....	183.24	22.76
26 09 23 00-0656 EA Wireless, Passive Infrared, RF Daylight Sensor (Lutron® LRF2-DCRB-WH).....	168.97	22.76
26 09 23 00-0657 EA Wireless, Dual Technology, Wall Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-SIR-HD-WH).....	142.50	22.76
26 09 23 00-0658 EA Wireless, Dual Technology, Wall Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor, Dual Circuit (Lutron® LOS-S2IR-HD-WH).....	173.72	22.76
26 09 23 00-0659 EA Wireless, Switch and Ceiling Retrofit Sensor (Lutron® MRF2-1S8A-10C).....	209.44	22.76
26 09 23 00-0660 EA Wireless, Switch and Hallway Retrofit Sensor (Lutron® MRF2-1S8A-10H).....	221.86	22.76
26 09 23 00-0661 EA Wireless, Switch and Corner Retrofit Sensor (Lutron® MRF2-1S8A-10K).....	221.86	22.76
26 09 23 00-0662 EA Wireless, Switch and Wall Retrofit Sensor (Lutron® MRF2-1S8A-10W).....	221.86	22.76
26 09 23 00-0663 EA Wireless, Switch and Vacancy Retrofit Sensor (Lutron® MRF2-1S8A-10V).....	233.23	22.76
26 09 23 00-0664 EA Wireless, Two Switchs and Wall Retrofit Sensor (Lutron® MRF2-2S8A-10W).....	377.05	32.88
26 09 23 00-0665 Nodes And Modules <small>(26 09 23 00-0633)</small>		
26 09 23 00-0666 EA 0 Wired Inputs, Ceiling Mount, QS Sensor Module (Lutron® QSM2-XW-C).....	189.10	22.76
26 09 23 00-0667 EA 0 Wired Inputs, Junction Box Ceiling Mount, QS Sensor Module (Lutron® QSM2-XW-J).....	189.10	22.76
26 09 23 00-0668 EA 4 Wired Inputs, Ceiling Mount, QS Sensor Module (Lutron® QSM2-4W-C).....	237.45	22.76
26 09 23 00-0669 EA 4 Wired Inputs, Junction Box Ceiling Mount, QS Sensor Module (Lutron® QSM2-4W-J).....	237.45	22.76
26 09 23 00-0670 EA 120 Volt, Gang Box Mount, 3-Wire Fluorescent Power Module (Lutron® PHPM-3F-120-WH).....	302.58	25.30
26 09 23 00-0671 EA 120 Volt, Gang Box Mount, Switching Power Module (Lutron® PHPM-SW-DV-WH).....	302.58	25.30
26 09 23 00-0672 EA 120 Volt, Gang Box Mount, Phase Adaptive Power Module (Lutron® PHPM-PA-120-WH).....	365.59	25.30
26 09 23 00-0673 EA 120 Volt, Gang Box Mount, Phase Adaptive Power Module With 3-Wire Fluorescent Input (Lutron® PHPM-WBX-120-WH).....	374.38	25.30
26 09 23 00-0674 EA 120/277 Volt, Gang Box Mount, 3-Wire Fluorescent Power Module (Lutron® PHPM-3F-DV-WH).....	460.82	25.30
26 09 23 00-0675 EA 120/277 Volt, Gang Box Mount, Phase Adaptive Power Module (Lutron® PHPM-PA-DV-WH).....	488.66	25.30
26 09 23 00-0676 EA 120/277 Volt, Gang Box Mount, Phase Adaptive Power Module With 3-Wire Fluorescent Input (Lutron® PHPM-WBX-DV-WH).....	516.50	25.30
26 09 23 00-0677 EA 1 Circuit, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-2).....	1,388.60	40.48
26 09 23 00-0678 EA 2 Circuits, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-4).....	1,365.76	45.53
26 09 23 00-0679 EA 3 Circuits, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-6).....	1,998.58	50.59
26 09 23 00-0680 Other Accessories <small>(26 09 23 00-0633)</small>		
26 09 23 00-0681 EA Pico® Wireless Control Wallplate Adapter (Lutron® PJ).....	32.74	
26 09 23 00-0682 EA Pico® Wireless Control (Lutron® PJ).....	38.09	
26 09 23 00-0683 EA 4-Scene Wireless Remote Control (Lutron® GRX-IT-WH).....	112.67	
26 09 23 00-0684 EA 8-Scene Wireless Remote Control (Lutron® GRX-8IT-WH).....	213.76	
26 09 23 00-0685 EA 4 Button, EcoSystem® Wall Control With Raise/Lower (Lutron® CC-4BRL).....	229.00	22.76
26 09 23 00-0686 EA seeTouch® QS Wallstation (Lutron® QSWS2).....	288.38	22.76
26 09 23 00-0687 EA seeTouch® QS Wallstation With Infrared Receiver (Lutron® QSWS2).....	288.38	22.76
26 09 23 00-0688 EA 120/277 Volt, Energi Savr Node™ With Softswitch®, Fixture Controller (Lutron® QSN-4S16-S).....	469.61	25.30
26 09 23 00-0689 EA 120/277 Volt, Energi Savr Node™ For 0-10 V Models, Fixture Controller (Lutron® QSN-4T16-S).....	641.04	25.30
26 09 23 00-0690 EA Control Interface (Lutron® QSE-CI-NWK-E).....	769.31	22.76
26 09 23 00-0691 EA 1 EcoSystem® Digital Link, Energi Savr Node™, Digital Fixture Controller (Lutron® QSN-1ECO-S).....	763.46	22.76
26 09 23 00-0692 EA 2 EcoSystem® Digital Links, Energi Savr Node™, Digital Fixture Controller (Lutron® QSN-2ECO-S).....	1,019.87	22.76
26 09 23 00-0693 MLF 5 Conductor, Non-Plenum, Low Voltage Grafik Eye Cable (Lutron® GRX-CBL-346S).....	1,853.27	706.87
26 09 23 00-0694 MLF 5 Conductor, Plenum Rated, Low Voltage Grafik Eye Cable (Lutron® GRX-PCBL-346S).....	2,439.33	706.87
26 09 23 00-0695 Fixture Mounted Occupancy Sensors (Leviton) <small>(26 09 23)</small>		
Note: Includes testing of new devices and certification.		
26 09 23 00-0696 EA 120-347 Volt, Passive Infrared, Fixture Mount, 360 Degree View, High Bay Occupancy Sensor (Leviton® OSFHU-ITW).....	114.38	22.76
26 09 23 00-0697 EA 480 Volt, Passive Infrared, Fixture Mount, 360 Degree View, High Bay Occupancy Sensor (Leviton® OSFHU-I4W).....	100.90	22.76
26 09 23 00-0698 EA 120-347 Volt, Passive Infrared, Fixture Mount, 360 Degree View, Cold Storage Occupancy Sensor (Leviton® OSFHU-CTW).....	125.51	22.76
26 09 23 00-0699 EA 480 Volt, Passive Infrared, Fixture Mount, 360 Degree View, Cold Storage Occupancy Sensor (Leviton® OSFHU-C4W).....	100.90	22.76
26 09 23 00-0700 EA 120-347 Volt, Dual Detection Occupancy Wall Sensor Switch (Lithonia WSX-PDT).....	160.02	10.10
26 09 23 00-0701 Wireless Enabled Communication Devices For Streetlights <small>(26 09 23)</small>		
Note: Includes testing of new devices and certification.		
26 09 23 00-0702 Wireless Enabled Communication Devices For Streetlights (Roam®) <small>(26 09 23 00-0701)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0703 Wireless Enabled Communication Nodes For Streetlights (Roam®) <small>(26 09 23 00-0703)</small>		
<small>Note: 2.4GHz wireless enabled communication node for wireless remote on/off, group scheduling, photocontrol and diagnostics.</small>		
26 09 23 00-0704 EA 120/244/277 Voltage, Wireless Enabled Communication Node For Streetlights (Roam® REN127 NM1).....	243.67	
26 09 23 00-0705 EA 480 Voltage, Wireless Enabled Communication Node For Streetlights (Roam® REN480 NM1).....	339.18	
26 09 23 00-0706 Wireless Enabled Communication Devices For Streetlights (Roam®) <small>(26 09 23 00-0706)</small>		
26 09 23 00-0707 EA Retrofit Receptacle Kit (Roam® DUR103).....	45.51	
<small>Note: For adapting light fixtures for use with a NEMA locking type photocontrol.</small>		
26 09 23 00-0708 EA Wireless Enabled Backbone And Data Backhaul Device, Gateway (Roam® REG127)	9,665.52	57.56
26 09 23 00-0709 Counter Mounted Consolets <small>(26 09 23)</small>		
26 09 23 00-0710 EA 20" x 24" Type 12, Oil Tight Consolets, Counter Mounted (Schaefer's SPCL-20C24).....	507.60	126.22
26 09 23 00-0711 Lighting Console And Stations <small>(26 09 23)</small>		
26 09 23 00-0712 EA 80 Channel, 40 Faders, Lighting Console (ETC ColorSource CS 40).....	3,444.89	126.22
<small>For Lighting Console Dust Cover (ETC ColorSource CS40DC), Add</small>	<small>73.82</small>	
<small>For Lighting Console Case (ETC ColorSourcePart 11866), Add</small>	<small>787.13</small>	
26 09 23 00-0713 EA 10 Preset, Lighting Control Station (Doug Fleenor PRE10-A2).....	2,376.10	75.73
26 09 23 00-0714 Emergency Lighting Controls <small>(26 09 23)</small>		
26 09 23 00-0715 Emergency Lighting Control Units (Watt Stopper ELCU) <small>(26 09 23 00-0714)</small>		
<small>Note: The ELCU monitors a single circuit and can be wired either as a control device, so that emergency lighting follows the control of normal lighting, or as a bypass device to shunt emergency power around a control device when normal power fails. Includes integral push-to-test button and LED indicator for emergency and normal power.</small>		
26 09 23 00-0716 EA DIN Rail Mount, Emergency Lighting Control/Bypass Shunt Unit (Watt Stopper ELCU-100)	185.76	25.30
26 09 23 00-0717 EA 1/2" Knockout Mount, Emergency Lighting Control/Bypass Shunt Unit (Watt Stopper ELCU-200)	185.76	25.30
26 09 23 00-0718 Emergency Shunt Relays (Lighting Control & Design GR 2001™) <small>(26 09 23 00-0714)</small>		
<small>Note: Normally-closed, electrically-held relay to be wired in parallel with a wall switch. Manually controlled emergency lighting will be automatically shunted on during a power outage. Includes two-gang NEMA 1 junction box, voltage-separating barrier and plaster ring separating normal and emergency power. Excludes wall plate and switch.</small>		
26 09 23 00-0719 EA 1 Emergency Shunt Relay And NEMA 1 Enclosure (Lighting Control & Design GR 2001™).....	286.51	35.41
26 09 23 00-0720 EA 2 Emergency Shunt Relays And NEMA 1 Enclosure (Lighting Control & Design GR 2001™)	388.95	40.48
26 09 23 00-0721 EA 2 Emergency Shunt Relays And NEMA 1 Enclosure (Lighting Control & Design GR 2001™ Dual)	522.41	45.53
<small>Note: Controls normal and emergency lighting from single-pole wall switch.</small>		
26 09 23 00-0722 Photocells <small>(26 09 23)</small>		
26 09 23 00-0723 EA Plug-In Photocell For Lighting Fixtures (Intermac® LC2000).....	74.69	
26 09 23 00-0724 EA Wired Photocell For Lighting Fixtures (Intermac® K4021C)	176.88	
26 09 23 00-0725 Outdoor Lighting Motion Sensors <small>(26 09 23)</small>		
26 09 23 00-0726 EA 70' Range, 180 Degree Detection Zone, 8 Amperes, Switching Capacity, Polycarbonate Housing, Outdoor Motion Sensor (Lithonia OMS 1000)	96.96	25.30
26 09 23 00-0727 EA 70' Range, 200 Degree Detection Zone, 10 Amperes, Switching Capacity, Cast Aluminum Housing, Outdoor Motion Sensor (Lithonia OMS 2000).....	105.36	25.30
26 09 23 00-0728 EA 30' Range, 360 Degree Detection Zone, Line Voltage, Plastic Housing, IP66 Rated, Outdoor Motion Sensor With Photocell (SensorSwitch SBOR).....	417.50	25.30
<small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>	<small>15.18</small>	
26 09 23 00-0729 Street Light Controls <small>(26 09 23)</small>		
26 09 23 00-0730 Photo Controls <small>(26 09 23 00-0729)</small>		
26 09 23 00-0731 EA Photo Control, 120 Volt As Manufactured By Cooper Lighting #RA1014.....	85.60	
26 09 23 00-0732 EA Photo Control, Multi-Tap As Manufactured By Cooper Lighting #RA1016	98.84	
26 09 23 00-0733 Connector Node <small>(26 09 23 00-0729)</small>		
26 09 23 00-0734 EA Outdoor Lighting Connector Node (Philips City Touch LLC7260)	378.24	2.79
26 10 Medium-Voltage Electrical Distribution <small>(26)</small>		
26 11 Substations <small>(26 10)</small>		
26 11 13 Primary Unit Substations <small>(26 11)</small>		
26 11 13 00-0001 "Switchyard" Substation Primary Incoming Section <small>(26 11 13)</small>		

26 Electrical
26 10 Medium-Voltage Electrical Distribution
26 11 Substations



MINOR
 CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

26 11 13 00-0002		Outdoor Oil Circuit Breakers "Switchyard" <small>(26 11 13 00-0001)</small>	
<i>Note: Type SP 14.4 thru 69 KV 1200 amp. Frame mounted. Standard equipment</i>			
26 11 13 00-0003	EA	14.4 KV, 500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation	55,019.45 1,760.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>			1,074.32
26 11 13 00-0004	EA	23.0 KV, 750 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation	67,488.34 2,226.30
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>			1,342.90
26 11 13 00-0005	EA	34.5 KV, 1,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation	76,490.05 2,226.30
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>			1,342.90
26 11 13 00-0006	EA	46 KV, 2,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation	87,976.91 2,226.30
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>			1,432.43
26 11 13 00-0007	EA	69 KV, 3,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation	99,805.11 2,744.05
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>			1,652.80
26 11 13 00-0008		Accessories For Outdoor Oil Circuit Breakers <small>(26 11 13 00-0001)</small>	
26 11 13 00-0009	EA	Reclosure Relay, Adjustable, 3 Shot, #179	1,490.35 184.49
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>			109.24
26 11 13 00-0010	EA	Overcurrent Relay, 1 Phase, #51/51N	463.77 133.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>			72.86
26 11 13 00-0011	EA	Directional Overcurrent Relay, Three-Phase, Device No. 67	698.96 133.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>			90.79
26 11 13 00-0012	EA	Voltage Relay, Under Or Over- Voltage, Device No. 27 Or 59, Three-Phase	552.57 133.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>			72.86
26 11 13 00-0013	EA	Differential Relay Package, Complete, Device No. 87	2,067.03 452.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>			272.93
26 11 13 00-0014		"Switchyard", Substation Transformer Section <small>(26 11 13)</small>	
<i>Note: Standard NEMA design two winding three phase, 60 Hz. oil filled load tap changer 10% Range</i>			
26 11 13 00-0015		14.4 KV Nominal Primary <small>(26 11 13 00-0014)</small>	
26 11 13 00-0016	EA	1,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	31,600.05 1,760.33
<i>For 50 Hz Operation, Add</i>			3,362.28
<i>For Forced Air Cooling, Add</i>			3,362.28
<i>For External Control Panel, Add</i>			840.57
<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>			280.19
<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>			1,400.95
<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>			3,502.37
<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>			4,202.85
26 11 13 00-0017	EA	2,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	36,108.56 2,205.59
<i>For 50 Hz Operation, Add</i>			3,795.87
<i>For Forced Air Cooling, Add</i>			3,795.87
<i>For External Control Panel, Add</i>			948.97
<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>			316.32
<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>			1,581.61
<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>			3,954.03
<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>			4,744.83
26 11 13 00-0018	EA	5,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	55,587.64 3,106.47
<i>For 50 Hz Operation, Add</i>			5,906.55
<i>For Forced Air Cooling, Add</i>			5,906.55
<i>For External Control Panel, Add</i>			1,476.64
<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>			492.21
<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>			2,461.06
<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>			6,152.66
<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>			7,383.19
26 11 13 00-0019	EA	7,500 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	80,715.95 3,771.76
<i>For 50 Hz Operation, Add</i>			8,709.69
<i>For Forced Air Cooling, Add</i>			8,709.69
<i>For External Control Panel, Add</i>			2,177.42
<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>			725.81
<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>			3,629.04
<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>			9,072.60
<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>			10,887.12
26 11 13 00-0020	EA	10,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	99,435.05 4,881.10
<i>For 50 Hz Operation, Add</i>			10,711.93
<i>For Forced Air Cooling, Add</i>			10,711.93
<i>For External Control Panel, Add</i>			2,677.98
<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>			892.66
<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>			4,463.31
<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>			11,158.26
<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>			13,389.92
26 11 13 00-0021		23 KV Nominal Primary <small>(26 11 13 00-0014)</small>	
26 11 13 00-0022	EA	1,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	35,297.90 2,381.63
<i>For 50 Hz Operation, Add</i>			3,698.59
<i>For External Control Panel, Add</i>			924.65
<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>			308.22
<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>			1,541.08
<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>			3,852.70
<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>			4,623.24
<i>For Forced Air Cooling, Add</i>			2,465.73



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0023 EA 2,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	40,282.41	2,381.63
For 50 Hz Operation, Add	4,185.24	
For External Control Panel, Add	1,046.31	
For Internally Mounted Current Transformers And Linear Couplers, Add	348.77	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,743.85	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	4,359.63	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	5,231.55	
For Forced Air Cooling, Add	2,790.16	
26 11 13 00-0024 EA 5,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	64,726.08	3,520.67
For 50 Hz Operation, Add	6,907.67	
For External Control Panel, Add	1,726.92	
For Internally Mounted Current Transformers And Linear Couplers, Add	575.64	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,878.20	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	7,195.49	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	8,634.59	
For Forced Air Cooling, Add	4,605.12	
26 11 13 00-0025 EA 7,500 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	86,921.11	4,881.10
For 50 Hz Operation, Add	9,210.26	
For External Control Panel, Add	2,302.56	
For Internally Mounted Current Transformers And Linear Couplers, Add	767.52	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,837.61	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	9,594.02	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	11,512.82	
For Forced Air Cooling, Add	6,140.17	
26 11 13 00-0026 EA 10,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	107,777.71	4,881.10
For 50 Hz Operation, Add	11,713.05	
For External Control Panel, Add	2,928.26	
For Internally Mounted Current Transformers And Linear Couplers, Add	976.09	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	4,880.44	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	12,201.10	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	14,641.31	
For Forced Air Cooling, Add	7,808.70	
26 11 13 00-0027 34.5 KV Nominal Primary <small>(26 11 13 00-0014)</small>		
26 11 13 00-0028 EA 1,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	44,337.86	2,847.60
For 50 Hz Operation, Add	4,671.90	
For External Control Panel, Add	1,167.97	
For Internally Mounted Current Transformers And Linear Couplers, Add	389.32	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,946.62	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	4,866.56	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	5,839.87	
For Forced Air Cooling, Add	3,114.60	
26 11 13 00-0029 EA 2,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	53,554.41	4,452.61
For 50 Hz Operation, Add	5,645.20	
For External Control Panel, Add	1,411.30	
For Internally Mounted Current Transformers And Linear Couplers, Add	470.43	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,352.17	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	5,880.42	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	7,056.51	
For Forced Air Cooling, Add	3,763.47	
26 11 13 00-0030 EA 5,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	74,025.43	4,452.61
For 50 Hz Operation, Add	7,808.73	
For External Control Panel, Add	1,952.18	
For Internally Mounted Current Transformers And Linear Couplers, Add	650.73	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,253.64	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	8,134.09	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	9,760.91	
For Forced Air Cooling, Add	5,205.82	
26 11 13 00-0031 EA 7,500 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	95,263.69	4,770.16
For 50 Hz Operation, Add	10,211.37	
For External Control Panel, Add	2,552.84	
For Internally Mounted Current Transformers And Linear Couplers, Add	850.95	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	4,254.74	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	10,636.84	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	12,764.21	
For Forced Air Cooling, Add	6,807.58	
26 11 13 00-0032 EA 10,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	164,852.16	6,101.37
For 50 Hz Operation, Add	18,220.31	
For External Control Panel, Add	4,555.08	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,518.36	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	7,591.80	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	18,979.49	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	22,775.39	
For Forced Air Cooling, Add	12,146.87	
26 11 13 00-0033 46 KV Nominal Primary <small>(26 11 13 00-0014)</small>		
26 11 13 00-0034 EA 1,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	68,099.82	3,313.57
For 50 Hz Operation, Add	7,390.65	
For External Control Panel, Add	1,847.66	
For Internally Mounted Current Transformers And Linear Couplers, Add	615.89	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,079.44	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	7,698.60	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	9,238.32	
For Forced Air Cooling, Add	4,927.10	

26 Electrical
26 10 Medium-Voltage Electrical Distribution
26 11 Substations



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0035 EA 2,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	76,986.29	3,313.57
For 50 Hz Operation, Add	8,378.90	
For External Control Panel, Add	2,094.72	
For Internally Mounted Current Transformers And Linear Couplers, Add	698.24	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,491.21	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	8,728.02	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	10,473.62	
For Forced Air Cooling, Add	5,585.93	
26 11 13 00-0036 EA 5,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	106,703.55	4,452.61
For 50 Hz Operation, Add	11,730.10	
For External Control Panel, Add	2,932.53	
For Internally Mounted Current Transformers And Linear Couplers, Add	977.51	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	4,887.54	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	12,218.86	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	14,662.63	
For Forced Air Cooling, Add	7,820.07	
26 11 13 00-0037 EA 7,500 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	130,475.39	6,101.37
For 50 Hz Operation, Add	14,095.10	
For External Control Panel, Add	3,523.77	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,174.59	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	5,872.96	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	14,682.39	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	17,618.87	
For Forced Air Cooling, Add	9,396.73	
26 11 13 00-0038 EA 10,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	185,760.44	6,101.37
For 50 Hz Operation, Add	20,729.30	
For External Control Panel, Add	5,182.33	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,727.44	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	8,637.21	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	21,593.02	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	25,911.63	
For Forced Air Cooling, Add	13,819.54	
26 11 13 00-0039 69 KV Nominal Primary (26 11 13 00-0014)		
26 11 13 00-0040 EA 1,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	98,162.95	3,520.67
For 50 Hz Operation, Add	10,920.10	
For External Control Panel, Add	2,730.02	
For Internally Mounted Current Transformers And Linear Couplers, Add	910.01	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	4,550.04	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	11,375.10	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	13,650.12	
For Forced Air Cooling, Add	7,280.06	
26 11 13 00-0041 EA 2,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	112,699.60	4,452.61
For 50 Hz Operation, Add	12,449.63	
For External Control Panel, Add	3,112.41	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,037.47	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	5,187.35	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	12,968.37	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	15,562.04	
For Forced Air Cooling, Add	8,299.75	
26 11 13 00-0042 EA 5,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	155,085.54	4,452.61
For 50 Hz Operation, Add	17,535.94	
For External Control Panel, Add	4,383.99	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,461.33	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	7,306.64	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	18,266.61	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	21,919.93	
For Forced Air Cooling, Add	11,690.63	
26 11 13 00-0043 EA 7,500 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	164,245.54	6,101.37
For 50 Hz Operation, Add	18,147.51	
For External Control Panel, Add	4,536.88	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,512.29	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	7,561.46	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	18,903.66	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	22,684.39	
For Forced Air Cooling, Add	12,098.34	
26 11 13 00-0044 EA 10,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	215,297.47	6,101.37
For 50 Hz Operation, Add	24,273.75	
For External Control Panel, Add	6,068.44	
For Internally Mounted Current Transformers And Linear Couplers, Add	2,022.81	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	10,114.06	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	25,285.15	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	30,342.18	
For Forced Air Cooling, Add	16,182.50	
26 11 13 00-0045 Circuit Breakers Fluarc SF6 13.8 KV (26 11 13)		
26 11 13 00-0046 EA 1,200 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	59,019.92	882.39
26 11 13 00-0047 EA 1,200 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	64,808.38	882.39
26 11 13 00-0048 EA 1,200 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	73,777.73	1,096.07
26 11 13 00-0049 EA 2,000 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	68,962.39	1,317.97
26 11 13 00-0050 EA 2,000 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	77,707.09	1,317.97
26 11 13 00-0051 EA 2,000 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	88,649.70	1,531.19
26 11 13 00-0052 EA 3,000 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	91,373.04	1,749.39
26 11 13 00-0053 EA 3,000 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	102,260.68	1,749.39



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0054 EA 3,000 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	107,171.24	1,964.58
26 11 16 Secondary Unit Substations ^(26 11)		
26 11 16 11 Secondary Unit Substations with Switchgear Secondary ^(26 11 16)		
26 11 16 11-0001 Substation Primary Incoming Section ^(26 11 16 11)		
26 11 16 11-0002 Manual Transferring Fused Load Break Switches ^(26 11 16 11-0001) Note: 15 KV 600 Amp 3 pole 2 position floor mounted. Type, metal compartment includes weatherproofing, fuses, transformer throat, pothead terminations thru 500 MCM, with surge protection. Manual transferring of one line to an alternate incoming line.		
26 11 16 11-0003 EA 112.5 Thru 1,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position	31,291.58	1,295.76
26 11 16 11-0004 EA 2,000 And 2,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position	36,091.10	1,295.76
26 11 16 11-0005 Automatic Transferring Fused Load Break Switches ^(26 11 16 11-0001) Note: Items are equipped with 3 pole - 2 position selector switch for automatic transferring one line to an alternate incoming line.		
26 11 16 11-0006 EA 112.5 Thru 1,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position Selector Switch	44,241.76	1,295.76
26 11 16 11-0007 EA 2,000 And 2,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position Selector Switch	47,365.32	1,295.76
26 11 16 11-0008 Accessories For Substation Fused Load Break Switches ^(26 11 16 11-0001)		
26 11 16 11-0009 EA Primary Lightning Arrestors Accessories, Secondary Distribution Section.....	8,113.08	
26 11 16 11-0010 EA Key Interlock Accessories, Secondary Distribution Section	789.70	
26 11 16 11-0011 Oil Filled Substation Transformers ^(26 11 16 11) Note: 112-1/2 KVA thru 2500 KVA standard NEMA design 3 phase cover mounted manual tap changer, liquid level gauge with alarm contacts, thermometer with alarm contacts, pressure vacuum gauge, automatic control for auxiliary cooling equipment. Weatherproof.		
26 11 16 11-0012 Substation, Primary 13.8 KV Secondary 480Y/277 Or 480 Volt, 60 HZ ^(26 11 16 11-0011)		
26 11 16 11-0013 EA 75 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof	14,966.81	776.62
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	938.95	
For Control Power Transformer On Fans And Auxiliary, Add	402.41	
For Internal Mounted Current Transformer And Linear Coupler, Add	134.14	
26 11 16 11-0014 EA 112.5 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof	21,898.83	931.95
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,402.45	
For Control Power Transformer On Fans And Auxiliary, Add	601.05	
For Internal Mounted Current Transformer And Linear Coupler, Add	200.35	
26 11 16 11-0015 EA 150 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof	24,778.26	1,035.49
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,589.51	
For Control Power Transformer On Fans And Auxiliary, Add	681.22	
For Internal Mounted Current Transformer And Linear Coupler, Add	227.07	
26 11 16 11-0016 EA 225 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof	29,346.70	1,294.37
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,873.06	
For Control Power Transformer On Fans And Auxiliary, Add	802.74	
For Internal Mounted Current Transformer And Linear Coupler, Add	267.58	
26 11 16 11-0017 EA 300 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof	32,781.89	1,605.01
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,070.03	
For Control Power Transformer On Fans And Auxiliary, Add	887.16	
For Internal Mounted Current Transformer And Linear Coupler, Add	295.72	
26 11 16 11-0018 EA 500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof	35,151.59	1,967.43
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,185.17	
For Control Power Transformer On Fans And Auxiliary, Add	936.50	
For Internal Mounted Current Transformer And Linear Coupler, Add	312.17	
26 11 16 11-0019 EA 750 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof	41,172.37	1,035.49
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,548.64	
For Control Power Transformer On Fans And Auxiliary, Add	1,092.27	
For Internal Mounted Current Transformer And Linear Coupler, Add	364.09	
26 11 16 11-0020 EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof	43,888.84	2,588.72
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,709.80	
For Control Power Transformer On Fans And Auxiliary, Add	1,161.34	
For Internal Mounted Current Transformer And Linear Coupler, Add	387.11	
26 11 16 11-0021 EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof	49,026.03	2,847.60
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	3,033.16	
For Control Power Transformer On Fans And Auxiliary, Add	1,299.92	
For Internal Mounted Current Transformer And Linear Coupler, Add	433.31	
26 11 16 11-0022 EA 2,000 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof	56,648.50	3,158.25
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	3,523.24	
For Control Power Transformer On Fans And Auxiliary, Add	1,509.96	
For Internal Mounted Current Transformer And Linear Coupler, Add	503.32	
26 11 16 11-0023 EA 2,500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof	62,195.10	3,443.01
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	3,871.64	
For Control Power Transformer On Fans And Auxiliary, Add	1,659.27	
For Internal Mounted Current Transformer And Linear Coupler, Add	553.09	
26 11 16 11-0024 Substation, Primary 13.8 KV Secondary 208Y/120 Volt, 60 HZ ^(26 11 16 11-0011)		

26 Electrical

26 10 Medium-Voltage Electrical Distribution

26 11 Substations



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0025 EA 75 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	14,297.63 892.11 382.33 127.44	776.62
26 11 16 11-0026 EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	21,371.20 1,387.26 594.54 198.18	776.62
26 11 16 11-0027 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	24,763.45 1,588.47 680.77 226.92	1,035.49
26 11 16 11-0028 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	29,372.17 1,874.84 803.50 267.83	1,294.37
26 11 16 11-0029 EA 300 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	35,382.18 2,252.05 965.16 321.72	1,605.01
26 11 16 11-0030 EA 500 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	38,389.43 2,411.82 1,033.64 344.55	1,967.43
26 11 16 11-0031 EA 750 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	42,667.48 2,653.30 1,137.13 379.04	2,381.63
26 11 16 11-0032 EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	46,464.31 2,890.08 1,238.61 412.87	2,588.72
26 11 16 11-0033 EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	52,356.50 3,266.29 1,399.84 466.61	2,847.60
26 11 16 11-0034 Accessories For Oil Filled Substation Transformers (26 11 16 11-0011)		
26 11 16 11-0035 EA Sudden Pressure Relay	4,065.60	
26 11 16 11-0036 EA Throats Or Flanges (HV Or LV)	8,071.60	
26 11 16 11-0037 EA Lightning Arrestors (3 - 1 Pole)	5,314.84	
26 11 16 11-0038 EA Single Feeder Switch With Fuses 3 Pole, 2 Position, Open-Close Close) Fuse Type - CLE (80E To 125 X)	29,494.68	
26 11 16 11-0039 EA Oil Fuse Cutout, 15 KV, 200 Amperes, Free Standing Air Filled Terminal Compartment, 15 KV - 200 Amp Cutout	27,595.21	
26 11 16 11-0040 Reinforced Concrete Curb With 6" Slab (26 11 16 11-0011) Note: For transformer liquid containment area.		
26 11 16 11-0041 EA 112.5 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	4,359.53	1,142.69
26 11 16 11-0042 EA 150 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	4,359.53	1,142.69
26 11 16 11-0043 EA 225 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	4,359.53	1,142.69
26 11 16 11-0044 EA 300 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	4,359.53	1,142.69
26 11 16 11-0045 EA 500 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	4,359.53	1,142.69
26 11 16 11-0046 EA 750 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	4,359.53	1,142.69
26 11 16 11-0047 EA 1,000 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	4,359.53	1,142.69
26 11 16 11-0048 EA 1,500 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	5,152.45	1,317.54
26 11 16 11-0049 Dry Type Substation Transformer (26 11 16 11) Note: Standard NEMA design 3 phase - 150 C rise - 60 Hz self-cooled, ventilated.		
26 11 16 11-0050 Primary 4.16 Or 4.8 KV Secondary 208 Y/120 Or 240 Volt (26 11 16 11-0049) Note: Primary 4.160 or 4.8 KV (delta or wye).		
26 11 16 11-0051 EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	25,869.38 14,527.55 -605.31 5,492.45	828.39
26 11 16 11-0052 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	25,972.92 14,527.55 -605.31 5,502.80	880.17
26 11 16 11-0053 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	26,598.96 14,716.78 -613.20 5,603.25	1,035.49
26 11 16 11-0054 EA 300 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	29,356.45 16,247.02 -676.96 6,185.05	1,139.04
26 11 16 11-0055 EA 500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	32,621.52 17,957.54 -748.23 6,853.66	1,346.13



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0056 EA 750 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	37,791.32	1,553.24
For Gas Filled Transformers, Add	20,810.91	
For Single Phase Transformers, Deduct	-867.12	
For Dry Type Unit, Add	7,941.31	
26 11 16 11-0057 EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	43,905.76	1,863.88
For Gas Filled Transformers, Add	24,106.80	
For Single Phase Transformers, Deduct	-1,004.45	
For Dry Type Unit, Add	9,211.94	
26 11 16 11-0058 EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	51,834.55	2,070.99
For Gas Filled Transformers, Add	28,615.55	
For Single Phase Transformers, Deduct	-1,192.31	
For Dry Type Unit, Add	10,906.57	
26 11 16 11-0059 EA 2,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	66,929.30	2,174.53
For Gas Filled Transformers, Add	37,548.14	
For Single Phase Transformers, Deduct	-1,564.51	
For Dry Type Unit, Add	14,202.56	
26 11 16 11-0060 Primary 4.16 Or 4.8 KV Secondary 480 Y/277 Or 480 Volt <small>(26 11 16 11-0049)</small>		
Note: Primary 4.16 or 4.8 KV (delta or wye).		
26 11 16 11-0061 EA 112.5 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	25,010.14	828.39
For Gas Filled Transformers, Add	14,012.01	
For Single Phase Transformers, Deduct	-583.83	
For Dry Type Unit, Add	5,303.42	
26 11 16 11-0062 EA 150 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	25,972.92	880.17
For Gas Filled Transformers, Add	14,527.55	
For Single Phase Transformers, Deduct	-605.31	
For Dry Type Unit, Add	5,502.80	
26 11 16 11-0063 EA 225 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	26,598.96	1,035.49
For Gas Filled Transformers, Add	14,716.78	
For Single Phase Transformers, Deduct	-613.20	
For Dry Type Unit, Add	5,603.25	
26 11 16 11-0064 EA 300 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	29,356.45	1,139.04
For Gas Filled Transformers, Add	16,247.02	
For Single Phase Transformers, Deduct	-676.96	
For Dry Type Unit, Add	6,185.05	
26 11 16 11-0065 EA 500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	32,621.52	1,346.13
For Gas Filled Transformers, Add	17,957.54	
For Single Phase Transformers, Deduct	-748.23	
For Dry Type Unit, Add	6,853.66	
26 11 16 11-0066 EA 750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	37,791.32	1,553.24
For Gas Filled Transformers, Add	20,810.91	
For Single Phase Transformers, Deduct	-867.12	
For Dry Type Unit, Add	7,941.31	
26 11 16 11-0067 EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	43,905.76	1,863.88
For Gas Filled Transformers, Add	24,106.80	
For Single Phase Transformers, Deduct	-1,004.45	
For Dry Type Unit, Add	9,211.94	
26 11 16 11-0068 EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	51,834.55	2,070.99
For Gas Filled Transformers, Add	28,615.55	
For Single Phase Transformers, Deduct	-1,192.31	
For Dry Type Unit, Add	10,906.57	
26 11 16 11-0069 EA 2,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	66,929.30	2,174.53
For Gas Filled Transformers, Add	37,548.14	
For Single Phase Transformers, Deduct	-1,564.51	
For Dry Type Unit, Add	14,202.56	
26 11 16 11-0070 EA 2,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	73,409.32	2,278.08
For Gas Filled Transformers, Add	41,311.90	
For Single Phase Transformers, Deduct	-1,721.33	
For Dry Type Unit, Add	15,603.31	
26 11 16 11-0071 EA 3,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	81,853.65	2,381.63
For Gas Filled Transformers, Add	46,254.24	
For Single Phase Transformers, Deduct	-1,927.26	
For Dry Type Unit, Add	17,436.21	
26 11 16 11-0072 EA 3,750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	94,219.21	2,485.17
For Gas Filled Transformers, Add	53,549.31	
For Single Phase Transformers, Deduct	-2,231.22	
For Dry Type Unit, Add	20,131.78	
26 11 16 11-0073 Primary 13.8 KV (Delta Or Wye) Secondary 208 Y/120 Or 240 Volt <small>(26 11 16 11-0049)</small>		
26 11 16 11-0074 EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	27,854.54	931.95
For Gas Filled Transformers, Add	15,594.40	
For Single Phase Transformers, Deduct	-649.77	
For Dry Type Unit, Add	5,904.33	
26 11 16 11-0075 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	28,812.36	983.71
For Gas Filled Transformers, Add	16,106.96	
For Single Phase Transformers, Deduct	-671.12	
For Dry Type Unit, Add	6,102.63	
26 11 16 11-0076 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	30,873.77	1,139.04
For Gas Filled Transformers, Add	17,157.41	
For Single Phase Transformers, Deduct	-714.89	
For Dry Type Unit, Add	6,518.86	

26	26	Electrical
	26 10	Medium-Voltage Electrical Distribution
	26 11	Substations



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0077	EA		300 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer.....	32,620.53	1,242.59
			<i>For Gas Filled Transformers, Add</i>	18,081.22	
			<i>For Single Phase Transformers, Deduct</i>	-753.38	
			<i>For Dry Type Unit, Add</i>	6,878.30	
26 11 16 11-0078	EA		500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer.....	37,216.68	1,449.68
			<i>For Gas Filled Transformers, Add</i>	20,590.39	
			<i>For Single Phase Transformers, Deduct</i>	-857.93	
			<i>For Dry Type Unit, Add</i>	7,839.75	
26 11 16 11-0079	EA		750 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer.....	41,273.94	1,656.79
			<i>For Gas Filled Transformers, Add</i>	22,776.22	
			<i>For Single Phase Transformers, Deduct</i>	-949.01	
			<i>For Dry Type Unit, Add</i>	8,682.64	
26 11 16 11-0080	EA		1,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer.....	48,215.35	1,967.43
			<i>For Gas Filled Transformers, Add</i>	26,568.29	
			<i>For Single Phase Transformers, Deduct</i>	-1,107.01	
			<i>For Dry Type Unit, Add</i>	10,135.19	
26 11 16 11-0081	EA		1,500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer.....	58,302.17	2,174.53
			<i>For Gas Filled Transformers, Add</i>	32,371.86	
			<i>For Single Phase Transformers, Deduct</i>	-1,348.83	
			<i>For Dry Type Unit, Add</i>	12,304.59	
26 11 16 11-0082	EA		2,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer.....	70,260.44	2,278.08
			<i>For Gas Filled Transformers, Add</i>	39,422.57	
			<i>For Single Phase Transformers, Deduct</i>	-1,642.61	
			<i>For Dry Type Unit, Add</i>	14,910.56	
26 11 16 11-0083	Primary 13.8 KV (Delta Or Wye) Secondary 480 Y/277 Or 480 Volt (26 11 16 11-0049)				
26 11 16 11-0084	EA		112.5 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer.....	27,854.54	931.95
			<i>For Gas Filled Transformers, Add</i>	15,594.40	
			<i>For Single Phase Transformers, Deduct</i>	-649.77	
			<i>For Dry Type Unit, Add</i>	5,904.33	
26 11 16 11-0085	EA		150 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer.....	28,812.36	983.71
			<i>For Gas Filled Transformers, Add</i>	16,106.96	
			<i>For Single Phase Transformers, Deduct</i>	-671.12	
			<i>For Dry Type Unit, Add</i>	6,102.63	
26 11 16 11-0086	EA		225 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer.....	30,873.77	1,139.04
			<i>For Gas Filled Transformers, Add</i>	17,157.41	
			<i>For Single Phase Transformers, Deduct</i>	-714.89	
			<i>For Dry Type Unit, Add</i>	6,518.86	
26 11 16 11-0087	EA		300 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer.....	32,620.53	1,242.59
			<i>For Gas Filled Transformers, Add</i>	18,081.22	
			<i>For Single Phase Transformers, Deduct</i>	-753.38	
			<i>For Dry Type Unit, Add</i>	6,878.30	
26 11 16 11-0088	EA		500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer.....	37,216.68	1,449.68
			<i>For Gas Filled Transformers, Add</i>	20,590.39	
			<i>For Single Phase Transformers, Deduct</i>	-857.93	
			<i>For Dry Type Unit, Add</i>	7,839.75	
26 11 16 11-0089	EA		750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer.....	36,307.26	1,656.79
			<i>For Gas Filled Transformers, Add</i>	19,796.21	
			<i>For Single Phase Transformers, Deduct</i>	-824.84	
			<i>For Dry Type Unit, Add</i>	7,589.97	
26 11 16 11-0090	EA		1,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer.....	38,011.85	1,967.43
			<i>For Gas Filled Transformers, Add</i>	20,446.19	
			<i>For Single Phase Transformers, Deduct</i>	-851.92	
			<i>For Dry Type Unit, Add</i>	7,890.42	
26 11 16 11-0091	EA		1,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer.....	46,611.88	2,174.53
			<i>For Gas Filled Transformers, Add</i>	25,357.69	
			<i>For Single Phase Transformers, Deduct</i>	-1,056.57	
			<i>For Dry Type Unit, Add</i>	9,732.73	
26 11 16 11-0092	EA		2,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer.....	55,108.28	2,278.08
			<i>For Gas Filled Transformers, Add</i>	30,331.27	
			<i>For Single Phase Transformers, Deduct</i>	-1,263.80	
			<i>For Dry Type Unit, Add</i>	11,577.08	
26 11 16 11-0093	EA		2,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer.....	61,512.23	2,381.63
			<i>For Gas Filled Transformers, Add</i>	34,049.39	
			<i>For Single Phase Transformers, Deduct</i>	-1,418.72	
			<i>For Dry Type Unit, Add</i>	12,961.10	
26 11 16 11-0094	EA		3,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer.....	72,043.60	2,485.17
			<i>For Gas Filled Transformers, Add</i>	40,243.94	
			<i>For Single Phase Transformers, Deduct</i>	-1,676.83	
			<i>For Dry Type Unit, Add</i>	15,253.15	
26 11 16 11-0095	EA		3,750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer.....	88,093.50	2,588.72
			<i>For Gas Filled Transformers, Add</i>	49,749.63	
			<i>For Single Phase Transformers, Deduct</i>	-2,072.90	
			<i>For Dry Type Unit, Add</i>	18,759.28	

26 12 Medium-Voltage Transformers (26 10)

26 12 13 Liquid-Filled, Medium-Voltage Transformers (26 12)

26 12 13 00-0001 Removal And Relocation Of Transformers (26 12 13)

26 12 13 00-0002	EA	Removal And Relocation Of Up To 37.5 KVA Oil Filled Transformer.....	1,091.44
26 12 13 00-0003	EA	Removal And Relocation Of >37.5 To 100 KVA Oil Filled Transformers.....	2,008.56



	Electrical	26
	Medium-Voltage Electrical Distribution	26 10
	Medium-Voltage Switchgear	26 13

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 13 16 00-0011 EA 2,000 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	23,442.89 4,914.24	1,735.39
26 13 16 00-0012 EA 3,000 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	32,962.65 6,967.63	2,082.47
26 13 16 00-0013 13.8 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)		
26 13 16 00-0014 EA 1,200 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	18,411.01 3,848.97	1,388.31
26 13 16 00-0015 EA 1,200 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	25,347.07 5,341.62	1,388.31
26 13 16 00-0016 EA 1,200 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	37,027.71 7,873.42	1,851.09
26 13 16 00-0017 EA 2,000 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	23,161.33 4,838.40	1,851.09
26 13 16 00-0018 EA 2,000 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	33,633.99 7,109.21	2,313.85
26 13 16 00-0019 EA 2,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	47,067.72 10,029.66	2,313.85
26 13 16 00-0020 EA 3,000 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	32,382.50 6,824.21	2,313.85
26 13 16 00-0021 EA 3,000 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	44,903.30 9,545.45	2,313.85
26 13 16 00-0022 EA 3,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	58,204.05 12,440.09	2,313.85
26 13 16 00-0023 4.16 Or 4.8 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)		
26 13 16 00-0024 EA 1,200 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	5,743.01 1,157.18	757.79
26 13 16 00-0025 EA 1,200 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	7,463.38 1,535.66	757.79
26 13 16 00-0026 EA 2,000 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	8,095.89 1,640.50	1,006.53
26 13 16 00-0027 EA 2,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	10,032.20 2,032.92	1,243.69
26 13 16 00-0028 EA 3,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	13,514.08 2,798.94	1,243.69
26 13 16 00-0029 7.2 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)		
26 13 16 00-0030 EA 1,200 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	7,265.11 1,477.27	1,156.93
26 13 16 00-0031 EA 2,000 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	9,505.68 1,936.11	1,156.93
26 13 16 00-0032 EA 3,000 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	14,498.22 3,000.83	1,156.93
26 13 16 00-0033 13.8 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)		
26 13 16 00-0034 EA 1,200 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	7,493.34 1,511.50	983.39
26 13 16 00-0035 EA 1,200 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	7,991.23 1,621.04	983.39
26 13 16 00-0036 EA 1,200 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	11,448.32 2,347.78	1,214.77
26 13 16 00-0037 EA 2,000 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	10,210.87 2,041.88	1,457.73
26 13 16 00-0038 EA 2,000 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	12,557.15 2,558.07	1,457.73
26 13 16 00-0039 EA 2,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	14,438.83 2,937.65	1,700.68
26 13 16 00-0040 EA 3,000 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	13,531.00 2,704.14	1,943.64
26 13 16 00-0041 EA 3,000 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	15,138.74 3,057.85	1,943.64
26 13 16 00-0042 EA 3,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	18,648.39 3,795.88	2,175.03
26 13 16 00-0043 Accessories For Substation Secondary Distribution Sections (26 13 16 00-0001)		
26 13 16 00-0044 EA 1,200 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,650.89 439.90	733.15

26	Electrical
26 10	Medium-Voltage Electrical Distribution
26 13	Medium-Voltage Switchgear



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 13 16 00-0045 EA 2,000 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section	4,561.83	813.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	488.15	
26 13 16 00-0046 EA 3,000 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section	5,952.74	978.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	587.27	
26 13 16 00-0047 EA 3-Phase Pothead Termination Accessories, Secondary Distribution Section	3,782.72	1,471.96
26 13 16 00-0048 EA 5 KV, 15 KVA, Control Power Transformer Accessories, Secondary Distribution Section	4,522.58	92.25
26 13 16 00-0049 EA 5 KV, 30 KVA, Control Power Transformer Accessories, Secondary Distribution Section	6,042.24	92.25
26 13 16 00-0050 EA 5 KV, 75 KVA, Control Power Transformer Accessories, Secondary Distribution Section	11,068.33	92.25
26 13 16 00-0051 EA 15 KV, 15 KVA, Control Power Transformer Accessories, Secondary Distribution Section	8,697.51	92.25
26 13 16 00-0052 EA 15 KV, 30 KVA, Control Power Transformer Accessories, Secondary Distribution Section	9,495.24	92.25
26 13 16 00-0053 EA 15 KV, 75 KVA, Control Power Transformer Accessories, Secondary Distribution Section	12,926.58	92.25
26 13 16 00-0054 EA 6 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section.....	2,046.35	92.25
26 13 16 00-0055 EA 9 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section.....	2,313.47	92.25
26 13 16 00-0056 EA 15 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section.....	3,516.20	92.25
26 13 16 00-0057 EA Overcurrent Phase Protection, Time And Instantaneous Device 67	2,249.21	92.25
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.35	
26 13 16 00-0058 EA AC Ammeter With Switch	877.54	92.25
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.35	
26 13 16 00-0059 EA AC Voltmeter With Switch And Potential Transformer	877.54	92.25
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.35	
26 13 16 00-0060 EA Indicating Wattmeter	1,299.15	92.25
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.35	
26 13 16 00-0061 EA Indicating Varmeter.....	1,533.06	92.25
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.35	
26 13 16 00-0062 EA Indicating Watt-hour Meter, 2 Element.....	961.29	92.25
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.35	
26 13 16 00-0063 EA Ground Protection, Time Or Instantaneous Device 67N	2,203.92	92.25
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.35	
26 13 16 00-0064 EA Differential Generator Protection Single Phase NEMA Device 87	4,275.68	92.25
26 13 16 00-0065 EA Current Transformers 5 And 15 KV Single Secondary	593.83	92.25
26 13 16 00-0066 EA Potential Transformers 5 KV And 15 KV With Primary Fuses.....	2,852.03	92.25

26 13 19 Medium-Voltage Vacuum Interrupter Switchgear (26 13 19)

26 13 19 00-0001	Vacuum Circuit Breakers 13.8 KV <small>(26 13 19)</small>	
26 13 19 00-0002 EA 1,200 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section	46,186.37	1,446.16
26 13 19 00-0003 EA 1,200 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	51,007.50	1,827.95
26 13 19 00-0004 EA 1,200 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section	57,912.56	1,827.95
26 13 19 00-0005 EA 2,000 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section	52,926.74	1,446.16
26 13 19 00-0006 EA 2,000 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section	59,532.53	1,446.16
26 13 19 00-0007 EA 2,000 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section	67,856.42	1,700.68
26 13 19 00-0008 EA 3,000 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section	70,021.64	1,943.64
26 13 19 00-0009 EA 3,000 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section	76,660.97	1,943.64
26 13 19 00-0010 EA 3,000 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section	83,767.07	2,186.60

26 13 29 Medium-Voltage Compartmentalized Switchgear (26 13 29)

26 13 29 00-0001	Substation Secondary Distribution Section <small>(26 13 29)</small>		
Note: Low voltage drawout switchgear 277/480 volt, 3 phase 4 wire.			
26 13 29 00-0002	Switchgear Compartment Complete With Air Circuit Breaker <small>(26 13 29 00-0001)</small>		
Note: With solid state long - time and instantaneous trips.			
26 13 29 00-0003 EA 800 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-206	14,692.19	905.38	
26 13 29 00-0004 EA 1,600 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-416	23,191.57	1,368.85	
26 13 29 00-0005 EA 2,000 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-420	31,398.74	1,681.42	
26 13 29 00-0006 EA 3,200 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-632	52,207.74	1,950.88	
26 13 29 00-0007 EA 4,000 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-840	67,118.34	2,220.34	
26 13 29 00-0008	Switchgear Compartment Without Circuit Breaker <small>(26 13 29 00-0001)</small>		
26 13 29 00-0009 EA 800 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section	6,502.93	274.85	
26 13 29 00-0010 EA 1,600 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section	7,514.24	274.85	
26 13 29 00-0011 EA 2,000 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section	9,831.07	404.19	
26 13 29 00-0012 EA 3,200 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section	14,060.99	404.19	
26 13 29 00-0013 EA 4,000 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section	23,486.45	592.81	
26 13 29 00-0014	Switchgear Compartment, Blank, Use As Filler Or Metering <small>(26 13 29 00-0001)</small>		
Note: No provisions for future breaker.			
26 13 29 00-0015 EA 600 To 2,000 Amperes, Blank Section Filler, Secondary Distribution Section	3,399.12	307.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	175.65		
26 13 29 00-0016 EA 3,000 Amperes, Blank Section Filler, Secondary Distribution Section	4,248.42	307.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	206.19		
26 13 29 00-0017 EA 4,000 Amperes, Blank Section Filler, Secondary Distribution Section	5,554.89	474.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	296.41		
26 13 29 00-0018	Accessories For Substation Secondary Distribution <small>(26 13 29 00-0001)</small>		
26 13 29 00-0019 EA Short Time Delay Accessories, Secondary Distribution Section	1,828.49		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.35		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 13 29 00-0020 EA Key Interlock Accessories, Secondary Distribution Section For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,433.63 55.35	
26 13 29 00-0021 EA Ammeter And Switch Complete Accessories, Secondary Distribution Section For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,436.05 55.35	92.25
26 13 29 00-0022 EA Voltmeter And Switch Complete Accessories, Secondary Distribution Section For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,436.05 55.35	92.25
26 13 29 00-0023 EA Wattmeter - Complete Accessories, Secondary Distribution Section For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5,851.58 55.35	92.25
26 13 29 00-0024 EA Watt-hour Meter - Complete Accessories, Secondary Distribution Section For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7,565.11 55.35	92.25
26 13 29 00-0025 EA Circuit Breaker Lifting Device Accessories, Secondary Distribution Section For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,312.13 63.11	105.22
26 13 29 00-0026 EA Weatherproofing, Per Vertical Section Accessories, Secondary Distribution Section For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10,750.63 935.01	1,558.34
26 13 29 00-0027 EA Current Transformer, Single Section 5 To 800 Single Secondary 5 To 800	2,037.10	92.25
26 13 29 00-0028 EA Potential Transformers Each With Fuses Accessories, Secondary Distribution Section	2,383.94	92.25
26 13 29 00-0029 EA Shunt Trip And Auxiliary Switch Accessories, Secondary Distribution Section For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,271.86 27.68	46.12
26 13 29 00-0030 EA 3 Current Limiting Fuses 15 KV Accessories, Secondary Distribution Section For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9,489.73 55.35	92.25
26 13 29 00-0031 EA 3 Phase Surge Capacitors 15 KV Accessories, Secondary Distribution Section	1,212.26	46.12

26 18 Medium-Voltage Circuit Protection Devices (26 10)

26 18 36 Medium-Voltage Enclosed Fuses (26 18)

26 18 36 00-0001 Sectionalizing Switch (26 18 36)		
26 18 36 00-0002 Pad Mounted Metal Enclosed Oil Filled Switching Units (26 18 36 00-0001) Note: 15 KV - 25 KV.		
26 18 36 00-0003 Sectionalizing Tapping And Fusing Underground Feeders (26 18 36 00-0002) Note: 200 Amp replaceable bushing wells recessed locking assembly oil level and oil fill plugs.		
26 18 36 00-0004 EA 3 Phase, 1 Switch Up And 2 Switch Downstream Tapping And Fusing Underground	29,360.12	776.62
26 18 36 00-0005 EA 3 Phase, 2 Switch Up And 2 Switch Downstream Tapping And Fusing Underground	32,987.52	776.62

26 20 Low-Voltage Electrical Distribution (26)

26 21 Low-Voltage Electrical Service Entrance (26 20)

See CSI section 26 05 13 00-0000 for wire and cables.

26 21 13 Low-Voltage Overhead Electrical Service Entrance (26 21)

26 21 13 00-0001 Service Drop Cable And Weatherheads (26 21 13)		
26 21 13 00-0002 600 Volt Insulated Stranded Conductors (26 21 13 00-0001)		
26 21 13 00-0003 Aluminum Duplex ACSR Neutral (26 21 13 00-0002)		
26 21 13 00-0004 LF #6 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable	7.11	2.76
26 21 13 00-0005 LF #4 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable	8.48	3.26
26 21 13 00-0006 LF #2 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable	9.77	3.67
26 21 13 00-0007 LF 1/0 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable	12.63	4.63

26 21 13 00-0008 Aluminum Triplex ACSR Neutral (26 21 13 00-0002)

26 21 13 00-0009 LF #6 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	8.53	3.26
26 21 13 00-0010 LF #4 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	9.70	3.67
26 21 13 00-0011 LF #2 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	12.26	4.63
26 21 13 00-0012 LF 1/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	15.14	5.64
26 21 13 00-0013 LF 2/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	19.90	7.46
26 21 13 00-0014 LF 4/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	25.03	9.26
26 21 13 00-0015 LF 336 MCM, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	31.57	11.02

26 21 13 00-0016 Aluminum Quadruplex ACSR Neutral (26 21 13 00-0002)

26 21 13 00-0017 LF #6 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	9.71	3.67
26 21 13 00-0018 LF #4 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	12.25	4.63
26 21 13 00-0019 LF #2 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	15.76	5.93
26 21 13 00-0020 LF 1/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	20.20	7.46
26 21 13 00-0021 LF 2/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	22.43	8.26
26 21 13 00-0022 LF 3/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	25.52	9.26
26 21 13 00-0023 LF 4/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	30.21	11.02
26 21 13 00-0024 LF 336 MCM, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	35.53	12.18

26 21 13 00-0025 Weatherproof Conduit Hubs (26 21 13 00-0002)

26 21 13 00-0026 EA 1/2" Weatherproof Conduit Hubs	46.42	17.78
26 21 13 00-0027 EA 3/4" Weatherproof Conduit Hubs	52.93	20.19
26 21 13 00-0028 EA 1" Weatherproof Conduit Hubs	61.13	22.62
26 21 13 00-0029 EA 1-1/4" Weatherproof Conduit Hubs	84.74	30.29
26 21 13 00-0030 EA 1-1/2" Weatherproof Conduit Hubs	92.95	32.72



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0010 EA 37.5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	2,320.09 69.16 103.74	468.43
26 22 13 00-0011 EA 50 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	2,724.09 84.16 126.23	520.49
26 22 13 00-0012 EA 75 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	3,530.65 114.07 171.11	624.58
26 22 13 00-0013 EA 100 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	4,408.11 147.54 221.31	728.68
26 22 13 00-0014 EA 167 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	6,768.12 244.72 367.08	936.88
26 22 13 00-0015 EA 250 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	11,575.23 464.25 696.38	1,145.07
26 22 13 00-0016 EA 333 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	17,582.55 749.01 1,123.51	1,301.22
26 22 13 00-0017 240 x 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001) Note: 1-10 Percent x 2-5 percent FCBN taps.		
26 22 13 00-0018 EA 3 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	884.77	312.30
26 22 13 00-0019 EA 5 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	1,002.97	325.31
26 22 13 00-0020 EA 7.5 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	1,170.08	338.32
26 22 13 00-0021 EA 10 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	1,341.24	364.34
26 22 13 00-0022 240 x 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001) Note: 2-5 Percent x 4 - 2.5 percent FCBN taps.		
26 22 13 00-0023 EA 15 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	2,125.07	390.37
26 22 13 00-0024 EA 25 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	2,316.59	416.39
26 22 13 00-0025 1 Phase Mounting Brackets (26 22 13 00-0001)		
26 22 13 00-0026 EA 1 Phase Mounting Brackets (Set Of 2) For Transformers Up To 100 KVA	510.11	184.49
26 22 13 00-0027 1 Phase Weathershields (26 22 13 00-0001) Note: Use with types DT-3 and DS-3.		
26 22 13 00-0028 EA 37.5 KVA 1 Phase Weathershields, Set Of 2	48.43	
26 22 13 00-0029 EA 50 KVA 1 Phase Weathershields, Set Of 2	61.73	
26 22 13 00-0030 EA 75 KVA 1 Phase Weathershields, Set Of 2	73.61	
26 22 13 00-0031 EA 100 KVA 1 Phase Weathershields, Set Of 2	87.81	
26 22 13 00-0032 EA 167 KVA 1 Phase Weathershields, Set Of 2	118.81	
26 22 13 00-0033 EA 250 KVA 1 Phase Weathershields, Set Of 2	142.05	
26 22 13 00-0034 EA 333 KVA 1 Phase Weathershields, Set Of 2	174.34	
26 22 13 00-0035 Packaged Power Supply (26 22 13 00-0001) Note: 2-5 Percent FCBN taps.		
26 22 13 00-0036 EA 5 KVA, 480 Volt - 120/240 Volt, Transformer With 6 - 1 Pole / 3 - 2 Pole Max 20 Amperes Breakers	1,362.57	325.31
26 22 13 00-0037 EA 7.5 KVA, 480 Volt - 120/240 Volt, Transformer With 8 - 1 Pole / 4 - 2 Pole Max 30 Amperes Breakers	1,509.12	338.32
26 22 13 00-0038 EA 10 KVA, 480 Volt - 120/240 Volt, Transformer With 10 - 1 Pole / 5 - 2 Pole Max 40 Amperes Breakers	1,632.95	364.34
26 22 13 00-0039 EA 15 KVA, 480 Volt - 120/240 Volt, Transformer With 16 - 1 Pole / 8 - 2 Pole Max 60 Amperes Breakers	1,954.37	390.37
26 22 13 00-0040 EA 25 KVA, 480 Volt - 120/240 Volt, Transformer With 24 - 1 Pole / 12 - 2 Pole Max 100 Amperes Breakers	2,583.36	416.39
26 22 13 00-0041 240 Volt, 120/240 Volt, Single Phase Isolation Transformer Computer Grade (26 22 13 00-0001)		
26 22 13 00-0042 EA 0.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	1,004.36	234.22
26 22 13 00-0043 EA 1 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	1,353.44	260.24
26 22 13 00-0044 EA 2.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	1,586.66	312.30
26 22 13 00-0045 EA 5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	1,735.38	325.31
26 22 13 00-0046 EA 7.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	1,929.29	338.32
26 22 13 00-0047 EA 10 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	2,420.40	364.34
26 22 13 00-0048 EA 15 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	3,063.91	390.37
26 22 13 00-0049 1 Phase, 208/600 Volt, Dry General Purpose Transformer (26 22 13 00-0001)		
26 22 13 00-0050 EA 15 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	3,686.80	390.37
26 22 13 00-0051 EA 25 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	3,835.17	416.39
26 22 13 00-0052 EA 30 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	3,993.79	442.41
26 22 13 00-0053 EA 37.5 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	5,160.45	468.43
26 22 13 00-0054 EA 45 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	5,369.85	494.47
26 22 13 00-0055 EA 50 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	7,028.73	520.49



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 22 13 00-0056	3 Phase General Purpose "Dry Type" Transformer ^(26 22 13) Note: 60 HZ type EP and EPT 115 C rise, 185 C insulation, type DT-3 and DS-3 150 C rise, 220 C insulation. Indoor use. Wall mounted for up to 10 KVA, floor mounted for 15 KVA and larger. DT-3 and DS-3 use weathershields for outdoor placement. UL listed.		
26 22 13 00-0057	Packaged Power Supply ^(26 22 13 00-0056) Note: 2-5 Percent FCBN taps.		
26 22 13 00-0058	EA 15 KVA, 480 Volt - 208/120 Volt, Transformer With 12 - 1 Pole / 4 - 3 Pole Max, 40 Amperes Breakers <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	5,650.65 170.63 255.94	1,119.05
26 22 13 00-0059	EA 22.5 KVA, 480 Volt - 208/120 Volt, Transformer With 18 - 1 Pole / 6 - 3 Pole Max, 60 Amperes Breakers <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	6,623.14 211.44 317.17	1,197.12
26 22 13 00-0060	EA 30 KVA, 480 Volt - 208/120 Volt, Transformer With 24 - 1 Pole / 8 - 3 Pole Max, 80 Amperes Breakers <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	7,791.22 259.44 389.16	1,301.22
26 22 13 00-0061	Drive Isolation Transformers ^(26 22 13 00-0056) Note: Only use in step-up applications.		
26 22 13 00-0062	230 Volt Drive Isolation Transformers ^(26 22 13 00-0061)		
26 22 13 00-0063	EA 7.5 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	3,853.12	416.39
26 22 13 00-0064	EA 11 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	4,470.07	442.41
26 22 13 00-0065	EA 15 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	4,635.10	468.43
26 22 13 00-0066	EA 20 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	5,420.77	494.47
26 22 13 00-0067	EA 27 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	5,640.86	546.51
26 22 13 00-0068	EA 34 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	6,199.89	598.56
26 22 13 00-0069	EA 40 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	6,987.90	650.61
26 22 13 00-0070	EA 51 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	8,106.64	728.68
26 22 13 00-0071	EA 63 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	8,744.68	754.71
26 22 13 00-0072	EA 75 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	10,018.41	780.73
26 22 13 00-0073	EA 93 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	12,455.11	806.75
26 22 13 00-0074	EA 118 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	14,053.18	988.93
26 22 13 00-0075	EA 145 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	15,623.02	1,040.98
26 22 13 00-0076	EA 175 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	17,813.49	1,093.03
26 22 13 00-0077	EA 220 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	21,702.14	1,301.22
26 22 13 00-0078	EA 275 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	28,593.88	1,535.44
26 22 13 00-0079	EA 330 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	30,240.85	1,691.59
26 22 13 00-0080	EA 440 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	36,671.49	1,873.76
26 22 13 00-0081	EA 550 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	45,068.79	2,081.95
26 22 13 00-0082	208V Drive Isolation Transformers ^(26 22 13 00-0061)		
26 22 13 00-0083	EA 7.5 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	4,006.86	416.39
26 22 13 00-0084	EA 11 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	4,652.56	442.41
26 22 13 00-0085	EA 15 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	4,823.34	468.43
26 22 13 00-0086	EA 20 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	5,646.35	494.47
26 22 13 00-0087	EA 27 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	5,872.35	546.51
26 22 13 00-0088	EA 30 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	6,402.48	572.54
26 22 13 00-0089	EA 45 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	7,329.40	676.64
26 22 13 00-0090	EA 51 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	8,445.08	728.68
26 22 13 00-0091	EA 63 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	9,112.95	754.71
26 22 13 00-0092	EA 75 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	10,448.87	780.73
26 22 13 00-0093	EA 93 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	13,006.95	806.75
26 22 13 00-0094	EA 118 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	14,667.82	988.93
26 22 13 00-0095	EA 145 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	16,312.26	1,040.98
26 22 13 00-0096	EA 175 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	18,608.92	1,093.03
26 22 13 00-0097	EA 220 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers	22,674.31	1,301.22
26 22 13 00-0098	480 Volt x 208Y/120 Volt, 2-2.5 Percent FCBN Taps ^(26 22 13 00-0056)		
26 22 13 00-0099	EA 9 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	2,826.83	429.40
26 22 13 00-0100	EA 15 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	3,637.25 135.02 202.53	468.43
26 22 13 00-0101	480 Volt x 208Y/120 Volt, 2-2.5 Percent FCAN And 4-2.5 Percent FCBN Taps ^(26 22 13 00-0056)		
26 22 13 00-0102	EA 30 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	4,111.35 148.31 222.47 2,076.40 2,966.28 3,856.16	572.54
26 22 13 00-0103	EA 37.5 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	4,915.67 183.32 274.99 2,566.54 3,666.49 4,766.44	624.58



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0104 EA 45 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	5,156.35 190.15 285.23 2,662.16 3,803.08 4,944.00	676.64
26 22 13 00-0105 EA 50 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	6,655.33 259.90 389.85 3,638.57 5,197.96 6,757.35	728.68
26 22 13 00-0106 EA 75 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	6,607.90 252.32 378.48 3,532.51 5,046.44 6,560.37	780.73
26 22 13 00-0107 EA 112.5 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	8,200.06 316.32 474.47 4,428.41 6,326.30 8,224.19	936.88
26 22 13 00-0108 EA 150 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	10,519.04 421.85 632.78 5,905.96 8,437.09 10,968.22	1,040.98
26 22 13 00-0109 EA 225 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	14,259.86 582.87 874.31 8,160.19 11,657.42 15,154.65	1,301.22
26 22 13 00-0110 EA 300 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	17,401.59 708.73 1,063.09 9,922.19 14,174.56 18,426.93	1,613.52
26 22 13 00-0111 EA 500 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	24,712.05 1,037.82 1,556.73 14,529.44 20,756.34 26,983.24	1,977.85
26 22 13 00-0112 EA 750 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	55,417.96 2,531.47 3,797.21 35,440.63 50,629.47 65,818.31	2,381.63
26 22 13 00-0113 EA 1,000 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	72,611.46 3,370.33 5,055.49 47,184.60 67,406.57 87,628.54	2,602.44
26 22 13 00-0114 480 Volt x 208Y/120 Volt, 2-2.5 Percent FCAN And 2-2.5 Percent FCBN Taps <small>(26 22 13 00-0056)</small>		
26 22 13 00-0115 EA 6 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	2,340.61 1,073.70 1,533.86 1,994.02	403.38
26 22 13 00-0116 EA 9 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	2,826.83 1,377.61 1,968.02 2,558.43	429.40
26 22 13 00-0117 EA 15 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	3,637.25 135.02 202.53 1,890.26 2,700.37 3,510.48	468.43
26 22 13 00-0118 480 Volt x 480Y/277 Volt, 2-2.5 Percent FCAN And 4 Percent FCBN Taps <small>(26 22 13 00-0056)</small>		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0119	EA	30 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	6,791.51	572.54
		<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	282.32	
		<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	423.48	
		<i>For K4 Factor Rating, Add</i>	3,952.51	
		<i>For K13 Factor Rating, Add</i>	5,646.44	
		<i>For K20 Factor Rating, Add</i>	7,340.37	
26 22 13 00-0120	EA	45 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	7,636.63	676.64
		<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	314.17	
		<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	471.25	
		<i>For K4 Factor Rating, Add</i>	4,398.35	
		<i>For K13 Factor Rating, Add</i>	6,283.36	
		<i>For K20 Factor Rating, Add</i>	8,168.37	
26 22 13 00-0121	EA	75 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	11,117.70	780.73
		<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	477.81	
		<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	716.72	
		<i>For K4 Factor Rating, Add</i>	6,689.37	
		<i>For K13 Factor Rating, Add</i>	9,556.24	
		<i>For K20 Factor Rating, Add</i>	12,423.11	
26 22 13 00-0122	EA	112.5 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	13,927.60	936.88
		<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	602.69	
		<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	904.04	
		<i>For K4 Factor Rating, Add</i>	8,437.69	
		<i>For K13 Factor Rating, Add</i>	12,053.84	
		<i>For K20 Factor Rating, Add</i>	15,669.99	
26 22 13 00-0123	EA	150 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	16,714.50	1,040.98
		<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	731.63	
		<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	1,097.44	
		<i>For K4 Factor Rating, Add</i>	10,242.79	
		<i>For K13 Factor Rating, Add</i>	14,632.55	
		<i>For K20 Factor Rating, Add</i>	19,022.32	
26 22 13 00-0124	EA	225 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	21,402.42	1,301.22
		<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	940.00	
		<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	1,410.00	
		<i>For K4 Factor Rating, Add</i>	13,159.99	
		<i>For K13 Factor Rating, Add</i>	18,799.98	
		<i>For K20 Factor Rating, Add</i>	24,439.97	
26 22 13 00-0125	EA	300 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	26,044.17	1,613.52
		<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	1,140.86	
		<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	1,711.29	
		<i>For K4 Factor Rating, Add</i>	15,972.00	
		<i>For K13 Factor Rating, Add</i>	22,817.14	
		<i>For K20 Factor Rating, Add</i>	29,662.28	
26 22 13 00-0126	EA	500 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	41,431.63	1,977.85
		<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	1,873.80	
		<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	2,810.69	
		<i>For K4 Factor Rating, Add</i>	26,233.14	
		<i>For K13 Factor Rating, Add</i>	37,475.92	
		<i>For K20 Factor Rating, Add</i>	48,718.70	
26 22 13 00-0127		3 Phase 60 Hz K20 Dry Type Transformers <small>(26 22 13 00-0056)</small>		
26 22 13 00-0128		3 Phase 60 Hz K20 Dry Type Transformers, 115 C Rise <small>(26 22 13 00-0127)</small>		
		Note: 220 C insulation 480 V-208 Y/120 V. 2-2.5 Percent above and 4-2.5 percent taps below.		
26 22 13 00-0129	EA	15 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	3,420.17	468.43
26 22 13 00-0130	EA	30 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	5,078.73	572.54
26 22 13 00-0131	EA	45 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	7,343.22	676.64
26 22 13 00-0132	EA	75 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	9,326.20	780.73
26 22 13 00-0133	EA	112.5 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	13,851.26	936.88
26 22 13 00-0134	EA	150 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	16,781.29	1,040.98
26 22 13 00-0135	EA	225 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	19,577.53	1,301.22
26 22 13 00-0136	EA	300 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	30,788.89	1,613.52
26 22 13 00-0137		3 Phase 60 Hz K20 Dry Type Transformers, 80 C Rise <small>(26 22 13 00-0127)</small>		
		Note: 220 C insulation 480 V-208 Y/120 V. 2-2.5 Percent above and 4-2.5 percent taps below.		
26 22 13 00-0138	EA	15 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	3,918.73	468.43
26 22 13 00-0139	EA	30 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	5,865.94	572.54
26 22 13 00-0140	EA	45 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	8,540.73	676.64
26 22 13 00-0141	EA	75 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	10,876.77	780.73
26 22 13 00-0142	EA	112.5 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	16,246.29	936.88
26 22 13 00-0143	EA	150 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	19,722.59	1,040.98
26 22 13 00-0144	EA	225 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	22,972.07	1,301.22
26 22 13 00-0145	EA	300 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	36,301.74	1,613.52
26 22 13 00-0146		NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0056)</small>		
26 22 13 00-0147		Aluminum Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0146)</small>		
		Note: Two taps at 2.5%, four at -2.5%.		
26 22 13 00-0148		150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0147)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0149 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	3,131.48	465.97
26 22 13 00-0150 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	3,819.98	569.51
26 22 13 00-0151 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	4,603.80	673.07
26 22 13 00-0152 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	6,169.19	776.62
26 22 13 00-0153 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	8,243.38	931.95
26 22 13 00-0154 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	10,242.98	1,035.49
26 22 13 00-0155 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	13,573.04	1,294.37
26 22 13 00-0156 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	19,086.41	1,605.01
26 22 13 00-0157 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0147)</small>		
26 22 13 00-0158 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	3,793.26	465.97
26 22 13 00-0159 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	4,621.60	569.51
26 22 13 00-0160 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	5,581.31	673.07
26 22 13 00-0161 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	7,554.20	776.62
26 22 13 00-0162 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	9,672.92	931.95
26 22 13 00-0163 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	12,694.58	1,035.49
26 22 13 00-0164 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	16,868.55	1,294.37
26 22 13 00-0165 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	23,849.32	1,605.01
26 22 13 00-0166 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0147)</small>		
26 22 13 00-0167 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	4,452.37	465.97
26 22 13 00-0168 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	5,425.44	569.51
26 22 13 00-0169 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	6,558.84	673.07
26 22 13 00-0170 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	8,936.98	776.62
26 22 13 00-0171 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	11,476.55	931.95
26 22 13 00-0172 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	15,146.18	1,035.49
26 22 13 00-0173 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	20,164.07	1,294.37
26 22 13 00-0174 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	28,612.23	1,605.01
26 22 13 00-0175 Copper Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0148)</small>		
Note: Two taps at 2.5%, four at -2.5%.		
26 22 13 00-0176 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0175)</small>		
26 22 13 00-0177 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer	4,231.92	465.97
26 22 13 00-0178 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer	5,158.23	569.51
26 22 13 00-0179 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer	6,231.51	673.07
26 22 13 00-0180 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer	8,476.05	776.62
26 22 13 00-0181 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer	11,503.26	931.95
26 22 13 00-0182 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer	14,413.59	1,035.49
26 22 13 00-0183 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer	19,177.64	1,294.37
26 22 13 00-0184 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer	27,189.37	1,605.01

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0185 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0175)</small>		
26 22 13 00-0186 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer	4,891.03	465.97
26 22 13 00-0187 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer	5,962.08	569.51
26 22 13 00-0188 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer	7,209.04	673.07
26 22 13 00-0189 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer	9,861.06	776.62
26 22 13 00-0190 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer	15,012.55	931.95
26 22 13 00-0191 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer	18,924.88	1,035.49
26 22 13 00-0192 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer	24,156.55	1,294.37
26 22 13 00-0193 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer	35,982.61	1,605.01
26 22 13 00-0194 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0175)</small>		
26 22 13 00-0195 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer	5,552.35	465.97
26 22 13 00-0196 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer	6,765.91	569.51
26 22 13 00-0197 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer	8,186.55	673.07
26 22 13 00-0198 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer	11,243.84	776.62
26 22 13 00-0199 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer	17,831.56	931.95
26 22 13 00-0200 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer	23,015.34	1,035.49
26 22 13 00-0201 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer	29,133.22	1,294.37
26 22 13 00-0202 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer	43,005.62	1,605.01
26 22 13 00-0203 3 Phase Weathershields <small>(26 22 13 00-0056)</small>		
Note: Use with type DT-3 and DS-3.		
26 22 13 00-0204 EA 45-112.5 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2.....	656.01	
26 22 13 00-0205 EA 150-300 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2.....	1,114.02	
26 22 13 00-0206 EA 500-1,000 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2.....	1,114.02	
26 22 13 00-0207 Three Phase Mounting Brackets <small>(26 22 13 00-0056)</small>		
26 22 13 00-0208 EA 3 Phase Mounting Brackets (Set Of 2) For Transformers Up To 112.5 KVA	719.17	184.49
26 22 13 00-0209 Pad Mounted Commercial Type Distribution Transformers UL Listed <small>(26 22 13)</small>		
26 22 13 00-0210 Distribution 3 Phase Oil Filled Transformer <small>(26 22 13 00-0209)</small>		
Note: Designed for loads as shopping centers, institutions, and industrial plants with underground distribution. KVA-75 thru 1000, 3 phase 95 thru 150 KV BIL standard features. With taps 4-1/2 percent below - 2-1/2 percent above and below.		
26 22 13 00-0211 Factory Modifications <small>(26 22 13 00-0210)</small>		
Note: For use with series 4100 3 phase transformers.		
26 22 13 00-0212 EA Current Limiting Fuse 95 KV Series 4100, 3 Phase Transformer, Factory Modification.....	1,202.05	
26 22 13 00-0213 EA Lightning Arrestors 9-10 KV Series 4100, 3 Phase Transformer, Factory Modification	195.47	
26 22 13 00-0214 EA Loadbreaker Oil Switch, 2 Position Series 4100, 3 Phase Transformer, Factory Modification	781.86	
26 22 13 00-0215 EA Loop Feed Air Switch Series 4100, 3 Phase Transformer, Factory Modification	2,252.60	
26 22 13 00-0216 EA Loadbreaker Inserts Series 4100, 3 Phase Transformer, Factory Modification.....	275.95	
26 22 13 00-0217 EA Lightning Arrestors, 15 KV Series 4100, 3 Phase Transformer, Factory Modification.....	218.46	
26 22 13 00-0218 Accessories For Transformer Liquid Containment Area <small>(26 22 13 00-0210)</small>		
Note: Reinforced concrete curb with 6" slab.		
26 22 13 00-0219 EA Containment Area For 75 KVA.....	5,361.00	1,910.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,273.71	
26 22 13 00-0220 EA Containment Area For 112.5 KVA.....	5,361.00	1,910.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,273.71	
26 22 13 00-0221 EA Containment Area For 150 KVA.....	5,361.00	1,910.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,273.71	
26 22 13 00-0222 EA Containment Area For 225 KVA.....	5,361.00	1,910.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,273.71	
26 22 13 00-0223 EA Containment Area For 300 KVA.....	5,354.16	1,910.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,271.66	
26 22 13 00-0224 EA Containment Area For 500 KVA.....	5,354.16	1,910.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,271.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0225 EA Containment Area For 750 KVA..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,386.35 1,271.66	1,910.53
26 22 13 00-0226 EA Containment Area For 1,000 KVA..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,853.17 1,271.66	1,910.53
26 22 13 00-0227 Primary 4.16 / 4.8 KV, Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 95 KV BIL <small>(26 22 13 00-0210)</small> Note: Rated to 5 KVA.		
26 22 13 00-0228 EA 45 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	8,117.51	1,242.59
26 22 13 00-0229 EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	8,807.39	1,242.59
26 22 13 00-0230 EA 112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	9,267.31	1,242.59
26 22 13 00-0231 EA 150 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	10,647.07	1,242.59
26 22 13 00-0232 EA 225 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	11,711.44	1,863.88
26 22 13 00-0233 EA 300 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	12,171.36	1,863.88
26 22 13 00-0234 EA 500 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	17,690.41	1,863.88
26 22 13 00-0235 EA 750 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	22,673.91	2,485.17
26 22 13 00-0236 EA 1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	28,652.87	2,485.17
26 22 13 00-0237 Primary 4.16 / 4.8 KV, Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 95 BIL <small>(26 22 13 00-0210)</small> Note: Rated to 5 KVA.		
26 22 13 00-0238 EA 45 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	8,347.47	1,242.59
26 22 13 00-0239 EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	9,267.31	1,242.59
26 22 13 00-0240 EA 112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	9,497.27	1,242.59
26 22 13 00-0241 EA 150 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	9,727.23	1,242.59
26 22 13 00-0242 EA 225 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	11,711.44	1,863.88
26 22 13 00-0243 EA 300 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	12,631.29	1,863.88
26 22 13 00-0244 EA 500 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	17,690.41	1,863.88
26 22 13 00-0245 EA 750 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	22,903.87	2,485.17
26 22 13 00-0246 EA 1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	28,652.87	2,485.17
26 22 13 00-0247 Primary 5 KV Or 15 KV, Secondary 277/480 Volt <small>(26 22 13 00-0209)</small> Note: 4-2.5 Percent taps FCAN and FCBN. Pad mounted.		
26 22 13 00-0248 EA 150 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	13,807.78	1,670.68
26 22 13 00-0249 EA 225 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	15,283.27	1,972.28
26 22 13 00-0250 EA 300 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	17,434.78	2,410.56
26 22 13 00-0251 EA 500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	20,555.68	2,712.15
26 22 13 00-0252 EA 750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	24,595.58	2,854.81
26 22 13 00-0253 EA 1,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	30,757.73	4,171.29
26 22 13 00-0254 EA 1,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	35,883.70	4,719.14
26 22 13 00-0255 EA 2,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	44,296.92	5,424.29
26 22 13 00-0256 EA 2,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	48,537.08	5,695.50
26 22 13 00-0257 EA 3,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	51,722.07	6,346.64
26 22 13 00-0258 EA 3,750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	58,727.35	6,780.59
26 22 13 00-0259 Pad Mounted Transformer 15 KV - 480 Volt, Oil Filled <small>(26 22 13 00-0209)</small>		
26 22 13 00-0260 EA 1,500 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	52,274.79	4,614.67
26 22 13 00-0261 EA 2,000 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	64,070.35	5,306.89
26 22 13 00-0262 EA 2,500 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	72,544.45	5,586.16
26 22 13 00-0263 EA 3,000 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	77,264.33	6,243.39
26 22 13 00-0264 EA 3,750 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	86,233.91	6,432.57
26 22 13 00-0265 Silicone Filled Distribution Transformers, 3 Phase <small>(26 22 13 00-0209)</small> Note: Primary 5 KV or 15 KV, secondary 277/480 V, 4-2.5 percent taps FCAN and FCBN. Pad mounted.		
26 22 13 00-0266 EA 225 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	22,571.31	1,972.28
26 22 13 00-0267 EA 300 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	24,634.78	2,410.56
26 22 13 00-0268 EA 500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	28,720.02	2,712.15
26 22 13 00-0269 EA 750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	34,206.42	2,854.81
26 22 13 00-0270 EA 1,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	42,042.61	4,171.29

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 22 Low-Voltage Transformers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0271 EA 1,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	52,607.86	4,719.14
26 22 13 00-0272 EA 2,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	63,616.12	5,424.29
26 22 13 00-0273 EA 2,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	72,062.56	5,695.50
26 22 13 00-0274 Foam Core Poly Transformer Pads (26 22 13)		
26 22 13 00-0275 EA Single Phase Foam Core Poly Pads.....	203.28	35.40
Note: Excludes site prep.		
26 24 Switchboards and Panelboards (26 20)		
26 24 13 Switchboards (26 24)		
Note: Installation of free-standing building distribution switchboards. Switchboard sections to be mounted on 4" concrete pad. Includes material, handling, unloading at job site, assembly and installation, wiring connections, testing and cleanup. Exclude concrete pad and foundation.		
26 24 13 00-0001 Fusible Switch Type 240 Volt, 3 Phase, 3 Wire (26 24 13)		
26 24 13 00-0002 Incoming Service Section Main Device Only (26 24 13 00-0001)		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0003 EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	3,785.86	883.28
26 24 13 00-0004 EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	4,201.98	934.28
26 24 13 00-0005 EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	6,909.27	1,059.79
26 24 13 00-0006 EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	7,444.24	1,136.13
26 24 13 00-0007 EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	12,111.50	1,211.37
26 24 13 00-0008 EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	13,523.33	1,288.02
26 24 13 00-0009 EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	4,634.31	883.28
26 24 13 00-0010 EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	5,990.10	934.28
26 24 13 00-0011 EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	8,415.15	1,060.70
26 24 13 00-0012 EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	11,597.01	1,136.13
26 24 13 00-0013 EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	12,111.50	1,212.58
26 24 13 00-0014 EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	13,523.33	1,288.02
26 24 13 00-0015 EA 2,500 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	16,308.68	1,346.58
26 24 13 00-0016 EA 3,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	18,507.46	1,442.62
26 24 13 00-0017 EA 4,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	21,888.31	1,555.11
26 24 13 00-0018 EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	2,519.74	782.61
26 24 13 00-0019 EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	2,793.30	833.19
26 24 13 00-0020 EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,198.11	959.11
26 24 13 00-0021 EA 1,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,456.13	999.41
26 24 13 00-0022 EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,688.75	1,035.46
26 24 13 00-0023 EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,049.09	1,110.19
26 24 13 00-0024 EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,379.71	1,186.33
26 24 13 00-0025 Branch Breaker Units (26 24 13 00-0001)		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0026 EA 15 To 60 Amperes, 240 Volt, MC Branch Breaker	336.95	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	18.48	
26 24 13 00-0027 EA 70 To 100 Amperes, 240 Volt, MC Branch Breaker	492.77	48.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	29.08	
26 24 13 00-0028 EA 125 To 225 Amperes, 240 Volt, MC Branch Breaker	1,334.94	88.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	53.01	
26 24 13 00-0029 EA 100 To 400 Amperes, 240 Volt, MC Branch Breaker	2,381.48	115.12
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	69.07	
26 24 13 00-0030 EA 300 To 600 Amperes, 240 Volt, MC Branch Breaker	4,220.81	282.75
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	169.62	
26 24 13 00-0031 EA 400 To 800 Amperes, 240 Volt, MC Branch Breaker	6,804.03	282.75
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	169.62	
26 24 13 00-0032 EA 600 To 1,200 Amperes, 240 Volt, MC Branch Breaker	11,018.85	503.90
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	302.34	
26 24 13 00-0033 Fusible Switch Type 480 Volt, 3 Phase, 3 Wire (26 24 13)		
26 24 13 00-0034 Incoming Service Section Main Device Only (26 24 13 00-0033)		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0035 EA 400 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch	5,370.85	1,146.13
26 24 13 00-0036 EA 600 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch	6,015.98	1,146.13
26 24 13 00-0037 EA 800 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch	9,044.87	1,489.47
26 24 13 00-0038 EA 1,200 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch	10,273.62	1,489.47
26 24 13 00-0039 Fusible Switch Type 120/240 Volt, 1 Phase, 3 Wire (26 24 13)		
26 24 13 00-0040 Incoming Service Section Main Device Only (26 24 13 00-0039)		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0041 EA 200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch	3,410.02	782.61
26 24 13 00-0042 EA 600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch	3,807.28	833.19
26 24 13 00-0043 EA 800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch	5,919.66	959.11
26 24 13 00-0044 EA 1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch	6,433.75	1,034.66
26 24 13 00-0045 EA 200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	4,215.45	782.61



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0101			Incoming Service Section Main Device Only (26 24 13 00-0100) Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0102	EA		400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	4,890.69	1,211.37
26 24 13 00-0103	EA		600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	5,379.55	1,288.02
26 24 13 00-0104	EA		800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	7,761.24	1,437.66
26 24 13 00-0105	EA		1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	8,492.96	1,539.35
26 24 13 00-0106	EA		400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	6,331.16	1,211.37
26 24 13 00-0107	EA		600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	8,608.15	1,288.02
26 24 13 00-0108	EA		800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	9,759.16	1,439.29
26 24 13 00-0109	EA		1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	12,401.35	1,539.35
26 24 13 00-0110	EA		1,600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	12,966.94	1,641.45
26 24 13 00-0111	EA		2,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	14,434.21	1,743.44
26 24 13 00-0112	EA		400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	2,654.50	782.61
26 24 13 00-0113	EA		600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	2,979.47	833.19
26 24 13 00-0114	EA		800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	3,477.56	959.11
26 24 13 00-0115	EA		1,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	3,750.81	999.41
26 24 13 00-0116	EA		1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	4,015.71	1,035.46
26 24 13 00-0117	EA		1,600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	4,362.99	1,110.19
26 24 13 00-0118	EA		2,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	4,714.96	1,186.33
26 24 13 00-0119			Branch Breaker Units (26 24 13 00-0100) Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 480 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0120	EA		15 To 60 Amperes, 480/277 Volt, MC Branch Breaker	706.97	30.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.48	
26 24 13 00-0121	EA		70 To 100 Amperes, 480/277 Volt, MC Branch Breaker	811.16	48.47
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.08	
26 24 13 00-0122	EA		125 To 225 Amperes, 480/277 Volt, MC Branch Breaker	1,470.90	88.35
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.01	
26 24 13 00-0123	EA		100 To 400 Amperes, 480/277 Volt, MC Branch Breaker	2,381.48	115.12
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.07	
26 24 13 00-0124	EA		300 To 600 Amperes, 480/277 Volt, MC Branch Breaker	5,704.31	282.75
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	169.62	
26 24 13 00-0125	EA		400 To 800 Amperes, 480/277 Volt, MC Branch Breaker	5,836.83	282.75
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	169.62	
26 24 13 00-0126	EA		600 To 1,200 Amperes, 480/277 Volt, MC Branch Breaker	9,351.20	503.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	302.34	
26 24 13 00-0127			Fusible Branch Circuit Switch (26 24 13) Note: Includes switch fuses, and portion of distribution section occupied by that branch device.		
26 24 13 00-0128			240 Volt, 2 Pole Twin Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0129	EA		30/30 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit	714.73	79.27
			<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0130	EA		30/60 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit	712.15	79.27
			<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0131	EA		60/60 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit	712.15	79.27
			<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0132	EA		60/100 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit	1,123.42	104.52
			<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0133	EA		100/100 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit	1,123.42	104.52
			<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0134			240 Volt, 2 Pole Single Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0135	EA		100 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit	821.28	77.76
			<i>For Electrical Interlock Kit, Add</i>	288.22	
26 24 13 00-0136	EA		200 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit	1,207.77	77.76
			<i>For Electrical Interlock Kit, Add</i>	288.22	
26 24 13 00-0137	EA		400 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit	3,101.56	209.54
26 24 13 00-0138			240 Volt, 3 Pole Twin Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0139	EA		30/30 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit	919.41	89.37
			<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0140	EA		30/60 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit	916.83	89.37
			<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0141	EA		60/60 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit	916.83	89.37
			<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0142	EA		60/100 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit	1,385.43	119.67
			<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0143	EA		100/100 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit	1,385.43	119.67
			<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0144			240 Volt, 3 Pole Single Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0145	EA		100 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	996.52	87.85
			<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0146	EA		200 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	1,626.57	87.85
			<i>For Electrical Interlock Kit, Add</i>	288.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0147 EA 400 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	4,167.24	234.58
26 24 13 00-0148 EA 600 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	5,960.98	300.52
26 24 13 00-0149 EA 800 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	11,138.93	407.16
26 24 13 00-0150 600 Volt, 3 Pole Twin Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0151 EA 30/30 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	1,309.56	89.37
For Electrical Interlock Kit, Add	300.86	
26 24 13 00-0152 EA 30/60 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	1,306.95	89.37
For Electrical Interlock Kit, Add	300.86	
26 24 13 00-0153 EA 60/60 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	1,309.56	89.37
For Electrical Interlock Kit, Add	300.86	
26 24 13 00-0154 EA 60/100 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	1,974.11	119.67
For Electrical Interlock Kit, Add	300.86	
26 24 13 00-0155 EA 100/100 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	2,017.67	119.67
For Electrical Interlock Kit, Add	300.86	
26 24 13 00-0156 EA 200/200 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	4,324.48	156.53
For Electrical Interlock Kit, Add	300.86	
26 24 13 00-0157 600 Volt, 3 Pole, Single Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0158 EA 100 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	1,416.72	87.85
For Electrical Interlock Kit, Add	300.86	
26 24 13 00-0159 EA 200 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	2,160.03	87.85
For Electrical Interlock Kit, Add	288.22	
26 24 13 00-0160 EA 400 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	5,249.34	234.58
For Electrical Interlock Kit, Add	288.22	
26 24 13 00-0161 EA 600 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	6,370.56	300.52
26 24 13 00-0162 EA 800 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	11,138.93	407.16
26 24 13 00-0163 Service And Distribution Structures (26 24 13)		
26 24 13 00-0164 Distribution Section 600 Volt, 250 Volt DC (26 24 13 00-0163)		
26 24 13 00-0165 600 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0166 EA 14 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	2,443.83	929.02
26 24 13 00-0167 EA 24 To 30 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	2,933.83	929.02
26 24 13 00-0168 EA 34 To 38 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	3,266.81	1,181.47
26 24 13 00-0169 EA 42 To 48 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	3,593.03	1,181.47
26 24 13 00-0170 800 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0171 EA 14 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	2,740.72	1,075.45
26 24 13 00-0172 EA 24 To 30 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	3,217.81	1,075.45
26 24 13 00-0173 EA 34 To 38 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	3,593.03	1,332.95
26 24 13 00-0174 EA 42 To 48 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	3,866.10	1,332.95
26 24 13 00-0175 1,200 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0176 EA 14 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	3,200.21	1,312.75
26 24 13 00-0177 EA 24 To 30 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	3,688.33	1,312.75
26 24 13 00-0178 EA 34 To 38 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	4,086.46	1,615.70
26 24 13 00-0179 EA 42 To 48 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	4,515.80	1,615.70
26 24 13 00-0180 1,600 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0181 EA 14 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	4,003.57	1,438.98
26 24 13 00-0182 EA 24 To 30 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	4,579.95	1,438.98
26 24 13 00-0183 EA 34 To 38 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	5,051.19	1,777.27
26 24 13 00-0184 EA 42 To 48 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	5,425.19	1,777.27
26 24 13 00-0185 2,000 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0186 EA 14 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	4,190.79	1,444.03
26 24 13 00-0187 EA 24 To 30 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	4,811.14	1,625.79
26 24 13 00-0188 EA 34 To 38 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	4,921.73	1,625.79
26 24 13 00-0189 EA 42 To 48 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	5,119.88	1,716.67
26 24 13 00-0190 3,000 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0191 EA 24 To 30 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	5,862.50	1,625.79
26 24 13 00-0192 EA 34 To 38 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	5,971.44	1,625.79
26 24 13 00-0193 EA 42 To 48 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	6,169.59	1,716.67
26 24 13 00-0194 4,000 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0195 EA 24 To 30 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	5,991.96	1,716.67
26 24 13 00-0196 EA 34 To 38 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	6,169.59	1,716.67
26 24 13 00-0197 EA 42 To 48 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	6,241.15	1,716.67

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0198			Pull Boy, Horizontal Mounted Across Top Of Switch Board (26 24 13 00-0164)		
26 24 13 00-0199	EA		18 - 24" Wide, 30" High, Open Bottom, Pull Boy Horizontal Mounted, Top Of Switchboard	538.60	121.18
26 24 13 00-0200	EA		Drilled Bottom For Pull Boy	606.85	121.18
26 24 13 00-0201	EA		Cable Supports In Pull Box	221.15	30.29
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.83	
26 24 13 00-0202			Underground Pull Sections (26 24 13 00-0164)		
			Note: Excludes no bus or terminal.		
26 24 13 00-0203	EA		12 To 20" Wide, 15 - 20" Deep, Underground Pull Section Without Bus Or Terminal.....	517.73	141.38
26 24 13 00-0204	EA		24 To 28" Wide, 20" Deep, Underground Pull Section Without Bus Or Terminal.....	905.67	181.76
26 24 13 00-0205	EA		24 To 28" Wide, 30" Deep, Underground Pull Section Without Bus Or Terminal.....	905.67	181.76
26 24 13 00-0206	EA		14 To 20" Wide, 36" Deep, Underground Pull Section Without Bus Or Terminal.....	674.74	141.38
26 24 13 00-0207	EA		28 To 30" Wide, 36" Deep, Underground Pull Section Without Bus Or Terminal.....	971.82	207.01
26 24 13 00-0208	EA		14 To 20" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal.....	1,106.65	207.01
26 24 13 00-0209	EA		26 To 30" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal.....	1,158.80	267.60
26 24 13 00-0210	EA		38" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal.....	1,217.90	267.60
26 24 13 00-0211			Switchboard Sections (26 24 13 00-0163)		
26 24 13 00-0212	EA		600 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	4,210.15	841.47
26 24 13 00-0213	EA		800 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	4,612.87	914.69
26 24 13 00-0214	EA		1,200 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	5,780.28	1,168.75
26 24 13 00-0215	EA		1,600 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	6,322.42	1,274.98
26 24 13 00-0216	EA		2,000 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	6,743.31	1,357.29
26 24 13 00-0217	EA		400 Amperes, 480 Volt, Switchboard Incoming For Switch Circuit Section.....	5,065.60	738.17
26 24 13 00-0218	EA		200 Amperes, Distribution Section Subfeeder Lug-Rated.....	2,823.56	701.21
26 24 13 00-0219	EA		400 Amperes, Distribution Section Subfeeder Lug-Rated.....	3,132.30	760.39
26 24 13 00-0220	EA		120/208 Or 277/480 Volt, 4 Wire, Distribution Section Aluminum Bus.....	5,162.64	841.47
26 24 13 00-0221	EA		800 Amperes, Switchboard Distribution Section Aluminum Bus Less Breaker.....	5,564.37	843.70
26 24 13 00-0222	EA		1,000 Amperes, Switchboard Distribution Section Aluminum Bus Less Breaker.....	6,118.74	941.95
26 24 13 00-0223	EA		15 To 60 Amperes, 240 Volt, 1 Phase, Feed Section Circuit Breaker FA Frame.....	155.53	50.49
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.84	
26 24 13 00-0224	EA		70 To 100 Amperes, 240 Volt, 3 Phase, Feed Section Circuit Breaker FA Frame.....	190.28	51.40
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.43	
26 24 13 00-0225	EA		70 To 225 Amperes, 480 Volt, 3 Phase, Feed Section Circuit Breaker KA Frame.....	913.53	60.69
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.48	
26 24 13 00-0226	EA		125 To 400 Amperes, 480 Volt, 3 Phase, Feed Section Circuit Breaker LA Frame.....	1,521.64	130.77
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.29	
26 24 13 00-0227	EA		100 Amperes, 240 Volt HIC, 3 Phase, Switchboard Feed Section Branch Circuit Breaker.....	598.60	182.17
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.11	
26 24 13 00-0228	EA		225 Amperes, 240 Volt HIC, 3 Phase, Switchboard Feed Section Branch Circuit Breaker.....	1,726.62	105.22
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.48	
26 24 13 00-0229			Switchboard, Structure Per Section Copper, 480 Volt (26 24 13 00-0163)		
26 24 13 00-0230	EA		225 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	2,182.08	438.26
26 24 13 00-0231	EA		400 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	3,110.63	592.66
26 24 13 00-0232	EA		600 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	3,477.47	721.30
26 24 13 00-0233	EA		800 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	4,363.77	1,009.81
26 24 13 00-0234	EA		1,200 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	5,405.12	1,262.27
26 24 13 00-0235	EA		1,600 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	5,985.34	1,262.27
26 24 13 00-0236	EA		2,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	7,361.91	1,683.06
26 24 13 00-0237	EA		2,500 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	8,474.46	1,683.06
26 24 13 00-0238	EA		3,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	9,959.94	2,003.57
26 24 13 00-0239	EA		4,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	12,007.15	2,003.57
26 24 13 00-0240			Main Devices (26 24 13)		
26 24 13 00-0241			Power Circuit Breakers (26 24 13 00-0240)		
26 24 13 00-0242			DSL Breaker With Current Limiters And Amptector (26 24 13 00-0241)		
			Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.		
26 24 13 00-0243	EA		50 To 800 Amperes, DSL-206, Main Breaker With Current Limiter, Amptector Static Trip	7,764.08	1,060.30
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	634.83	
26 24 13 00-0244	EA		50 To 1,600 Amperes, DSL-416, Main Breaker With Current Limiter, Amptector Static Trip	14,204.51	1,767.17
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,059.24	
26 24 13 00-0245	EA		1,200 To 3,200 Amperes, DSL-632, Main Breaker With Current Limiter, Amptector Static Trip	32,223.15	2,968.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,765.40	
26 24 13 00-0246	EA		4,000 Amperes, DSL-840, Main Breaker With Current Limiter, Amptector Static Trip	51,875.70	4,806.70
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,935.50	
26 24 13 00-0247	EA		Ground-Fault Trip All Power Breakers - Factory Installed	2,786.02	
26 24 13 00-0248	EA		Key Interlock All Power Breakers - Factory Installed.....	359.81	
26 24 13 00-0249	EA		Short Time Delay Selective Trip - Factory Installed	472.04	
26 24 13 00-0250	EA		Shunt Trip Manually Open Breakers - Factory Installed.....	340.00	
26 24 13 00-0251			DSL Breaker Electrical Operated And Amptector (26 24 13 00-0241)		
			Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0252 EA 50 To 800 Amperes, DSL-206, Main Breaker, Electrical Operated With Amptector Static Trip .....9,124.55		1,110.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	669.64	
26 24 13 00-0253 EA 50 To 1,600 Amperes, DSL-416, Main Breaker, Electrical Operated With Amptector Static Trip .....16,997.82		1,868.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,115.40	
26 24 13 00-0254 EA 1,200 To 3,200 Amperes, DSL-632, Main Breaker, Electrical Operated With Amptector Static Trip .....36,247.88		3,079.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,856.27	
26 24 13 00-0255 EA 4,000 Amperes, DSL-840, Main Breaker, Electrical Operated With Amptector Static Trip .....55,893.26		5,049.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,103.93	
26 24 13 00-0256 DS Breakers With Amptector Static Trip, Manually Operated (26 24 13 00-0241)		
Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted manually operated.		
26 24 13 00-0257 EA 50 To 800 Amperes, DS-206, Main Breaker With Groundfault, Amptector Static Trip .....6,150.68		969.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	582.58	
26 24 13 00-0258 EA 50 To 1,600 Amperes, DS-416, Main Breaker With Groundfault, Amptector Static Trip .....11,289.30		1,625.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	970.97	
26 24 13 00-0259 EA 2,000 Amperes, DS-420, Main Breaker With Groundfault, Amptector Static Trip .....16,665.46		2,726.49
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,618.29	
26 24 13 00-0260 EA 1,200 To 3,200 Amperes, DS-632, Main Breaker With Groundfault, Amptector Static Trip .....28,798.18		4,392.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,695.23	
26 24 13 00-0261 EA 4,000 Amperes, DS-840, Main Breaker With Groundfault, Amptector Static Trip .....46,828.73		7,169.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,481.41	
26 24 13 00-0262 DS Breakers With Amptector Static Trip, Electrically Operated (26 24 13 00-0241)		
Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted electrical operated.		
26 24 13 00-0263 EA 50 To 800 Amperes, DS-206, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip .....7,305.39		929.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	555.65	
26 24 13 00-0264 EA 50 To 1,600 Amperes, DS-416, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip .....13,675.74		1,555.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	925.87	
26 24 13 00-0265 EA 2,000 Amperes, DS-420, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip .....19,389.20		2,585.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,545.63	
26 24 13 00-0266 EA 1,200 To 3,200 Amperes, DS-632, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip .....31,990.73		4,210.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,576.05	
26 24 13 00-0267 EA 4,000 Amperes, DS-840, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip .....49,233.45		7,220.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,303.17	
26 24 13 00-0268 Molded Case Circuit Breakers Conventional (26 24 13 00-0241)		
26 24 13 00-0269 EA 70 To 225 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker .....2,521.64		848.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	488.62	
26 24 13 00-0270 EA 125 To 400 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker .....3,757.14		848.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	531.48	
26 24 13 00-0271 EA 300 To 600 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker .....4,170.10		1,009.81
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	582.58	
26 24 13 00-0272 EA 400 To 800 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker .....4,980.57		1,009.81
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	631.13	
26 24 13 00-0273 EA 600 To 1,200 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker .....7,484.74		1,211.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	691.65	
26 24 13 00-0274 EA 1,000 To 2,000 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker .....12,230.13		1,211.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	765.01	
26 24 13 00-0275 EA Shunt Trip, Factory Installed .....356.50		
26 24 13 00-0276 EA Groundfault Trip Complete Interrupting Circuit, Factory Installed .....82.52		
26 24 13 00-0277 Switchboard Branch Breaker 480 Volt (26 24 13 00-0240)		
26 24 13 00-0278 EA 60 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker .....547.31		73.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.91	
26 24 13 00-0279 EA 100 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker .....643.05		97.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.26	
26 24 13 00-0280 EA 225 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker .....1,890.88		146.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	87.76	
26 24 13 00-0281 EA 400 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker .....2,501.71		183.49
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	110.08	
26 24 13 00-0282 EA 600 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker .....3,022.38		246.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	147.64	
26 24 13 00-0283 EA 800 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker .....3,645.82		315.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	189.34	
26 24 13 00-0284 EA 1,000 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker .....5,870.35		480.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	288.52	
26 24 13 00-0285 EA 1,200 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker .....5,870.35		480.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	288.52	
26 24 13 00-0286 EA 1,600 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker .....8,233.82		673.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	403.92	
26 24 13 00-0287 EA 2,000 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker .....10,234.42		1,009.81
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	605.89	
26 24 13 00-0288 Switchboard 277/480 Volt Main Breaker (26 24 13 00-0240)		
26 24 13 00-0289 EA 400 Amperes, 277/480 Volt, Main Breaker, Switchboard .....6,692.49		438.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	262.97	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0290 EA 600 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	6,775.81	479.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	287.97	
26 24 13 00-0291 EA 800 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	7,258.50	721.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	432.78	
26 24 13 00-0292 EA 1,200 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	12,467.73	1,009.81
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	605.89	
26 24 13 00-0293 EA 1,600 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	12,682.21	1,117.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	670.23	
26 24 13 00-0294 EA 2,000 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	16,618.82	2,003.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,202.16	
26 24 13 00-0295 Branch Or Distribution Devices (26 24 13)		
26 24 13 00-0296 3 Pole, Panel Mounted, Molded Case Circuit Breakers (26 24 13 00-0295)		
Note: Includes certified refurbished circuit breakers.		
26 24 13 00-0297 EA 15 To 60 Amperes, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker	458.97	36.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.23	
26 24 13 00-0298 EA 70 To 100 Amperes, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker	465.93	45.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.29	
26 24 13 00-0299 EA 125 To 150 Amperes, 600 Volt, Type FB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker	1,106.05	54.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.35	
26 24 13 00-0300 EA 70 To 225 Amperes, 600 Volt, Type JDB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker	1,601.49	70.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.96	
26 24 13 00-0301 EA 125 To 400 Amperes, 600 Volt, Type LBB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker	2,254.55	87.25
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.16	
26 24 13 00-0302 EA 300 To 600 Amperes, 600 Volt, Type LC, 3 Pole, Panel Mounted, Molded Case Circuit Breaker	2,949.59	101.99
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.16	
26 24 13 00-0303 EA 900 To 1,000 Amperes, 600 Volt, Type NB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	4,491.44	115.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	76.95	
26 24 13 00-0304 2 Pole, Panel Mounted, Molded Case Circuit Breakers (26 24 13 00-0295)		
Note: Includes certified refurbished circuit breakers.		
26 24 13 00-0305 EA 15 To 60 Amperes, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker	316.86	27.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.18	
26 24 13 00-0306 EA 70 To 100 Amperes, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker	407.47	36.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.23	
26 24 13 00-0307 EA 125 To 150 Amperes, 600 Volt, Type FB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker	1,099.68	45.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.29	
26 24 13 00-0308 EA 70 To 225 Amperes, 600 Volt, Type JDB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker	1,736.24	50.49
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.32	
26 24 13 00-0309 EA 125 To 400 Amperes, 600 Volt, Type LBB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker	1,838.36	65.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.93	
26 24 13 00-0310 EA 900 To 1,000 Amperes, 600 Volt, Type NB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	4,151.53	95.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.62	
26 24 13 00-0311 Meter Devices And Instrumentation (26 24 13)		
Note: Factory installed accessories.		
26 24 13 00-0312 Compartments For Instrument Transformers And Metering Devices (26 24 13 00-0311)		
26 24 13 00-0313 EA Compartment For, Up To 800 Amperes, Primary Current Transformer	430.78	
26 24 13 00-0314 EA Compartment For, 1,000 To 1,500 Amperes, Primary Current Transformer.....	622.23	
26 24 13 00-0315 EA Compartment For, 2,000 To 6,000 Amperes, Primary Current Transformer	732.82	
26 24 13 00-0316 Instruments (26 24 13 00-0311)		
26 24 13 00-0317 EA AC Voltmeter.....	587.57	
26 24 13 00-0318 EA AC Ammeter.....	587.57	
26 24 13 00-0319 EA AC Wattmeter.....	1,569.61	
26 24 13 00-0320 EA Variometer	1,772.62	
26 24 13 00-0321 EA Power Factor Meter.....	1,416.12	
26 24 13 00-0322 EA Frequency Meter	1,563.01	
26 24 13 00-0323 EA 200 Volt-Amperes Max Potential Transformer	528.16	
26 24 13 00-0324 EA AC Watt-hour Meter Indicating 1 Or 2 Element With Test Block And Plug Block.....	1,988.84	
26 24 13 00-0325 EA AC Watt-hour Meter Recording 2 Element With Recording KW Demand Type R-2.....	3,327.38	
26 24 13 00-0326 EA Weatherproof, Modify Meter.....	3,134.53	
26 24 13 00-0327 EA Control Switch Resistor Type 130 V.....	71.54	
26 24 13 00-0328 EA Metering Instrument: Voltage, Amperes And Watt Hour	4,013.66	
26 24 16 Panelboards (26 24)		
26 24 16 00-0001 Branch Circuit Panelboard (26 24 16)		
Note: Includes wiring connections, drilling hole (or removing knock-out on residential units), labeling and testing. All NEMA 3R panelboards include weatherproof hubs. Copper bussing. Panelboards with less than a 30 circuit capacity do not have the door in a door trim front option.		
26 24 16 00-0002 Assembled Lighting And Power Panelboards (26 24 16 00-0001)		
Note: Includes main lugs or breaker (as indicated). 20 Amp, 1 pole branch circuit plug-on breakers (the number of which is indicated). Panelboard box, trim and connection of main service cable from meter.		
26 24 16 00-0003 120/240 Volt, 3 Wire, 1 Phase, Main Lugs Assembled Panelboards (26 24 16 00-0002)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0004 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,151.56	287.79
<i>For NEMA 3R Panelboard, Add</i>	1,058.54	
26 24 16 00-0005 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	1,305.75	287.79
<i>For NEMA 3R Panelboard, Add</i>	1,058.54	
26 24 16 00-0006 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	1,480.08	398.88
<i>For NEMA 3R Panelboard, Add</i>	1,058.54	
26 24 16 00-0007 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	1,657.61	398.88
<i>For NEMA 3R Panelboard, Add</i>	1,058.54	
26 24 16 00-0008 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	1,823.78	499.86
<i>For NEMA 3R Panelboard, Add</i>	1,058.54	
26 24 16 00-0009 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	1,994.31	499.86
<i>For NEMA 3R Panelboard, Add</i>	1,058.54	
26 24 16 00-0010 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	2,159.35	575.60
<i>For NEMA 3R Panelboard, Add</i>	1,058.54	
26 24 16 00-0011 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	2,588.90	737.17
<i>For NEMA 3R Panelboard, Add</i>	1,164.10	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	85.06	
26 24 16 00-0012 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	2,721.69	737.17
<i>For NEMA 3R Panelboard, Add</i>	1,164.10	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	85.06	
26 24 16 00-0013 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	2,853.93	843.20
<i>For NEMA 3R Panelboard, Add</i>	1,164.10	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	85.06	
26 24 16 00-0014 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	3,068.15	843.20
<i>For NEMA 3R Panelboard, Add</i>	1,375.08	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	145.28	
26 24 16 00-0015 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	3,201.04	949.22
<i>For NEMA 3R Panelboard, Add</i>	1,375.08	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	145.28	
26 24 16 00-0016 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	3,396.71	949.22
<i>For NEMA 3R Panelboard, Add</i>	1,375.08	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	145.28	
26 24 16 00-0017 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	3,514.23	1,050.21
<i>For NEMA 3R Panelboard, Add</i>	1,375.08	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	145.28	
26 24 16 00-0018 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	3,713.72	1,050.21
<i>For NEMA 3R Panelboard, Add</i>	1,375.08	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	145.28	
26 24 16 00-0019 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	3,894.52	1,161.28
<i>For NEMA 3R Panelboard, Add</i>	1,375.08	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	145.28	
26 24 16 00-0020 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	4,021.85	1,161.28
<i>For NEMA 3R Panelboard, Add</i>	1,431.18	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	185.67	
26 24 16 00-0021 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	4,201.47	1,161.28
<i>For NEMA 3R Panelboard, Add</i>	1,431.18	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	185.67	
26 24 16 00-0022 120/240 Volt, 3 Wire, 1 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0023 EA 50 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,378.23	277.70
<i>For NEMA 3R Panelboard, Add</i>	1,058.54	
26 24 16 00-0024 EA 50 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	1,534.61	277.70
<i>For NEMA 3R Panelboard, Add</i>	1,058.54	
26 24 16 00-0025 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	1,889.79	474.61
<i>For NEMA 3R Panelboard, Add</i>	1,058.54	
26 24 16 00-0026 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	2,144.75	474.61
<i>For NEMA 3R Panelboard, Add</i>	1,058.54	
26 24 16 00-0027 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,314.36	580.64
<i>For NEMA 3R Panelboard, Add</i>	1,058.54	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0028	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	2,490.85	580.64
		<i>For NEMA 3R Panelboard, Add</i>	1,058.54	
26 24 16 00-0029	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	2,648.29	696.77
		<i>For NEMA 3R Panelboard, Add</i>	1,058.54	
26 24 16 00-0030	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	3,208.03	696.77
		<i>For NEMA 3R Panelboard, Add</i>	1,164.10	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	85.06	
26 24 16 00-0031	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,347.45	853.29
		<i>For NEMA 3R Panelboard, Add</i>	1,164.10	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	85.06	
26 24 16 00-0032	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	3,498.32	853.29
		<i>For NEMA 3R Panelboard, Add</i>	1,164.10	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	85.06	
26 24 16 00-0033	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	3,662.95	959.33
		<i>For NEMA 3R Panelboard, Add</i>	1,375.08	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	145.28	
26 24 16 00-0034	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	3,797.68	959.33
		<i>For NEMA 3R Panelboard, Add</i>	1,375.08	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	145.28	
26 24 16 00-0035	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	3,940.90	1,050.21
		<i>For NEMA 3R Panelboard, Add</i>	1,375.08	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	145.28	
26 24 16 00-0036	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	4,093.89	1,050.21
		<i>For NEMA 3R Panelboard, Add</i>	1,375.08	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	145.28	
26 24 16 00-0037	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	4,258.28	1,242.07
		<i>For NEMA 3R Panelboard, Add</i>	1,375.08	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	145.28	
26 24 16 00-0038	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	4,435.99	1,242.07
		<i>For NEMA 3R Panelboard, Add</i>	1,375.08	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	145.28	
26 24 16 00-0039	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	4,629.47	1,242.07
		<i>For NEMA 3R Panelboard, Add</i>	1,431.18	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	185.67	
26 24 16 00-0040	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	4,750.84	1,312.75
		<i>For NEMA 3R Panelboard, Add</i>	1,431.18	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	185.67	
26 24 16 00-0041		120/208 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0042	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,393.68	328.19
		<i>For NEMA 3R Panelboard, Add</i>	1,058.54	
26 24 16 00-0043	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	1,561.11	328.19
		<i>For NEMA 3R Panelboard, Add</i>	1,058.54	
26 24 16 00-0044	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	1,751.80	439.27
		<i>For NEMA 3R Panelboard, Add</i>	1,058.54	
26 24 16 00-0045	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	1,953.02	439.27
		<i>For NEMA 3R Panelboard, Add</i>	1,058.54	
26 24 16 00-0046	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,132.84	540.25
		<i>For NEMA 3R Panelboard, Add</i>	1,058.54	
26 24 16 00-0047	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	2,324.64	540.25
		<i>For NEMA 3R Panelboard, Add</i>	1,058.54	
26 24 16 00-0048	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	2,505.81	641.23
		<i>For NEMA 3R Panelboard, Add</i>	1,058.54	
26 24 16 00-0049	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	2,691.26	641.23
		<i>For NEMA 3R Panelboard, Add</i>	1,164.10	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	85.06	
26 24 16 00-0050	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	2,865.72	752.31
		<i>For NEMA 3R Panelboard, Add</i>	1,164.10	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	85.06	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0051	EA			100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,066.67 1,164.10 85.06	752.31
26 24 16 00-0052	EA			100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,269.66 1,164.10 85.06	868.43
26 24 16 00-0053	EA			100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,470.57 1,164.10 85.06	868.43
26 24 16 00-0054	EA			225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,866.50 1,375.08 145.28	1,050.21
26 24 16 00-0055	EA			225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,999.53 1,375.08 145.28	1,050.21
26 24 16 00-0056	EA			225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,234.91 1,375.08 145.28	1,166.33
26 24 16 00-0057	EA			225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,445.72 1,375.08 145.28	1,166.33
26 24 16 00-0058	EA			225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,597.29 1,431.18 185.67	1,272.37
26 24 16 00-0059	EA			225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,805.04 1,431.18 185.67	1,272.37
26 24 16 00-0060	EA			400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,706.69 1,375.08 145.28	1,128.97
26 24 16 00-0061	EA			400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,853.62 1,375.08 145.28	1,186.53
26 24 16 00-0062	EA			400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,099.09 1,375.08 145.28	1,249.65
26 24 16 00-0063	EA			400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,325.03 1,375.08 145.28	1,322.85
26 24 16 00-0064	EA			400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,485.31 1,431.18 185.67	1,363.25
26 24 16 00-0065	EA			400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,739.39 1,431.18 185.67	1,446.56
26 24 16 00-0066				120/208 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0062)</small>		
26 24 16 00-0067	EA			50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	1,674.32 1,058.54	318.09
26 24 16 00-0068	EA			50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	1,843.82 1,058.54	318.09
26 24 16 00-0069	EA			50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,047.02 1,058.54	419.07
26 24 16 00-0070	EA			50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,335.33 1,058.54	419.07
26 24 16 00-0071	EA			100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,740.53 1,058.54	631.13
26 24 16 00-0072	EA			100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,916.66 1,058.54	631.13
26 24 16 00-0073	EA			100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	3,106.40 1,058.54	737.17



	Electrical	26
	Low-Voltage Electrical Distribution	
	Switchboards and Panelboards	26 20
		26 24

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0097	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,670.76 1,058.54	555.39
26 24 16 00-0098	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,898.95 1,058.54	671.52
26 24 16 00-0099	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,109.16 1,164.10 85.06	671.52
26 24 16 00-0100	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,338.99 1,164.10 85.06	797.75
26 24 16 00-0101	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,561.32 1,164.10 85.06	797.75
26 24 16 00-0102	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,766.76 1,164.10 85.06	908.83
26 24 16 00-0103	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,985.96 1,164.10 85.06	908.83
26 24 16 00-0104	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,449.25 1,375.08 145.28	1,105.74
26 24 16 00-0105	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,668.21 1,375.08 145.28	1,105.74
26 24 16 00-0106	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,900.49 1,375.08 145.28	1,211.78
26 24 16 00-0107	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,073.53 1,375.08 145.28	1,211.78
26 24 16 00-0108	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,330.55 1,431.18 185.67	1,338.00
26 24 16 00-0109	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,517.69 1,431.18 185.67	1,338.00
26 24 16 00-0110			480 Volt, 3 Wire, 3 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0111	EA		50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,020.09 1,058.54	343.33
26 24 16 00-0112	EA		50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,238.16 1,058.54	373.63
26 24 16 00-0113	EA		50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,458.49 1,058.54	464.51
26 24 16 00-0114	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,951.30 1,058.54	565.49
26 24 16 00-0115	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	3,160.53 1,058.54	626.08
26 24 16 00-0116	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	3,352.02 1,058.54	676.58
26 24 16 00-0117	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	3,562.18 1,058.54	737.17
26 24 16 00-0118	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,764.72 1,164.10 85.06	797.75
26 24 16 00-0119	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,950.79 1,164.10 85.06	848.24
26 24 16 00-0120	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,149.76 1,164.10 85.06	898.73

26	26 Electrical
	26 20 Low-Voltage Electrical Distribution
	26 24 Switchboards and Panelboards



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 24 16 00-0121	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,364.38	959.33
		<i>For NEMA 3R Panelboard, Add</i>	1,164.10	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	85.06	
26 24 16 00-0122	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,598.11	1,035.06
		<i>For NEMA 3R Panelboard, Add</i>	1,164.10	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	85.06	
26 24 16 00-0123	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	5,820.81	1,151.18
		<i>For NEMA 3R Panelboard, Add</i>	1,375.08	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	145.28	
26 24 16 00-0124	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	6,045.30	1,221.87
		<i>For NEMA 3R Panelboard, Add</i>	1,375.08	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	145.28	
26 24 16 00-0125	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	6,207.45	1,252.16
		<i>For NEMA 3R Panelboard, Add</i>	1,375.08	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	145.28	
26 24 16 00-0126	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	6,458.75	1,332.95
		<i>For NEMA 3R Panelboard, Add</i>	1,375.08	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	145.28	
26 24 16 00-0127	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	6,636.22	1,383.44
		<i>For NEMA 3R Panelboard, Add</i>	1,431.18	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	185.67	
26 24 16 00-0128	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	6,819.93	1,426.87
		<i>For NEMA 3R Panelboard, Add</i>	1,431.18	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	185.67	
26 24 16 00-0129		277/480 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0130	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,934.82	353.44
		<i>For NEMA 3R Panelboard, Add</i>	1,058.54	
26 24 16 00-0131	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	2,185.54	353.44
		<i>For NEMA 3R Panelboard, Add</i>	1,058.54	
26 24 16 00-0132	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	2,430.12	469.57
		<i>For NEMA 3R Panelboard, Add</i>	1,058.54	
26 24 16 00-0133	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	2,676.58	469.57
		<i>For NEMA 3R Panelboard, Add</i>	1,058.54	
26 24 16 00-0134	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,926.83	580.64
		<i>For NEMA 3R Panelboard, Add</i>	1,058.54	
26 24 16 00-0135	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	3,172.19	580.64
		<i>For NEMA 3R Panelboard, Add</i>	1,058.54	
26 24 16 00-0136	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	3,421.35	696.77
		<i>For NEMA 3R Panelboard, Add</i>	1,058.54	
26 24 16 00-0137	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	3,669.53	696.77
		<i>For NEMA 3R Panelboard, Add</i>	1,164.10	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	85.06	
26 24 16 00-0138	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,939.41	817.95
		<i>For NEMA 3R Panelboard, Add</i>	1,164.10	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	85.06	
26 24 16 00-0139	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,167.71	817.95
		<i>For NEMA 3R Panelboard, Add</i>	1,164.10	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	85.06	
26 24 16 00-0140	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,408.15	822.99
		<i>For NEMA 3R Panelboard, Add</i>	1,164.10	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	85.06	
26 24 16 00-0141	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 32 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,663.25	822.99
		<i>For NEMA 3R Panelboard, Add</i>	1,164.10	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	85.06	
26 24 16 00-0142	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	5,308.07	1,141.09
		<i>For NEMA 3R Panelboard, Add</i>	1,375.08	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	145.28	
26 24 16 00-0143	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	5,569.22	1,141.09
		<i>For NEMA 3R Panelboard, Add</i>	1,375.08	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	145.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0144 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,774.16	1,201.68
For NEMA 3R Panelboard, Add	1,375.08	
For Door-In-Door (Hinged) Trim Front, Add	145.28	
26 24 16 00-0145 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	6,058.01	1,282.46
For NEMA 3R Panelboard, Add	1,375.08	
For Door-In-Door (Hinged) Trim Front, Add	145.28	
26 24 16 00-0146 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	6,275.84	1,282.46
For NEMA 3R Panelboard, Add	1,431.18	
For Door-In-Door (Hinged) Trim Front, Add	185.67	
26 24 16 00-0147 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	6,589.28	1,403.63
For NEMA 3R Panelboard, Add	1,431.18	
For Door-In-Door (Hinged) Trim Front, Add	185.67	
26 24 16 00-0148 277/480 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards ^(26 24 16 00-0002)		
26 24 16 00-0149 EA 50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	2,515.92	434.22
For NEMA 3R Panelboard, Add	1,058.54	
26 24 16 00-0150 EA 50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	2,772.24	434.22
For NEMA 3R Panelboard, Add	1,058.54	
26 24 16 00-0151 EA 50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	3,019.42	575.60
For NEMA 3R Panelboard, Add	1,058.54	
26 24 16 00-0152 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	3,594.09	575.60
For NEMA 3R Panelboard, Add	1,058.54	
26 24 16 00-0153 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	3,830.71	727.07
For NEMA 3R Panelboard, Add	1,058.54	
26 24 16 00-0154 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	4,066.96	727.07
For NEMA 3R Panelboard, Add	1,058.54	
26 24 16 00-0155 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	4,295.60	833.09
For NEMA 3R Panelboard, Add	1,058.54	
26 24 16 00-0156 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	4,507.76	833.09
For NEMA 3R Panelboard, Add	1,164.10	
For Door-In-Door (Hinged) Trim Front, Add	85.06	
26 24 16 00-0157 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	4,732.82	949.22
For NEMA 3R Panelboard, Add	1,164.10	
For Door-In-Door (Hinged) Trim Front, Add	85.06	
26 24 16 00-0158 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,973.52	949.22
For NEMA 3R Panelboard, Add	1,164.10	
For Door-In-Door (Hinged) Trim Front, Add	85.06	
26 24 16 00-0159 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	5,182.06	1,050.21
For NEMA 3R Panelboard, Add	1,164.10	
For Door-In-Door (Hinged) Trim Front, Add	85.06	
26 24 16 00-0160 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	5,400.37	1,050.21
For NEMA 3R Panelboard, Add	1,164.10	
For Door-In-Door (Hinged) Trim Front, Add	85.06	
26 24 16 00-0161 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	7,106.74	1,242.07
For NEMA 3R Panelboard, Add	1,375.08	
For Door-In-Door (Hinged) Trim Front, Add	145.28	
26 24 16 00-0162 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	7,369.88	1,242.07
For NEMA 3R Panelboard, Add	1,375.08	
For Door-In-Door (Hinged) Trim Front, Add	145.28	
26 24 16 00-0163 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	7,566.98	1,358.19
For NEMA 3R Panelboard, Add	1,375.08	
For Door-In-Door (Hinged) Trim Front, Add	145.28	
26 24 16 00-0164 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	7,859.72	1,358.19
For NEMA 3R Panelboard, Add	1,375.08	
For Door-In-Door (Hinged) Trim Front, Add	145.28	
26 24 16 00-0165 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	8,073.86	1,484.42
For NEMA 3R Panelboard, Add	1,431.18	
For Door-In-Door (Hinged) Trim Front, Add	185.67	
26 24 16 00-0166 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	8,294.91	1,484.42
For NEMA 3R Panelboard, Add	1,431.18	
For Door-In-Door (Hinged) Trim Front, Add	185.67	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0167 EA 400 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	9,874.82	1,653.07
For NEMA 3R Panelboard, Add	1,431.18	
For Door-In-Door (Hinged) Trim Front, Add	185.67	
26 24 16 00-0168 EA 600 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >400 To 600 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	12,026.81	1,984.27
For NEMA 3R Panelboard, Add	1,431.18	
For Door-In-Door (Hinged) Trim Front, Add	185.67	
26 24 16 00-0169 Unassembled Lighting And Power Panelboards (26 24 16 00-0001) Note: Listed panelboards include the main device (lugs or breaker), connection of main service cable from meter and that portion of the panel box, trim and interior occupied by that device. Spaces include that portion of the panel box, trim and interior reserved by that space. The maximum single pole capacity of the panelboard main device (lugs, breakers) is indicated. Excludes branch breakers. A complete panelboard will be the sum of main device and the branch circuit breakers and spaces (within the capacity of the main device). See CSI section 28 16 13-0001 for circuit breakers.		
26 24 16 00-0170 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards (26 24 16 00-0169) Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers.		
26 24 16 00-0171 Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards (26 24 16 00-0170)		
26 24 16 00-0172 EA 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	627.02	
26 24 16 00-0173 EA 100 Ampere Rating, 20 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	720.00	
26 24 16 00-0174 EA 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	973.96	
For Door-In-Door (Hinged) Trim Front, Add	85.06	
26 24 16 00-0175 EA 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,122.86	
For Door-In-Door (Hinged) Trim Front, Add	145.28	
26 24 16 00-0176 EA 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,269.41	
For Door-In-Door (Hinged) Trim Front, Add	185.67	
26 24 16 00-0177 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,416.79	
For Door-In-Door (Hinged) Trim Front, Add	85.06	
26 24 16 00-0178 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,537.03	
For Door-In-Door (Hinged) Trim Front, Add	145.28	
26 24 16 00-0179 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,681.77	
For Door-In-Door (Hinged) Trim Front, Add	185.67	
26 24 16 00-0180 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,805.76	
For Door-In-Door (Hinged) Trim Front, Add	85.06	
26 24 16 00-0181 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,924.78	
For Door-In-Door (Hinged) Trim Front, Add	145.28	
26 24 16 00-0182 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,098.75	
For Door-In-Door (Hinged) Trim Front, Add	185.67	
26 24 16 00-0183 Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards (26 24 16 00-0170)		
26 24 16 00-0184 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	930.93	
26 24 16 00-0185 EA 100 Ampere Rating, 20 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,052.34	
26 24 16 00-0186 EA 225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,681.18	
For Door-In-Door (Hinged) Trim Front, Add	85.06	
26 24 16 00-0187 EA 225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,863.77	
For Door-In-Door (Hinged) Trim Front, Add	145.28	
26 24 16 00-0188 EA 225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,034.13	
For Door-In-Door (Hinged) Trim Front, Add	185.67	
26 24 16 00-0189 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,569.90	
For Door-In-Door (Hinged) Trim Front, Add	85.06	
26 24 16 00-0190 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,768.75	
For Door-In-Door (Hinged) Trim Front, Add	145.28	
26 24 16 00-0191 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,950.05	
For Door-In-Door (Hinged) Trim Front, Add	185.67	
26 24 16 00-0192 Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards (26 24 16 00-0170)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0193 EA 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,285.14	
26 24 16 00-0194 EA 100 Ampere Rating, 20 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,370.60	
26 24 16 00-0195 EA 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,608.89	
26 24 16 00-0196 EA 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,754.66	
26 24 16 00-0197 EA 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,889.30	
26 24 16 00-0198 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,158.27	
26 24 16 00-0199 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,270.36	
26 24 16 00-0200 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,407.58	
26 24 16 00-0201 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,589.24	
26 24 16 00-0202 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,703.83	
26 24 16 00-0203 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,866.17	
26 24 16 00-0204 Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards (26 24 16 00-0170)		
26 24 16 00-0205 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,581.53	
26 24 16 00-0206 EA 100 Ampere Rating, 20 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,694.79	
26 24 16 00-0207 EA 225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,437.71	
26 24 16 00-0208 EA 225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,605.26	
26 24 16 00-0209 EA 225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,764.33	
26 24 16 00-0210 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,284.43	
26 24 16 00-0211 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,475.76	
26 24 16 00-0212 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,655.18	
26 24 16 00-0213 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards (26 24 16 00-0169)		
Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers		
26 24 16 00-0214 Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards (26 24 16 00-0213)		
26 24 16 00-0215 EA 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	705.52	
26 24 16 00-0216 EA 100 Ampere Rating, 24 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	828.59	
26 24 16 00-0217 EA 100 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	930.48	
For Door-In-Door (Hinged) Trim Front, Add		85.06
26 24 16 00-0218 EA 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,048.77	
For Door-In-Door (Hinged) Trim Front, Add		85.06
26 24 16 00-0219 EA 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,206.37	
For Door-In-Door (Hinged) Trim Front, Add		145.28
26 24 16 00-0220 EA 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,334.80	
For Door-In-Door (Hinged) Trim Front, Add		185.67
26 24 16 00-0221 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,538.38	
For Door-In-Door (Hinged) Trim Front, Add		85.06
26 24 16 00-0222 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,656.32	
For Door-In-Door (Hinged) Trim Front, Add		145.28
26 24 16 00-0223 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,785.82	
For Door-In-Door (Hinged) Trim Front, Add		185.67
26 24 16 00-0224 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,941.13	
For Door-In-Door (Hinged) Trim Front, Add		85.06
26 24 16 00-0225 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,145.22	
For Door-In-Door (Hinged) Trim Front, Add		145.28
26 24 16 00-0226 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,545.84	
For Door-In-Door (Hinged) Trim Front, Add		185.67

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 24 16 00-0227		Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>	
26 24 16 00-0228	EA	100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,092.82
26 24 16 00-0229	EA	100 Ampere Rating, 24 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,231.71
26 24 16 00-0230	EA	100 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,402.65
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>85.06</i>
26 24 16 00-0231	EA	225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	2,089.25
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>85.06</i>
26 24 16 00-0232	EA	225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	2,260.92
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>145.28</i>
26 24 16 00-0233	EA	225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	2,417.44
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>185.67</i>
26 24 16 00-0234	EA	400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	3,359.79
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>85.06</i>
26 24 16 00-0235	EA	400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	3,543.31
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>145.28</i>
26 24 16 00-0236	EA	400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	3,696.18
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>185.67</i>
26 24 16 00-0237		Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>	
26 24 16 00-0238	EA	100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,363.64
26 24 16 00-0239	EA	100 Ampere Rating, 24 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,479.19
26 24 16 00-0240	EA	100 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,572.93
26 24 16 00-0241	EA	225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,683.70
26 24 16 00-0242	EA	225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,838.17
26 24 16 00-0243	EA	225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,954.69
26 24 16 00-0244	EA	400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	2,279.87
26 24 16 00-0245	EA	400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	2,389.66
26 24 16 00-0246	EA	400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	2,511.63
26 24 16 00-0247	EA	600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	2,724.60
26 24 16 00-0248	EA	600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	2,914.28
26 24 16 00-0249	EA	600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	3,314.90
26 24 16 00-0250		Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>	
26 24 16 00-0251	EA	100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,743.42
26 24 16 00-0252	EA	100 Ampere Rating, 24 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,874.16
26 24 16 00-0253	EA	100 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	2,040.72
26 24 16 00-0254	EA	225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	2,845.77
26 24 16 00-0255	EA	225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	3,002.40
26 24 16 00-0256	EA	225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	3,147.64
26 24 16 00-0257	EA	400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	4,731.44
26 24 16 00-0258	EA	400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	4,921.48
26 24 16 00-0259	EA	400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	5,085.38
26 24 16 00-0260		480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0169)</small>	
		Note: As manufactured by Square D or equal.	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0261				Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0262	EA			125 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,020.19	
26 24 16 00-0263	EA			125 Ampere Rating, 18 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,116.95	
26 24 16 00-0264	EA			250 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,537.63	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	85.06	
26 24 16 00-0265	EA			250 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,712.22	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	145.28	
26 24 16 00-0266	EA			250 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,863.00	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	185.67	
26 24 16 00-0267	EA			400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,849.68	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	85.06	
26 24 16 00-0268	EA			400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,946.52	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	145.28	
26 24 16 00-0269	EA			400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,113.00	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	185.67	
26 24 16 00-0270	EA			600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,206.61	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	85.06	
26 24 16 00-0271	EA			600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,364.94	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	145.28	
26 24 16 00-0272	EA			600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,580.53	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	185.67	
26 24 16 00-0273				Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0274	EA			100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,105.95	
26 24 16 00-0275	EA			100 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,172.57	
26 24 16 00-0276	EA			125 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,357.60	
26 24 16 00-0277	EA			125 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,481.27	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	85.06	
26 24 16 00-0278	EA			125 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,721.45	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	145.28	
26 24 16 00-0279	EA			250 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,538.72	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	85.06	
26 24 16 00-0280	EA			250 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,691.00	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	145.28	
26 24 16 00-0281	EA			250 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,885.94	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	185.67	
26 24 16 00-0282	EA			400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,997.08	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	85.06	
26 24 16 00-0283	EA			400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	4,194.75	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	145.28	
26 24 16 00-0284	EA			400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	4,375.75	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	185.67	
26 24 16 00-0285				Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0286	EA			125 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,655.75	
26 24 16 00-0287	EA			125 Ampere Rating, 18 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,752.51	
26 24 16 00-0288	EA			250 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,158.14	
26 24 16 00-0289	EA			250 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,441.80	
26 24 16 00-0290	EA			250 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,580.04	
26 24 16 00-0291	EA			400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,566.72	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0292 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,644.76	
26 24 16 00-0293 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,784.29	
26 24 16 00-0294 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,940.57	
26 24 16 00-0295 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,083.51	
26 24 16 00-0296 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,266.01	
26 24 16 00-0297 Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0298 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,876.89	
26 24 16 00-0299 EA 100 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,943.52	
26 24 16 00-0300 EA 125 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,983.76	
26 24 16 00-0301 EA 125 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,101.78	
26 24 16 00-0302 EA 125 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,451.03	
26 24 16 00-0303 EA 250 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	4,255.76	
26 24 16 00-0304 EA 250 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	4,389.24	
26 24 16 00-0305 EA 250 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	4,557.23	
26 24 16 00-0306 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	4,668.36	
26 24 16 00-0307 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	4,848.78	
26 24 16 00-0308 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	5,027.09	
26 24 16 00-0309 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0169)</small>		
Note: As manufactured by Square D or equal.		
26 24 16 00-0310 Main Lugs, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0311 EA 125 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,062.81	
26 24 16 00-0312 EA 125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,160.20	
26 24 16 00-0313 EA 125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,341.02	
For Door-In-Door (Hinged) Trim Front, Add	85.06	
26 24 16 00-0314 EA 250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,600.34	
For Door-In-Door (Hinged) Trim Front, Add	85.06	
26 24 16 00-0315 EA 250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,776.29	
For Door-In-Door (Hinged) Trim Front, Add	145.28	
26 24 16 00-0316 EA 250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,925.86	
For Door-In-Door (Hinged) Trim Front, Add	185.67	
26 24 16 00-0317 EA 400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,932.63	
For Door-In-Door (Hinged) Trim Front, Add	85.06	
26 24 16 00-0318 EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,049.32	
For Door-In-Door (Hinged) Trim Front, Add	145.28	
26 24 16 00-0319 EA 400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,214.56	
For Door-In-Door (Hinged) Trim Front, Add	185.67	
26 24 16 00-0320 EA 600 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,308.42	
For Door-In-Door (Hinged) Trim Front, Add	85.06	
26 24 16 00-0321 EA 600 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,467.38	
For Door-In-Door (Hinged) Trim Front, Add	145.28	
26 24 16 00-0322 EA 600 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,683.73	
For Door-In-Door (Hinged) Trim Front, Add	185.67	
26 24 16 00-0323 Main Breaker, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0324 EA 100 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,325.32	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0325 EA 100 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,392.57	
26 24 16 00-0326 EA 100 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,591.45	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	85.06	
26 24 16 00-0327 EA 125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,659.15	
26 24 16 00-0328 EA 125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,783.35	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	85.06	
26 24 16 00-0329 EA 125 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	3,022.88	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	145.28	
26 24 16 00-0330 EA 250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	3,892.50	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	85.06	
26 24 16 00-0331 EA 250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,046.62	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	145.28	
26 24 16 00-0332 EA 250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,239.49	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	185.67	
26 24 16 00-0333 EA 400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,420.99	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	85.06	
26 24 16 00-0334 EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,620.63	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	145.28	
26 24 16 00-0335 EA 400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,801.45	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	185.67	
26 24 16 00-0336 Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0337 EA 125 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard.....	1,698.37	
26 24 16 00-0338 EA 125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard.....	1,795.76	
26 24 16 00-0339 EA 125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard.....	1,967.18	
26 24 16 00-0340 EA 250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard.....	2,220.85	
26 24 16 00-0341 EA 250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard.....	2,505.87	
26 24 16 00-0342 EA 250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard.....	2,642.90	
26 24 16 00-0343 EA 400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard.....	2,651.55	
26 24 16 00-0344 EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard.....	2,747.55	
26 24 16 00-0345 EA 400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard.....	2,885.84	
26 24 16 00-0346 EA 600 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard.....	3,042.38	
26 24 16 00-0347 EA 600 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard.....	3,185.68	
26 24 16 00-0348 EA 600 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard.....	3,368.18	
26 24 16 00-0349 Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0350 EA 100 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	2,945.84	
26 24 16 00-0351 EA 100 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	3,013.09	
26 24 16 00-0352 EA 100 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	3,321.03	
26 24 16 00-0353 EA 125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	3,285.30	
26 24 16 00-0354 EA 125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	3,403.86	
26 24 16 00-0355 EA 125 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	3,752.46	
26 24 16 00-0356 EA 250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	4,609.53	
26 24 16 00-0357 EA 250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	4,744.85	
26 24 16 00-0358 EA 250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	4,910.78	
26 24 16 00-0359 EA 400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	5,092.27	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0360 EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	5,274.36	
26 24 16 00-0361 EA 400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	5,452.05	
26 24 16 00-0362 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0169)</small> Note: Square D I-Line or equal.		
26 24 16 00-0363 Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0362)</small>		
26 24 16 00-0364 EA 400 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	1,772.96	300.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	180.16	
26 24 16 00-0365 EA 400 Ampere Rating, 45" Breaker Mounted Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,087.17	300.18
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	180.11	
26 24 16 00-0366 EA 400 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,323.76	300.18
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	180.11	
26 24 16 00-0367 EA 600 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,618.57	492.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	295.78	
26 24 16 00-0368 EA 600 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,801.69	492.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	295.78	
26 24 16 00-0369 EA 600 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,002.63	492.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	295.78	
26 24 16 00-0370 EA 800 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,217.89	655.32
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	393.17	
26 24 16 00-0371 EA 800 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,393.67	657.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	394.38	
26 24 16 00-0372 EA 800 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,465.82	655.32
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	393.17	
26 24 16 00-0373 EA 800 Ampere Rating, 99" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,046.76	655.32
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	393.17	
26 24 16 00-0374 EA 1,200 Ampere Rating, 27" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,246.05	985.94
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	591.56	
26 24 16 00-0375 EA 1,200 Ampere Rating, 45" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,641.45	985.94
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	591.56	
26 24 16 00-0376 EA 1,200 Ampere Rating, 63" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,964.73	985.94
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	591.56	
26 24 16 00-0377 EA 1,200 Ampere Rating, 99" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	6,359.32	985.94
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	591.56	
26 24 16 00-0378 Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0362)</small>		
26 24 16 00-0379 EA 225 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,484.71	306.62
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	183.97	
26 24 16 00-0380 EA 400 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,586.35	347.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	208.67	
26 24 16 00-0381 EA 400 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,814.84	347.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	208.67	
26 24 16 00-0382 EA 400 Ampere Rating, 81" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,487.34	347.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	208.67	
26 24 16 00-0383 EA 600 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,131.97	570.09
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	342.07	
26 24 16 00-0384 EA 600 Ampere Rating, 72" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,509.33	571.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	342.98	
26 24 16 00-0385 EA 600 Ampere Rating, 72" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,820.67	570.09
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	342.07	
26 24 16 00-0386 EA 800 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	9,008.55	762.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	457.31	
26 24 16 00-0387 EA 800 Ampere Rating, 72" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	9,456.08	759.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	455.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0388 EA 800 Ampere Rating, 72" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,901.72 455.69	759.47
26 24 16 00-0389 Residential Lighting And Power Panelboards <small>(26 24 16 00-0001)</small> See CSI section 26 28 16 13-0001 for circuit breakers.		
26 24 16 00-0390 Residential Type Unassembled Load Center <small>(26 24 16 00-0389)</small> Note: Interior box and cover, includes ground bar kit.		
26 24 16 00-0391 Main Lug Load Center, Single Phase, 3 Wire, 120/240 Volt <small>(26 24 16 00-0390)</small>		
26 24 16 00-0392 EA 30 Ampere Rating, 2 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	140.61	50.49
26 24 16 00-0393 EA 70 Ampere Rating, 4 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	462.82	201.97
26 24 16 00-0394 EA 100 Ampere Rating, 8 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	704.07	288.30
26 24 16 00-0395 EA 125 Ampere Rating, 24 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	1,507.73	605.99
26 24 16 00-0396 EA 150 Ampere Rating, 30 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	1,650.56	656.38
26 24 16 00-0397 Main Lug Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small> Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta.		
26 24 16 00-0398 EA 60 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	199.82	55.54
26 24 16 00-0399 EA 125 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	368.15	60.59
26 24 16 00-0400 Main Lug Load Center, Single Phase, 3 Wire, 120/240 Volt, Rainproof <small>(26 24 16 00-0390)</small>		
26 24 16 00-0401 EA 40 Ampere Rating, 2 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	203.46	55.54
26 24 16 00-0402 EA 70 Ampere Rating, 4 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	227.29	60.59
26 24 16 00-0403 EA 100 Ampere Rating, 8 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	776.71	288.30
26 24 16 00-0404 EA 150 Ampere Rating, 30 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	1,761.10	656.38
26 24 16 00-0405 Main Lug Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small> Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta, Rainproof.		
26 24 16 00-0406 EA 60 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard	255.09	55.54
26 24 16 00-0407 EA 125 Ampere Rating, 20 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard	1,710.01	605.99
26 24 16 00-0408 Main Breaker Load Center, Single Phase, 3 Wire, 120/240 Volt <small>(26 24 16 00-0390)</small>		
26 24 16 00-0409 EA 125 Ampere Rating, 24 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	1,851.96	605.99
26 24 16 00-0410 EA 150 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	2,010.59	656.38
26 24 16 00-0411 EA 300 Ampere Rating, 42 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	7,411.49	1,009.81
26 24 16 00-0412 Main Breaker Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small> Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 V Delta.		
26 24 16 00-0413 EA 125 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	2,769.08	605.99
26 24 16 00-0414 EA 150 Ampere Rating, 40 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	3,021.66	656.38
26 24 16 00-0415 EA 300 Ampere Rating, 42 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	8,183.17	1,009.81
26 24 16 00-0416 Main Breaker Load Center, Single Phase, 3 Wire, 120/240 Volt, Rainproof <small>(26 24 16 00-0390)</small>		
26 24 16 00-0417 EA 125 Ampere Rating, 24 Circuit, Main Breaker Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	1,954.60	605.99
26 24 16 00-0418 EA 150 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	2,185.86	656.38
26 24 16 00-0419 Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small> Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta, Rainproof.		
26 24 16 00-0420 EA 125 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard	2,939.31	605.99

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0421 EA 155 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	3,040.14	656.38
26 24 16 00-0422 Residential Type Assembled Load Center (26 24 16 00-0389)		
26 24 16 00-0423 Main Lug Load Center, 3 Wire, 20 Amperes, 120/240 Volt, 1 Phase (26 24 16 00-0422)		
Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0424 EA 100 Ampere Rating, Main Lugs, Indoor 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	704.54	288.30
26 24 16 00-0425 EA 100 Ampere Rating, Main Lugs, Indoor 12 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	861.48	336.77
26 24 16 00-0426 EA 100 Ampere Rating, Main Lugs, Rainproof, 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	721.91	288.30
26 24 16 00-0427 EA 100 Ampere Rating, Main Lugs, Rainproof, 12 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	866.22	336.77
26 24 16 00-0428 EA 200 Ampere Rating, Main Lugs, Indoor, 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,267.27	448.86
26 24 16 00-0429 EA 200 Ampere Rating, Main Lugs, Indoor, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,492.77	538.73
26 24 16 00-0430 EA 200 Ampere Rating, Main Lugs, Indoor, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,705.67	621.54
26 24 16 00-0431 EA 200 Ampere Rating, Main Lugs, Indoor, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,882.58	672.84
26 24 16 00-0432 EA 200 Ampere Rating, Main Lugs, Indoor, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,817.05	1,009.81
26 24 16 00-0433 EA 200 Ampere Rating, Main Lugs, Rainproof, 16 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,328.85	448.86
26 24 16 00-0434 EA 200 Ampere Rating, Main Lugs, Rainproof, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,551.20	538.73
26 24 16 00-0435 EA 200 Ampere Rating, Main Lugs, Rainproof, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,764.09	621.54
26 24 16 00-0436 EA 200 Ampere Rating, Main Lugs, Rainproof, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,937.85	672.84
26 24 16 00-0437 EA 200 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,998.64	1,009.81
26 24 16 00-0438 EA 400 Ampere Rating, Main Lugs, Indoor, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	3,499.37	1,122.00
26 24 16 00-0439 EA 400 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	3,688.86	1,122.00
26 24 16 00-0440 Main Lug Load Center, 4 Wire, 20 Amperes, 120/208 Volt (26 24 16 00-0422)		
Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0441 EA 125 Ampere Rating, Main Lugs, Indoor, 12 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	949.91	336.77
26 24 16 00-0442 EA 125 Ampere Rating, Main Lugs, Indoor, 18 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,415.63	504.91
26 24 16 00-0443 EA 125 Ampere Rating, Main Lugs, Rainproof, 12 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,002.01	336.77
26 24 16 00-0444 EA 125 Ampere Rating, Main Lugs, Rainproof, 18 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,463.00	504.91
26 24 16 00-0445 EA 200 Ampere Rating, Main Lugs, Indoor, 24 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,795.67	621.54
26 24 16 00-0446 EA 200 Ampere Rating, Main Lugs, Indoor, 30 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,962.24	673.24
26 24 16 00-0447 EA 200 Ampere Rating, Main Lugs, Indoor, 36 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,405.75	808.15
26 24 16 00-0448 EA 200 Ampere Rating, Main Lugs, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,880.21	1,009.81
26 24 16 00-0449 EA 200 Ampere Rating, Main Lugs, Rainproof, 24 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,850.94	621.54
26 24 16 00-0450 EA 200 Ampere Rating, Main Lugs, Rainproof, 30 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,024.70	672.84
26 24 16 00-0451 EA 200 Ampere Rating, Main Lugs, Rainproof, 36 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,617.89	807.54
26 24 16 00-0452 EA 200 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	3,093.38	1,009.81
26 24 16 00-0453 EA 400 Ampere Rating, Main Lugs, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	3,546.75	1,122.00
26 24 16 00-0454 EA 400 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	3,736.23	1,122.00
26 24 16 00-0455 Main Breaker Load Center, 3 Wire, 20 Amperes, 120/240 Volt, 1 Phase (26 24 16 00-0422)		
Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0456 EA 125 Ampere Rating, Main Breaker, Indoor, 12 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	943.59	336.77
26 24 16 00-0457 EA 125 Ampere Rating, Main Breaker, Indoor, 18 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,393.52	504.91
26 24 16 00-0458 EA 200 Ampere Rating, Main Breaker, Indoor, 20 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,622.26	538.73



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0459 EA 200 Ampere Rating, Main Breaker, Indoor, 24 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,859.44	621.84
26 24 16 00-0460 EA 200 Ampere Rating, Main Breaker, Indoor, 30 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,049.09	673.24
26 24 16 00-0461 EA 200 Ampere Rating, Main Breaker, Indoor, 40 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,711.40	897.72
26 24 16 00-0462 EA 200 Ampere Rating, Main Breaker, Rainproof, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,638.05	538.73
26 24 16 00-0463 EA 200 Ampere Rating, Main Breaker, Rainproof, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,890.42	621.54
26 24 16 00-0464 EA 200 Ampere Rating, Main Breaker, Rainproof, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,056.28	672.84
26 24 16 00-0465 EA 200 Ampere Rating, Main Breaker, Rainproof, 40 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,624.55	897.72
26 24 16 00-0466 EA 400 Ampere Rating, Main Breaker, Indoor, 42 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	5,125.81	1,122.00
26 24 16 00-0467 EA 400 Ampere Rating, Main Breaker, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	5,441.62	1,122.00
26 24 16 00-0468 Main Breaker Load Center, 4 Wire, 20 Amperes, 120/208 Volt (26 24 16 00-0422) Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0469 EA 200 Ampere Rating, Main Breaker, Indoor, 30 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,491.23	673.24
26 24 16 00-0470 EA 200 Ampere Rating, Main Breaker, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,385.51	1,009.81
26 24 16 00-0471 EA 200 Ampere Rating, Main Breaker, Rainproof, 30 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,585.26	672.84
26 24 16 00-0472 EA 200 Ampere Rating, Main Breaker, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,480.25	1,009.81
26 24 16 00-0473 Panel Mounted Accessories And Fuseholders (26 24 16 00-0001)		
26 24 16 00-0474 Midget Finger-Safe Fuse Holders (26 24 16 00-0473) Note: 30 Amp capacity. Excludes fuse.		
26 24 16 00-0475 EA 1 Pole Midget Finger-Safe Fuse Holder	60.66	18.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.12	
26 24 16 00-0476 EA 1 Pole With Indicator Midget Finger-Safe Fuse Holder	70.25	18.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.12	
26 24 16 00-0477 EA 2 Pole Midget Finger-Safe Fuse Holder	97.08	27.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.18	
26 24 16 00-0478 EA 2 Pole With Indicators Midget Finger-Safe Fuse Holder	122.13	27.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.18	
26 24 16 00-0479 EA 3 Pole Midget Finger-Safe Fuse Holder	141.26	36.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.23	
26 24 16 00-0480 EA 3 Pole With Indicators Midget Finger-Safe Fuse Holder	174.53	36.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.23	
26 24 16 00-0481 EA 3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder	202.36	36.36
Note: With indicators.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.23	
26 24 16 00-0482 EA 3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder	165.47	36.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.23	
26 24 16 00-0483 EA 4 Pole Midget Finger-Safe Fuse Holder	177.79	45.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.29	
26 24 16 00-0484 EA 4 Pole With Indicator Midget Finger-Safe Fuse Holder	214.33	45.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.29	
26 24 16 00-0485 EA 12 To 24 Volt DC Midget Finger-Safe Fuse Holder	70.29	18.18
Note: With indicator.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.12	
26 24 16 00-0486 EA 20 To 24 Volt DC Midget Finger-Safe Fuse Holder	75.38	18.18
Note: With indicator.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.12	
26 24 16 00-0487 EA 35 To 48 Volt DC Midget Finger-Safe Fuse Holder	71.22	18.18
Note: With indicator.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.12	
26 24 16 00-0488 Removal And Reinstallation Of Panelboards (26 24 16 00-0001) Note: Includes storage, cleaning and supply materials.		
26 24 16 00-0489 EA Removal And Reinstallation Of Up To 42 Circuit Capacity Panelboards With Breakers	1,268.64	
Note: Includes removal and reinstallation of main wiring to panelboard.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	378.68	
26 24 16 00-0490 EA Removal And Reinstallation Of Breaker, 1-2-3 Pole, Any Amperage	67.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.69	
26 24 16 00-0491 EA Panelboard Filler Plate, Fits 1" Opening	4.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.95	
26 24 19 Motor-Control Centers (26 24)		
26 24 19 00-0001 Combination Starters With Molded Case Circuit Breakers (26 24 19) Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" o 20" Deep), fully factory assembled and wired internally.		

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 24 19 00-0002	230 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small>		
	Note: 1-Speed non-reversing.		
26 24 19 00-0003	EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination With Molded Case Circuit	2,302.24	92.25
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.35	
26 24 19 00-0004	EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination With Molded Case Circuit	2,730.14	96.86
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.12	
26 24 19 00-0005	EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination With Molded Case Circuit	4,075.14	101.47
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.88	
26 24 19 00-0006	EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit	7,406.07	119.92
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.95	
26 24 19 00-0007	EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit	14,945.91	138.37
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.02	
26 24 19 00-0008	EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit	25,159.48	184.49
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	110.69	
26 24 19 00-0009	480 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small>		
	Note: 1-Speed non-reversing.		
26 24 19 00-0010	EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination With Molded Case Circuit	2,302.24	92.25
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.35	
26 24 19 00-0011	EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination With Molded Case Circuit	2,730.14	96.86
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.12	
26 24 19 00-0012	EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit	4,075.14	101.47
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.88	
26 24 19 00-0013	EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit	7,406.07	119.92
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.95	
26 24 19 00-0014	EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit	14,945.91	138.37
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.02	
26 24 19 00-0015	EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination With Molded Case Circuit	25,159.48	184.49
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	110.69	
26 24 19 00-0016	230 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small>		
	Note: 1-Speed reversing.		
26 24 19 00-0017	EA 230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination With Molded Case Circuit	3,347.82	92.25
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.35	
26 24 19 00-0018	EA 230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination With Molded Case Circuit	4,469.09	96.86
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.12	
26 24 19 00-0019	EA 230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination With Molded Case Circuit	6,416.62	101.47
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.88	
26 24 19 00-0020	EA 230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit	11,242.83	119.92
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.95	
26 24 19 00-0021	EA 230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit	22,156.44	138.37
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.02	
26 24 19 00-0022	EA 230 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit	38,198.25	184.49
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	110.69	
26 24 19 00-0023	480 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small>		
	Note: 1-Speed reversing.		
26 24 19 00-0024	EA 480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination With Molded Case Circuit	3,347.82	92.25
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.35	
26 24 19 00-0025	EA 480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination With Molded Case Circuit	4,469.09	96.86
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.12	
26 24 19 00-0026	EA 480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit	6,416.62	101.47
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.88	
26 24 19 00-0027	EA 480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit	11,242.83	119.92
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.95	
26 24 19 00-0028	EA 480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit	22,156.44	138.37
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.02	
26 24 19 00-0029	EA 480 Volt, Full Volt, 1 Speed, Reversing, 400 HP Combination With Molded Case Circuit	38,198.25	184.49
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	110.69	
26 24 19 00-0030	230 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small>		
	Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0031	EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit	4,063.26	147.59
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	88.55	
26 24 19 00-0032	EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit	5,601.36	156.82
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	94.09	
26 24 19 00-0033	EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit	8,264.76	166.05
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	99.62	
26 24 19 00-0034	EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit	14,799.27	189.11
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.46	
26 24 19 00-0035	EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit	24,542.15	221.39
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	132.84	
26 24 19 00-0036	480 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small>		
	Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0037	EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit	4,063.26	147.59
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	88.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0038 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,601.36 94.09	156.82
26 24 19 00-0039 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,264.76 99.62	166.05
26 24 19 00-0040 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,799.27 113.46	189.11
26 24 19 00-0041 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,542.15 132.84	221.39
26 24 19 00-0042 230 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small> Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0043 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,714.61 55.35	92.25
26 24 19 00-0044 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,027.67 58.12	96.86
26 24 19 00-0045 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,628.69 60.88	101.47
26 24 19 00-0046 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,107.78 71.95	119.92
26 24 19 00-0047 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31,391.69 83.02	138.37
26 24 19 00-0048 480 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small> Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0049 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,714.61 55.35	92.25
26 24 19 00-0050 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,027.67 58.12	96.86
26 24 19 00-0051 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,628.69 60.88	101.47
26 24 19 00-0052 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,107.78 71.95	119.92
26 24 19 00-0053 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31,391.69 83.02	138.37
26 24 19 00-0054 230 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small> Note: Reducing volt, auto-transformer.		
26 24 19 00-0055 EA 230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,983.36 106.08	96.86
26 24 19 00-0056 EA 230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,703.44 119.92	106.08
26 24 19 00-0057 EA 230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,056.83 138.37	119.92
26 24 19 00-0058 EA 230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,944.81 184.49	138.37
26 24 19 00-0059 EA 230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47,821.15	184.49
26 24 19 00-0060 480 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small> Note: Reducing volt, auto-transformer.		
26 24 19 00-0061 EA 480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,983.36 106.08	96.86
26 24 19 00-0062 EA 480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,703.44 119.92	106.08
26 24 19 00-0063 EA 480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,056.83 138.37	119.92
26 24 19 00-0064 EA 480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,944.81 184.49	138.37
26 24 19 00-0065 EA 480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47,821.15	184.49
26 24 19 00-0066 230 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small> Note: Reducing volt, part winding.		
26 24 19 00-0067 EA 230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,747.77 88.55	147.59
26 24 19 00-0068 EA 230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,138.52 102.39	170.66
26 24 19 00-0069 EA 230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,822.95 113.46	189.11
26 24 19 00-0070 EA 230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,470.96 138.37	230.61
26 24 19 00-0071 EA 230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,380.90 177.12	295.19
26 24 19 00-0072 480 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small> Note: Reducing volt, part winding.		
26 24 19 00-0073 EA 480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,747.77 88.55	147.59
26 24 19 00-0074 EA 480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,138.52 102.39	170.66
26 24 19 00-0075 EA 480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,822.95 113.46	189.11
26 24 19 00-0076 EA 480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,470.96 138.37	230.61
26 24 19 00-0077 EA 480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,380.90 177.12	295.19

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0078			230 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small> Note: Reducing volt, energy saver.		
26 24 19 00-0079	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7-1/2 HP Combination With Molded Case Circuit.....	19,747.05	119.92
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.95	
26 24 19 00-0080	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination With Molded Case Circuit.....	20,943.22	147.59
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0081	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination With Molded Case Circuit.....	23,124.81	170.66
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	102.39	
26 24 19 00-0082	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit.....	35,030.85	189.11
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	113.46	
26 24 19 00-0083	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit.....	47,782.72	230.61
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	138.37	
26 24 19 00-0084	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit.....	64,849.43	295.19
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	177.12	
26 24 19 00-0085			480 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small> Note: Reducing volt, energy saver.		
26 24 19 00-0086	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination With Molded Case Circuit.....	19,747.05	119.92
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.95	
26 24 19 00-0087	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination With Molded Case Circuit.....	20,943.22	147.59
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0088	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit.....	23,124.81	170.66
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	102.39	
26 24 19 00-0089	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit.....	35,030.85	189.11
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	113.46	
26 24 19 00-0090	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit.....	47,782.72	230.61
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	138.37	
26 24 19 00-0091	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination With Molded Case Circuit.....	64,849.43	295.19
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	177.12	
26 24 19 00-0092			Combination Starters With Current Limiting Circuit Breakers <small>(26 24 19)</small> Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and wired internally.		
26 24 19 00-0093			230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Full volt, 1-speed non-reversing.		
26 24 19 00-0094	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit.....	3,088.64	92.25
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.35	
26 24 19 00-0095	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination Starters With Current Limiting Circuit.....	3,516.55	96.86
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.12	
26 24 19 00-0096	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination Starters With Current Limiting Circuit.....	5,450.79	101.47
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.88	
26 24 19 00-0097	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	10,062.11	119.92
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.95	
26 24 19 00-0098	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	18,033.92	138.37
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.02	
26 24 19 00-0099	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	29,406.05	184.49
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110.69	
26 24 19 00-0100			480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Full volt, 1-speed non-reversing.		
26 24 19 00-0101	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination Starters With Current Limiting Circuit.....	3,088.64	92.25
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.35	
26 24 19 00-0102	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination Starters With Current Limiting Circuit.....	3,516.55	96.86
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.12	
26 24 19 00-0103	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	5,450.79	101.47
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.88	
26 24 19 00-0104	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	10,062.11	119.92
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.95	
26 24 19 00-0105	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	18,033.92	138.37
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.02	
26 24 19 00-0106	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination Starters With Current Limiting Circuit.....	29,406.05	184.49
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110.69	
26 24 19 00-0107			230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Full volt, 1-speed reversing.		
26 24 19 00-0108	EA		230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit.....	4,127.58	92.25
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.35	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0109 EA 230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination Starters With Current Limiting Circuit.....	5,239.99	96.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.12	
26 24 19 00-0110 EA 230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination Starters With Current Limiting Circuit.....	7,761.26	101.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.88	
26 24 19 00-0111 EA 230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	13,863.43	119.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.95	
26 24 19 00-0112 EA 230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	25,182.43	138.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.02	
26 24 19 00-0113 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
Note: Full volt, 1-speed reversing.		
26 24 19 00-0114 EA 480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination Starters With Current Limiting Circuit.....	4,127.58	92.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.35	
26 24 19 00-0115 EA 480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination Starters With Current Limiting Circuit.....	5,239.99	96.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.12	
26 24 19 00-0116 EA 480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	7,761.26	101.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.88	
26 24 19 00-0117 EA 480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	13,863.43	119.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.95	
26 24 19 00-0118 EA 480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	25,182.43	138.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.02	
26 24 19 00-0119 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
Note: Full volt, 2-speed non-reversing, 2 wind.		
26 24 19 00-0120 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit.....	4,829.73	147.59
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0121 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit.....	6,356.75	156.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.09	
26 24 19 00-0122 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit.....	9,587.25	166.05
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	99.62	
26 24 19 00-0123 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit.....	17,388.86	189.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	113.46	
26 24 19 00-0124 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit.....	27,543.77	221.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	132.84	
26 24 19 00-0125 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
Note: Full volt, 2-speed non-reversing, 2 wind.		
26 24 19 00-0126 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit.....	4,829.73	147.59
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0127 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit.....	6,356.75	156.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.09	
26 24 19 00-0128 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit.....	9,587.25	166.05
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	99.62	
26 24 19 00-0129 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit.....	17,388.86	189.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	113.46	
26 24 19 00-0130 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit.....	27,543.77	221.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	132.84	
26 24 19 00-0131 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
Note: Full volt, 2-speed non-reversing, 1 wind.		
26 24 19 00-0132 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit.....	5,573.33	138.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.02	
26 24 19 00-0133 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit.....	7,871.22	147.59
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0134 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit.....	11,055.23	156.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.09	
26 24 19 00-0135 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit.....	20,786.28	179.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	107.93	
26 24 19 00-0136 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit.....	34,481.10	212.17
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	127.31	
26 24 19 00-0137 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
Note: Full volt, 2-speed non-reversing, 1 wind.		

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0138	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit.....	5,573.33	138.37
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.02	
26 24 19 00-0139	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit.....	7,871.22	147.59
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0140	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit.....	11,055.23	156.82
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.09	
26 24 19 00-0141	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit.....	20,786.28	179.88
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	107.93	
26 24 19 00-0142	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit.....	34,481.10	212.17
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	127.31	
26 24 19 00-0143			230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
			Note: Reduced volt, auto-transformer.		
26 24 19 00-0144	EA		230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination Starters With Current Limiting Circuit.....	7,727.67	96.86
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.12	
26 24 19 00-0145	EA		230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination Starters With Current Limiting Circuit.....	12,457.89	106.08
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.65	
26 24 19 00-0146	EA		230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit.....	21,071.75	119.92
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.95	
26 24 19 00-0147	EA		230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit.....	31,934.41	138.37
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.02	
26 24 19 00-0148	EA		230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit.....	52,555.07	184.49
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110.69	
26 24 19 00-0149			480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
			Note: Reduced volt, auto-transformer.		
26 24 19 00-0150	EA		480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination Starters With Current Limiting Circuit.....	7,727.67	96.86
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.12	
26 24 19 00-0151	EA		480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit.....	12,457.89	106.08
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.65	
26 24 19 00-0152	EA		480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit.....	21,071.75	119.92
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.95	
26 24 19 00-0153	EA		480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit.....	31,934.41	138.37
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.02	
26 24 19 00-0154	EA		480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination Starters With Current Limiting Circuit.....	52,555.07	184.49
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110.69	
26 24 19 00-0155			230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
			Note: Reduced volt, part winding.		
26 24 19 00-0156	EA		230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination Starters With Current Limiting Circuit.....	5,514.23	147.59
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0157	EA		230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination Starters With Current Limiting Circuit.....	6,889.48	170.66
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	102.39	
26 24 19 00-0158	EA		230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination Starters With Current Limiting Circuit.....	12,136.57	189.11
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	113.46	
26 24 19 00-0159	EA		230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit.....	21,523.53	230.61
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	138.37	
26 24 19 00-0160	EA		230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit.....	31,765.16	295.19
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	177.12	
26 24 19 00-0161			480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
			Note: Reduced volt, part winding.		
26 24 19 00-0162	EA		480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination Starters With Current Limiting Circuit.....	5,514.23	147.59
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0163	EA		480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination Starters With Current Limiting Circuit.....	6,889.48	170.66
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	102.39	
26 24 19 00-0164	EA		480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit.....	12,136.57	189.11
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	113.46	
26 24 19 00-0165	EA		480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit.....	21,523.53	230.61
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	138.37	
26 24 19 00-0166	EA		480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination Starters With Current Limiting Circuit.....	31,765.16	295.19
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	177.12	
26 24 19 00-0167			230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
			Note: Reduced volt, energy saving		
26 24 19 00-0168	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7.5 HP Combination Starters With Current Limiting Circuit.....	20,382.81	119.92
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.95	
26 24 19 00-0169	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination Starters With Current Limiting Circuit.....	21,572.34	147.59
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0170	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination Starters With Current Limiting Circuit.....	23,731.78	170.66
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	102.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0171 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit	35,533.70	189.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	113.46	
26 24 19 00-0172 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit	48,172.60	230.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	138.37	
26 24 19 00-0173 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit	67,523.20	295.19
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	177.12	
26 24 19 00-0174 480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
<i>Note: Reduced volt, energy saving</i>		
26 24 19 00-0175 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination Starters With Current Limiting Circuit	20,382.85	119.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.96	
26 24 19 00-0176 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination Starters With Current Limiting Circuit	21,572.34	147.59
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0177 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit	23,731.78	170.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	102.39	
26 24 19 00-0178 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit	35,533.70	189.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	113.46	
26 24 19 00-0179 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit	48,172.60	230.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	138.37	
26 24 19 00-0180 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination Starters With Current Limiting Circuit	67,523.20	295.19
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	177.12	
26 24 19 00-0181 Combination Starters With Fusible Switch <small>(26 24 19)</small>		
<i>Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and Wired Internally.</i>		
26 24 19 00-0182 230 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small>		
<i>Note: 1-Speed non-reversing.</i>		
26 24 19 00-0183 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing	2,045.27	92.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.35	
26 24 19 00-0184 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing	2,829.83	96.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.12	
26 24 19 00-0185 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing	4,788.44	101.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.88	
26 24 19 00-0186 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing	8,462.73	119.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.95	
26 24 19 00-0187 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing	13,754.12	138.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.02	
26 24 19 00-0188 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing	24,550.29	184.49
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110.69	
26 24 19 00-0189 480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small>		
<i>Note: 1-Speed non-reversing.</i>		
26 24 19 00-0190 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing	2,045.27	92.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.35	
26 24 19 00-0191 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing	2,829.83	96.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.12	
26 24 19 00-0192 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing	4,788.44	101.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.88	
26 24 19 00-0193 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing	8,462.73	119.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.95	
26 24 19 00-0194 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing	13,754.12	138.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.02	
26 24 19 00-0195 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing	24,550.29	184.49
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110.69	
26 24 19 00-0196 230 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small>		
<i>Note: 1-Speed reversing.</i>		
26 24 19 00-0197 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing	3,319.02	92.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.35	
26 24 19 00-0198 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing	4,956.44	96.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.12	
26 24 19 00-0199 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing	7,945.13	101.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.88	
26 24 19 00-0200 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing	12,961.83	119.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.95	
26 24 19 00-0201 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing	19,954.52	138.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.02	
26 24 19 00-0202 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing	33,933.96	184.49
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110.69	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0203 480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small>		
Note: 1-Speed reversing.		
26 24 19 00-0204 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing	3,319.02	92.25
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.35	
26 24 19 00-0205 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing	4,956.44	96.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.12	
26 24 19 00-0206 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing	7,945.13	101.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.88	
26 24 19 00-0207 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing	12,961.83	119.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.95	
26 24 19 00-0208 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing	19,954.52	138.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.02	
26 24 19 00-0209 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing	33,933.96	184.49
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	110.69	
26 24 19 00-0210 230 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small>		
Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0211 EA 10 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	3,877.19	147.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	88.55	
26 24 19 00-0212 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	5,344.40	156.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	94.09	
26 24 19 00-0213 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	8,430.91	166.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	99.62	
26 24 19 00-0214 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	15,087.24	189.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.46	
26 24 19 00-0215 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	24,057.02	221.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	132.84	
26 24 19 00-0216 480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small>		
Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0217 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	3,877.19	147.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	88.55	
26 24 19 00-0218 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	5,344.40	156.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	94.09	
26 24 19 00-0219 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	8,430.91	166.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	99.62	
26 24 19 00-0220 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	15,087.24	189.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.46	
26 24 19 00-0221 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	24,057.02	221.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	132.84	
26 24 19 00-0222 230 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small>		
Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0223 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	4,444.35	92.25
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.35	
26 24 19 00-0224 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	6,788.42	96.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.12	
26 24 19 00-0225 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	9,783.76	101.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.88	
26 24 19 00-0226 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	19,742.62	119.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.95	
26 24 19 00-0227 480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small>		
Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0228 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	4,444.35	92.25
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.35	
26 24 19 00-0229 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	6,788.42	96.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.12	
26 24 19 00-0230 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	9,783.76	101.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.88	
26 24 19 00-0231 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	19,742.62	119.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.95	
26 24 19 00-0232 230 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small>		
Note: Auto-transformer.		
26 24 19 00-0233 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer	6,741.90	96.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.12	
26 24 19 00-0234 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer	11,919.59	106.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.65	
26 24 19 00-0235 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer	19,873.31	119.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.95	
26 24 19 00-0236 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer	26,540.36	138.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.02	
26 24 19 00-0237 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer	44,600.23	184.49
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	110.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0238 480 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small>		
Note: Auto-transformer.		
26 24 19 00-0239 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	6,741.90	96.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	58.12	
26 24 19 00-0240 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	11,919.59	106.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	63.65	
26 24 19 00-0241 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	19,873.31	119.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	71.95	
26 24 19 00-0242 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	26,540.36	138.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	83.02	
26 24 19 00-0243 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	44,600.23	184.49
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	110.69	
26 24 19 00-0244 230 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small>		
Note: Part winding.		
26 24 19 00-0245 EA 10 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	4,776.56	147.59
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	88.55	
26 24 19 00-0246 EA 25 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	6,329.03	170.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	102.39	
26 24 19 00-0247 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	10,096.36	189.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	113.46	
26 24 19 00-0248 EA 75 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	20,161.17	230.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	138.37	
26 24 19 00-0249 480 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small>		
Note: Part winding.		
26 24 19 00-0250 EA 15 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	4,776.56	147.59
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	88.55	
26 24 19 00-0251 EA 40 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	6,329.03	170.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	102.39	
26 24 19 00-0252 EA 75 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	10,096.36	189.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	113.46	
26 24 19 00-0253 EA 150 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	20,161.17	230.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	138.37	
26 24 19 00-0254 230 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small>		
Note: Energy saver.		
26 24 19 00-0255 EA 7.5 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	19,744.83	119.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	71.95	
26 24 19 00-0256 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	20,943.22	147.59
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	88.55	
26 24 19 00-0257 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	23,124.81	170.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	102.39	
26 24 19 00-0258 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	35,030.85	189.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	113.46	
26 24 19 00-0259 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	47,782.72	230.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	138.37	
26 24 19 00-0260 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	64,849.43	295.19
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	177.12	
26 24 19 00-0261 480 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small>		
Note: Energy saver.		
26 24 19 00-0262 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	19,744.83	119.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	71.95	
26 24 19 00-0263 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	20,943.22	147.59
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	88.55	
26 24 19 00-0264 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	23,124.81	170.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	102.39	
26 24 19 00-0265 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	35,030.85	189.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	113.46	
26 24 19 00-0266 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	47,782.72	230.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	138.37	
26 24 19 00-0267 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	64,849.43	295.19
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	177.12	
26 24 19 00-0268 Starter Accessories <small>(26 24 19)</small>		
Note: Additional options or accessories for the Combination Starters		



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 24 19 00-0269	Starter Modifications <small>(26 24 19 00-0269)</small>		
26 24 19 00-0270	EA Size 1, 2, 50 VA, 60 Hertz, Standard Control Circuit Transformer	129.98	
26 24 19 00-0271	EA Size 3, 4, 150 VA, 60 Hertz, Standard Control Circuit Transformer	345.57	
26 24 19 00-0272	EA Size 5, 6, 50 VA, 60 Hertz, Control Circuit Transformer	493.99	
26 24 19 00-0273	EA Extra 50 VA, 60 Hertz, Control Circuit Transformer, All Sizes	124.05	
26 24 19 00-0274	EA Extra 100 VA, 60 Hertz, Control Circuit Transformer, All Sizes	175.00	
26 24 19 00-0275	EA Extra 150 VA, 60 Hertz, Control Circuit Transformer, All Sizes	294.62	
26 24 19 00-0276	EA Overload Relay Heater Elements, 3 Per Starter	73.10	
26 24 19 00-0277	EA N.O. Overload Relay Alarm	62.03	
26 24 19 00-0278	EA Control Circuit Fuses, Primary/Secondary	102.91	
26 24 19 00-0279	EA Control Devices Type PB2 Mount On Device, 2 Unit Pushbutton	127.23	
26 24 19 00-0280	EA Control Devices Type PB2 Mount On Device, 3 Unit Pushbutton	248.86	
26 24 19 00-0281	EA Control Devices Type PB2 Mount On Device, 2 Or 3 Post Select	127.23	
26 24 19 00-0282	EA Control Devices Type PB2 Mount On Device, Individual Light Full V	145.95	
26 24 19 00-0283	EA Control Devices Type PB2 Mount On Device, Individual Light Transformer	175.88	
26 24 19 00-0284	EA Control Devices Type PB2 Mount On Device, Individual Light Push To	207.69	
26 24 19 00-0285	EA Blank Devices Panel	39.29	
26 24 19 00-0286	EA Oversize Or Special Color Starter	61.75	
26 24 19 00-0287	EA Mini Voltmeter/Ammeter With Current Transformer	542.22	
26 24 19 00-0288	EA Mini Elapsed Time Meters, Non Resettable	491.70	
26 24 19 00-0289	EA Panel Elapsed Time Meter, Resettable	729.73	
26 24 19 00-0290	EA Terminal Blocks, Side Mounted, Press Connection, Plug-In Press	61.75	
26 24 19 00-0291	EA Terminal Blocks, Side Mounted, Press Connection, Plug-In Screw	87.94	
26 24 19 00-0292	EA Terminal Blocks, Front Mounted, Press Connection, Standard	61.75	
26 24 19 00-0293	EA Terminal Blocks, Front Mounted, Press Connection, Plug-In	87.94	
26 24 19 00-0294	EA Terminal Blocks, Front Mounted, Press Connection, Screw-Type Utility	87.94	
26 24 19 00-0295	EA Terminal Blocks, Front Mounted, Press Connection, Plug-In Screw Type	127.23	
26 24 19 00-0296	EA MOR - A Solid State Modular Overload Relay	316.21	
26 24 19 00-0297	EA Heater Module	54.99	
26 24 19 00-0298	EA LAM - Long Acceleration Module	341.61	
26 24 19 00-0299	EA JAM - Jam Protection Module	391.60	
26 24 19 00-0300	EA PUM - Phase Unbalance Module	743.21	
26 24 19 00-0301	EA ULM - Underload Module	356.61	
26 24 19 00-0302	EA Wiring To Common Control Circuit Transformer	78.32	
26 24 19 00-0303	EA Handle Operator Separable Source Control Circuit	146.64	
26 24 19 00-0304	EA Type SIS Control Wire	61.66	
26 24 19 00-0305	EA Ring Or Spade Terminals Control	78.32	
26 24 19 00-0306	EA Ring Terminals Power	78.32	
26 24 19 00-0307	EA 14 Gauge Control Wire	61.66	
26 24 19 00-0308	EA Wiremakers	78.32	
26 24 19 00-0309	EA Wiring Diagram On Door	46.66	
26 24 19 00-0310	EA Special Color Or Type Control Wire	56.66	
26 24 19 00-0311	EA Current Transformer 12.5 VA	444.93	
26 24 19 00-0312	EA Ground Fault Relay-Instant Non-Adjust, Size 1 Thru 4	1,421.44	
26 24 19 00-0313	EA Ground Fault Relay-Instant Non-Adjust, Size 5 Thru 6	1,599.74	
26 24 19 00-0314	Control Relays And Special Components <small>(26 24 19 00-0268)</small>		
26 24 19 00-0315	EA 600 Volt, 2 Pole, Control Relays	455.73	
26 24 19 00-0316	EA 600 Volt, 4 Pole, Control Relays	538.90	
26 24 19 00-0317	EA 600 Volt, 6 Pole, Control Relays	631.30	
26 24 19 00-0318	EA 600 Volt, 8 Pole, Control Relays	702.71	
26 24 19 00-0319	EA Pneumatic Timer, Control Relays	604.58	
26 24 19 00-0320	EA Motor Driven Timer, Control Relays	1,575.44	
26 24 19 00-0321	EA 7 Days Time Switch, Control Relays	1,982.91	
26 24 19 00-0322	EA 24 Hour Time Switch, Control Relays	556.04	
26 24 19 00-0323	EA Phase Voltage, Control Relays	945.85	
26 24 19 00-0324	EA Two Circuit Alternator, Control Relays	1,323.90	
26 24 19 00-0325	EA Manual 120 Volt, Control Relays	129.45	
26 24 19 00-0326	EA Over-Current Relay, Control Relays	3,179.48	
26 24 19 00-0327	EA UV-Relay, Control Relays	2,692.90	
26 24 19 00-0328	EA Over-Current Relay, Control Relays	2,692.90	
26 24 19 00-0329	EA Teleductor, Control Relays	975.27	
26 24 19 00-0330	EA Current Transducer, Control Relays	2,622.79	
26 24 19 00-0331	EA Watt Transducer, Control Relays	5,245.58	
26 24 19 00-0332	EA Control Relays, Blank, Add For Each 1x	177.99	
26 24 19 00-0333	EA Control Relays, Fixed Mounted Back Pan, 20" Structure With Wireway	266.25	
26 24 19 00-0334	EA Control Relays, Fixed Mounted Back Pan, 24" Structure With Wireway	300.08	
26 24 19 00-0335	EA Control Relays, Fixed Mounted Back Pan, 280" Structure With Wireway	333.92	
26 24 19 00-0336	EA Control Relays, Fixed Mounted Back Pan, 20" Structure Without Wireway	300.08	
26 24 19 00-0337	EA Control Relays, Fixed Mounted Back Pan, 24" Structure Without Wireway	333.92	
26 24 19 00-0338	EA Control Relays, Fixed Mounted Back Pan, 2820" Structure Without Wireway	351.57	
26 24 19 00-0339	Circuit Breaker Modifications/Accessories <small>(26 24 19 00-0268)</small>		
26 24 19 00-0340	EA Shunt Trip, Circuit Breaker	262.97	
26 24 19 00-0341	EA Auxiliary Switch, Circuit Breaker	90.83	
26 24 19 00-0342	EA Key Interlock, Circuit Breaker	326.70	
26 24 19 00-0343	EA GFR Ground Fault, Circuit Breaker	1,506.04	
26 24 19 00-0344	EA Seltronic Breaker, Circuit Breaker	872.42	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0396 EA 30,000 VA, Phase 3, Dry Type Distribution Transformers.....	8,548.61	
26 24 19 00-0397 EA 45,000 VA, Phase 1, Dry Type Distribution Transformers.....	11,841.41	
26 24 19 00-0398 Metering Equipment (26 24 19 00-0268)		
26 24 19 00-0399 EA Metering Equipment, Voltmeter, Panel Type.....	602.49	
26 24 19 00-0400 EA Metering Equipment, Voltmeter, Switchboard Type.....	1,317.25	
26 24 19 00-0401 EA Metering Equipment, Ammeter, Panel.....	542.62	
26 24 19 00-0402 EA Metering Equipment, Ammeter, Switchboard Type.....	1,317.25	
26 24 19 00-0403 EA Metering Equipment, Voltmeter/Ammeter, Switch.....	731.60	
26 24 19 00-0404 EA Metering Equipment, Control Switch, 4 Circuits.....	776.50	
26 24 19 00-0405 EA Add For Additional Circuits.....	91.65	
26 24 19 00-0406 EA Metering Equipment, Indicating Wattmeter.....	2,716.83	
26 24 19 00-0407 EA Metering Equipment, Indicating Power Factor.....	2,845.93	
26 24 19 00-0408 EA Metering Equipment, Integrating Watt-hour.....	2,509.14	
26 24 19 00-0409 EA Add For Demand Attachment.....	599.90	
26 24 19 00-0410 EA 800 Amperes, Metering Equipment, Current Transformer.....	750.31	
26 24 19 00-0411 EA 1,000 Amperes, Metering Equipment, Current Transformer.....	1,294.80	
26 24 19 00-0412 EA 2,000 Amperes, Metering Equipment, Current Transformer.....	1,508.10	
26 24 19 00-0413 EA Metering Equipment, Potential Transformer.....	1,257.37	
26 24 19 00-0414 EA Metering Equipment, Surge Arrester.....	1,352.80	
26 24 19 00-0415 EA Metering Equipment, Ground Detector System.....	1,034.71	
26 24 19 00-0416 Current Limiting Reactors (26 24 19 00-0268)		
26 24 19 00-0417 EA 600 Amperes, Current Limiting Reactors.....	23,094.90	
26 24 19 00-0418 EA 800 Amperes, Current Limiting Reactors.....	33,632.90	
26 24 19 00-0419 EA 1,000 Amperes, Current Limiting Reactors.....	44,195.22	
26 24 19 00-0420 EA 1,200 Amperes, Current Limiting Reactors.....	67,273.28	
26 24 19 00-0421 Incoming Line Cable Space Requirements, Main Lugs Only (26 24 19 00-0268)		
26 24 19 00-0422 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Screw.....	480.70	
26 24 19 00-0423 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Crimp.....	480.70	
26 24 19 00-0424 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Screw.....	664.57	
26 24 19 00-0425 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Crimp.....	1,216.16	
26 24 19 00-0426 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Screw.....	664.57	
26 24 19 00-0427 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Crimp.....	848.43	
26 24 19 00-0428 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Screw.....	848.43	
26 24 19 00-0429 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Crimp.....	1,213.94	
26 24 19 00-0430 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Screw.....	848.43	
26 24 19 00-0431 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Crimp.....	1,213.94	
26 24 19 00-0432 EA Incoming Line Cable Space Requirement, 750 MCC, 4 Screw.....	1,032.29	
26 24 19 00-0433 EA Incoming Line Cable Space Requirement, 750 MCC, 4 Crimp.....	3,347.19	
26 24 19 00-0434 EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Screw.....	1,032.29	
26 24 19 00-0435 EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Crimp.....	1,213.94	
26 24 19 00-0436 EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Screw.....	3,347.19	
26 24 19 00-0437 EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Crimp.....	3,347.19	
26 24 19 00-0438 EA Bus Duct Transition Pull Box.....	896.60	
26 24 19 00-0439 EA Throat And Transition To Substation.....	1,730.88	
26 24 19 00-0440 EA Service Entrance Label.....	374.85	
26 24 19 00-0441 EA Type W To 5 Star - 10" Transition.....	783.53	
26 24 19 00-0442 EA 600 Amperes, Sub Feed Lugs On Main Bus.....	398.27	
26 24 19 00-0443 Standard Structures And Structure Options/Modifications (26 24 19 00-0268)		
26 24 19 00-0444 EA Standard Structure Add For Each Additional 4" Of Structure Width.....	247.52	
26 24 19 00-0445 EA Standard Structure Add For 8" Vertical Wireway In Lieu Of 4".....	247.52	
26 24 19 00-0446 EA Standard Structure Single Corner Section "L", 16" Depth.....	765.72	
26 24 19 00-0447 EA Standard Structure Single Corner Section "L", 21" Depth.....	863.66	
26 24 19 00-0448 EA Standard Structure Unused Space/Future Space.....	73.90	
26 24 19 00-0449 EA Standard Structure NEMA 12 Dustproof.....	199.44	
26 24 19 00-0450 EA Standard Structure Bottom Plate For NEMA 1 Gasket Enclosure.....	41.85	
26 24 19 00-0451 EA Standard Structure 150 Watt Space.....	179.86	
26 24 19 00-0452 EA Standard Structure Thermostat For Space Heater Control.....	484.92	
26 24 19 00-0453 EA Standard Structure Rear Hinged Structure Door, 72" High.....	179.86	
26 24 19 00-0454 EA Standard Structure NEMA 2 Drip Shield On Top Of MCC.....	313.28	
26 24 19 00-0455 EA Standard Structure NEMA 3R N-Walk In Front Mounted.....	4,469.27	
26 24 19 00-0456 EA Standard Structure NEMA 3R N-Walk In Back-to-back.....	5,165.83	
26 24 19 00-0457 EA Standard Structure NEMA 3R Walk-In Aisle Front Mounted.....	5,170.83	
26 24 19 00-0458 Installation Hours For Vertical Sections (26 24 19 00-0268)		
26 24 19 00-0459 EA Install Vertical Section, 230/480 Volt, 1 Section, 600 Amperes.....	553.46	276.74
26 24 19 00-0460 EA Install Vertical Section, 230/480 Volt, 2 Section, 600 Amperes.....	830.18	415.11
26 24 19 00-0461 EA Install Vertical Section, 230/480 Volt, 3 Section, 600 Amperes.....	922.46	461.24
26 24 19 00-0462 EA Install Vertical Section, 230/480 Volt, 4 Section, 600 Amperes.....	1,107.06	553.48
26 24 19 00-0463 EA Bolt To Floor, Vertical Section, 230/480 Volt, 600 Amperes.....	92.25	46.12
26 24 19 00-0464 EA Install Vertical Section, 230/480 Volt, 1 Section, 800 Amperes.....	553.46	276.74
26 24 19 00-0465 EA Install Vertical Section, 230/480 Volt, 2 Section, 800 Amperes.....	830.18	415.11

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24	19 00-0609	EA	1,200 Amperes Incoming Section, Main Lugs	1,285.92	555.39
26 24	19 00-0610	EA	2,000 Amperes Incoming Section, Main Lugs	3,257.56	1,009.81
26 24	19 00-0611	EA	3,000 Amperes Incoming Section, Main Lugs	4,969.06	1,464.22
26 24	19 00-0612	EA	4,000 Amperes Incoming Section, Main Lugs	7,121.70	2,019.62
26 24 19 00-0613 Incoming Main Circuit Breaker Structure <small>(26 24 19 00-0484)</small>					
Note: Includes structure, main breaker, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.					
26 24	19 00-0614	EA	225 Amperes, Main Circuit Breaker Section	6,214.20	488.65
			For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
			For NEMA 1 With Gaskets, Add	97.00	
			For NEMA 12, Add	245.00	
			For 20" Cabinet Depth, Add	108.00	
26 24	19 00-0615	EA	400 Amperes, Main Circuit Breaker Section	13,298.32	627.70
			For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
			For NEMA 1 With Gaskets, Add	97.00	
			For NEMA 12, Add	245.00	
			For 20" Cabinet Depth, Add	108.00	
26 24	19 00-0616	EA	600 Amperes, Main Circuit Breaker Section	13,722.48	977.70
			For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
			For NEMA 1 With Gaskets, Add	97.00	
			For NEMA 12, Add	245.00	
			For 20" Cabinet Depth, Add	108.00	
26 24	19 00-0617	EA	800 Amperes, Main Circuit Breaker Section	19,605.12	977.70
			For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
			For NEMA 1 With Gaskets, Add	97.00	
			For NEMA 12, Add	245.00	
			For 20" Cabinet Depth, Add	108.00	
26 24	19 00-0618	EA	1,200 Amperes, Main Circuit Breaker Section	28,456.87	1,106.25
			For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
			For NEMA 1 With Gaskets, Add	97.00	
			For NEMA 12, Add	245.00	
			For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0619 Incoming Fusible Main Disconnect Section <small>(26 24 19 00-0484)</small>					
Note: Includes structure, fuses, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.					
26 24	19 00-0620	EA	200 Amperes, Fusible Main Disconnect Section	5,378.89	489.26
			For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
			For NEMA 1 With Gaskets, Add	97.00	
			For NEMA 12, Add	245.00	
			For 20" Cabinet Depth, Add	108.00	
26 24	19 00-0621	EA	400 Amperes, Fusible Main Disconnect Section	7,439.19	628.01
			For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
			For NEMA 1 With Gaskets, Add	97.00	
			For NEMA 12, Add	245.00	
			For 20" Cabinet Depth, Add	108.00	
26 24	19 00-0622	EA	600 Amperes, Fusible Main Disconnect Section	14,598.24	978.51
			For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
			For NEMA 1 With Gaskets, Add	97.00	
			For NEMA 12, Add	245.00	
			For 20" Cabinet Depth, Add	108.00	
26 24	19 00-0623	EA	800 Amperes, Fusible Main Disconnect Section	17,011.41	978.51
			For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
			For NEMA 1 With Gaskets, Add	97.00	
			For NEMA 12, Add	245.00	
			For 20" Cabinet Depth, Add	108.00	
26 24	19 00-0624	EA	1,200 Amperes, Fusible Main Disconnect Section	24,029.22	1,107.26
			For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
			For NEMA 1 With Gaskets, Add	97.00	
			For NEMA 12, Add	245.00	
			For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0625 Circuit Breaker Combination Starters <small>(26 24 19 00-0484)</small>					
26 24 19 00-0626 Class I, Type A <small>(26 24 19 00-0625)</small>					
26 24	19 00-0627	EA	Size 1, Class I, Type A Circuit Breaker Combination Starter	936.48	204.99
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	116.87	
26 24	19 00-0628	EA	Size 2, Class I, Type A Circuit Breaker Combination Starter	1,091.72	204.99
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	129.46	
26 24	19 00-0629	EA	Size 3, Class I, Type A Circuit Breaker Combination Starter	1,589.80	290.82
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	174.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0630 EA Size 4, Class I, Type A Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,608.27 229.50	382.72
26 24 19 00-0631 EA Size 5, Class I, Type A Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,717.48 286.88	478.65
26 24 19 00-0632 Class I, Type B <small>(26 24 19 00-0625)</small>		
26 24 19 00-0633 EA Size 1, Class I, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	889.78 100.98	178.73
26 24 19 00-0634 EA Size 2, Class I, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,039.24 113.72	178.73
26 24 19 00-0635 EA Size 3, Class I, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,527.30 155.36	258.52
26 24 19 00-0636 EA Size 4, Class I, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,544.52 210.38	350.40
26 24 19 00-0637 EA Size 5, Class I, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,666.07 271.46	447.35
26 24 19 00-0638 Class I, Type C <small>(26 24 19 00-0625)</small>		
26 24 19 00-0639 EA Size 1, Class I, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	942.80 91.47	165.61
26 24 19 00-0640 EA Size 2, Class I, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,101.05 107.43	165.61
26 24 19 00-0641 EA Size 3, Class I, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,639.72 148.50	247.41
26 24 19 00-0642 EA Size 4, Class I, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,662.69 205.25	342.33
26 24 19 00-0643 EA Size 5, Class I, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,777.10 262.97	439.27
26 24 19 00-0644 Class II, Type B <small>(26 24 19 00-0625)</small>		
26 24 19 00-0645 EA Size 1, Class II, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	931.58 138.71	245.38
26 24 19 00-0646 EA Size 2, Class II, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,297.58 154.88	245.38
26 24 19 00-0647 EA Size 3, Class II, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,845.50 195.70	327.18
26 24 19 00-0648 EA Size 4, Class II, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,032.02 252.45	419.07
26 24 19 00-0649 EA Size 5, Class II, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5,510.22 307.87	511.98
26 24 19 00-0650 Class II, Type C <small>(26 24 19 00-0625)</small>		
26 24 19 00-0651 EA Size 1, Class II, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,173.74 132.87	232.26
26 24 19 00-0652 EA Size 2, Class II, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,349.73 145.09	232.26
26 24 19 00-0653 EA Size 3, Class II, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,963.18 189.82	317.08
26 24 19 00-0654 EA Size 4, Class II, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,142.78 245.10	408.98
26 24 19 00-0655 EA Size 5, Class II, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5,635.14 304.16	504.91
26 24 19 00-0656 Fused Disconnect Combination Starter <small>(26 24 19 00-0484)</small>		
26 24 19 00-0657 Class I, Type A <small>(26 24 19 00-0656)</small>		
26 24 19 00-0658 EA Size 1, Class I, Type A Fused Disconnect Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	853.04 113.72	188.83
26 24 19 00-0659 EA Size 2, Class I, Type A Fused Disconnect Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,289.50 154.88	258.52
26 24 19 00-0660 EA Size 3, Class I, Type A Fused Disconnect Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,058.18 201.96	336.27
26 24 19 00-0661 EA Size 4, Class I, Type A Fused Disconnect Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,814.09 283.66	471.58
26 24 19 00-0662 EA Size 5, Class I, Type A Fused Disconnect Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,956.67 360.65	600.83
26 24 19 00-0663 Class I, Type B <small>(26 24 19 00-0656)</small>		
26 24 19 00-0664 EA Size 1, Class I, Type B Fused Disconnect Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	871.61 100.98	168.64
26 24 19 00-0665 EA Size 2, Class I, Type B Fused Disconnect Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,173.34 138.71	231.24
26 24 19 00-0666 EA Size 3, Class I, Type B Fused Disconnect Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,739.91 185.63	309.00
26 24 19 00-0667 EA Size 4, Class I, Type B Fused Disconnect Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,918.75 268.57	446.33

26 Electrical

26 20 Low-Voltage Electrical Distribution

26 24 Switchboards and Panelboards



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0668	EA	Size 5, Class I, Type B Fused Disconnect Combination Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,047.50 341.15	567.52
26 24 19 00-0669	Class I, Type C (26 24 19 00-0656)			
26 24 19 00-0670	EA	Size 1, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	924.89 94.55	157.53
26 24 19 00-0671	EA	Size 2, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,242.77 129.46	214.08
26 24 19 00-0672	EA	Size 3, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,895.39 180.32	297.89
26 24 19 00-0673	EA	Size 4, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,073.30 262.97	439.27
26 24 19 00-0674	EA	Size 5, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,772.20 336.61	561.46
26 24 19 00-0675	Class II, Type B (26 24 19 00-0656)			
26 24 19 00-0676	EA	Size 1, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,096.59 141.83	236.30
26 24 19 00-0677	EA	Size 2, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,417.94 176.54	294.86
26 24 19 00-0678	EA	Size 3, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,061.57 227.44	379.69
26 24 19 00-0679	EA	Size 4, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,368.78 307.87	511.98
26 24 19 00-0680	EA	Size 5, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,805.15 382.50	639.21
26 24 19 00-0681	Class II, Type C (26 24 19 00-0656)			
26 24 19 00-0682	EA	Size 1, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,141.44 132.87	222.16
26 24 19 00-0683	EA	Size 2, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,487.01 167.19	278.71
26 24 19 00-0684	EA	Size 3, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,192.95 217.63	362.52
26 24 19 00-0685	EA	Size 4, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,508.42 300.54	499.86
26 24 19 00-0686	EA	Size 5, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,940.85 371.25	619.01
26 24 19 00-0687	Space Complete With Bus And Hardware (26 24 19 00-0484)			
26 24 19 00-0688	Circuit Breaker Type (26 24 19 00-0687)			
26 24 19 00-0689	EA	Circuit Breaker Type, Size 1 Space Complete With Bus And Hardware.....	262.00	68.66
26 24 19 00-0690	EA	Circuit Breaker Type, Size 2 Space Complete With Bus And Hardware.....	262.00	68.66
26 24 19 00-0691	EA	Circuit Breaker Type, Size 3 Space Complete With Bus And Hardware.....	389.66	99.98
26 24 19 00-0692	EA	Circuit Breaker Type, Size 4 Space Complete With Bus And Hardware.....	460.22	131.28
26 24 19 00-0693	EA	Circuit Breaker Type, Size 5 Space Complete With Bus And Hardware.....	776.36	199.94
26 24 19 00-0694	Fused Disconnect Type (26 24 19 00-0687)			
26 24 19 00-0695	EA	Fused Disconnect Type, Size 1 Space Complete With Bus And Hardware.....	262.00	68.66
26 24 19 00-0696	EA	Fused Disconnect Type, Size 2 Space Complete With Bus And Hardware.....	345.73	99.98
26 24 19 00-0697	EA	Fused Disconnect Type, Size 3 Space Complete With Bus And Hardware.....	481.72	131.28
26 24 19 00-0698	EA	Fused Disconnect Type, Size 4 Space Complete With Bus And Hardware.....	836.34	199.94
26 24 19 00-0699	EA	Fused Disconnect Type, Size 5 Space Complete With Bus And Hardware.....	1,163.70	290.82
26 24 19 00-0700	Blank Space For Future Expansion (26 24 19 00-0687)			
Note: Factory modified no labor costs.				
26 24 19 00-0701	EA	Blank Space For Future Expansion, Size 1 Factory Modified, No Crew Costs.....	125.17	
26 24 19 00-0702	EA	Blank Space For Future Expansion, Size 2 Factory Modified, No Crew Costs.....	125.17	
26 24 19 00-0703	EA	Blank Space For Future Expansion, Size 3 Factory Modified, No Crew Costs.....	189.78	
26 24 19 00-0704	EA	Blank Space For Future Expansion, Size 4 Factory Modified, No Crew Costs.....	189.78	
26 24 19 00-0705	EA	Blank Space For Future Expansion, Size 5 Factory Modified, No Crew Costs.....	377.54	
26 24 19 00-0706	Structure Combination Of Starters To 72" High (26 24 19 00-0687)			
26 24 19 00-0707	EA	Structure Combination Of Starters To 72" High.....	3,097.79	531.46
26 24 19 00-0708	Motor Control Center Basic Distribution Section (26 24 19 00-0484)			



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0709 EA 20" Wide Basic Section With Vertical Wireway <i>For 20" Cabinet Depth, Add</i> <i>For 800 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,600 Amperes, Tin Plated Copper Bus, Add</i> <i>For 2,000 Amperes, Tin Plated Copper Bus, Add</i> <i>For NEMA 1 With Gasket, Add</i> <i>For NEMA 12, Add</i> <i>For 600 Amperes, Tin Plated Copper Vertical, Add</i>	5,102.48 108.00 182.00 334.00 402.00 506.00 97.00 245.00 210.00	1,384.05
26 24 19 00-0710 EA 25"-35" Wide Basic Section (No Vertical Wireway) <i>For 20" Cabinet Depth, Add</i> <i>For 800 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,600 Amperes, Tin Plated Copper Bus, Add</i> <i>For 2,000 Amperes, Tin Plated Copper Bus, Add</i> <i>For NEMA 1 With Gasket, Add</i> <i>For NEMA 12, Add</i> <i>For 600 Amperes, Tin Plated Copper Vertical, Add</i>	5,102.48 108.00 182.00 334.00 402.00 506.00 97.00 245.00 210.00	1,384.05
26 24 19 00-0711 EA 25" Wide Basic Section With 9" Wide Vertical Wireway <i>For 20" Cabinet Depth, Add</i> <i>For 800 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,600 Amperes, Tin Plated Copper Bus, Add</i> <i>For 2,000 Amperes, Tin Plated Copper Bus, Add</i> <i>For NEMA 1 With Gasket, Add</i> <i>For NEMA 12, Add</i> <i>For 600 Amperes, Tin Plated Copper Vertical, Add</i>	5,652.54 108.00 182.00 334.00 402.00 506.00 97.00 245.00 210.00	1,384.05
26 24 19 00-0712 EA Corner Section <i>For 20" Cabinet Depth, Add</i> <i>For 800 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,600 Amperes, Tin Plated Copper Bus, Add</i> <i>For 2,000 Amperes, Tin Plated Copper Bus, Add</i> <i>For NEMA 1 With Gasket, Add</i> <i>For NEMA 12, Add</i> <i>For 600 Amperes, Tin Plated Copper Vertical, Add</i>	5,652.54 108.00 182.00 334.00 402.00 506.00 97.00 245.00 210.00	1,384.05
26 24 19 00-0713 Motor Control Center Starters With HMCP Circuit Breaker <small>(26 24 19 00-0484)</small> Note: Includes door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.		
26 24 19 00-0714 FVNR Starters With HMCP Circuit Breaker <small>(26 24 19 00-0713)</small>		
26 24 19 00-0715 EA Class 1, Type A, Size 1 FVNR Starters With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,345.86 116.63	194.39
26 24 19 00-0716 EA Class 1, Type A, Size 2 FVNR Starters With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,498.10 129.35	215.59
26 24 19 00-0717 EA Class 1, Type A, Size 3 FVNR Starters With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,608.41 173.91	289.82
26 24 19 00-0718 EA Class 1, Type A, Size 4 FVNR Starters With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,788.47 229.30	382.11
26 24 19 00-0719 EA Class 1, Type A, Size 5 FVNR Starters With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,688.70 286.55	477.54
26 24 19 00-0720 EA Class 1, Type A, Size 6 FVNR Starters With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,406.85 286.55	477.54
26 24 19 00-0721 EA Class 1, Type B, Size 1 FVNR Starters With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,362.52 100.87	168.14
26 24 19 00-0722 EA Class 1, Type B, Size 2 FVNR Starters With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,536.73 113.60	189.34
26 24 19 00-0723 EA Class 1, Type B, Size 3 FVNR Starters With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,671.90 155.10	258.52
26 24 19 00-0724 EA Class 1, Type B, Size 4 FVNR Starters With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,795.12 210.26	350.40
26 24 19 00-0725 EA Class 1, Type B, Size 5 FVNR Starters With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,708.48 271.46	452.40
26 24 19 00-0726 EA Class 1, Type B, Size 6 FVNR Starters With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,552.72 271.46	452.40
26 24 19 00-0727 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <small>(26 24 19 00-0713)</small>		
26 24 19 00-0728 EA Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,164.63 145.93	243.27
26 24 19 00-0729 EA Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,659.53 161.48	269.11
26 24 19 00-0730 EA Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,393.84 217.01	361.71
26 24 19 00-0731 EA Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,577.99 286.88	478.15
26 24 19 00-0732 EA Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,720.67 358.94	598.21
26 24 19 00-0733 EA Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,203.42 126.02	210.04
26 24 19 00-0734 EA Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,721.08 142.10	236.80

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0735 EA Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	4,479.03	323.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	194.20	
26 24 19 00-0736 EA Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	7,603.46	438.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	262.97	
26 24 19 00-0737 EA Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	13,761.44	566.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	339.62	
26 24 19 00-0738 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <small>(26 24 19 00-0713)</small>		
26 24 19 00-0739 EA Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	2,374.94	243.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	145.93	
26 24 19 00-0740 EA Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	3,389.98	269.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	161.48	
26 24 19 00-0741 EA Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	6,416.95	361.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	217.01	
26 24 19 00-0742 EA Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	8,740.26	478.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	286.88	
26 24 19 00-0743 EA Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	17,569.21	598.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	358.94	
26 24 19 00-0744 EA Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	2,413.72	210.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	126.02	
26 24 19 00-0745 EA Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	3,451.53	236.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	142.10	
26 24 19 00-0746 EA Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	6,502.14	323.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	194.20	
26 24 19 00-0747 EA Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	8,765.73	438.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	262.97	
26 24 19 00-0748 EA Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	17,609.98	566.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	339.62	
26 24 19 00-0749 Motor Control Center Starters With Fusible Disconnect <small>(26 24 19 00-0484)</small>		
Note: Includes fuses, door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.		
26 24 19 00-0750 FVNR Starters With Fusible Disconnect <small>(26 24 19 00-0749)</small>		
26 24 19 00-0751 EA Class 1, Type A, Size 1 FVNR Starters With Fusible Disconnect.....	1,081.47	189.54
26 24 19 00-0752 EA Class 1, Type A, Size 2 FVNR Starters With Fusible Disconnect.....	1,408.29	257.60
26 24 19 00-0753 EA Class 1, Type A, Size 3 FVNR Starters With Fusible Disconnect.....	2,360.85	335.66
26 24 19 00-0754 EA Class 1, Type A, Size 4 FVNR Starters With Fusible Disconnect.....	3,993.51	472.79
26 24 19 00-0755 EA Class 1, Type A, Size 5 FVNR Starters With Fusible Disconnect.....	8,070.64	601.03
26 24 19 00-0756 EA Class 1, Type A, Size 6 FVNR Starters With Fusible Disconnect.....	20,582.24	601.03
26 24 19 00-0757 EA Class 1, Type B, Size 1 FVNR Starters With Fusible Disconnect.....	1,106.79	168.04
26 24 19 00-0758 EA Class 1, Type B, Size 2 FVNR Starters With Fusible Disconnect.....	1,445.74	230.74
26 24 19 00-0759 EA Class 1, Type B, Size 3 FVNR Starters With Fusible Disconnect.....	2,434.37	309.41
26 24 19 00-0760 EA Class 1, Type B, Size 4 FVNR Starters With Fusible Disconnect.....	4,013.32	447.65
26 24 19 00-0761 EA Class 1, Type B, Size 5 FVNR Starters With Fusible Disconnect.....	8,075.76	568.63
26 24 19 00-0762 EA Class 1, Type B, Size 6 FVNR Starters With Fusible Disconnect.....	20,713.54	568.63
26 24 19 00-0763 Two Speed 2-Winding (TS2W) With Fusible Disconnect <small>(26 24 19 00-0749)</small>		
26 24 19 00-0764 EA Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	1,875.16	237.31
26 24 19 00-0765 EA Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,613.84	322.02
26 24 19 00-0766 EA Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	4,057.75	419.37
26 24 19 00-0767 EA Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	8,544.41	592.66
26 24 19 00-0768 EA Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	13,937.96	693.54
26 24 19 00-0769 EA Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	1,924.88	210.04
26 24 19 00-0770 EA Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,672.40	288.20
26 24 19 00-0771 EA Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	4,154.65	387.16
26 24 19 00-0772 EA Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	8,581.38	558.52
26 24 19 00-0773 EA Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	13,964.06	654.06
26 24 19 00-0774 Two Speed 1-Winding (TS1W) With Fusible Disconnect <small>(26 24 19 00-0749)</small>		
26 24 19 00-0775 EA Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,192.01	237.31
26 24 19 00-0776 EA Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	3,355.51	322.02
26 24 19 00-0777 EA Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	6,101.89	419.37
26 24 19 00-0778 EA Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	8,970.62	592.66
26 24 19 00-0779 EA Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	17,004.17	693.54
26 24 19 00-0780 EA Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,242.67	210.04
26 24 19 00-0781 EA Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	3,414.06	288.20
26 24 19 00-0782 EA Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	6,198.79	387.16
26 24 19 00-0783 EA Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	9,007.59	558.52
26 24 19 00-0784 EA Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	17,030.27	654.06
26 24 19 00-0785 Tin Plated Copper Bus Bar And Ground Bus Bar Splice Kit <small>(26 24 19 00-0484)</small>		
Note: Per section. Labor is included in basic distribution section.		
26 24 19 00-0786 EA 600 Amperes, Horizontal Tin Plated Copper Bus Kit.....	238.41	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.59	
26 24 19 00-0787 EA 800 Amperes, Horizontal Tin Plated Copper Bus Kit.....	292.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0788 EA 1,200 Amperes, Horizontal Tin Plated Copper Bus Kit .....351.88 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 9.11		
26 24 19 00-0789 EA 1,600 Amperes, Horizontal Tin Plated Copper Bus Kit .....458.43 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 9.11		
26 24 19 00-0790 EA 2,000 Amperes, Horizontal Tin Plated Copper Bus Kit .....770.07 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 10.62		
26 24 19 00-0791 EA 1/4" x 2" Horizontal Tin Plated Copper Ground Bus Kit.....136.13 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 6.07		
26 24 19 00-0792 Disconnect Switch For Motor Control Centers (26 24 19 00-0484)		
26 24 19 00-0793 3 Pole Circuit Breaker Disconnect For Motor Control Center (26 24 19 00-0792) Note: Includes door, unit support pan, inverse time (Thermal Magnetic) circuit breaker, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0794 EA 150 Amperes Rating, 15 To 100 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....668.51		145.92
26 24 19 00-0795 EA 150 Amperes Rating, 125 To 150 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....1,117.48		161.57
26 24 19 00-0796 EA 225 Amperes Rating, 70 To 225 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....1,374.77		217.62
26 24 19 00-0797 EA 400 Amperes Rating, 125 To 400 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....2,239.62		286.79
26 24 19 00-0798 EA 600 Amperes Rating, 300 To 600 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....3,792.81		358.48
26 24 19 00-0799 EA 800 Amperes Rating, 400 To 800 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....4,298.44		358.48
26 24 19 00-0800 EA 1,200 Amperes Rating, 600 To 1,200 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....8,693.55		448.86
26 24 19 00-0801 Fusible Disconnect Switch For Motor Control Center (26 24 19 00-0792) Note: Includes door, unit support pan, fuses and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0802 EA 30 Amperes Switch Rating, Fusible Disconnect Switch With 30 Amperes Fuse Clips.....746.42		141.88
26 24 19 00-0803 EA 60 Amperes Switch Rating, Fusible Disconnect Switch With 60 Amperes Fuse Clips.....877.50		193.38
26 24 19 00-0804 EA 100 Amperes Switch Rating, Fusible Disconnect Switch With 100 Amperes Fuse Clips.....1,204.23		247.41
26 24 19 00-0805 EA 200 Amperes Switch Rating, Fusible Disconnect Switch With 200 Amperes Fuse Clips.....2,255.36		354.44
26 24 19 00-0806 EA 400 Amperes Switch Rating, Fusible Disconnect Switch With 400 Amperes Fuse Clips.....4,023.90		450.78
26 24 19 00-0807 EA 600 Amperes Switch Rating, Fusible Disconnect Switch With 600 Amperes Fuse Clips.....9,295.49		450.78
26 24 19 00-0808 EA 800 Amperes Switch Rating, Fusible Disconnect Switch With 800 Amperes Fuse Clips.....11,490.73		563.48
26 24 19 00-0809 EA 1,200 Amperes Switch Rating, Fusible Disconnect Switch With 1,200 Amperes Fuse Clips.....17,009.07		563.48
26 24 19 00-0810 Control Circuit Transformer (26 24 19 00-0484)		
26 24 19 00-0811 EA Control Circuit Transformer, Size 1 Factory Installed.....66.78		
26 24 19 00-0812 EA Control Circuit Transformer, Size 2 Factory Installed.....66.78		
26 24 19 00-0813 EA Control Circuit Transformer, Size 3 Factory Installed.....128.61		
26 24 19 00-0814 EA Control Circuit Transformer, Size 4 Factory Installed.....128.61		
26 24 19 00-0815 EA Control Circuit Transformer, Size 5 Factory Installed.....178.67		
26 24 19 00-0816 EA Control Circuit Fuse And Holder Small Dim, Dual Element Time Delay.....48.20		11.43
26 24 19 00-0817 Cover Mounted Control Devices (26 24 19 00-0484)		
26 24 19 00-0818 EA Control Device, 2 Unit Push Button Station Cover Mounted .....108.85 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 12.62		20.19
26 24 19 00-0819 EA Control Device, 2-3 Unit Selector Switch Cover Mounted .....121.84 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 15.78		20.19
26 24 19 00-0820 EA Control Device, Pilot Light Cover Mounted .....103.24 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 9.45		20.19
26 24 19 00-0821 EA Control Device, Hand-Off-Auto Switch Cover Mounted With Pilot Light.....276.46 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 41.39		68.66
26 24 19 00-0822 EA Auxiliary Contact Add Per Starter .....339.79 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 15.70		26.15
26 24 19 00-0823 Extra Interlocks (26 24 19 00-0484) Note: Per contact.		
26 24 19 00-0824 EA Extra Interlocks, Class I, Type A Per Contact .....70.60 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 9.45		13.12
26 24 19 00-0825 EA Extra Interlocks, Class I, Type B Per Contact .....98.52 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 9.45		13.12
26 24 19 00-0826 EA Extra Interlocks, Class I, Type C Per Contact .....110.05 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 7.89		13.12
26 24 19 00-0827 EA Extra Interlocks, Class II, Type B Per Contact .....99.20 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 6.31		13.12
26 24 19 00-0828 EA Extra Interlocks, Class II, Type C Per Contact .....105.22 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.76		13.12
26 24 19 00-0829 Special Cabinet Provisions (26 24 19 00-0484)		
26 24 19 00-0830 EA Provisions For Bus Duct Entrance Special Cabinet Provisions.....835.97		
26 24 19 00-0831 Nameplate Requirements (26 24 19 00-0484)		
26 24 19 00-0832 EA Special Cabinet Nameplate Requirements .....29.68		
26 24 19 00-0833 Auxiliary Relays (26 24 19 00-0484)		

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0834 EA Industrial Control Relay, 10 Amperes, Class A600 With 2 Contacts <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	160.51 15.18	25.30
26 24 19 00-0835 EA Timing Relay, Solid State, DPDT 0.1-10 Sec Variable, Off-Delay..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	151.58 15.18	22.76
26 24 19 00-0836 EA General Purpose Control Relay, 240 Volt AC, 10 Amperes, With Base..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.94 15.18	22.76
26 24 19 00-0837 Motor Control Center Accessories <small>(26 24 19 00-0484)</small>		
26 24 19 00-0838 Lighting Transformer With Circuit Breaker <small>(26 24 19 00-0837)</small> Note: For 240 V, 480 V, or 600 V primary. Includes door, unit support pan, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure for MCC only.		
26 24 19 00-0839 EA 1 Phase, 5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	4,808.82	325.31
26 24 19 00-0840 EA 1 Phase, 7.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	4,999.74	338.32
26 24 19 00-0841 EA 1 Phase, 10 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	5,470.86	364.34
26 24 19 00-0842 EA 1 Phase, 15 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	6,883.79	390.37
26 24 19 00-0843 EA 1 Phase, 25 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	9,266.00	416.39
26 24 19 00-0844 EA 1 Phase, 37.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	11,386.51	468.43
26 24 19 00-0845 EA 1 Phase, 50 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	14,970.39	520.49
26 24 19 00-0846 EA 3 Phase, 10 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	8,732.10	429.40
26 24 19 00-0847 EA 3 Phase, 15 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	9,486.80	468.43
26 24 19 00-0848 EA 3 Phase, 25 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	10,851.68	520.49
26 24 19 00-0849 EA 3 Phase, 30 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	11,510.54	572.54
26 24 19 00-0850 EA 3 Phase, 37.5 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	13,893.85	624.58
26 24 19 00-0851 EA 3 Phase, 45 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	14,332.87	676.64
26 24 19 00-0852 Bolt-On Lighting Panel <small>(26 24 19 00-0837)</small> Note: Includes door, T-handle, unit support pan, neutral bar (10 KA IC RMS), and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. For MCC only.		
26 24 19 00-0853 EA 18 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	1,957.88	525.50
26 24 19 00-0854 EA 30 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	3,035.09	914.69
26 24 19 00-0855 EA 42 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	4,029.42	1,237.52
26 24 19 00-0856 EA 18 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	2,044.05	568.63
26 24 19 00-0857 EA 30 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	2,996.18	895.20
26 24 19 00-0858 EA 42 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	4,184.11	1,314.88
26 24 19 00-0859 EA 18 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	3,355.63	609.52
26 24 19 00-0860 EA 30 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	4,437.16	978.51
26 24 19 00-0861 EA 42 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	5,527.24	1,314.88
26 24 19 00-0862 EA 18 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	3,451.50	657.38
26 24 19 00-0863 EA 30 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	4,437.16	978.51
26 24 19 00-0864 EA 42 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	5,612.06	1,357.29
26 24 19 00-0865 Factory Installed Bolt-On Branch Circuit Breaker <small>(26 24 19 00-0837)</small> Note: For MCC lighting panel only.		
26 24 19 00-0866 EA 15 To 30 Amperes, 1 Pole, Bolt-On Branch Circuit Breaker.....	15.11	
26 24 19 00-0867 EA 15 To 30 Amperes, 1 Pole (GFI) Bolt-On Branch Circuit Breaker.....	257.63	
26 24 19 00-0868 EA 15 To 50 Amperes, 2 Pole, Bolt-On Branch Circuit Breaker.....	29.53	
26 24 19 00-0869 EA 60 To 100 Amperes, 2 Pole, Bolt-On Branch Circuit Breaker.....	67.99	
26 24 19 00-0870 EA 15 To 50 Amperes, 3 Pole, Bolt-On Branch Circuit Breaker.....	79.66	
26 24 19 00-0871 EA 60 To 100 Amperes, 3 Pole, Bolt-On Branch Circuit Breaker.....	120.86	
26 24 19 00-0872 Blank Unit Door (BUD) <small>(26 24 19 00-0837)</small> Note: With NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Factory installed.		
26 24 19 00-0873 EA 6" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	68.70	
26 24 19 00-0874 EA 12" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	82.44	
26 24 19 00-0875 EA 18" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	123.66	
26 24 19 00-0876 EA 24" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	164.89	
26 24 19 00-0877 EA 30" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	247.33	
26 24 19 00-0878 EA 48" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	288.55	
26 24 19 00-0879 EA 72" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	329.77	
26 25 Enclosed Bus Assemblies <small>(26 20)</small>		
26 25 13 Low-Voltage Busways <small>(26 25)</small>		
26 25 13 00-0001 Plug-In Bus Duct <small>(26 25 13)</small> Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.		
26 25 13 00-0002 600 Volt, 3-Phase, 3-Wire, Copper Conductors <small>(26 25 13 00-0001)</small>		
26 25 13 00-0003 LF 225 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	485.86	30.29
<i>For Up To 25, Add</i>	121.47	
<i>For >25 To 50, Add</i>	72.88	
<i>For >50 To 100, Add</i>	36.44	
26 25 13 00-0004 LF 400 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	709.43	30.29
<i>For Up To 25, Add</i>	177.36	
<i>For >25 To 50, Add</i>	106.41	
<i>For >50 To 100, Add</i>	53.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0005 LF 600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	907.69	40.40
<i>For Up To 25, Add</i>	226.92	
<i>For >25 To 50, Add</i>	136.15	
<i>For >50 To 100, Add</i>	68.08	
26 25 13 00-0006 LF 800 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,279.84	40.40
<i>For Up To 25, Add</i>	319.96	
<i>For >25 To 50, Add</i>	191.98	
<i>For >50 To 100, Add</i>	95.99	
26 25 13 00-0007 LF 1,000 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,348.46	50.49
<i>For Up To 25, Add</i>	337.12	
<i>For >25 To 50, Add</i>	202.27	
<i>For >50 To 100, Add</i>	101.13	
26 25 13 00-0008 LF 1,350 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,910.41	50.49
<i>For Up To 25, Add</i>	477.60	
<i>For >25 To 50, Add</i>	286.56	
<i>For >50 To 100, Add</i>	143.28	
26 25 13 00-0009 LF 1,600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	2,251.59	53.01
<i>For Up To 25, Add</i>	562.90	
<i>For >25 To 50, Add</i>	337.74	
<i>For >50 To 100, Add</i>	168.87	
26 25 13 00-0010 LF 2,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	2,765.13	54.53
<i>For Up To 25, Add</i>	691.28	
<i>For >25 To 50, Add</i>	414.77	
<i>For >50 To 100, Add</i>	207.38	
26 25 13 00-0011 LF 2,500 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	3,435.54	57.56
<i>For Up To 25, Add</i>	858.89	
<i>For >25 To 50, Add</i>	515.33	
<i>For >50 To 100, Add</i>	257.67	
26 25 13 00-0012 LF 3,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	3,965.26	67.15
<i>For Up To 25, Add</i>	991.32	
<i>For >25 To 50, Add</i>	594.79	
<i>For >50 To 100, Add</i>	297.39	
26 25 13 00-0013 LF 4,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	4,599.45	73.21
<i>For Up To 25, Add</i>	1,149.86	
<i>For >25 To 50, Add</i>	689.92	
<i>For >50 To 100, Add</i>	344.96	
26 25 13 00-0014 277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors <small>(26 25 13 00-0001)</small>		
26 25 13 00-0015 LF 225 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	846.17	30.29
<i>For Up To 25, Add</i>	211.54	
<i>For >25 To 50, Add</i>	126.93	
<i>For >50 To 100, Add</i>	63.46	
26 25 13 00-0016 LF 400 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	1,242.22	30.29
<i>For Up To 25, Add</i>	310.56	
<i>For >25 To 50, Add</i>	186.33	
<i>For >50 To 100, Add</i>	93.17	
26 25 13 00-0017 LF 600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	1,404.67	40.40
<i>For Up To 25, Add</i>	351.17	
<i>For >25 To 50, Add</i>	210.70	
<i>For >50 To 100, Add</i>	105.35	
26 25 13 00-0018 LF 800 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	1,800.33	40.40
<i>For Up To 25, Add</i>	450.08	
<i>For >25 To 50, Add</i>	270.05	
<i>For >50 To 100, Add</i>	135.02	
26 25 13 00-0019 LF 1,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	2,208.31	50.49
<i>For Up To 25, Add</i>	552.08	
<i>For >25 To 50, Add</i>	331.25	
<i>For >50 To 100, Add</i>	165.62	
26 25 13 00-0020 LF 1,350 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	2,886.40	50.49
<i>For Up To 25, Add</i>	721.60	
<i>For >25 To 50, Add</i>	432.96	
<i>For >50 To 100, Add</i>	216.48	
26 25 13 00-0021 LF 1,600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	3,749.57	52.31
<i>For Up To 25, Add</i>	937.39	
<i>For >25 To 50, Add</i>	562.44	
<i>For >50 To 100, Add</i>	281.22	
26 25 13 00-0022 LF 2,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	4,535.77	54.53
<i>For Up To 25, Add</i>	1,133.94	
<i>For >25 To 50, Add</i>	680.37	
<i>For >50 To 100, Add</i>	340.18	
26 25 13 00-0023 LF 2,500 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	5,649.04	57.05
<i>For Up To 25, Add</i>	1,412.26	
<i>For >25 To 50, Add</i>	847.36	
<i>For >50 To 100, Add</i>	423.68	
26 25 13 00-0024 LF 3,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	6,519.35	67.15
<i>For Up To 25, Add</i>	1,629.84	
<i>For >25 To 50, Add</i>	977.90	
<i>For >50 To 100, Add</i>	488.95	
26 25 13 00-0025 LF 4,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	7,568.12	73.21
<i>For Up To 25, Add</i>	1,892.03	
<i>For >25 To 50, Add</i>	1,135.22	
<i>For >50 To 100, Add</i>	567.61	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 25 Enclosed Bus Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0026 Cable Tap Boxes <small>(26 25 13 00-0001)</small>		
26 25 13 00-0027 600 Volt, 3-Phase, 3-Wire, Copper Conductors <small>(26 25 13 00-0026)</small>		
26 25 13 00-0028 EA 225 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire.....	4,279.33	141.38
26 25 13 00-0029 EA 400 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire.....	4,366.37	141.38
26 25 13 00-0030 EA 600 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire.....	4,685.65	191.87
26 25 13 00-0031 EA 800 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire.....	4,947.87	191.87
26 25 13 00-0032 EA 1,000 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire.....	5,278.45	252.45
26 25 13 00-0033 EA 1,350 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire.....	5,772.76	252.45
26 25 13 00-0034 277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors <small>(26 25 13 00-0026)</small>		
26 25 13 00-0035 EA 225 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire.....	4,366.37	277.70
26 25 13 00-0036 EA 400 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire.....	4,697.23	277.70
26 25 13 00-0037 EA 600 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire.....	4,970.01	378.67
26 25 13 00-0038 EA 800 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire.....	5,576.59	378.67
26 25 13 00-0039 EA 1,000 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire.....	5,815.40	504.91
26 25 13 00-0040 EA 1,350 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire.....	6,634.04	504.91
26 25 13 00-0041 Bus Duct Plug-In Circuit Breaker <small>(26 25 13 00-0001)</small>		
26 25 13 00-0042 240 Volt, 3-Phase <small>(26 25 13 00-0041)</small>		
26 25 13 00-0043 EA 60 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker	1,844.08	100.98
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.24	
26 25 13 00-0044 EA 100 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker	3,834.85	100.98
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	70.91	
26 25 13 00-0045 600 Volt, 3-Phase <small>(26 25 13 00-0041)</small>		
26 25 13 00-0046 EA 60 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker	3,782.61	100.98
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.24	
26 25 13 00-0047 EA 100 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker	4,902.09	100.98
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	70.91	
26 25 13 00-0048 120/208 Volt, 3-Phase, 4-Wire <small>(26 25 13 00-0041)</small>		
26 25 13 00-0049 EA 60 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker	2,125.70	121.18
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.11	
26 25 13 00-0050 EA 100 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker	2,524.55	121.18
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.89	
26 25 13 00-0051 277/480 Volt, 3-Phase, 4-Wire <small>(26 25 13 00-0041)</small>		
26 25 13 00-0052 EA 60 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	2,471.96	121.18
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.11	
26 25 13 00-0053 EA 100 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	3,880.48	121.18
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.89	
26 25 13 00-0054 EA 225 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	5,386.04	419.07
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	181.62	
26 25 13 00-0055 EA 400 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	13,021.27	419.07
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	394.46	
26 25 13 00-0056 EA 600 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	14,087.39	1,211.78
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	548.81	
26 25 13 00-0057 EA 800 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	16,413.96	1,211.78
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	970.97	
26 25 13 00-0058 Bus Duct Plug-In Fusible Switch <small>(26 25 13 00-0001)</small>		
26 25 13 00-0059 240 Volt, 3-Pole, 3-Fuse <small>(26 25 13 00-0058)</small>		
26 25 13 00-0060 EA 30 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,839.32	100.98
26 25 13 00-0061 EA 60 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,995.50	100.98
26 25 13 00-0062 EA 100 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,792.71	121.18
26 25 13 00-0063 EA 200 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	4,684.11	242.35
26 25 13 00-0064 EA 400 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	12,050.84	545.30
26 25 13 00-0065 EA 600 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	17,622.53	949.22
26 25 13 00-0066 600 Volt, 3-Pole, 3-Fuse <small>(26 25 13 00-0058)</small>		
26 25 13 00-0067 EA 30 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,942.94	111.07
26 25 13 00-0068 EA 60 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,093.63	111.07
26 25 13 00-0069 EA 100 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,839.59	111.07
26 25 13 00-0070 EA 200 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	4,841.06	232.26
26 25 13 00-0071 EA 400 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	12,023.87	525.10
26 25 13 00-0072 EA 600 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	17,813.78	1,009.81
26 25 13 00-0073 EA 800 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	30,078.55	1,312.75
26 25 13 00-0074 120/208 Volt, 4-pole, 3 Fuse <small>(26 25 13 00-0058)</small>		
26 25 13 00-0075 EA 30 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,139.13	131.28



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0076 EA 60 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,261.03	131.28
26 25 13 00-0077 EA 100 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	3,061.50	131.28
26 25 13 00-0078 EA 200 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	5,200.65	272.65
26 25 13 00-0079 EA 400 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	13,153.68	605.89
26 25 13 00-0080 EA 600 AAmperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	19,053.19	929.02
26 25 13 00-0081 277/480 Volt, 4-pole, 3-Fuse <small>(26 25 13 00-0058)</small>		
26 25 13 00-0082 EA 30 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,218.76	131.28
26 25 13 00-0083 EA 60 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,340.66	111.39
26 25 13 00-0084 EA 100 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	3,288.63	151.47
26 25 13 00-0085 EA 200 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	5,441.24	272.65
26 25 13 00-0086 EA 400 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	13,153.68	605.89
26 25 13 00-0087 EA 600 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	19,053.19	929.02
26 25 13 00-0088 EA 800 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	30,812.19	1,231.97
26 25 16 Low-Voltage Cablebus Systems <small>(26 25)</small>		
26 25 16 00-0001 Feeder Bus Duct <small>(26 25 16)</small>		
Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.		
26 25 16 00-0002 600 Volt, 3 Phase, 3 Wire, Ventilated Low Impedance <small>(26 25 16 00-0001)</small>		
Note: Copper conductors.		
26 25 16 00-0003 LF 800 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	1,577.55	42.41
For Up To 25, Add	394.39	
For >25 To 50, Add	236.63	
For >50 To 100, Add	118.32	
26 25 16 00-0004 LF 1,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	1,592.73	42.41
For Up To 25, Add	398.18	
For >25 To 50, Add	238.91	
For >50 To 100, Add	119.45	
26 25 16 00-0005 LF 1,350 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	2,105.33	42.41
For Up To 25, Add	526.33	
For >25 To 50, Add	315.80	
For >50 To 100, Add	157.90	
26 25 16 00-0006 LF 1,600 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	2,541.65	42.41
For Up To 25, Add	635.41	
For >25 To 50, Add	381.25	
For >50 To 100, Add	190.62	
26 25 16 00-0007 LF 2,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	3,115.30	42.41
For Up To 25, Add	778.83	
For >25 To 50, Add	467.30	
For >50 To 100, Add	233.65	
26 25 16 00-0008 LF 3,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	4,246.29	100.98
For Up To 25, Add	1,061.57	
For >25 To 50, Add	636.94	
For >50 To 100, Add	318.47	
26 25 16 00-0009 LF 4,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	5,896.24	100.98
For Up To 25, Add	1,474.06	
For >25 To 50, Add	884.44	
For >50 To 100, Add	442.22	
26 25 16 00-0010 LF 5,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	6,974.98	100.98
For Up To 25, Add	1,743.75	
For >25 To 50, Add	1,046.25	
For >50 To 100, Add	523.12	
26 25 16 00-0011 LF 6,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	8,611.55	100.98
For Up To 25, Add	2,152.89	
For >25 To 50, Add	1,291.73	
For >50 To 100, Add	645.87	
26 25 16 00-0012 277/480 Volt, 3 Phase, 4 Wire, Half Neutral, Ventilated <small>(26 25 16 00-0001)</small>		
Note: Low impedance, copper conductors.		
26 25 16 00-0013 LF 800 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	1,821.46	45.44
For Up To 25, Add	455.37	
For >25 To 50, Add	273.22	
For >50 To 100, Add	136.61	
26 25 16 00-0014 LF 1,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	1,839.79	45.44
For Up To 25, Add	459.95	
For >25 To 50, Add	275.97	
For >50 To 100, Add	137.98	
26 25 16 00-0015 LF 1,350 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	2,385.92	45.44
For Up To 25, Add	596.48	
For >25 To 50, Add	357.89	
For >50 To 100, Add	178.94	
26 25 16 00-0016 LF 1,600 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	2,829.74	45.44
For Up To 25, Add	707.44	
For >25 To 50, Add	424.46	
For >50 To 100, Add	212.23	
26 25 16 00-0017 LF 2,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	3,425.17	45.44
For Up To 25, Add	856.29	
For >25 To 50, Add	513.78	
For >50 To 100, Add	256.89	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 25 Enclosed Bus Assemblies



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 16 00-0018 LF 3,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	5,286.62	77.76
For Up To 25, Add	1,321.66	
For >25 To 50, Add	792.99	
For >50 To 100, Add	396.50	
26 25 16 00-0019 LF 4,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	6,634.23	77.76
For Up To 25, Add	1,658.56	
For >25 To 50, Add	995.13	
For >50 To 100, Add	497.57	
26 25 16 00-0020 LF 5,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	7,845.50	144.40
For Up To 25, Add	1,961.38	
For >25 To 50, Add	1,176.83	
For >50 To 100, Add	588.41	
26 25 16 00-0021 LF 6,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	9,703.13	144.40
For Up To 25, Add	2,425.78	
For >25 To 50, Add	1,455.47	
For >50 To 100, Add	727.73	

26 27 Low-Voltage Distribution Equipment (26 20)

26 27 13 Electricity Metering (26 27)

26 27 13 00-0001 Revenue Metering (26 27 13)

26 27 13 00-0002 Meter Socket Base (26 27 13 00-0001)

Note: NEMA 3R.

26 27 13 00-0003 EA 100 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass.....	224.56	65.63
26 27 13 00-0004 EA 100 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass.....	237.78	65.63
26 27 13 00-0005 EA 200 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass.....	306.90	80.78
26 27 13 00-0006 EA 200 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass.....	310.65	80.78
26 27 13 00-0007 EA 200 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release.....	594.35	90.88
26 27 13 00-0008 EA 320 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release.....	788.52	100.98
26 27 13 00-0009 EA 400 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release.....	1,935.16	111.07
26 27 13 00-0010 EA Combination Motor And Current Transformer Cabinet, 15 To 30 Amperes, 13 Terminal, Underground, With Test Switch And Transformer, Socket Base	2,257.95	504.91

26 27 13 00-0011 Meter Device (26 27 13 00-0001)

Note: Direct read, with 15 minute demand.

26 27 13 00-0012 EA 100 To 200 Amperes, 120 Volt, Or 240 Volt, 1 Phase, KWH Meter	219.24	20.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.42	
26 27 13 00-0013 EA 200 Amperes, 120 Volt, Or 240 Volt, 3 Phase, KWH Meter	614.05	20.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.65	

26 27 13 00-0014 Current Transformer Enclosure (26 27 13 00-0001)

26 27 13 00-0015 EA 18" x 24" x 9", NEMA 3R, Screwed Cover, Current Transformer Enclosure	466.08	131.28
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26 27 13 00-0016 120/240 Volt Meter Center And Main Breaker, Indoor Housing (26 27 13 00-0001)

26 27 13 00-0017 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max., 2 Pole (26 27 13 00-0016)

26 27 13 00-0018 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max.....	852.97	63.12
26 27 13 00-0019 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max.....	1,121.90	75.73
26 27 13 00-0020 EA 5 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max.....	1,389.39	88.35
26 27 13 00-0021 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max.....	1,609.87	100.98
26 27 13 00-0022 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max.....	2,093.96	113.60
26 27 13 00-0023 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max.....	2,261.70	126.22
26 27 13 00-0024 EA 10 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max.....	2,639.95	151.47

26 27 13 00-0025 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max., 2 Pole (26 27 13 00-0016)

26 27 13 00-0026 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max.....	1,565.48	63.12
26 27 13 00-0027 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max.....	2,060.98	75.73
26 27 13 00-0028 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max.....	2,838.24	100.98
26 27 13 00-0029 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max.....	3,148.47	113.60
26 27 13 00-0030 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max.....	3,957.46	126.22

**26 27 13 00-0031 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity,
2 Pole** (26 27 13 00-0016)

26 27 13 00-0032 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,305.31	88.35
26 27 13 00-0033 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,712.47	100.98
26 27 13 00-0034 EA 5 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,093.96	113.60
26 27 13 00-0035 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,461.20	126.22
26 27 13 00-0036 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,099.21	138.85
26 27 13 00-0037 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,252.71	151.47
26 27 13 00-0038 EA 10 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,029.94	176.72

**26 27 13 00-0039 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting
Capacity, 2 Pole** (26 27 13 00-0016)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0040 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,014.96	88.35
26 27 13 00-0041 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,638.72	100.98
26 27 13 00-0042 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,715.21	126.22
26 27 13 00-0043 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,982.71	138.85
26 27 13 00-0044 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,090.93	151.47
26 27 13 00-0045 120/208 Volt Meter Center And Main Breaker, Indoor Housing (26 27 13 00-0001)		
26 27 13 00-0046 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max., 2 Pole (26 27 13 00-0045)		
26 27 13 00-0047 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	929.52	75.73
26 27 13 00-0048 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,214.11	88.35
26 27 13 00-0049 EA 5 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,497.30	100.98
26 27 13 00-0050 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,737.71	113.60
26 27 13 00-0051 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	2,133.45	126.22
26 27 13 00-0052 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	2,301.20	138.85
26 27 13 00-0053 EA 10 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max.....	2,836.20	164.10
26 27 13 00-0054 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0045)		
26 27 13 00-0055 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,647.73	75.73
26 27 13 00-0056 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,171.73	88.35
26 27 13 00-0057 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,134.22	113.60
26 27 13 00-0058 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,444.46	126.22
26 27 13 00-0059 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,167.99	138.85
26 27 13 00-0060 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0045)		
26 27 13 00-0061 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,381.88	100.98
26 27 13 00-0062 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,794.73	113.60
26 27 13 00-0063 EA 5 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,218.98	126.22
26 27 13 00-0064 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,586.23	138.85
26 27 13 00-0065 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,252.75	151.47
26 27 13 00-0066 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,406.21	164.10
26 27 13 00-0067 EA 10 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,240.47	189.34
26 27 13 00-0068 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0045)		
26 27 13 00-0069 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,111.48	100.98
26 27 13 00-0070 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,777.98	113.60
26 27 13 00-0071 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,982.74	138.85
26 27 13 00-0072 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,164.71	151.47
26 27 13 00-0073 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,287.21	164.10
26 27 13 00-0074 120/240 Volt Meter Center And Main Breaker, NEMA 3R Housing (26 27 13 00-0001)		
26 27 13 00-0075 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0074)		
26 27 13 00-0076 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	852.97	63.12
26 27 13 00-0077 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,121.90	75.73
26 27 13 00-0078 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,609.87	100.98
26 27 13 00-0079 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,093.96	113.60
26 27 13 00-0080 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,589.45	126.22
26 27 13 00-0081 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0074)		
26 27 13 00-0082 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,565.47	63.12
26 27 13 00-0083 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,060.97	75.73
26 27 13 00-0084 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,980.73	100.98
26 27 13 00-0085 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,290.97	113.60
26 27 13 00-0086 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,957.46	126.22
26 27 13 00-0087 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0074)		
26 27 13 00-0088 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,305.31	88.35
26 27 13 00-0089 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,712.47	100.98
26 27 13 00-0090 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,461.20	126.22
26 27 13 00-0091 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,099.21	138.85
26 27 13 00-0092 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,252.71	151.47

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 27	Low-Voltage Distribution Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0093	1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0074)</small>	
26 27 13 00-0094 EA	3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,014.98 88.35
26 27 13 00-0095 EA	4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,638.72 100.98
26 27 13 00-0096 EA	6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,715.21 126.22
26 27 13 00-0097 EA	7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,982.71 138.85
26 27 13 00-0098 EA	8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,090.96 151.47
26 27 13 00-0099	120/208 Volt Meter Center And Main Breaker, NEMA 3R Housing <small>(26 27 13 00-0001)</small>	
26 27 13 00-0100	800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0099)</small>	
26 27 13 00-0101 EA	3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	929.52 75.73
26 27 13 00-0102 EA	4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,214.11 88.35
26 27 13 00-0103 EA	6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,737.71 113.60
26 27 13 00-0104 EA	7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,275.95 126.22
26 27 13 00-0105 EA	8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,586.20 138.85
26 27 13 00-0106	1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0099)</small>	
26 27 13 00-0107 EA	3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,647.72 75.73
26 27 13 00-0108 EA	4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,171.71 88.35
26 27 13 00-0109 EA	6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,991.72 113.60
26 27 13 00-0110 EA	7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,301.96 126.22
26 27 13 00-0111 EA	8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,167.96 138.85
26 27 13 00-0112	800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0099)</small>	
26 27 13 00-0113 EA	3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,381.87 100.98
26 27 13 00-0114 EA	4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,794.71 113.60
26 27 13 00-0115 EA	6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,586.20 138.85
26 27 13 00-0116 EA	7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,252.71 151.47
26 27 13 00-0117 EA	8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,406.21 164.10
26 27 13 00-0118	1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0099)</small>	
26 27 13 00-0119 EA	3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,111.47 100.98
26 27 13 00-0120 EA	4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,777.96 113.60
26 27 13 00-0121 EA	6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,982.71 138.85
26 27 13 00-0122 EA	7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,164.71 151.47
26 27 13 00-0123 EA	8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,287.21 164.10
26 27 13 00-0124	Watt/Hour Meters <small>(26 27 13)</small>	
26 27 13 00-0125 EA	Single Phase M-90 Meter, Socket, NEMA 3R Enclosure	911.33 60.59
26 27 13 00-0126 EA	Three Phase M-90 Meter/Main Breaker Combination With Socket, NEMA 3R Enclosure	2,762.38 121.18
26 27 13 00-0127 EA	Three Phase M-90 Meter In Line Secondary With Socket, NEMA 3R Enclosure	1,470.23 90.88
26 27 13 00-0128 EA	Three Phase M-90 Meter, Primary Side Transformer Mount With Socket Totally Enclosed, NEMA 3R Enclosure	1,795.67 90.88
26 27 13 00-0129 EA	Three Phase M-90 Meter, Primary Side Pole Mount With Socket, NEMA 3R Enclosure	1,518.03 90.88
26 27 13 00-0130 EA	C.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure	1,026.51 83.81
26 27 13 00-0131 EA	P.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure	1,755.51 151.47
26 27 13 00-0132	Watt/Hour Meter Systems <small>(26 27 13)</small>	
	Note: Includes NEMA 3R enclosure with C.T. and NEMA 3R C.T. enclosure. systems with main breakers include an additional NEMA 3R enclosure.	
26 27 13 00-0133	Watt/Hour Meter System Without Main Breaker <small>(26 27 13 00-0132)</small>	
26 27 13 00-0134 EA	400 Amperes System; 200 Amperes M-90 Meter And Enclosure	4,515.57 605.99
26 27 13 00-0135 EA	600 To 800 Amperes System; 200 Amperes M-90 Meter And Enclosure	5,283.62 605.99
26 27 13 00-0136	Watt/Hour Meter System With Main Breaker <small>(26 27 13 00-0132)</small>	
26 27 13 00-0137 EA	400 Amperes System; 400 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	7,887.69 605.99
26 27 13 00-0138 EA	600 Amperes System; 600 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	9,562.45 605.99
26 27 13 00-0139 EA	800 Amperes System; 800 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	10,272.71 605.99
26 27 16	Electrical Cabinets and Enclosures <small>(26 27)</small>	
	Note: Can be used as enclosure or pull/junction boxes.	
26 27 16 00-0001	NEMA 1 Enclosures, Lockable <small>(26 27 16)</small>	
26 27 16 00-0002	Hinged Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0001)</small>	
26 27 16 00-0003	4" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0002)</small>	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0004 EA 6" x 4" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	62.92	20.19
26 27 16 00-0005 EA 6" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	70.48	22.22
26 27 16 00-0006 EA 8" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	78.11	24.23
26 27 16 00-0007 EA 8" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	91.19	28.28
26 27 16 00-0008 EA 10" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	99.22	30.29
26 27 16 00-0009 EA 10" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	107.83	32.32
26 27 16 00-0010 EA 12" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	107.54	32.32
26 27 16 00-0011 EA 12" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	116.35	34.33
26 27 16 00-0012 EA 12" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	125.57	36.36
26 27 16 00-0013 EA 16" x 12" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	163.09	48.47
26 27 16 00-0014 EA 16" x 16" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	197.79	58.57
26 27 16 00-0015 EA 18" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	188.08	56.55
26 27 16 00-0016 6" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0002)		
26 27 16 00-0017 EA 6" x 6" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	78.67	24.23
26 27 16 00-0018 EA 8" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	95.30	28.28
26 27 16 00-0019 EA 10" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	113.87	34.33
26 27 16 00-0020 EA 10" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	122.88	36.36
26 27 16 00-0021 EA 12" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	132.07	38.37
26 27 16 00-0022 EA 12" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	141.66	40.40
26 27 16 00-0023 EA 16" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	180.12	52.51
26 27 16 00-0024 EA 16" x 16" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	218.55	64.63
26 27 16 00-0025 EA 18" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	210.82	62.61
26 27 16 00-0026 EA 18" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	274.41	80.78
26 27 16 00-0027 EA 24" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	350.18	92.91
26 27 16 00-0028 EA 24" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	399.18	100.98
26 27 16 00-0029 EA 30" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	443.38	107.04
26 27 16 00-0030 EA 36" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	482.54	111.07
26 27 16 00-0031 EA 24-1/2" x 12-1/2" x 6-1/2", Hinged Cover, Galvanized Steel NEMA 1 Enclosure (Control Products MH3803L).....	322.54	80.78
26 27 16 00-0032 Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0001)		
26 27 16 00-0033 3" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0034 EA 4" x 4" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	43.00	14.14
26 27 16 00-0035 EA 6" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	61.46	20.19
26 27 16 00-0036 EA 8" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	68.46	22.22
26 27 16 00-0037 4" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0038 EA 4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	48.20	16.15
26 27 16 00-0039 EA 6" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	59.80	20.19
26 27 16 00-0040 EA 6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	66.69	22.22
26 27 16 00-0041 EA 8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	73.69	24.23
26 27 16 00-0042 EA 8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	85.98	28.28
26 27 16 00-0043 EA 10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	93.26	30.29
26 27 16 00-0044 EA 10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	100.90	32.32
26 27 16 00-0045 EA 12" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	100.64	32.32
26 27 16 00-0046 EA 12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	108.59	34.33
26 27 16 00-0047 EA 12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	116.73	36.36
26 27 16 00-0048 EA 16" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	152.99	48.47
26 27 16 00-0049 EA 16" x 16" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	189.74	60.59
26 27 16 00-0050 EA 18" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	176.17	56.55
26 27 16 00-0051 EA 18" x 18" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	228.02	72.70
26 27 16 00-0052 EA 24" x 24" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	324.72	90.88
26 27 16 00-0053 6" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0054 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	74.05	24.23
26 27 16 00-0055 EA 8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	81.53	26.26
26 27 16 00-0056 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	93.99	30.29
26 27 16 00-0057 EA 10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	106.70	34.33
26 27 16 00-0058 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	114.73	36.36
26 27 16 00-0059 EA 12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	122.86	38.37
26 27 16 00-0060 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	131.28	40.40
26 27 16 00-0061 EA 16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	168.35	52.51
26 27 16 00-0062 EA 16" x 16" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	206.87	64.63
26 27 16 00-0063 EA 18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	197.00	62.61
26 27 16 00-0064 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	255.95	80.78
26 27 16 00-0065 EA 24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	317.11	92.91
26 27 16 00-0066 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	361.68	100.98
26 27 16 00-0067 EA 30" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	389.87	107.04
26 27 16 00-0068 EA 36" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	424.54	111.07
26 27 16 00-0069 8" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0070 EA 8" x 8" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	106.70	34.33
26 27 16 00-0071 EA 12" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	144.78	44.43
26 27 16 00-0072 EA 16" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	184.08	56.55

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 27 Low-Voltage Distribution Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0073	EA		16" x 16" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	228.64	70.69
26 27 16 00-0074	EA		18" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	218.87	68.66
26 27 16 00-0075	EA		18" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	271.06	84.83
26 27 16 00-0076	EA		24" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	303.02	96.94
26 27 16 00-0077	EA		24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	348.48	103.00
26 27 16 00-0078	EA		24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	398.75	111.07
26 27 16 00-0079	EA		30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	423.94	117.14
26 27 16 00-0080	EA		30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	444.79	121.18
26 27 16 00-0081	EA		36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	455.54	121.18
26 27 16 00-0082			10" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0032)</small>		
26 27 16 00-0083	EA		18" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure	248.02	76.74
26 27 16 00-0084	EA		18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure	325.77	98.96
26 27 16 00-0085	EA		24" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure	331.28	105.02
26 27 16 00-0086	EA		24" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure	422.42	113.10
26 27 16 00-0087	EA		24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure	484.56	125.21
26 27 16 00-0088	EA		30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure	534.67	129.25
26 27 16 00-0089	EA		36" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure	569.55	135.32
26 27 16 00-0090			12" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0032)</small>		
26 27 16 00-0091	EA		18" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure	359.58	109.06
26 27 16 00-0092	EA		24" x 12" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure	360.20	115.12
26 27 16 00-0093	EA		24" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure	464.72	125.21
26 27 16 00-0094	EA		24" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure	529.13	137.33
26 27 16 00-0095	EA		30" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure	590.35	143.39
26 27 16 00-0096	EA		36" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure	622.09	149.46
26 27 16 00-0097			NEMA 1 Enclosures For Up To 6 Boards, Lockable <small>(26 27 16)</small>		
26 27 16 00-0098			4.5" Depth, Hinged Cover, Powder Coated Steel, NEMA 1 Enclosures <small>(26 27 16 00-0097)</small>		
26 27 16 00-0099	EA		24" High x 18" Wide x 4.5" Deep, 18 Gauge, Powder Coated Steel, NEMA 1 Enclosure (RS2 Technologies NCL-12).....	879.04	88.87
26 27 16 00-0100			NEMA 12 Enclosures, Lockable <small>(26 27 16)</small> Note: Dust-tight enclosures.		
26 27 16 00-0101			Hinged Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0100)</small>		
26 27 16 00-0102			4" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0101)</small>		
26 27 16 00-0103	EA		4" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	87.39	16.15
26 27 16 00-0104	EA		6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	113.99	22.22
26 27 16 00-0105	EA		8" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	141.16	28.28
26 27 16 00-0106	EA		10" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	152.76	30.29
26 27 16 00-0107	EA		12" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	171.21	32.32
26 27 16 00-0108	EA		12" x 10" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	184.36	34.33
26 27 16 00-0109			6" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0101)</small>		
26 27 16 00-0110	EA		6" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	126.48	24.23
26 27 16 00-0111	EA		8" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	139.27	26.26
26 27 16 00-0112			Screw Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0100)</small>		
26 27 16 00-0113			4" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0112)</small>		
26 27 16 00-0114	EA		4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	171.27	16.15
26 27 16 00-0115	EA		6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	205.93	22.22
26 27 16 00-0116	EA		8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	232.72	24.23
26 27 16 00-0117	EA		8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	266.35	28.28
26 27 16 00-0118	EA		10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	274.15	30.29
26 27 16 00-0119	EA		10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	323.18	32.32
26 27 16 00-0120	EA		12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	346.96	34.33
26 27 16 00-0121	EA		12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	394.33	36.36
26 27 16 00-0122			6" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0112)</small>		
26 27 16 00-0123	EA		6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	250.23	24.23
26 27 16 00-0124	EA		8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	282.68	26.26
26 27 16 00-0125	EA		8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	308.42	30.29
26 27 16 00-0126	EA		10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	364.87	36.36
26 27 16 00-0127	EA		12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	396.41	40.40
26 27 16 00-0128	EA		16" x 14" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	549.87	52.51
26 27 16 00-0129	EA		18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	852.00	80.78
26 27 16 00-0130	EA		24" x 16" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,113.77	92.91
26 27 16 00-0131	EA		24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,255.07	100.98



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0132 8" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0112)</small>		
26 27 16 00-0133 EA 24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,162.40	103.00
26 27 16 00-0134 EA 24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,338.29	111.07
26 27 16 00-0135 EA 30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,470.23	117.14
26 27 16 00-0136 EA 30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,619.61	121.18
26 27 16 00-0137 EA 36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,597.60	121.18
26 27 16 00-0138 Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0100)</small>		
26 27 16 00-0139 8" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0138)</small>		
26 27 16 00-0140 EA 60" x 48" x 8" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	5,061.78	164.10
26 27 16 00-0141 10" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0138)</small>		
26 27 16 00-0142 EA 60" x 48" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	5,113.03	181.76
26 27 16 00-0143 EA 60" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	5,863.21	194.39
26 27 16 00-0144 EA 72" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	6,747.70	242.35
26 27 16 00-0145 EA 72" x 72" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	7,536.71	285.78
26 27 16 00-0146 12" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0138)</small>		
26 27 16 00-0147 EA 60" x 48" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	5,466.50	285.78
26 27 16 00-0148 EA 60" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	6,091.68	302.94
26 27 16 00-0149 EA 72" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	6,916.08	323.14
26 27 16 00-0150 EA 72" x 72" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	7,627.33	323.14
26 27 16 00-0151 NEMA 3 Enclosures, Lockable <small>(26 27 16)</small> Note: Can be used underground or encased in concrete.		
26 27 16 00-0152 2" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0153 EA 4" x 4" x 2" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	255.11	70.69
26 27 16 00-0154 3" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0155 EA 4" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	273.11	70.69
26 27 16 00-0156 EA 5" x 5" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	346.29	73.21
26 27 16 00-0157 EA 6" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	358.53	73.21
26 27 16 00-0158 EA 6" x 6" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	447.89	75.73
26 27 16 00-0159 4" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0160 EA 4" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	342.98	73.21
26 27 16 00-0161 EA 5" x 5" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	375.00	73.21
26 27 16 00-0162 EA 6" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	390.81	75.73
26 27 16 00-0163 EA 6" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	489.18	75.73
26 27 16 00-0164 EA 8" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	537.36	80.78
26 27 16 00-0165 EA 8" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	578.25	85.84
26 27 16 00-0166 EA 10" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	601.64	85.84
26 27 16 00-0167 EA 10" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	713.34	88.35
26 27 16 00-0168 EA 12" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	773.10	90.88
26 27 16 00-0169 EA 12" x 12" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,054.86	100.98
26 27 16 00-0170 6" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0171 EA 6" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	516.39	78.26
26 27 16 00-0172 EA 8" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	649.18	88.35
26 27 16 00-0173 EA 8" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	758.71	90.88
26 27 16 00-0174 EA 10" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	872.68	93.41
26 27 16 00-0175 EA 10" x 10" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	927.86	93.41
26 27 16 00-0176 EA 12" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,054.56	100.98
26 27 16 00-0177 EA 12" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,219.34	113.60
26 27 16 00-0178 EA 16" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,149.20	108.56
26 27 16 00-0179 EA 18" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	2,232.95	201.97
26 27 16 00-0180 EA 18" x 18" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	3,854.21	252.45
26 27 16 00-0181 8" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0182 EA 8" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	936.85	95.93
26 27 16 00-0183 EA 12" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,406.18	126.22
26 27 16 00-0184 EA 12" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,428.71	126.22
26 27 16 00-0185 EA 16" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,938.28	189.34
26 27 16 00-0186 EA 18" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	2,545.99	201.97
26 27 16 00-0187 EA 24" x 24" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	6,437.49	353.44

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0188 10" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0189 EA 18" x 12" x 10" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	3,392.34	252.45
26 27 16 00-0190 12" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0191 EA 18" x 18" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	5,204.95	302.94
26 27 16 00-0192 EA 24" x 12" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	4,284.67	277.70
26 27 16 00-0193 NEMA 3R Enclosures, Lockable (26 27 16)		
Note: Rain-tight enclosures.		
26 27 16 00-0194 Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0193)		
26 27 16 00-0195 4" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0196 EA 6" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	82.55	20.19
26 27 16 00-0197 EA 6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	91.13	22.22
26 27 16 00-0198 EA 8" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	128.76	22.22
26 27 16 00-0199 6" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0200 EA 8" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	168.41	30.29
26 27 16 00-0201 EA 10" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	188.26	34.33
26 27 16 00-0202 EA 12" x 10" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	220.65	38.37
26 27 16 00-0203 EA 12" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	238.40	40.40
26 27 16 00-0204 EA 16" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	310.38	52.51
26 27 16 00-0205 EA 16" x 16" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	371.38	64.63
26 27 16 00-0206 EA 18" x 18" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	425.08	80.78
26 27 16 00-0207 8" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0208 EA 24" x 20" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	643.14	103.00
26 27 16 00-0209 EA 24" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	712.90	111.07
26 27 16 00-0210 EA 30" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	801.53	117.14
26 27 16 00-0211 EA 30" x 30" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	842.78	121.18
26 27 16 00-0212 10" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0213 EA 12" x 48" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	797.17	125.21
26 27 16 00-0214 EA 12" x 54" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	900.51	141.38
26 27 16 00-0215 EA 12" x 60" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	996.97	156.53
26 27 16 00-0216 EA 12" x 66" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,098.28	172.68
26 27 16 00-0217 EA 12" x 72" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,195.76	187.83
26 27 16 00-0218 EA 18" x 18" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	521.13	98.96
26 27 16 00-0219 EA 24" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	797.17	125.21
26 27 16 00-0220 EA 30" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	941.54	129.25
26 27 16 00-0221 EA 36" x 36" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,189.14	141.38
26 27 16 00-0222 12" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0223 EA 12" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	770.55	99.98
26 27 16 00-0224 EA 12" x 54" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	864.08	112.09
26 27 16 00-0225 EA 12" x 60" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	956.61	124.21
26 27 16 00-0226 EA 12" x 66" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,057.91	137.33
26 27 16 00-0227 EA 12" x 72" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,151.44	149.46
26 27 16 00-0228 EA 18" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	575.72	74.73
26 27 16 00-0229 EA 18" x 32" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	770.55	99.98
26 27 16 00-0230 EA 18" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	864.08	112.09
26 27 16 00-0231 EA 18" x 42" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,017.03	131.28
26 27 16 00-0232 EA 18" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,151.44	149.46
26 27 16 00-0233 EA 30" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,095.04	147.43
26 27 16 00-0234 EA 36" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,151.44	149.46
26 27 16 00-0235 EA 36" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,212.41	153.49
26 27 16 00-0236 EA 36" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,349.36	161.57
26 27 16 00-0237 EA 42" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,462.82	169.65
26 27 16 00-0238 Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0193)		
26 27 16 00-0239 4" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0240 EA 4" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	58.76	16.15
26 27 16 00-0241 EA 6" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	71.16	20.19
26 27 16 00-0242 EA 6" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	78.55	22.22
26 27 16 00-0243 EA 8" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	87.02	24.23
26 27 16 00-0244 EA 8" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	101.07	28.28
26 27 16 00-0245 EA 10" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	110.05	30.29
26 27 16 00-0246 EA 10" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	119.79	32.32
26 27 16 00-0247 EA 12" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	119.28	32.32



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0248 EA 12" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	130.19	34.33
26 27 16 00-0249 EA 12" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	139.92	36.36
26 27 16 00-0250 EA 18" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	211.72	56.55
26 27 16 00-0251 EA 18" x 18" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	281.86	72.70
26 27 16 00-0252 6" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0253 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	82.00	24.23
26 27 16 00-0254 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	111.41	30.29
26 27 16 00-0255 EA 10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	126.22	34.33
26 27 16 00-0256 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	136.64	36.36
26 27 16 00-0257 EA 12" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	135.89	36.36
26 27 16 00-0258 EA 12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	146.93	38.37
26 27 16 00-0259 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	158.05	40.40
26 27 16 00-0260 EA 16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	206.24	52.51
26 27 16 00-0261 EA 18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	237.82	62.61
26 27 16 00-0262 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	316.84	80.78
26 27 16 00-0263 EA 24" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	331.20	86.84
26 27 16 00-0264 EA 24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	377.43	92.91
26 27 16 00-0265 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	424.48	100.98
26 27 16 00-0266 8" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0267 EA 12" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	176.76	44.43
26 27 16 00-0268 EA 18" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	256.78	68.66
26 27 16 00-0269 EA 18" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	350.46	88.87
26 27 16 00-0270 EA 24" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	417.66	103.00
26 27 16 00-0271 EA 24" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	471.59	111.07
26 27 16 00-0272 EA 30" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	522.82	117.14
26 27 16 00-0273 10" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0274 EA 18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	386.80	98.96
26 27 16 00-0275 EA 24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	519.11	125.21
26 27 16 00-0276 EA 30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	568.10	129.25
26 27 16 00-0277 12" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0278 EA 24" x 24" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	573.30	137.33
26 27 16 00-0279 EA 30" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	791.15	149.46
26 27 16 00-0280 EA 36" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	817.50	153.49
26 27 16 00-0281 EA 36" x 36" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	952.94	161.57
26 27 16 00-0282 NEMA 4 Enclosures, Lockable (26 27 16)		
Note: Water-tight enclosures.		
26 27 16 00-0283 Hinge Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0282)		
26 27 16 00-0284 EA 4" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure	96.26	14.14
26 27 16 00-0285 EA 6" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure	112.32	17.17
26 27 16 00-0286 EA 8" x 6" x 3.5" Hinge Cover, Painted Steel NEMA 4 Enclosure	140.41	22.22
26 27 16 00-0287 EA 6" x 6" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure	133.49	22.22
26 27 16 00-0288 EA 10" x 8" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure	178.35	30.29
26 27 16 00-0289 EA 12" x 10" x 5" Hinge Cover, Painted Steel NEMA 4 Enclosure	222.33	36.36
26 27 16 00-0290 EA 10" x 8" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	205.32	34.33
26 27 16 00-0291 EA 12" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	239.32	40.40
26 27 16 00-0292 EA 14" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	281.72	46.45
26 27 16 00-0293 EA 16" x 14" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	341.25	58.57
26 27 16 00-0294 Clamp Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0282)		
26 27 16 00-0295 EA 4" x 4" x 3" Clamp Cover, Painted Steel NEMA 4 Enclosure	88.22	14.14
26 27 16 00-0296 EA 6" x 6" x 4" Clamp Cover, Painted Steel NEMA 4 Enclosure	125.47	22.22
26 27 16 00-0297 Screw Cover, Fiberglass NEMA 4 Or 4x Enclosures (26 27 16 00-0282)		
26 27 16 00-0298 EA 6" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	110.61	19.39
26 27 16 00-0299 EA 8" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	117.47	21.01
26 27 16 00-0300 EA 10" x 8" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	144.01	27.46
26 27 16 00-0301 EA 12" x 10" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	168.53	30.29
26 27 16 00-0302 EA 14" x 12" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure	218.09	38.37
26 27 16 00-0303 EA 16" x 14" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure	254.90	45.44
26 27 16 00-0304 EA 18" x 16" x 10", Screw Cover, Fiberglass NEMA 4 Enclosure	358.00	72.70
26 27 16 00-0305 NEMA 4X Enclosures, Lockable (26 27 16)		
Note: Water-tight enclosures.		
26 27 16 00-0306 Clamp Cover, Aluminum NEMA 4X Enclosures (26 27 16 00-0305)		
26 27 16 00-0307 EA 6" x 4" x 3" Clamp Cover, Aluminum NEMA 4X Enclosure	192.93	16.15

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0308	EA		6" x 6" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure	227.10	22.22
26 27 16 00-0309	EA		10" x 8" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure	287.61	30.29
26 27 16 00-0310	EA		12" x 10" x 5" Clamp Cover, Aluminum NEMA 4X Enclosure	349.21	36.36
26 27 16 00-0311	EA		14" x 12" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure	430.35	46.45
26 27 16 00-0312	EA		16" x 14" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure	507.79	58.57
26 27 16 00-0313			Clamp Cover, 304 Stainless Steel NEMA 4X Enclosures (26 27 16 00-0305)		
26 27 16 00-0314	EA		4" x 4" x 3", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	244.01	14.14
			<i>For 316L Stainless Steel, Add</i>	56.34	
26 27 16 00-0315	EA		6" x 4" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	317.50	20.19
			<i>For 316L Stainless Steel, Add</i>	72.09	
26 27 16 00-0316	EA		6" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	359.73	22.22
			<i>For 316L Stainless Steel, Add</i>	82.13	
26 27 16 00-0317	EA		8" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	411.63	24.23
			<i>For 316L Stainless Steel, Add</i>	94.78	
26 27 16 00-0318	EA		10" x 8" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	505.58	30.29
			<i>For 316L Stainless Steel, Add</i>	116.06	
26 27 16 00-0319	EA		12" x 10" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	710.84	38.37
			<i>For 316L Stainless Steel, Add</i>	166.03	
26 27 16 00-0320	EA		14" x 12" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	886.07	46.45
			<i>For 316L Stainless Steel, Add</i>	207.88	
26 27 16 00-0321	EA		16" x 14" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	1,068.38	58.57
			<i>For 316L Stainless Steel, Add</i>	248.93	
26 27 16 00-0322			Screw Cover, Polycarbonate NEMA 4X Enclosures (26 27 16 00-0305)		
			Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0323	EA		6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	112.57	22.22
26 27 16 00-0324	EA		8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	126.62	24.23
26 27 16 00-0325	EA		8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	144.98	28.28
26 27 16 00-0326	EA		10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	157.52	30.29
26 27 16 00-0327	EA		12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	181.88	34.33
26 27 16 00-0328	EA		10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	171.38	34.33
26 27 16 00-0329	EA		12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	199.43	38.37
26 27 16 00-0330	EA		14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	249.69	46.45
26 27 16 00-0331	EA		16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	319.61	63.62
26 27 16 00-0332	EA		18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	413.07	91.59
26 27 16 00-0333	EA		6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	120.83	22.22
26 27 16 00-0334	EA		8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	136.38	24.23
26 27 16 00-0335	EA		8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	155.48	28.28
26 27 16 00-0336	EA		10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	170.27	30.29
26 27 16 00-0337	EA		12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	195.39	34.33
26 27 16 00-0338	EA		10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	184.14	34.33
26 27 16 00-0339	EA		12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	216.74	38.37
26 27 16 00-0340	EA		14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	258.69	46.45
26 27 16 00-0341	EA		16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	338.38	63.62
26 27 16 00-0342	EA		18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	433.32	91.59
26 27 16 00-0343			Hinged Cover, Polycarbonate NEMA 4X Enclosures (26 27 16 00-0305)		
			Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0344	EA		6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	135.83	22.22
26 27 16 00-0345	EA		8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	145.38	24.23
26 27 16 00-0346	EA		8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	165.23	28.28
26 27 16 00-0347	EA		10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	178.53	30.29
26 27 16 00-0348	EA		12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	211.15	34.33
26 27 16 00-0349	EA		10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	194.64	34.33
26 27 16 00-0350	EA		12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	238.49	38.37
26 27 16 00-0351	EA		14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	283.46	46.45
26 27 16 00-0352	EA		16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	348.88	63.62
26 27 16 00-0353	EA		18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	451.33	91.59
26 27 16 00-0354	EA		6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	141.84	22.22
26 27 16 00-0355	EA		8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	156.63	24.23
26 27 16 00-0356	EA		8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	175.74	28.28
26 27 16 00-0357	EA		10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	189.78	30.29
26 27 16 00-0358	EA		12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	226.16	34.33
26 27 16 00-0359	EA		10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	207.39	34.33
26 27 16 00-0360	EA		12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	254.26	38.37
26 27 16 00-0361	EA		14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	290.96	46.45
26 27 16 00-0362	EA		16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	373.63	63.62
26 27 16 00-0363	EA		18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	477.60	91.59
26 27 16 00-0364			NEMA 7/9 Enclosures, Lockable (26 27 16)		
			Note: Nominal inside dimensions.		
26 27 16 00-0365			4" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)		
26 27 16 00-0366	EA		6" x 6" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	1,104.58	113.60
			<i>For Mounting Pan, Add</i>	46.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0367 EA 6" x 8" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	884.25 86.54	121.18
26 27 16 00-0368 EA 8" x 10" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	1,717.07 119.34	136.32
26 27 16 00-0369 6" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0370 EA 8" x 8" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	1,528.59 60.68	136.32
26 27 16 00-0371 EA 8" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	1,987.46 119.34	140.11
26 27 16 00-0372 EA 8" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	2,034.57 91.28	151.47
26 27 16 00-0373 EA 10" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	2,087.55 106.80	151.47
26 27 16 00-0374 EA 10" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	2,948.69 140.12	189.34
26 27 16 00-0375 EA 12" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	2,778.82 87.49	170.40
26 27 16 00-0376 EA 12" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	2,876.16 130.91	189.34
26 27 16 00-0377 EA 12" x 24" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	4,448.35 176.12	340.81
26 27 16 00-0378 EA 14" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	3,527.04 171.48	227.20
26 27 16 00-0379 EA 16" x 16" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	4,637.95 157.43	378.67
26 27 16 00-0380 EA 18" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	5,550.12 255.93	378.67
26 27 16 00-0381 8" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0382 EA 8" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	2,373.90 91.28	170.40
26 27 16 00-0383 EA 10" x 10" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	2,390.36 106.80	170.40
26 27 16 00-0384 EA 10" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	2,703.93 140.12	170.40
26 27 16 00-0385 EA 12" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	2,996.31 87.49	189.34
26 27 16 00-0386 EA 12" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	4,363.41 130.91	340.81
26 27 16 00-0387 EA 12" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	5,309.92 176.12	416.55
26 27 16 00-0388 EA 12" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	8,320.46 264.87	492.29
26 27 16 00-0389 EA 14" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	4,786.22 171.48	416.55
26 27 16 00-0390 EA 16" x 16" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	4,915.26 157.43	416.55
26 27 16 00-0391 EA 16" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	7,303.76 235.98	454.42
26 27 16 00-0392 EA 18" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	6,037.38 255.93	416.55
26 27 16 00-0393 EA 18" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	8,052.70 374.25	454.42
26 27 16 00-0394 EA 18" x 30" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	7,997.91 498.92	454.42
26 27 16 00-0395 EA 18" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	12,405.47 623.56	605.89
26 27 16 00-0396 EA 24" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	9,445.26 579.80	492.29
26 27 16 00-0397 EA 24" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	17,096.93 793.74	757.36
26 27 16 00-0398 10" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0399 EA 12" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	8,652.41 264.87	492.29
26 27 16 00-0400 EA 16" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	7,964.92 235.98	454.42
26 27 16 00-0401 EA 18" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	8,677.11 374.25	492.29
26 27 16 00-0402 EA 18" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	10,950.34 623.56	530.15
26 27 16 00-0403 EA 24" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	9,696.58 579.80	530.15
26 27 16 00-0404 EA 24" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	18,617.62 793.74	757.36

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

26 27 16 00-0405		12" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0406	EA	12" x 24" x 12" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure For Mounting Pan, Add	5,428.31 176.12	416.55
26 27 16 00-0407		Breaker Enclosures <small>(26 27 16)</small>		
		See CSI section 26 24 16 00-0001 for lighting and power panel boards.		
26 27 16 00-0408		15 To 100 Amperes, F-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0409	EA	NEMA 1, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure	337.57	80.78
26 27 16 00-0410	EA	NEMA 3R, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure	627.17	80.78
26 27 16 00-0411	EA	NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure	1,554.70	111.07
26 27 16 00-0412	EA	NEMA 7, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure	2,110.33	121.18
26 27 16 00-0413	EA	NEMA 9, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure	1,535.78	121.18
26 27 16 00-0414	EA	NEMA 12, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure	534.12	111.07
26 27 16 00-0415		15 To 250 Amperes, H Or J-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0416	EA	NEMA 1, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure	540.62	111.07
26 27 16 00-0417	EA	NEMA 3R, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure	1,004.38	111.07
26 27 16 00-0418	EA	NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure	3,453.47	141.38
26 27 16 00-0419	EA	NEMA 12, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure	824.69	141.38
26 27 16 00-0420		125 To 400 Amperes, L-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0421	EA	NEMA 1, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure	841.92	222.16
26 27 16 00-0422	EA	NEMA 3R, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure	1,985.52	222.16
26 27 16 00-0423	EA	NEMA 3/3R/4/4X/5/12, Stainless Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure	5,848.23	282.75
26 27 16 00-0424	EA	NEMA 12, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure	1,406.27	282.75
26 27 16 00-0425		300 To 800 Amperes, M-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0426	EA	NEMA 1, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure	1,650.05	424.13
26 27 16 00-0427	EA	NEMA 3R, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure	2,858.75	424.13
26 27 16 00-0428	EA	NEMA 3/3R/4/4X/5/12, Stainless Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure	10,518.91	545.30
26 27 16 00-0429	EA	NEMA 12, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure	5,670.15	545.30
26 27 16 00-0430		250 To 1,200 Amperes, P-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0431	EA	NEMA 1, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure	2,021.60	424.13
26 27 16 00-0432	EA	NEMA 3R, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure	3,446.34	424.13
26 27 16 00-0433	EA	NEMA 3R/5/12, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure	7,141.45	545.30
26 27 16 00-0434		Legend Plates <small>(26 27 16)</small>		
26 27 16 00-0435	EA	3" Phenolic Plastic Cabinet Legend Plate Engraved With 1/2" Letters	14.11	5.05
26 27 16 00-0436	EA	3" Engraved Aluminum Cabinet Legend Plate Engraved With 1/2" Letters	20.05	5.05
26 27 23		Indoor Service Poles <small>(26 27)</small>		
26 27 23 00-0001		Communication And Power Poles <small>(26 27 23)</small>		
		Note: Includes separate compartments for power and communication cable. Includes removable cover plates with knock-outs for modular jacks and openings to accept modular furniture adapters for communication devices. Includes all necessary mounting plates and assemblies. Excludes electrical and communications wire, power outlets and communication devices. Wiremold Tele-Power Pole series.		
26 27 23 00-0002		Steel Communication And Power Poles <small>(26 27 23 00-0001)</small>		
26 27 23 00-0003		2-1/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0002)</small>		
26 27 23 00-0004		2-1/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0003)</small>		
26 27 23 00-0005	EA	2-1/4" x 2-5/16", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole	246.19	44.74
26 27 23 00-0006	EA	2-1/4" x 2-5/16", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole	266.55	44.74
26 27 23 00-0007	EA	2-1/4" x 2-5/16", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole	290.09	44.74
26 27 23 00-0008		Additional Cover Plates For 2-1/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0003)</small>		
		Note: Excludes receptacles, communication jacks and wiring.		
26 27 23 00-0009	EA	Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One Single Receptacle	50.42	9.23
26 27 23 00-0010	EA	Add-On 2-1/4" Width Steel Cover Plate For Three Duplex Receptacles	43.99	9.23
26 27 23 00-0011	EA	Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One GFCI Receptacle	49.53	9.23
26 27 23 00-0012	EA	Add-On 2-1/4" Width Steel Cover Plate For Data And A/V Modular Devices	37.25	9.23
26 27 23 00-0013	EA	Add-On 2-1/4" Width Steel Cover Plate Radius Control Entrance End Fitting	31.06	9.23
26 27 23 00-0014		2-3/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0002)</small>		



Electrical	26	
Low-Voltage Electrical Distribution	26 20	26
Low-Voltage Distribution Equipment	26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 23 00-0015 2-3/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0014)</small>		
26 27 23 00-0016 EA 2-3/4" x 1-17/32", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	316.00	44.74
26 27 23 00-0017 EA 2-3/4" x 1-17/32", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	359.75	44.74
26 27 23 00-0018 EA 2-3/4" x 1-17/32", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	383.37	44.74
26 27 23 00-0019 Additional Cover Plates For 2-3/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0014)</small>		
Note: Excludes receptacles and communication jacks.		
26 27 23 00-0020 EA Add-On 2-3/4" Width Steel Cover Plate For One Single Receptacle	34.52	9.23
26 27 23 00-0021 EA Add-On 2-3/4" Width Steel Cover Plate For One Duplex Receptacle	31.25	9.23
26 27 23 00-0022 EA Add-On 2-3/4" Width Steel Cover Plate For Data And AV Modular Devices.....	33.59	9.23
26 27 23 00-0023 3" Width, Steel Communication And Power Poles <small>(26 27 23 00-0002)</small>		
26 27 23 00-0024 3" Width, Steel Communication And Power Poles <small>(26 27 23 00-0023)</small>		
26 27 23 00-0025 EA 3" x 2-3/4", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	408.72	44.74
26 27 23 00-0026 EA 3" x 2-3/4", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	461.39	44.74
26 27 23 00-0027 EA 3" x 2-3/4", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	496.10	44.74
26 27 23 00-0028 Additional Cover Plates For 3" Width, Steel Communication And Power Poles <small>(26 27 23 00-0023)</small>		
Note: Excludes receptacles and communication jacks.		
26 27 23 00-0029 EA Add-On 3" Width Steel Steel Cover Plate For One Single Receptacle	34.52	9.23
26 27 23 00-0030 EA Add-On 3" Width Steel Cover Plate For One Duplex Receptacle	31.25	9.23
26 27 23 00-0031 EA Add-On 3" Width Steel Cover Plate For Data And AV Modular Devices.....	33.59	9.23
26 27 23 00-0032 Aluminum Communication And Power Poles <small>(26 27 23 00-0001)</small>		
26 27 23 00-0033 2-1/8" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0032)</small>		
26 27 23 00-0034 2-1/8" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0033)</small>		
26 27 23 00-0035 EA 2-1/8" x 2-3/8", 10'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	329.70	44.74
26 27 23 00-0036 EA 2-1/8" x 2-3/8", 12'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	366.52	44.74
26 27 23 00-0037 EA 2-1/8" x 2-3/8", 15'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	407.80	44.74
26 27 23 00-0038 Additional Cover Plates For 2-1/8" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0033)</small>		
26 27 23 00-0039 EA Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One Single Receptacle.....	51.68	9.23
26 27 23 00-0040 EA Add-On 2-1/8" Width Aluminum Cover Plate For Three Duplex Receptacles	52.71	9.23
26 27 23 00-0041 EA Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One GFCI Receptacle	56.17	9.23
26 27 23 00-0042 EA Add-On 2-1/8" Width Aluminum Cover Plate For Data And AV Modular Devices.....	39.19	9.23
26 27 23 00-0043 EA Add-On 2-1/8" Width Aluminum Radius Control Entrance End Fitting	31.06	9.23
26 27 23 00-0044 2-1/4" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0032)</small>		
26 27 23 00-0045 EA 2-1/4" x 2-5/16", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	318.20	44.74
26 27 23 00-0046 EA 2-1/4" x 2-5/16", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	355.97	44.74
26 27 23 00-0047 EA 2-1/4" x 2-5/16", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	400.46	44.74
26 27 23 00-0048 5" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0032)</small>		
26 27 23 00-0049 EA 5" x 4-3/4", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	654.59	44.74
26 27 23 00-0050 EA 5" x 4-3/4", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	747.21	44.74
26 27 23 00-0051 EA 5" x 4-3/4", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	850.94	44.74
26 27 23 00-0052 2" Diameter, Round Aluminum Communication And Power Pole <small>(26 27 23 00-0032)</small>		
26 27 23 00-0053 EA 2" Diameter, 10'-4" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	360.41	44.74
26 27 23 00-0054 EA 2" Diameter, 10'-4" Height, Painted White Finish, Aluminum Communication And Power Pole.....	341.75	44.74
26 27 23 00-0055 EA 2" Diameter, 10'-4" Height, Polished Anodized Finish, Aluminum Communication And Power Pole	434.90	44.74
26 27 26 Wiring Devices <small>(26 27)</small>		
Note: Includes device, installation, wire connections, support clips (where necessary) and testing. Assemblies include outlet device, cover plate, mounting and appropriate box.		
26 27 26 00-0001 Receptacles <small>(26 27 26)</small>		
26 27 26 00-0002 General Use Receptacles <small>(26 27 26 00-0001)</small>		
26 27 26 00-0003 Receptacle Assemblies <small>(26 27 26 00-0002)</small>		
Note: Includes 4" square steel box, bracket, mud ring, receptacle and cover plate.		
26 27 26 00-0004 EA 15 Amperes, 1 Gang, NEMA 5-15, Duplex Receptacle Assembly	83.28	35.85
26 27 26 00-0005 EA 20 Amperes, 1 Gang, NEMA 5-20, Duplex Receptacle Assembly	89.12	38.37
26 27 26 00-0006 EA 15 Amperes, 2 Gang, NEMA 5-15, Duplex Receptacle Assembly	106.85	45.94

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 27 Low-Voltage Distribution Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0007	EA		20 Amperes, 2 Gang, NEMA 5-20, Duplex Receptacle Assembly	118.55	51.00
26 27 26 00-0008	EA		15 Amperes, 1 Gang, GFI, Duplex Receptacle Assembly	94.12	35.85
26 27 26 00-0009	EA		20 Amperes, 1 Gang, GFI, Duplex Receptacle Assembly	100.53	38.37
26 27 26 00-0010			Receptacle Components <small>(26 27 26 00-0002)</small>		
26 27 26 00-0011	EA		15 Amperes, 125 Volt, 1 Phase, NEMA 5-15, Single Receptacle	23.15	10.10
26 27 26 00-0012	EA		15 Amperes, 125 Volt, 1 Phase, NEMA 5-15, Duplex Receptacle	22.51	10.10
26 27 26 00-0013	EA		15 Amperes, 120/277 Volt, 3 Wire, Single Receptacle	26.24	10.10
26 27 26 00-0014	EA		15 Amperes, 120/277 Volt, 3 Wire, Duplex Receptacle	28.40	10.10
26 27 26 00-0015	EA		15 Amperes, 250 Volt, 1 Phase, NEMA 6-15, Single Receptacle	36.20	12.62
26 27 26 00-0016	EA		15 Amperes, 250 Volt, 1 Phase, NEMA 6-15, Duplex Receptacle	43.28	12.62
26 27 26 00-0017	EA		20 Amperes, 125 Volt, 1 Phase, NEMA 5-20, Single Receptacle	23.98	10.10
26 27 26 00-0018	EA		20 Amperes, 125 Volt, 1 Phase, NEMA 5-20, Duplex Receptacle	23.31	10.10
26 27 26 00-0019	EA		20 Amperes, 120/277 Volt, Single Receptacle	33.03	10.10
26 27 26 00-0020	EA		20 Amperes, 120/277 Volt, Duplex Receptacle	27.72	10.10
26 27 26 00-0021	EA		20 Amperes, 250 Volt, 1 Phase, NEMA 6-20, Single Receptacle	36.20	12.62
26 27 26 00-0022	EA		20 Amperes, 250 Volt, 1 Phase, NEMA 6-20, Duplex Receptacle	43.28	12.62
26 27 26 00-0023	EA		20 Amperes, 125/250 Volt, 1 Phase, NEMA 14-20, Single Receptacle	65.98	12.62
26 27 26 00-0024	EA		20 Amperes, 250 Volt, 3 Phase, NEMA 15-20, Single Receptacle	65.98	12.62
26 27 26 00-0025	EA		25 Amperes, 120/277 Volt, Duplex Receptacle	56.45	15.15
26 27 26 00-0026			Specialty Receptacles <small>(26 27 26 00-0001)</small>		
26 27 26 00-0027			Specialty Receptacles <small>(26 27 26 00-0026)</small>		
26 27 26 00-0028	EA		30 Amperes, 125 Volt, 1 Phase, NEMA 5-30, Single Receptacle	51.41	17.67
26 27 26 00-0029	EA		30 Amperes, 250 Volt, 1 Phase, NEMA 6-30, Single Receptacle	51.41	17.67
26 27 26 00-0030	EA		30 Amperes, 125/250 Volt, NEMA 10-30, Single Receptacles	64.18	17.67
26 27 26 00-0031	EA		30 Amperes, 125/250 Volt, 1 Phase, NEMA 14-30, Single Receptacle	76.07	17.67
26 27 26 00-0032	EA		30 Amperes, 250 Volt, 3 Phase, NEMA 15-30, Single Receptacle	81.13	20.19
26 27 26 00-0033	EA		50 Amperes, 125 Volt, 1 Phase, NEMA 5-50, Single Receptacle	75.25	20.19
26 27 26 00-0034	EA		50 Amperes, 250 Volt, 1 Phase, NEMA 6-50, Single Receptacle	73.59	20.19
26 27 26 00-0035	EA		50 Amperes, 277 Volt, NEMA 7-50, Single Receptacle	65.04	20.19
26 27 26 00-0036	EA		50 Amperes, 125/250 Volt, NEMA 10-50, Single Receptacle	77.33	20.19
26 27 26 00-0037	EA		50 Amperes, 125/250 Volt, 1 Phase, NEMA 14-50, Single Receptacle	90.19	20.19
26 27 26 00-0038	EA		50 Amperes, 250 Volt, 3 Phase, NEMA 15-50, Single Receptacle	95.23	22.72
26 27 26 00-0039	EA		60 Amperes, 125/250 Volt, 1 Phase, NEMA 14-60, Single Receptacle	104.80	25.25
26 27 26 00-0040	EA		60 Amperes, 250 Volt, 3 Phase, NEMA 15-60, Single Receptacle	114.90	30.29
26 27 26 00-0041	EA		100 Amperes, 480 Volt, 3 Phase, Joy Receptacle With Box, Complete	1,079.06	237.31
26 27 26 00-0042	EA		400 Amperes, 4 Pole Weatherproof Generator Receptacle With Box, Complete	2,582.87	290.32
26 27 26 00-0043	EA		30 Amperes, 230 Volt, Dryer Receptacle	61.17	20.19
26 27 26 00-0044	EA		60 Amperes, 230 Volt, Range Receptacle	89.69	30.29
26 27 26 00-0045	EA		15 Or 20 Amperes, 120/277 Volt, Clock Hanger Receptacle	56.18	12.62
26 27 26 00-0046	EA		Cable Reel With 20 Amperes, 120 Volt Receptacle, Complete	1,143.93	307.46
26 27 26 00-0047			Isolated Ground Receptacles <small>(26 27 26 00-0026)</small>		
26 27 26 00-0048	EA		15 Amperes, 125 Volt, NEMA 5-15R Isolated Ground Receptacle, Simplex	68.42	10.10
			Note: 2 Pole, 3 wire.		
26 27 26 00-0049	EA		20 Amperes, 120 Volt Isolated Ground Receptacles, Simplex	48.12	12.62
26 27 26 00-0050	EA		20 Amperes, 120 Volt Isolated Ground Receptacles, Duplex	47.96	12.62
26 27 26 00-0051	EA		30 Amperes, 120 Volt Isolated Ground Receptacles, Simplex	67.19	20.19
26 27 26 00-0052	EA		Locking 15 Amperes, 250 Volt Isolated Ground Receptacles	53.57	12.62
26 27 26 00-0053	EA		Locking 15 Amperes, 277 Volt Isolated Ground Receptacles	49.33	12.62
26 27 26 00-0054	EA		Locking 20 Amperes, 120/208 Volt Isolated Ground Receptacles	67.63	15.15
26 27 26 00-0055	EA		Locking 20 Amperes, 277/480 Volt Isolated Ground Receptacles	54.43	15.15
26 27 26 00-0056	EA		Locking 20 Amperes, 347/600 Volt Isolated Ground Receptacles	69.20	15.15
26 27 26 00-0057	EA		Locking 30 Amperes, 120/208 Volt Isolated Ground Receptacles	83.59	15.15
26 27 26 00-0058	EA		Locking 30 Amperes, 277 Volt Isolated Ground Receptacles	83.55	20.19
26 27 26 00-0059			Explosion Proof Receptacles <small>(26 27 26 00-0026)</small>		
26 27 26 00-0060	EA		1/2", 20 Amperes, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly	668.87	25.25
26 27 26 00-0061	EA		3/4", 20 Amperes, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly	617.34	27.77
26 27 26 00-0062	EA		3/4", 30 Amperes, 2 Watt, 3 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	1,027.41	50.49
26 27 26 00-0063	EA		3/4", 30 Amperes, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	1,291.08	50.49
26 27 26 00-0064	EA		1-1/4", 60 Amperes, 2 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	1,636.51	75.73
26 27 26 00-0065	EA		1-1/4", 60 Amperes, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	1,560.17	75.73
26 27 26 00-0066			Ground Fault Circuit Interrupter (GFCI) <small>(26 27 26 00-0026)</small>		
26 27 26 00-0067	EA		15 Amperes, Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle	30.83	12.62
26 27 26 00-0068	EA		20 Amperes, Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle	44.82	15.15
26 27 26 00-0069	EA		15 Amperes, 120 Volt, Ground Fault Circuit Interrupter (GFCI), Weatherproof Duplex Receptacle	32.72	17.20
26 27 26 00-0070	EA		20 Amperes, 120 Volt, Ground Fault Circuit Interrupter (GFCI), Weatherproof Duplex Receptacle	55.94	20.19
26 27 26 00-0071			Arc Fault Circuit Interrupter (AFCI) <small>(26 27 26 00-0026)</small>		
26 27 26 00-0072	EA		15 Amperes, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle	54.46	12.62



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0073 EA 20 Amperes, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle	59.71	12.62
26 27 26 00-0074 Locking Receptacle <small>(26 27 26 00-0026)</small>		
26 27 26 00-0075 EA NEMA L5-15, 125 Volt, 2 Pole, 15 Amperes, Locking Receptacle	43.38	12.62
26 27 26 00-0076 EA NEMA L6-15, 250 Volt, 2 Pole, 15 Amperes, Locking Receptacle	52.79	12.62
26 27 26 00-0077 EA NEMA L5-20, 125 Volt, 2 Pole, 20 Amperes, Locking Receptacle	48.31	15.15
26 27 26 00-0078 EA NEMA L6-20, 250 Volt, 2 Pole, 20 Amperes, Locking Receptacle	47.90	15.15
26 27 26 00-0079 EA NEMA L8-20, 480 Volt, 2 Pole, 20 Amperes, Locking Receptacle	56.18	15.15
26 27 26 00-0080 EA NEMA L9-20, 600 Volt, 2 Pole, 20 Amperes, Locking Receptacle	66.88	15.15
26 27 26 00-0081 EA NEMA L10-20, 125/250 Volt, 3 Pole, 20 Amperes, Locking Receptacle	65.69	15.15
26 27 26 00-0082 EA NEMA L14-20, 125/250 Volt, 3 Pole, 20 Amperes, Locking Receptacle	57.87	15.15
26 27 26 00-0083 EA NEMA L5-30, 125 Volt, 2 Pole, 30 Amperes, Locking Receptacle	66.57	20.19
26 27 26 00-0084 EA NEMA L6-30, 250 Volt, 2 Pole, 30 Amperes, Locking, Receptacle	67.56	20.19
26 27 26 00-0085 EA NEMA L15-30, 250 Volt, 3 Pole, 30 Amperes, Locking Receptacle	89.38	20.19
26 27 26 00-0086 Weathertight Pin And Sleeve Receptacle <small>(26 27 26 00-0026)</small>		
26 27 26 00-0087 EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R4W)	213.32	50.49
26 27 26 00-0088 EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R6W)	212.86	50.49
26 27 26 00-0089 EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R7W)	221.62	50.49
26 27 26 00-0090 EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R12W)	268.87	55.54
26 27 26 00-0091 EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R9W)	269.60	55.54
26 27 26 00-0092 EA 20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R7W)	267.91	55.54
26 27 26 00-0093 EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R4W)	320.02	62.10
26 27 26 00-0094 EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R6W)	305.77	62.10
26 27 26 00-0095 EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R7W)	328.08	62.10
26 27 26 00-0096 EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R12W)	332.73	68.16
26 27 26 00-0097 EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R9W)	332.45	68.16
26 27 26 00-0098 EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R7W)	334.47	68.16
26 27 26 00-0099 EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R4W)	464.34	80.78
26 27 26 00-0100 EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R6W)	447.08	80.78
26 27 26 00-0101 EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R7W)	458.31	80.78
26 27 26 00-0102 EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R12W)	510.37	89.87
26 27 26 00-0103 EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R9W)	510.70	89.87
26 27 26 00-0104 EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R7W)	511.03	89.87
26 27 26 00-0105 EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R6W)	568.30	100.98
26 27 26 00-0106 EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R7W)	590.42	100.98
26 27 26 00-0107 EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R12W)	635.81	111.07
26 27 26 00-0108 EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R9W)	634.15	111.07
26 27 26 00-0109 EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R7W)	637.27	111.07
26 27 26 00-0110 Corrosion Resistant Receptacle <small>(26 27 26 00-0026)</small>		
26 27 26 00-0111 EA 15/20 Amperes, 125 Volt Corrosion Resistant, Power Receptacles	57.97	10.10
26 27 26 00-0112 EA 15/20 Amperes, 250 Volt Corrosion Resistant, Power Receptacles	114.52	12.62
26 27 26 00-0113 Tamper Resistant Receptacle <small>(26 27 26 00-0026)</small>		
26 27 26 00-0114 EA 15 Amperes, 125 Volt Duplex Tamper Resistant Receptacle	24.22	10.10
Note: Pass & Seymour 3232-TR.		
26 27 26 00-0115 EA 20 Amperes, 125 Volt Duplex Tamper Resistant Receptacle	26.30	10.10
Note: Pass & Seymour TR20.		
26 27 26 00-0116 EA 15 Amperes, 125 Volt Single Specification Grade Tamper Resistant Receptacle	32.26	10.10
Note: Pass & Seymour TR5251.		
26 27 26 00-0117 EA 20 Amperes, 125 Volt Single Specification Grade Tamper Resistant Receptacle	35.06	10.10
Note: Pass & Seymour TR5351.		
26 27 26 00-0118 EA 15 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Tamper Resistant Receptacle	51.85	10.10
Note: Pass & Seymour S1595-TR*CC8.		
26 27 26 00-0119 EA 15 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle	55.85	10.10
Note: Pass & Seymour 1595-TRS.		
26 27 26 00-0120 EA 20 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle	59.67	10.10
Note: Pass & Seymour 2095-TRS.		
26 27 26 00-0121 USB Charger/Duplex Tamper-Resistant Receptacles <small>(26 27 26 00-0026)</small>		
26 27 26 00-0122 EA 15 Amperes, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle	53.34	10.10
26 27 26 00-0123 EA 20 Amperes, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle	57.49	10.10
26 27 26 00-0124 Television Receptacle <small>(26 27 26 00-0001)</small>		
26 27 26 00-0125 EA TV Receptacle With Cover (Type F), Complete	62.74	23.43
26 27 26 00-0126 Switches <small>(26 27 26)</small>		
26 27 26 00-0127 Switches <small>(26 27 26 00-0126)</small>		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0128			Switch Assemblies <small>(26 27 26 00-0127)</small>		
			Note: Includes 4" square steel box, bracket, mud ring, switch and cover plate.		
26 27 26 00-0129	EA		1 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly.....	85.76	35.34
26 27 26 00-0130	EA		1 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly.....	92.20	38.37
26 27 26 00-0131	EA		2 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly.....	114.32	46.20
26 27 26 00-0132	EA		2 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly.....	125.20	51.25
26 27 26 00-0133	EA		3 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly.....	196.29	79.27
26 27 26 00-0134	EA		3 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly.....	212.61	86.84
26 27 26 00-0135	EA		4 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly.....	224.80	89.62
26 27 26 00-0136	EA		4 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly.....	246.56	99.71
26 27 26 00-0137			Switch Components <small>(26 27 26 00-0127)</small>		
26 27 26 00-0138	EA		15 Amperes, 120/277 Volt, SPST Switch.....	26.00	10.10
26 27 26 00-0139	EA		15 Amperes, 120/277 Volt, 3-Way Switch.....	32.88	12.62
26 27 26 00-0140	EA		15 Amperes, 120/277 Volt, 4-Way Switch.....	62.55	20.19
26 27 26 00-0141	EA		15 Amperes, 120/277 Volt, DPST Switch.....	29.38	10.10
26 27 26 00-0142	EA		15 Amperes, 120/277 Volt, Thermal Switch.....	54.13	12.62
26 27 26 00-0143	EA		20 Amperes, 120/277 Volt, SPST Switch.....	31.45	12.62
26 27 26 00-0144	EA		20 Amperes, 120/277 Volt, 3-Way Switch.....	38.77	15.15
26 27 26 00-0145	EA		20 Amperes, 120/277 Volt, 4-Way Switch.....	82.64	20.19
26 27 26 00-0146	EA		20 Amperes, 120/277 Volt, DPST Switch.....	36.87	12.62
26 27 26 00-0147	EA		20 Amperes, 120/277 Volt, DPDT Switch.....	39.27	12.62
26 27 26 00-0148	EA		15 Amperes, 120/277 Volt, Single Pole, Toggle, Three Position, Center Off, Momentary Contact Switch.....	62.19	12.65
26 27 26 00-0149	EA		15 Amperes, 120/277 Volt, Key Operated, Single Pole, Three Position, Center Off, Momentary Contact Switch.....	78.00	12.65
26 27 26 00-0150	EA		Momentary Contact Switch With Separate Neon Pilot.....	60.20	15.18
			Note: Neon Pilot is 125 V, 1 / 125W.		
26 27 26 00-0151	EA		20 Amperes, 125 Volt AC, Single Pole, Maintained Contact Switch With Center Off.....	47.37	17.67
			Note: Or 250 VAC 10 Amp, double throw BAT handle.		
26 27 26 00-0152	EA		20 Amperes, 125 Volt AC, Double Pole, Maintained Contact Switch.....	57.93	20.19
			Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.		
26 27 26 00-0153	EA		20 Amperes, 125 Volt AC, Three Pole, Maintained Contact Switch.....	82.69	20.19
			Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.		
26 27 26 00-0154	EA		30 Amperes, 120/277 Volt, Single Pole, Local Switch.....	63.38	20.23
26 27 26 00-0155	EA		30 Amperes, 120/277 Volt, Double Pole, Local Switch.....	77.59	20.23
26 27 26 00-0156	EA		30 Amperes, 120/277 Volt, Three-Way Local Switch.....	81.63	25.30
26 27 26 00-0157	EA		30 Amperes, 120/277 Volt, Four-Way Local Switch.....	113.10	27.83
26 27 26 00-0158	EA		15 Amperes, 120/277 Volt, Local Switch With Neon Pilot.....	56.44	16.55
26 27 26 00-0159	EA		15 Amperes, 120/277 Volt, Local Switch With Separate Neon Pilot.....	78.10	16.55
			Note: Neon pilot is 125V, 1/25W. Requires 2 gang installation.		
26 27 26 00-0160	EA		15 Amperes, 120 Volt, Clear Toggle, Lighted In On Position, Single Pole, Lighted Toggle Switch.....	68.76	16.55
26 27 26 00-0161	EA		15 Amperes, 120 Volt, Ivory Toggle, Lighted In Off Position, Lighted Toggle Switch.....	65.55	16.55
26 27 26 00-0162	EA		6 Amperes, 125 Volt, Door Open-Light On, Automatic Door Switch.....	70.22	8.20
26 27 26 00-0163	EA		6 Amperes, 125 Volt, Door Closed-Light On, Automatic Door Switch.....	74.57	8.20
26 27 26 00-0164	EA		15 Amperes, 120/277 Volt, Three Position, Center Off, Toggle, Single Pole Momentary Contact Switch.....	81.11	31.57
26 27 26 00-0165	EA		Three Position, Center Off, Key Operated, Momentary Contact Switch.....	96.92	31.57
			Note: 15A, 120/277 V, Single Pole		
26 27 26 00-0166	EA		Single Pole, Slide Dimmer (Leviton IP710-LFZ).....	113.60	10.12
26 27 26 00-0167	EA		8 Amperes, 120/277 Volt, 0 To 10 Volt Dimmer LED Control Switch, White (Lutron DVSTV-WH).....	92.40	10.12
26 27 26 00-0168	EA		120/277 Volt, (8 Amperes Lighting/3 Amperes Fan), Wireless Dimming Switch (Lutron MRF2-8S-DV-WH).....	190.34	10.10
26 27 26 00-0169	EA		120 Volt, Companion Wireless Dimmer Switch (Lutron MA-AS-WH).....	44.98	10.10
26 27 26 00-0170	EA		1200VA 0-10V LED And Fluorescent, Sunrise Electronic Wall Dimmer (Philips SR1200ZTUNV).....	99.08	10.12
26 27 26 00-0171	EA		1 Zone, 2 Button Wireless Scheduling Switch (LG 9SSA2B1T520.ALWB000).....	115.05	10.12
26 27 26 00-0172	EA		2 Zone, 4 Button Wireless Scheduling Switch (LG 9SSA2B2T520.ALWB000).....	149.90	10.12
26 27 26 00-0173	EA		Wireless Single Rocker Remote Switch (Leviton WSS0S-S9).....	116.89	10.12
26 27 26 00-0174			Specialty Switches <small>(26 27 26 00-0126)</small>		
26 27 26 00-0175			Dimmers With SPST Switch <small>(26 27 26 00-0174)</small>		
26 27 26 00-0176	EA		600 Watt Dimmers With SPST Switch.....	58.00	22.72
26 27 26 00-0177	EA		1,000 Watt Dimmers With SPST Switch.....	97.18	22.72
26 27 26 00-0178	EA		1,500 Watt Dimmers With SPST Switch.....	174.33	36.56
26 27 26 00-0179	EA		2,000 Watt Dimmers With SPST Switch.....	224.32	36.56
26 27 26 00-0180	EA		600 Watt Fluorescent Dimmer Switch.....	125.95	26.96
26 27 26 00-0181	EA		1,000 Watt Fluorescent Dimmer Switch.....	168.97	26.96
26 27 26 00-0182	EA		1,500 Watt Fluorescent Dimmer Switch.....	304.55	40.70
26 27 26 00-0183	EA		Remote Speed Switch For Paddle Fan.....	94.94	33.63
26 27 26 00-0184	EA		600 Watt Combination Remote Speed Switch/Incandescent Dimmer.....	155.75	50.18
26 27 26 00-0185			Time Switches <small>(26 27 26 00-0174)</small>		
26 27 26 00-0186	EA		40 Amperes, 125 Volt, SPST, Standard Time Switch.....	105.85	30.29
26 27 26 00-0187	EA		40 Amperes, 277 Volt, SPST, Standard Time Switch.....	108.11	30.29
26 27 26 00-0188	EA		40 Amperes, 125 Volt, DPST, Standard Time Switch.....	105.85	30.29
26 27 26 00-0189	EA		40 Amperes, 277 Volt, DPST, Standard Time Switch.....	108.11	30.29
26 27 26 00-0190	EA		40 Amperes, 125 Volt, SPST, 7-Day Time Switch.....	120.94	30.29
26 27 26 00-0191	EA		40 Amperes, 277 Volt, SPST, 7-Day Time Switch.....	120.94	30.29
26 27 26 00-0192	EA		40 Amperes, 125 Volt, DPDT, 7-Day Time Switch.....	209.95	30.29
26 27 26 00-0193	EA		40 Amperes, 277 Volt, DPDT, 7-Day Time Switch.....	209.95	30.29
26 27 26 00-0194	EA		20 Amperes, 125 Volt, SPST, Programmable Time Switch.....	181.39	30.29



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0195 EA 20 Amperes, 277 Volt, SPST, Programmable Time Switch	198.83	30.29
26 27 26 00-0196 EA 20 Amperes, 277 Volt, SPST, Weatherproof Programmable Time Switch	198.83	30.29
26 27 26 00-0197 EA 40 Amperes, 125 Volt, 4PST, Astro Dial Time Switch	240.05	30.29
26 27 26 00-0198 EA 40 Amperes, 277 Volt, 4PST, Astro Dial Time Switch	246.99	30.29
26 27 26 00-0199 EA 40 Amperes, 125 Volt, SPST, Weatherproof Standard Time Switch	105.85	30.29
26 27 26 00-0200 EA 40 Amperes, 277 Volt, SPST, Weatherproof Standard Time Switch	108.11	30.29
26 27 26 00-0201 EA 40 Amperes, 125 Volt, DPST, Weatherproof Standard Time Switch	105.85	30.29
26 27 26 00-0202 EA 40 Amperes, 277 Volt, DPST, Weatherproof Standard Time Switch	108.11	30.29
26 27 26 00-0203 EA 40 Amperes, 125 Volt, SPST, Weatherproof 7-Day Time Switch	120.94	30.29
26 27 26 00-0204 EA 40 Amperes, 277 Volt, SPST, Weatherproof 7-Day Time Switch	120.94	30.29
26 27 26 00-0205 EA 40 Amperes, 125 Volt, DPDT, Weatherproof 7-Day Time Switch	209.95	30.29
26 27 26 00-0206 EA 40 Amperes, 277 Volt, DPDT, Weatherproof 7-Day Time Switch	209.95	30.29
26 27 26 00-0207 EA 40 Amperes, 125 Volt, 4PST, Weatherproof Astro Dial Time Switch	240.05	30.29
26 27 26 00-0208 EA 40 Amperes, 277 Volt, 4PST, Weatherproof Astro Dial Time Switch	246.99	30.29
26 27 26 00-0209 Low Voltage Switching (26 27 26 00-0174)		
26 27 26 00-0210 EA 36 Pin Male Or Female Connector	166.52	10.10
26 27 26 00-0211 Other Switches (26 27 26 00-0174)		
26 27 26 00-0212 EA Pull Chain Switch 120/277 Volt AC Installed In Light Fixture	33.10	15.15
26 27 26 00-0213 EA SPST Locking Switch For Concealed Devices	100.22	40.40
26 27 26 00-0214 EA 3-Way Locking Switch For Concealed Devices	101.45	40.40
26 27 26 00-0215 EA Emergency Off Switch, With 1 Non-Closing Contact, Circular, Red, With Guard	110.02	37.77
26 27 26 00-0216 EA 15 Amperes Momentary Contact Switch	105.07	37.77
26 27 26 00-0217 EA 20 Amperes Momentary Contact Switch	110.28	37.77
26 27 26 00-0218 EA 2-1/4" Handy Box Cover Units Fuseholder Switch	105.57	45.53
26 27 26 00-0219 EA 2-3/4" Handy Box Cover Units Fuseholder Switch	107.03	45.53
26 27 26 00-0220 EA 4" Square Box Cover Units With 2 Fuseholders And 2 Switches	131.61	55.65
26 27 26 00-0221 EA 4" Square Box Cover Units With 1 Fuseholder And 1 Switch	119.68	50.59
26 27 26 00-0222 EA 4" Octagon Box Cover Units With 1 Fuseholder And 1 Switch	120.04	50.59
26 27 26 00-0223 Plates And Covers (26 27 26)		
26 27 26 00-0224 Wall Plates (26 27 26 00-0223)		
26 27 26 00-0225 Nylon Wall Plates (26 27 26 00-0224)		
26 27 26 00-0226 EA 1 Gang Nylon Switch Plate	1.53	0.50
26 27 26 00-0227 EA 2 Gang Nylon Switch Plate	2.56	0.76
26 27 26 00-0228 EA 3 Gang Nylon Switch Plate	3.61	1.01
26 27 26 00-0229 EA 4 Gang Nylon Switch Plate	5.16	1.27
26 27 26 00-0230 EA 1 Gang Duplex Nylon Wall Plate	1.54	0.50
26 27 26 00-0231 EA 2 Gang Duplex Nylon Wall Plate	2.62	0.76
26 27 26 00-0232 Plastic Wall Plates (26 27 26 00-0224)		
26 27 26 00-0233 EA 1 Gang Plastic Switch Plate	1.42	0.50
26 27 26 00-0234 EA 2 Gang Plastic Switch Plate	2.35	0.76
26 27 26 00-0235 EA 3 Gang Plastic Switch Plate	3.28	1.01
26 27 26 00-0236 EA 4 Gang Plastic Switch Plate	5.16	1.27
26 27 26 00-0237 EA 1 Gang Duplex Plastic Wall Plate	1.42	0.50
26 27 26 00-0238 EA 2 Gang Duplex Plastic Wall Plate	2.36	0.76
26 27 26 00-0239 Brass Wall Plates (26 27 26 00-0224)		
26 27 26 00-0240 EA 1 Gang, 0.04" Brass Switch Plate	14.30	2.28
26 27 26 00-0241 EA 2 Gang, 0.04" Brass Switch Plate	26.42	2.63
26 27 26 00-0242 EA 3 Gang, 0.04" Brass Switch Plate	38.44	2.93
26 27 26 00-0243 EA 4 Gang, 0.04" Brass Switch Plate	59.48	3.18
26 27 26 00-0244 EA 5 Gang, 0.04" Brass Switch Plate	72.34	3.39
26 27 26 00-0245 EA 6 Gang, 0.04" Brass Switch Plate	83.63	3.54
26 27 26 00-0246 EA 1 Gang, 0.04" Brass Duplex Receptacle Wall Plate	14.30	2.28
26 27 26 00-0247 EA 2 Gang, 0.04" Brass Duplex Receptacle Wall Plate	30.86	2.63
26 27 26 00-0248 EA 3 Gang 0.04" Brass Duplex Receptacle Wall Plate	44.29	2.93
26 27 26 00-0249 Stainless Steel Wall Plates (26 27 26 00-0224)		
26 27 26 00-0250 EA 1 Gang, 302 Stainless Steel Switch Plate With Satin Finish	7.89	2.28
26 27 26 00-0251 EA 2 Gang, 302 Stainless Steel Switch Plate With Satin Finish	12.42	2.63
26 27 26 00-0252 EA 3 Gang, 302 Stainless Steel Switch Plate With Satin Finish	17.18	2.93
26 27 26 00-0253 EA 4 Gang, 302 Stainless Steel Switch Plate With Satin Finish	24.94	3.18
26 27 26 00-0254 EA 5 Gang, 302 Stainless Steel Switch Plate With Satin Finish	29.29	3.39
26 27 26 00-0255 EA 6 Gang, 302 Stainless Steel Switch Plate With Satin Finish	35.29	3.54
26 27 26 00-0256 EA 1 Gang, 302 Stainless Steel Duplex Receptacle Wall Plate With Satin Finish	8.60	2.28
26 27 26 00-0257 EA 2 Gang, 302 Stainless Steel Duplex Receptacle Wall Plate With Satin Finish	14.08	2.63
26 27 26 00-0258 EA 3 Gang, 302 Stainless Steel Duplex Receptacle Wall Plate With Satin Finish	22.67	2.93
26 27 26 00-0259 EA 4 Gang, 302 Stainless Steel Duplex Receptacle Wall Plate With Satin Finish	27.32	3.18

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0260			Chrome Wall Plates <small>(26 27 26 00-0224)</small>		
26 27 26 00-0261	EA		1 Gang, 0.040" Chrome Switch Plate With Chromium Finish.....	28.10	2.28
26 27 26 00-0262	EA		2 Gang 0.040" Chrome Switch Plate With Chromium Finish.....	52.27	2.63
26 27 26 00-0263	EA		3 Gang 0.040" Chrome Switch Plate With Chromium Finish.....	76.41	2.93
26 27 26 00-0264	EA		1 Gang 0.040" Chrome Duplex Receptacle Wall Plate With Chromium Finish.....	28.08	2.28
26 27 26 00-0265			Weatherproof Covers <small>(26 27 26 00-0223)</small>		
26 27 26 00-0266			Stamped Metallic Weatherproof Covers <small>(26 27 26 00-0265)</small>		
			Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0267	EA		Blank Cover, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FBC).....	9.61	0.50
26 27 26 00-0268	EA		Duplex Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FAC).....	10.41	0.50
26 27 26 00-0269	EA		Single Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FRC).....	10.41	0.50
26 27 26 00-0270	EA		Toggle Switch, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FTC).....	10.41	0.50
26 27 26 00-0271	EA		Blank Cover, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FBC).....	12.78	0.76
26 27 26 00-0272	EA		Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FAC).....	14.50	0.76
26 27 26 00-0273	EA		Single Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FRC).....	14.67	0.76
26 27 26 00-0274	EA		Toggle Switch, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTC).....	14.67	0.76
26 27 26 00-0275	EA		Toggle Switch And Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTAC).....	19.91	0.76
26 27 26 00-0276	EA		Blank Cover, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FB).....	18.90	1.01
26 27 26 00-0277	EA		Toggle Switch, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FT).....	20.65	1.01
26 27 26 00-0278			Cast Metallic Weatherproof Covers <small>(26 27 26 00-0265)</small>		
			Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0279	EA		Blank Cover, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSBC).....	11.75	0.50
26 27 26 00-0280	EA		Duplex Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLA).....	37.39	0.50
26 27 26 00-0281	EA		Single Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLR).....	41.92	0.50
26 27 26 00-0282	EA		Guarded Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSTG).....	11.66	0.50
26 27 26 00-0283	EA		Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLT).....	31.70	0.50
26 27 26 00-0284	EA		Lever Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSPT).....	52.69	0.50
26 27 26 00-0285	EA		Plunger Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FST).....	67.07	0.50
26 27 26 00-0286	EA		Blank Cover, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FSBC).....	14.67	0.76
26 27 26 00-0287	EA		Plunger Operated Toggle Switch, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FST).....	105.95	0.76
26 27 26 00-0288	EA		Blank Cover, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FSBC).....	24.52	1.01
26 27 26 00-0289	EA		Plunger Operated Toggle Switch, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FST).....	101.24	1.01
26 27 26 00-0290			Die Cast Aluminum Weatherproof Covers <small>(26 27 26 00-0265)</small>		
			Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0291	EA		Duplex Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5027).....	4.13	0.50
26 27 26 00-0292	EA		Single Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5026).....	5.28	0.50
26 27 26 00-0293	EA		Duplex Receptacles, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5032).....	7.10	0.76
26 27 26 00-0294	EA		Toggle Switch, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5041).....	7.69	0.76
26 27 26 00-0295	EA		Toggle Switch And Duplex Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5042).....	7.69	0.76
26 27 26 00-0296	EA		Toggle Switch And Single Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5043).....	8.55	0.76
26 27 26 00-0297			Heavy Duty Die Cast Aluminum Weatherproof Covers <small>(26 27 26 00-0265)</small>		
			Note: Includes baked on lacquer finish and neoprene gasket.		
26 27 26 00-0298	EA		Duplex Receptacle, Single Gang, Heavy Duty Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Pass & Seymour Legrand® 4510).....	41.33	0.50
26 27 26 00-0299			Polycarbonate Weatherproof Covers <small>(26 27 26 00-0265)</small>		
			Note: Includes neoprene gasket.		
26 27 26 00-0300	EA		Toggle Switch, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730).....	8.40	0.50
26 27 26 00-0301	EA		Duplex Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730).....	8.40	0.50
26 27 26 00-0302	EA		Single Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730).....	8.40	0.50
26 27 26 00-0303	EA		Duplex Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775).....	10.42	0.76
26 27 26 00-0304	EA		Toggle Switch And Single Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775).....	10.42	0.76
26 27 26 00-0305			High Impact Thermoplastic Weatherproof Covers <small>(26 27 26 00-0265)</small>		
			Note: Includes neoprene gasket.		
26 27 26 00-0306	EA		Duplex Receptacle, Single Gang, High Impact Thermoplastic Weatherproof Cover With Self Closing Lid (Hubbell® HBL522).....	63.66	0.50
26 27 26 00-0307			Non Metallic (PVC) Weatherproof Covers <small>(26 27 26 00-0265)</small>		
			Note: Includes neoprene gasket.		
26 27 26 00-0308	EA		Blank Cover, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	11.67	0.50
26 27 26 00-0309	EA		Blank Cover, Two Gang, Non Metallic (PVC) Weatherproof Cover.....	12.49	0.76
26 27 26 00-0310	EA		Toggle Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	11.71	0.50
26 27 26 00-0311	EA		Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	25.92	0.50
26 27 26 00-0312	EA		Duplex Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	30.06	0.50
26 27 26 00-0313	EA		20 Amperes, Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	24.35	0.50



Electrical	26	
Low-Voltage Electrical Distribution	26 20	26
Low-Voltage Distribution Equipment	26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0314 EA 30 Amperes, Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	18.12	0.50
26 27 26 00-0315 EA 50 Amperes, Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	21.22	0.50
26 27 26 00-0316 EA Plunger Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	18.97	0.50
26 27 26 00-0317 EA Double Duplex Receptacle, Two Gang, Non Metallic (PVC) Weatherproof Cover.....	27.30	0.76
26 27 26 00-0318 Removal And Reinstallation Of Wiring Devices (26 27 26)		
Note: Includes storage and cleaning.		
26 27 26 00-0319 EA Removal And Reinstallation Of Receptacle, Switch, Outlet Or Special System Device.....	66.44	
26 27 26 00-0320 EA Removal And Reinstallation Of Receptacle Or Switch Outlet Cover Plate.....	8.41	
26 27 26 00-0321 In Line Midget Fuseholders (26 27 26)		
See CSI section 26 28 13 00-0078 for fuses.		
26 27 26 00-0322 EA Single Pole Water Resistant In Line Midget Fuseholder.....	68.94	
26 27 26 00-0323 EA Double Pole Water Resistant In Line Midget Fuseholder.....	152.38	
26 27 26 00-0324 Relay Systems (26 27 26)		
26 27 26 00-0325 EA 10 Amperes, 24 Volt Coil, 2 Position Relay.....	73.03	22.72
26 27 26 00-0326 EA 20 Amperes, 120 Volt Coil, Up To 4 Contacts, Industrial Control Relay.....	303.78	75.73
26 27 26 00-0327 EA 20 Amperes, 120 Volt Coil, 12 Contacts, Industrial Control Relay.....	506.83	100.98
26 27 26 00-0328 Limit Switches (26 27 26)		
26 27 26 00-0329 Heavy Duty Precision Oiltight (26 27 26 00-0328)		
26 27 26 00-0330 Lever Arm, Plunger, Wobble Stick Type (26 27 26 00-0329)		
26 27 26 00-0331 EA Limit Switch, Heavy Duty, Lever Arm Weatherproof, 10 Amperes Rated.....	390.04	63.62
26 27 33 Power Distribution Units (26 27)		
Note: Includes wiring connections and testing.		
26 27 33 00-0001 Liebert Precision Power Center (26 27 33)		
Note: With K20 Trans Spike Suppression Modules Lighting/ Surge Arrestors. Includes start-up.		
26 27 33 00-0002 EA PDU 15 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC015C).....	14,792.42	310.51
26 27 33 00-0003 EA PDU 30 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC030C).....	17,851.89	336.57
26 27 33 00-0004 EA PDU 50 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC050C).....	20,342.60	373.63
26 27 33 00-0005 EA PDU 75 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC075C).....	23,399.58	403.92
26 27 33 00-0006 EA PDU 100 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC100C).....	25,549.10	504.91
26 27 33 00-0007 EA PDU 125 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC125C).....	28,672.41	605.89
26 27 33 00-0008 EA PDU 150 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC150C).....	33,084.53	706.87
26 27 33 00-0009 EA PDU 200 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC200C).....	34,804.46	807.85
26 27 33 00-0010 EA PDU 225 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC225C).....	36,782.14	908.83
26 27 33 00-0011 EA Ex Panelboard 10-30 KVA.....	1,330.41	100.98
26 27 33 00-0012 EA Ex Panelboard 50-125 KVA.....	1,982.34	126.22
26 27 33 00-0013 EA Ex Panelboard 150-220 KVA.....	4,438.65	151.47
26 27 33 00-0014 EA Removal And Reinstallation Of Power Distribution Unit.....	1,615.70	
Note: Includes disconnection / reconnection of branch circuits, storage and cleaning.		
26 27 33 00-0015 EA Start-Up Liebert Power Distribution Unit Line Item Applies To A Relocation Only.....	1,211.78	
26 27 73 Door Chimes (26 27)		
26 27 73 00-0001 Door Bell Chime And Door Button With Built-In Viewer (26 27 73)		
Note: Non-electric chime, mounted on door		
26 27 73 00-0002 EA Mechanical Door Bell Chime And Door Button With Built-In Viewer (Newhouse Hardware MCHBV).....	67.36	15.67
26 27 73 00-0003 Wireless Door Bell System (26 27 73)		
26 27 73 00-0004 EA Wireless Doorbell Chime And Push Button (Broan LA542WH).....	106.19	
Note: Includes 2 push buttons		
26 27 73 00-0005 EA Wireless Doorbell Chime And Push Button (STI-3350G).....	100.44	
Note: Includes 2 push buttons		
26 27 73 00-0006 EA Wireless Doorbell Chime And Push Button (GE 19300).....	76.94	
Note: Includes 2 push buttons		
26 27 73 00-0007 Door Bell Buzzer System, Wired (26 27 73)		
26 27 73 00-0008 EA Door Bell, Push-Button And Transformer, Complete.....	543.03	210.35
26 27 73 00-0009 EA Visual Flashing Doorbell Indicator, Wire To Existing System, Complete.....	215.78	50.49
26 27 73 00-0010 EA Removal And Replacement Of Bell/Buzzer, Complete.....	88.21	25.25
Note: Includes removal of existing.		
26 28 Low-Voltage Circuit Protective Devices (26 20)		
26 28 13 Fuses (26 28)		
26 28 13 00-0001 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuses (26 28 13)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0042 EA 400 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse .....194.75 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 8.18	12.32	
26 28 13 00-0043 EA 450 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse .....425.68 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 8.18	12.32	
26 28 13 00-0044 EA 500 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse .....404.66 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 10.00	15.05	
26 28 13 00-0045 EA 600 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse .....317.38 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 10.00	15.05	
26 28 13 00-0046 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuses ⁽²⁶ _{28 13 00-0013)}		
26 28 13 00-0047 EA 1 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse .....46.88 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.85	7.27	
26 28 13 00-0048 EA 2 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse .....43.92 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.85	7.27	
26 28 13 00-0049 EA 3 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse .....41.44 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.85	7.27	
26 28 13 00-0050 EA 4 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse .....42.26 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.85	7.27	
26 28 13 00-0051 EA 5 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse .....41.55 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.85	7.27	
26 28 13 00-0052 EA 10 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse .....41.81 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.85	7.27	
26 28 13 00-0053 EA 15 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse .....39.10 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.85	7.27	
26 28 13 00-0054 EA 20 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse .....38.83 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.85	7.27	
26 28 13 00-0055 EA 25 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse .....38.47 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.85	7.27	
26 28 13 00-0056 EA 30 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse .....39.00 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.85	7.27	
26 28 13 00-0057 EA 35 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse .....55.05 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.85	7.27	
26 28 13 00-0058 EA 40 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse .....55.18 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.85	7.27	
26 28 13 00-0059 EA 45 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse .....54.16 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.85	7.27	
26 28 13 00-0060 EA 50 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse .....54.64 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.85	7.27	
26 28 13 00-0061 EA 60 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse .....55.07 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.85	7.27	
26 28 13 00-0062 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuses ^{(26 28} _{13 00-0013)}		
26 28 13 00-0063 EA 70 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse .....101.05 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 6.06	9.08	
26 28 13 00-0064 EA 80 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse .....103.89 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 6.67	10.00	
26 28 13 00-0065 EA 90 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse .....103.35 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 6.67	10.00	
26 28 13 00-0066 EA 100 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse .....103.77 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 6.67	10.00	
26 28 13 00-0067 EA 110 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse .....185.99 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 6.67	10.00	
26 28 13 00-0068 EA 125 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse .....188.72 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 6.67	10.00	
26 28 13 00-0069 EA 150 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse .....187.52 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 8.18	12.32	
26 28 13 00-0070 EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse .....187.07 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 8.18	12.32	
26 28 13 00-0071 EA 250 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse .....350.92 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 8.18	12.32	
26 28 13 00-0072 EA 300 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse .....354.46 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 10.00	15.05	
26 28 13 00-0073 EA 350 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse .....398.71 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 10.00	15.05	
26 28 13 00-0074 EA 400 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse .....361.98 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 10.00	15.05	
26 28 13 00-0075 EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse .....643.98 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 10.00	15.05	
26 28 13 00-0076 EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse .....576.19 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 12.12	18.18	
26 28 13 00-0077 EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse .....503.75 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 12.12	18.18	
26 28 13 00-0078 600 Volt AC, Class CC Midget Fuses ^(26 28 13) Note: 250/300 Volt DC.		
26 28 13 00-0079 EA 1 Amperes, 600 Volt AC, Class CC Midget Fuse .....35.81 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.85	7.27	
26 28 13 00-0080 EA 2 Amperes, 600 Volt AC, Class CC Midget Fuse .....36.30 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.85	7.27	

26 Electrical

26 20 Low-Voltage Electrical Distribution

26 28 Low-Voltage Circuit Protective Devices



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0081	EA	3 Amperes, 600 Volt AC, Class CC Midget Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.16 4.85	7.27
26 28 13 00-0082	EA	5 Amperes, 600 Volt AC, Class CC Midget Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.00 4.85	7.27
26 28 13 00-0083	EA	6 Amperes, 600 Volt AC, Class CC Midget Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.33 4.85	7.27
26 28 13 00-0084	EA	8 Amperes, 600 Volt AC, Class CC Midget Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.61 4.85	7.27
26 28 13 00-0085	EA	10 Amperes, 600 Volt AC, Class CC Midget Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.98 4.85	7.27
26 28 13 00-0086	EA	15 Amperes, 600 Volt AC, Class CC Midget Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.02 4.85	7.27
26 28 13 00-0087	EA	20 Amperes, 600 Volt AC, Class CC Midget Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.41 4.85	7.27
26 28 13 00-0088	EA	25 Amperes, 600 Volt AC, Class CC Midget Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.02 4.85	7.27
26 28 13 00-0089	EA	30 Amperes, 600 Volt AC, Class CC Midget Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.20 4.85	7.27
26 28 13 00-0090		200,000 Ampere Interrupting Capacity, 600 Volt AC, Class J Bolted Fuse <small>26</small>		
26 28 13 00-0091	EA	1 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.82 3.03	5.05
26 28 13 00-0092	EA	3 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.14 3.03	5.05
26 28 13 00-0093	EA	6 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.82 3.64	6.06
26 28 13 00-0094	EA	10 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.26 4.55	7.57
26 28 13 00-0095	EA	15 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.03 4.55	7.57
26 28 13 00-0096	EA	20 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.34 4.55	7.57
26 28 13 00-0097	EA	25 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.30 6.06	10.10
26 28 13 00-0098	EA	30 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.56 6.06	10.10
26 28 13 00-0099	EA	35 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.44 6.06	10.10
26 28 13 00-0100	EA	40 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.49 6.06	10.10
26 28 13 00-0101	EA	45 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.91 6.06	10.10
26 28 13 00-0102	EA	50 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.53 7.58	12.62
26 28 13 00-0103	EA	60 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.46 7.58	12.62
26 28 13 00-0104	EA	70 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95.21 9.09	15.15
26 28 13 00-0105	EA	80 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	101.12 9.09	15.15
26 28 13 00-0106	EA	90 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	99.61 9.09	15.15
26 28 13 00-0107	EA	100 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.99 10.60	17.67
26 28 13 00-0108	EA	110 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	199.11 10.60	17.67
26 28 13 00-0109	EA	125 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	170.25 10.60	17.67
26 28 13 00-0110	EA	150 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	163.66 12.12	20.19
26 28 13 00-0111	EA	175 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	165.96 12.12	20.19
26 28 13 00-0112	EA	200 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	139.11 12.12	20.19
26 28 13 00-0113	EA	225 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	339.85 12.12	20.19
26 28 13 00-0114	EA	250 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	314.80 12.12	20.19
26 28 13 00-0115	EA	300 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	290.69 12.12	20.19
26 28 13 00-0116	EA	350 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	316.35 12.12	20.19
26 28 13 00-0117	EA	400 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	263.52 13.63	22.72
26 28 13 00-0118	EA	450 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	549.79 13.63	22.72
26 28 13 00-0119	EA	500 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	468.98 15.15	25.25
26 28 13 00-0120	EA	600 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	351.37 15.15	25.25



Electrical 26		26
Low-Voltage Electrical Distribution 26 20		
Low-Voltage Circuit Protective Devices 26 28		

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0121 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuses <small>(26 28 13)</small>		
26 28 13 00-0122 EA 100 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,039.87	12.62
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.58	
26 28 13 00-0123 EA 150 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,041.91	12.62
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.58	
26 28 13 00-0124 EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,043.82	12.62
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.58	
26 28 13 00-0125 EA 250 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,041.54	15.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.09	
26 28 13 00-0126 EA 300 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	959.75	15.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.09	
26 28 13 00-0127 EA 350 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,027.57	17.67
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.60	
26 28 13 00-0128 EA 400 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	946.37	17.67
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.60	
26 28 13 00-0129 EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,057.57	17.67
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.60	
26 28 13 00-0130 EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,037.08	17.67
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.60	
26 28 13 00-0131 EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	924.36	20.19
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.12	
26 28 13 00-0132 EA 601 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	949.01	20.19
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.12	
26 28 13 00-0133 EA 650 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,258.76	20.19
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.12	
26 28 13 00-0134 EA 700 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	919.90	20.19
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.12	
26 28 13 00-0135 EA 750 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,408.87	22.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.63	
26 28 13 00-0136 EA 800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	815.78	22.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.63	
26 28 13 00-0137 EA 900 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,186.62	22.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.63	
26 28 13 00-0138 EA 1,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	802.23	22.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.63	
26 28 13 00-0139 EA 1,200 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	825.80	22.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.63	
26 28 13 00-0140 EA 1,350 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,823.37	22.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.63	
26 28 13 00-0141 EA 1,400 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,797.90	22.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.63	
26 28 13 00-0142 EA 1,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,623.11	22.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.63	
26 28 13 00-0143 EA 1,600 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,019.04	25.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.15	
26 28 13 00-0144 EA 1,800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,146.96	25.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.15	
26 28 13 00-0145 EA 2,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,378.56	25.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.15	
26 28 13 00-0146 EA 2,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,859.59	25.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.15	
26 28 13 00-0147 EA 2,501 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	3,159.86	25.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.15	
26 28 13 00-0148 EA 3,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,072.88	27.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.66	
26 28 13 00-0149 EA 3,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	4,273.21	27.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.66	
26 28 13 00-0150 EA 3,800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	4,956.38	27.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.66	
26 28 13 00-0151 EA 4,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,871.30	27.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.66	
26 28 13 00-0152 EA 5,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	4,524.06	27.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.66	
26 28 13 00-0153 EA 6,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	7,480.83	27.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.66	
26 28 16 Enclosed Switches and Circuit Breakers <small>(26 28)</small>		
26 28 16 13 Enclosed Circuit Breakers <small>(26 28 16)</small>		
26 28 16 13-0001 Branch Circuit Breakers <small>(26 28 16 13)</small>		
Note: For installation in existing and new panelboards. Use task modifier for installation in new panelboards.		
26 28 16 13-0002 Branch Circuit Breakers 10,000 Amperes Interrupting Capacity, Plug-On <small>(26 28 16 13-0001)</small>		
Note: Includes connection of electrical wire.		
26 28 16 13-0003 EA 1 Pole, 120/240 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	47.15	18.18
<i>For Bolt-On, Add</i>	12.96	
<i>For Installation In New Panelboard, Deduct</i>	-10.10	
Note: Also for use with new interiors in panelboards.		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.12	

26	26 Electrical
	26 20 Low-Voltage Electrical Distribution
	26 28 Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0004 EA 1 Pole, 120/240 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	47.15	18.18
<i>For Bolt-On, Add</i>	12.96	
<i>For Installation In New Panelboard, Deduct</i>	-10.10	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.12	
26 28 16 13-0005 EA 1 Pole, 120/240 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	66.06	22.72
<i>For Bolt-On, Add</i>	17.09	
<i>For Installation In New Panelboard, Deduct</i>	-12.62	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.15	
26 28 16 13-0006 EA 1 Pole GFI, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	92.83	22.72
<i>For Bolt-On, Add</i>	20.44	
<i>For Installation In New Panelboard, Deduct</i>	-12.62	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.15	
26 28 16 13-0007 EA 1 Pole GFI, 15 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity	123.44	22.72
<i>For Bolt-On, Add</i>	24.27	
<i>For Installation In New Panelboard, Deduct</i>	-12.62	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.15	
26 28 16 13-0008 EA 1 Pole GFI, 15 To 30 Amperes, 120/240 Volt, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity	140.89	22.72
<i>For Bolt-On, Add</i>	26.45	
<i>For Installation In New Panelboard, Deduct</i>	-12.62	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.15	
26 28 16 13-0009 EA 1 Pole GFI, 15 To 20 Amperes, 120/240 Volt, "Arc Fault" Circuit Breaker, 10,000 Amperes Interrupting Capacity	75.97	22.72
<i>For Bolt-On, Add</i>	18.33	
<i>For Installation In New Panelboard, Deduct</i>	-12.62	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.15	
26 28 16 13-0010 EA 2 Pole, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	76.16	27.26
<i>For Bolt-On, Add</i>	20.12	
<i>For Installation In New Panelboard, Deduct</i>	-15.15	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.18	
26 28 16 13-0011 EA 2 Pole, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	76.16	27.26
<i>For Bolt-On, Add</i>	20.12	
<i>For Installation In New Panelboard, Deduct</i>	-15.15	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.18	
26 28 16 13-0012 EA 2 Pole, 70 To 100 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	111.92	36.36
<i>For Bolt-On, Add</i>	28.13	
<i>For Installation In New Panelboard, Deduct</i>	-20.20	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.23	
26 28 16 13-0013 EA 2 Pole, 110 To 125 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	176.25	45.44
<i>For Bolt-On, Add</i>	39.70	
<i>For Installation In New Panelboard, Deduct</i>	-25.25	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.29	
26 28 16 13-0014 EA 2 Pole, 150 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	205.55	50.49
<i>For Bolt-On, Add</i>	45.13	
<i>For Installation In New Panelboard, Deduct</i>	-27.77	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.32	
26 28 16 13-0015 EA 2 Pole GFI, 15 To 50 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	168.32	32.32
<i>For Bolt-On, Add</i>	33.76	
<i>For Installation In New Panelboard, Deduct</i>	-18.18	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.81	
26 28 16 13-0016 EA 2 Pole GFI, 15 To 50 Amperes, 120/240 Volt, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity	218.39	32.32
<i>For Bolt-On, Add</i>	40.02	
<i>For Installation In New Panelboard, Deduct</i>	-18.18	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.81	
26 28 16 13-0017 EA 3 Pole, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	135.28	36.36
<i>For Bolt-On, Add</i>	31.05	
<i>For Installation In New Panelboard, Deduct</i>	-20.20	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.23	
26 28 16 13-0018 EA 3 Pole, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	135.28	36.36
<i>For Bolt-On, Add</i>	31.05	
<i>For Installation In New Panelboard, Deduct</i>	-20.20	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.23	
26 28 16 13-0019 EA 3 Pole, 70 To 100 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	175.95	45.44
<i>For Bolt-On, Add</i>	39.67	
<i>For Installation In New Panelboard, Deduct</i>	-25.25	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.29	



Electrical	26	
Low-Voltage Electrical Distribution	26 20	26
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0020 EA 3 Pole, 110 To 125 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	257.39	54.53
For Bolt-On, Add	53.38	
For Installation In New Panelboard, Deduct	-30.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.35	
26 28 16 13-0021 EA 3 Pole, 150 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	324.70	63.62
For Bolt-On, Add	65.33	
For Installation In New Panelboard, Deduct	-35.35	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.41	
26 28 16 13-0022 Branch Circuit Breakers 14,000 Amperes Interrupting Capacity, Plug-On ^(26 28)		
^{16 13-0001}		
Note: Includes connection of electrical wire.		
26 28 16 13-0023 EA 1 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	63.01	18.18
For Bolt-On, Add	14.95	
For Installation In New Panelboard, Deduct	-10.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.12	
26 28 16 13-0024 EA 1 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	63.01	18.18
For Bolt-On, Add	14.95	
For Installation In New Panelboard, Deduct	-10.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.12	
26 28 16 13-0025 EA 1 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	106.61	22.72
For Bolt-On, Add	22.16	
For Installation In New Panelboard, Deduct	-12.62	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.15	
26 28 16 13-0026 EA 1 Pole GFI, 277/480 Volt, 15 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	158.07	22.72
For Bolt-On, Add	28.59	
For Installation In New Panelboard, Deduct	-12.62	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.15	
26 28 16 13-0027 EA 2 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	117.92	27.26
For Bolt-On, Add	25.34	
For Installation In New Panelboard, Deduct	-15.15	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.18	
26 28 16 13-0028 EA 2 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	117.92	27.26
For Bolt-On, Add	25.34	
For Installation In New Panelboard, Deduct	-15.15	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.18	
26 28 16 13-0029 EA 2 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	221.63	36.36
For Bolt-On, Add	41.84	
For Installation In New Panelboard, Deduct	-20.20	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.23	
26 28 16 13-0030 EA 2 Pole, 277/480 Volt, 110 To 125 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	299.45	45.44
For Bolt-On, Add	55.10	
For Installation In New Panelboard, Deduct	-25.25	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.29	
26 28 16 13-0031 EA 2 Pole, 277/480 Volt, 150 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	429.78	50.49
For Bolt-On, Add	73.16	
For Installation In New Panelboard, Deduct	-27.77	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.32	
26 28 16 13-0032 EA 3 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	183.72	36.36
For Bolt-On, Add	37.10	
For Installation In New Panelboard, Deduct	-20.20	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.23	
26 28 16 13-0033 EA 3 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	183.72	36.36
For Bolt-On, Add	37.10	
For Installation In New Panelboard, Deduct	-20.20	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.23	
26 28 16 13-0034 EA 3 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	269.32	45.44
For Bolt-On, Add	51.34	
For Installation In New Panelboard, Deduct	-25.25	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.29	
26 28 16 13-0035 EA 3 Pole, 277/480 Volt, 110 To 125 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	376.99	54.53
For Bolt-On, Add	68.33	
For Installation In New Panelboard, Deduct	-30.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.35	
26 28 16 13-0036 EA 3 Pole, 277/480 Volt, 150 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	571.04	63.62
For Bolt-On, Add	96.12	
For Installation In New Panelboard, Deduct	-35.35	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.41	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 28 Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0037 EA 3 Pole, 277/480 Volt, 175 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	655.77	68.16
<i>For Bolt-On, Add</i>	108.48	
<i>For Installation In New Panelboard, Deduct</i>	-37.87	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.44	
26 28 16 13-0038 EA 3 Pole, 277/480 Volt, 200 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	704.19	72.70
<i>For Bolt-On, Add</i>	116.30	
<i>For Installation In New Panelboard, Deduct</i>	-40.39	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.47	
26 28 16 13-0039 EA 3 Pole, 277/480 Volt, 225 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	827.93	77.25
<i>For Bolt-On, Add</i>	133.53	
<i>For Installation In New Panelboard, Deduct</i>	-42.92	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.50	
26 28 16 13-0040 Branch Circuit Breakers 18,000 Amperes Interrupting Capacity, Plug-On ^{(26 28}		
^{16 13-0001)}		
<i>Note: Includes connection of electrical wire.</i>		
26 28 16 13-0041 EA 15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	73.43	18.18
<i>For Bolt-On, Add</i>	16.25	
<i>For Installation In New Panelboard, Deduct</i>	-10.10	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.12	
26 28 16 13-0042 EA 35 To 60 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	73.43	18.18
<i>For Bolt-On, Add</i>	16.25	
<i>For Installation In New Panelboard, Deduct</i>	-10.10	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.12	
26 28 16 13-0043 EA 70 To 100 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	116.90	22.72
<i>For Bolt-On, Add</i>	23.45	
<i>For Installation In New Panelboard, Deduct</i>	-12.62	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.15	
26 28 16 13-0044 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	145.08	27.26
<i>For Bolt-On, Add</i>	28.74	
<i>For Installation In New Panelboard, Deduct</i>	-15.15	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.18	
26 28 16 13-0045 EA 35 To 60 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	145.08	27.26
<i>For Bolt-On, Add</i>	28.74	
<i>For Installation In New Panelboard, Deduct</i>	-15.15	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.18	
26 28 16 13-0046 EA 70 To 100 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	247.68	36.36
<i>For Bolt-On, Add</i>	45.10	
<i>For Installation In New Panelboard, Deduct</i>	-20.20	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.23	
26 28 16 13-0047 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	606.54	45.44
<i>For Bolt-On, Add</i>	93.49	
<i>For Installation In New Panelboard, Deduct</i>	-25.25	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.29	
26 28 16 13-0048 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	228.55	36.36
<i>For Bolt-On, Add</i>	42.71	
<i>For Installation In New Panelboard, Deduct</i>	-20.20	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.23	
26 28 16 13-0049 EA 35 To 60 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	228.55	36.36
<i>For Bolt-On, Add</i>	42.71	
<i>For Installation In New Panelboard, Deduct</i>	-20.20	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.23	
26 28 16 13-0050 EA 70 To 100 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	301.95	45.44
<i>For Bolt-On, Add</i>	55.42	
<i>For Installation In New Panelboard, Deduct</i>	-25.25	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.29	
26 28 16 13-0051 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	749.83	54.53
<i>For Bolt-On, Add</i>	114.94	
<i>For Installation In New Panelboard, Deduct</i>	-30.30	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.35	
26 28 16 13-0052 Branch Circuit Breakers 22,000 Amperes Interrupting Capacity, Plug-On ^{(26 28}		
^{16 13-0001)}		
<i>Note: Includes connection of electrical wire.</i>		
26 28 16 13-0053 EA 15 To 30 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	82.28	18.18
<i>For Bolt-On, Add</i>	17.36	
<i>For Installation In New Panelboard, Deduct</i>	-10.10	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.12	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0054	EA	35 To 60 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	82.28	18.18
		<i>For Bolt-On, Add</i>	17.36	
		<i>For Installation In New Panelboard, Deduct</i>	-10.10	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.12	
26 28 16 13-0055	EA	70 To 100 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	97.75	22.72
		<i>For Bolt-On, Add</i>	21.05	
		<i>For Installation In New Panelboard, Deduct</i>	-12.62	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.15	
26 28 16 13-0056	EA	15 To 30 Amperes, 1 Pole GFI, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	156.89	22.72
		<i>For Bolt-On, Add</i>	28.45	
		<i>For Installation In New Panelboard, Deduct</i>	-12.62	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.15	
26 28 16 13-0057	EA	15 To 30 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	168.17	27.26
		<i>For Bolt-On, Add</i>	31.62	
		<i>For Installation In New Panelboard, Deduct</i>	-15.15	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.18	
26 28 16 13-0058	EA	35 To 60 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	168.17	27.26
		<i>For Bolt-On, Add</i>	31.62	
		<i>For Installation In New Panelboard, Deduct</i>	-15.15	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.18	
26 28 16 13-0059	EA	70 To 100 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	205.84	36.36
		<i>For Bolt-On, Add</i>	39.87	
		<i>For Installation In New Panelboard, Deduct</i>	-20.20	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.23	
26 28 16 13-0060	EA	110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	292.71	45.44
		<i>For Bolt-On, Add</i>	54.26	
		<i>For Installation In New Panelboard, Deduct</i>	-25.25	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.29	
26 28 16 13-0061	EA	150 To 225 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	373.49	50.49
		<i>For Bolt-On, Add</i>	66.12	
		<i>For Installation In New Panelboard, Deduct</i>	-27.77	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.32	
26 28 16 13-0062	EA	250 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	464.40	59.08
		<i>For Bolt-On, Add</i>	81.02	
		<i>For Installation In New Panelboard, Deduct</i>	-32.82	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.38	
26 28 16 13-0063	EA	300 To 400 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	503.61	68.16
		<i>For Bolt-On, Add</i>	89.46	
		<i>For Installation In New Panelboard, Deduct</i>	-37.87	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.44	
26 28 16 13-0064	EA	15 To 30 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	206.23	36.36
		<i>For Bolt-On, Add</i>	39.92	
		<i>For Installation In New Panelboard, Deduct</i>	-20.20	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.23	
26 28 16 13-0065	EA	35 To 60 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	206.23	36.36
		<i>For Bolt-On, Add</i>	39.92	
		<i>For Installation In New Panelboard, Deduct</i>	-20.20	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.23	
26 28 16 13-0066	EA	70 To 100 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	243.53	45.44
		<i>For Bolt-On, Add</i>	48.11	
		<i>For Installation In New Panelboard, Deduct</i>	-25.25	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.29	
26 28 16 13-0067	EA	110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	361.70	54.53
		<i>For Bolt-On, Add</i>	66.42	
		<i>For Installation In New Panelboard, Deduct</i>	-30.30	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.35	
26 28 16 13-0068	EA	150 To 225 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	474.09	70.69
		<i>For Bolt-On, Add</i>	86.65	
		<i>For Installation In New Panelboard, Deduct</i>	-39.13	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.96	
26 28 16 13-0069	EA	250 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	582.70	81.80
		<i>For Bolt-On, Add</i>	104.65	
		<i>For Installation In New Panelboard, Deduct</i>	-45.44	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54.53	
26 28 16 13-0070	EA	300 To 400 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	619.32	86.84
		<i>For Bolt-On, Add</i>	110.99	
		<i>For Installation In New Panelboard, Deduct</i>	-47.97	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.56	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 28 Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0071 Branch Circuit Breakers 25,000 Amperes Interrupting Capacity, Plug-On <small>(26 28)</small> <small>16 13-0001</small> Note: Includes connection of electrical wire.		
26 28 16 13-0072 EA 15 To 30 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	173.94	27.26
For Bolt-On, Add	32.35	
For Installation In New Panelboard, Deduct	-15.15	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.18	
26 28 16 13-0073 EA 35 To 60 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	173.94	27.26
For Bolt-On, Add	32.35	
For Installation In New Panelboard, Deduct	-15.15	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.18	
26 28 16 13-0074 EA 70 To 100 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	261.61	36.36
For Bolt-On, Add	46.84	
For Installation In New Panelboard, Deduct	-20.20	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.23	
26 28 16 13-0075 EA 110 To 125 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	417.33	45.44
For Bolt-On, Add	69.84	
For Installation In New Panelboard, Deduct	-25.25	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.29	
26 28 16 13-0076 EA 150 To 225 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	642.25	56.55
For Bolt-On, Add	102.37	
For Installation In New Panelboard, Deduct	-31.56	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.87	
26 28 16 13-0077 EA 250 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity.....	725.04	59.08
For Bolt-On, Add	113.60	
For Installation In New Panelboard, Deduct	-32.82	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.38	
26 28 16 13-0078 EA 300 To 400 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	794.25	68.16
For Bolt-On, Add	125.79	
For Installation In New Panelboard, Deduct	-37.87	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.44	
26 28 16 13-0079 EA 15 To 30 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	248.38	36.36
For Bolt-On, Add	45.18	
For Installation In New Panelboard, Deduct	-20.20	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.23	
26 28 16 13-0080 EA 35 To 60 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	248.38	36.36
For Bolt-On, Add	45.18	
For Installation In New Panelboard, Deduct	-20.20	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.23	
26 28 16 13-0081 EA 70 To 100 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	312.68	45.44
For Bolt-On, Add	56.76	
For Installation In New Panelboard, Deduct	-25.25	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.29	
26 28 16 13-0082 EA 110 To 125 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	518.05	54.53
For Bolt-On, Add	85.96	
For Installation In New Panelboard, Deduct	-30.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.35	
26 28 16 13-0083 EA 150 To 225 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	751.95	70.69
For Bolt-On, Add	121.39	
For Installation In New Panelboard, Deduct	-39.13	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.96	
26 28 16 13-0084 EA 250 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity.....	887.41	81.80
For Bolt-On, Add	142.73	
For Installation In New Panelboard, Deduct	-45.44	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	54.53	
26 28 16 13-0085 EA 300 To 400 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	958.91	86.84
For Bolt-On, Add	153.44	
For Installation In New Panelboard, Deduct	-47.97	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.56	
26 28 16 13-0086 Branch Circuit Breakers 30,000 Amperes Interrupting Capacity, Plug-On <small>(26 28)</small> <small>16 13-0001</small> Note: Includes connection of electrical wire.		
26 28 16 13-0087 EA 2 Pole, 240/480 Volt, 15-30 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	179.67	27.26
For Bolt-On, Add	33.06	
For Installation In New Panelboard, Deduct	-15.15	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.18	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0088	EA		2 Pole, 240/480 Volt, 35-60 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity 179.67		27.26
			<i>For Bolt-On, Add</i>	33.06	
			<i>For Installation In New Panelboard, Deduct</i>	-15.15	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.18	
26 28 16 13-0089	EA		2 Pole, 240/480 Volt, 70-100 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity 314.54		36.36
			<i>For Bolt-On, Add</i>	53.45	
			<i>For Installation In New Panelboard, Deduct</i>	-20.20	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.23	
26 28 16 13-0090	EA		2 Pole, 240/480 Volt, 110-125 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity 564.08		45.44
			<i>For Bolt-On, Add</i>	88.18	
			<i>For Installation In New Panelboard, Deduct</i>	-25.25	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.29	
26 28 16 13-0091	EA		2 Pole, 240/480 Volt, 150-225 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity 884.83		56.55
			<i>For Bolt-On, Add</i>	132.69	
			<i>For Installation In New Panelboard, Deduct</i>	-31.56	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.87	
26 28 16 13-0092	EA		2 Pole, 240/480 Volt, 250 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity 1,004.03		59.08
			<i>For Bolt-On, Add</i>	148.48	
			<i>For Installation In New Panelboard, Deduct</i>	-32.82	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.38	
26 28 16 13-0093	EA		2 Pole, 240/480 Volt, 300-400 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity 1,095.32		68.16
			<i>For Bolt-On, Add</i>	163.42	
			<i>For Installation In New Panelboard, Deduct</i>	-37.87	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.44	
26 28 16 13-0094	EA		3 Pole, 240/480 Volt, 15-30 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity 288.07		36.36
			<i>For Bolt-On, Add</i>	50.15	
			<i>For Installation In New Panelboard, Deduct</i>	-20.20	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.23	
26 28 16 13-0095	EA		3 Pole, 240/480 Volt, 35-60 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity 288.07		36.36
			<i>For Bolt-On, Add</i>	50.15	
			<i>For Installation In New Panelboard, Deduct</i>	-20.20	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.23	
26 28 16 13-0096	EA		3 Pole, 240/480 Volt, 70-100 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity 381.49		45.44
			<i>For Bolt-On, Add</i>	65.36	
			<i>For Installation In New Panelboard, Deduct</i>	-25.25	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.29	
26 28 16 13-0097	EA		3 Pole, 240/480 Volt, 110-125 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity 685.72		54.53
			<i>For Bolt-On, Add</i>	106.92	
			<i>For Installation In New Panelboard, Deduct</i>	-30.30	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.35	
26 28 16 13-0098	EA		3 Pole, 240/480 Volt, 150-225 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity 867.22		70.69
			<i>For Bolt-On, Add</i>	135.80	
			<i>For Installation In New Panelboard, Deduct</i>	-39.13	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.96	
26 28 16 13-0099	EA		3 Pole, 240/480 Volt, 250 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity 1,366.43		81.80
			<i>For Bolt-On, Add</i>	202.61	
			<i>For Installation In New Panelboard, Deduct</i>	-45.44	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54.53	
26 28 16 13-0100	EA		3 Pole, 240/480 Volt, 300-400 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity 1,454.87		86.84
			<i>For Bolt-On, Add</i>	215.44	
			<i>For Installation In New Panelboard, Deduct</i>	-47.97	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.56	
26 28 16 13-0101			Branch Circuit Breakers 35,000 Amperes Interrupting Capacity, Plug-On ^{(26 28} _{16 13-0001)}		
			Note: Includes connection of electrical wire.		
26 28 16 13-0102	EA		1 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity 96.73		18.18
			<i>For Bolt-On, Add</i>	19.16	
			<i>For Installation In New Panelboard, Deduct</i>	-10.10	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.12	
26 28 16 13-0103	EA		1 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity 96.73		18.18
			<i>For Bolt-On, Add</i>	19.16	
			<i>For Installation In New Panelboard, Deduct</i>	-10.10	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.12	
26 28 16 13-0104	EA		1 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity 162.45		22.72
			<i>For Bolt-On, Add</i>	29.14	
			<i>For Installation In New Panelboard, Deduct</i>	-12.62	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.15	

26 Electrical

26 20 Low-Voltage Electrical Distribution

26 28 Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0105 EA 2 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	203.15	27.26
For Bolt-On, Add	36.00	
For Installation In New Panelboard, Deduct	-15.15	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.18	
26 28 16 13-0106 EA 2 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	203.15	27.26
For Bolt-On, Add	36.00	
For Installation In New Panelboard, Deduct	-15.15	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.18	
26 28 16 13-0107 EA 2 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	363.12	36.36
For Bolt-On, Add	59.53	
For Installation In New Panelboard, Deduct	-20.20	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.23	
26 28 16 13-0108 EA 2 Pole, 480 Volt, 110-125 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	661.11	45.44
For Bolt-On, Add	100.31	
For Installation In New Panelboard, Deduct	-25.25	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.29	
26 28 16 13-0109 EA 2 Pole, 480 Volt, 150-225 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	1,268.08	56.55
For Bolt-On, Add	180.60	
For Installation In New Panelboard, Deduct	-31.56	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.87	
26 28 16 13-0110 EA 3 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	330.43	36.36
For Bolt-On, Add	55.44	
For Installation In New Panelboard, Deduct	-20.20	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.23	
26 28 16 13-0111 EA 3 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	330.43	36.36
For Bolt-On, Add	55.44	
For Installation In New Panelboard, Deduct	-20.20	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.23	
26 28 16 13-0112 EA 3 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	440.34	45.44
For Bolt-On, Add	72.71	
For Installation In New Panelboard, Deduct	-25.25	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.29	
26 28 16 13-0113 EA 3 Pole, 480 Volt, 110-125 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	813.63	54.53
For Bolt-On, Add	122.91	
For Installation In New Panelboard, Deduct	-30.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.35	
26 28 16 13-0114 EA 3 Pole, 480 Volt, 150-225 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	1,576.55	70.69
For Bolt-On, Add	224.46	
For Installation In New Panelboard, Deduct	-39.13	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.96	
26 28 16 13-0115 Branch Circuit Breakers 42,000 Amperes Interrupting Capacity, Plug-On <small>(26 28 16 13-0001)</small>		
Note: Includes connection of electrical wire.		
26 28 16 13-0116 EA 15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	137.43	18.18
For Bolt-On, Add	24.25	
For Installation In New Panelboard, Deduct	-10.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.12	
26 28 16 13-0117 EA 35 To 60 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Ampere Interrupting Capacity	137.43	18.18
For Bolt-On, Add	24.25	
For Installation In New Panelboard, Deduct	-10.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.12	
26 28 16 13-0118 EA 70 To 100 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	205.74	22.72
For Bolt-On, Add	34.55	
For Installation In New Panelboard, Deduct	-12.62	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.15	
26 28 16 13-0119 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	250.24	27.26
For Bolt-On, Add	41.88	
For Installation In New Panelboard, Deduct	-15.15	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.18	
26 28 16 13-0120 EA 35 To 60 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	250.24	27.26
For Bolt-On, Add	41.88	
For Installation In New Panelboard, Deduct	-15.15	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.18	
26 28 16 13-0121 EA 70 To 100 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	464.49	36.36
For Bolt-On, Add	72.20	
For Installation In New Panelboard, Deduct	-20.20	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.23	



	Electrical	26
	Low-Voltage Electrical Distribution	26 20
	Low-Voltage Circuit Protective Devices	26 28

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0122	EA	110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	833.12	45.44
		<i>For Bolt-On, Add</i>	121.81	
		<i>For Installation In New Panelboard, Deduct</i>	-25.25	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.29	
26 28 16 13-0123	EA	150 To 225 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	1,641.51	50.49
		<i>For Bolt-On, Add</i>	224.63	
		<i>For Installation In New Panelboard, Deduct</i>	-27.77	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.32	
26 28 16 13-0124	EA	15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	424.80	36.36
		<i>For Bolt-On, Add</i>	67.24	
		<i>For Installation In New Panelboard, Deduct</i>	-20.20	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.23	
26 28 16 13-0125	EA	35 To 60 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	424.80	36.36
		<i>For Bolt-On, Add</i>	67.24	
		<i>For Installation In New Panelboard, Deduct</i>	-20.20	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.23	
26 28 16 13-0126	EA	70 To 100 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	586.14	45.44
		<i>For Bolt-On, Add</i>	90.94	
		<i>For Installation In New Panelboard, Deduct</i>	-25.25	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.29	
26 28 16 13-0127	EA	110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	941.53	54.53
		<i>For Bolt-On, Add</i>	138.90	
		<i>For Installation In New Panelboard, Deduct</i>	-30.30	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.35	
26 28 16 13-0128	EA	150 To 225 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	2,075.10	70.69
		<i>For Bolt-On, Add</i>	286.78	
		<i>For Installation In New Panelboard, Deduct</i>	-39.13	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.96	
26 28 16 13-0129	Branch Circuit Breakers 65,000 Amperes Interrupting Capacity, Plug-On <small>(26 28 16 13-0001)</small>			
		<i>Note: Includes connection of electrical wire.</i>		
26 28 16 13-0130	EA	15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	67.17	18.18
		<i>For Bolt-On, Add</i>	15.47	
		<i>For Installation In New Panelboard, Deduct</i>	-10.10	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.12	
26 28 16 13-0131	EA	15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	136.04	27.26
		<i>For Bolt-On, Add</i>	27.61	
		<i>For Installation In New Panelboard, Deduct</i>	-15.15	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.18	
26 28 16 13-0132	EA	15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	212.21	36.36
		<i>For Bolt-On, Add</i>	40.66	
		<i>For Installation In New Panelboard, Deduct</i>	-20.20	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.23	
26 28 16 13-0133	EA	15 To 30 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	130.46	18.18
		<i>For Bolt-On, Add</i>	23.38	
		<i>For Installation In New Panelboard, Deduct</i>	-10.10	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.12	
26 28 16 13-0134	EA	35 To 60 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	130.46	18.18
		<i>For Bolt-On, Add</i>	23.38	
		<i>For Installation In New Panelboard, Deduct</i>	-10.10	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.12	
26 28 16 13-0135	EA	70 To 100 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	259.85	36.36
		<i>For Bolt-On, Add</i>	46.62	
		<i>For Installation In New Panelboard, Deduct</i>	-20.20	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.23	
26 28 16 13-0136	EA	15 To 30 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	289.03	27.26
		<i>For Bolt-On, Add</i>	46.73	
		<i>For Installation In New Panelboard, Deduct</i>	-15.15	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.18	
26 28 16 13-0137	EA	35 To 60 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	289.03	27.26
		<i>For Bolt-On, Add</i>	46.73	
		<i>For Installation In New Panelboard, Deduct</i>	-15.15	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.18	
26 28 16 13-0138	EA	70 To 100 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	551.92	36.36
		<i>For Bolt-On, Add</i>	83.13	
		<i>For Installation In New Panelboard, Deduct</i>	-20.20	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.23	

26	26	Electrical
	26 20	Low-Voltage Electrical Distribution
	26 28	Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0139 EA 110 To 125 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	930.15	45.44
For Bolt-On, Add	133.94	
For Installation In New Panelboard, Deduct	-25.25	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.29	
26 28 16 13-0140 EA 150 To 225 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	2,029.90	56.55
For Bolt-On, Add	275.83	
For Installation In New Panelboard, Deduct	-31.56	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.87	
26 28 16 13-0141 EA 15 To 30 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	480.29	36.36
For Bolt-On, Add	74.17	
For Installation In New Panelboard, Deduct	-20.20	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.23	
26 28 16 13-0142 EA 35 To 60 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	480.29	36.36
For Bolt-On, Add	74.17	
For Installation In New Panelboard, Deduct	-20.20	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.23	
26 28 16 13-0143 EA 70 To 100 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	666.69	45.44
For Bolt-On, Add	101.01	
For Installation In New Panelboard, Deduct	-25.25	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.29	
26 28 16 13-0144 EA 110 To 125 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	1,012.10	54.53
For Bolt-On, Add	147.72	
For Installation In New Panelboard, Deduct	-30.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.35	
26 28 16 13-0145 EA 150 To 225 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	2,524.05	70.69
For Bolt-On, Add	342.90	
For Installation In New Panelboard, Deduct	-39.13	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.96	

26 28 16 16 Enclosed Switches (26 28 16)

26 28 16 16-0001	Motor And Circuit Disconnects <small>(26 28 16 16)</small>		
	Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the disconnect.		
26 28 16 16-0002	NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0001)</small>		
26 28 16 16-0003	Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small>		
	Note: Includes fuses and neutral bar.		
26 28 16 16-0004	240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0005 EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	377.70	100.98
26 28 16 16-0006 EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	594.83	121.68
26 28 16 16-0007 EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	818.39	142.39
26 28 16 16-0008 EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,410.35	224.17
26 28 16 16-0009 EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,003.47	348.38
26 28 16 16-0010 EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,017.77	515.01
26 28 16 16-0011 EA	800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	6,848.46	605.89
26 28 16 16-0012 EA	1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	9,198.38	706.87
26 28 16 16-0013	600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0014 EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	576.20	112.19
26 28 16 16-0015 EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	695.19	135.22
26 28 16 16-0016 EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,107.48	158.04
26 28 16 16-0017 EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,636.92	249.42
26 28 16 16-0018 EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,577.03	386.96
26 28 16 16-0019 EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,577.23	571.96
26 28 16 16-0020 EA	800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	8,253.23	672.84



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0021 EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	11,280.07	785.43
26 28 16 16-0022 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0023 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	536.81	158.54
26 28 16 16-0024 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	791.79	210.55
26 28 16 16-0025 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,067.71	233.77
26 28 16 16-0026 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,689.11	366.06
26 28 16 16-0027 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,513.72	600.83
26 28 16 16-0028 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,719.45	841.67
26 28 16 16-0029 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0030 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	702.42	175.20
26 28 16 16-0031 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	892.40	233.77
26 28 16 16-0032 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,317.47	263.06
26 28 16 16-0033 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,939.45	400.89
26 28 16 16-0034 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,327.19	647.29
26 28 16 16-0035 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,966.69	935.08
26 28 16 16-0036 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	11,097.50	1,110.80
26 28 16 16-0037 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	14,190.72	1,262.27
26 28 16 16-0038 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0039 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	519.93	158.54
26 28 16 16-0040 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	769.98	210.55
26 28 16 16-0041 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,028.03	233.77
26 28 16 16-0042 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,743.68	366.06
26 28 16 16-0043 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,821.26	600.83
26 28 16 16-0044 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,182.12	841.67
26 28 16 16-0045 EA 800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	10,242.57	1,060.30
26 28 16 16-0046 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	12,632.42	1,211.78
26 28 16 16-0047 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0048 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	764.34	175.20
26 28 16 16-0049 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	968.50	233.77
26 28 16 16-0050 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,428.74	263.06
26 28 16 16-0051 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,106.02	400.89
26 28 16 16-0052 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,682.58	647.29
26 28 16 16-0053 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,594.34	935.08
26 28 16 16-0054 EA 800 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	12,139.56	1,110.80
26 28 16 16-0055 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	15,316.35	1,262.27
26 28 16 16-0056 Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small>		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0057		240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0058	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	367.02	146.12
26 28 16 16-0059	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	570.56	203.28
26 28 16 16-0060	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	787.19	233.77
26 28 16 16-0061	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,233.05	374.03
26 28 16 16-0062	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,490.27	623.35
26 28 16 16-0063	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,074.89	850.06
26 28 16 16-0064	EA	800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,825.34	1,009.81
26 28 16 16-0065	EA	1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,695.18	1,178.55
26 28 16 16-0066		600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0067	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	405.39	161.27
26 28 16 16-0068	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	646.18	228.12
26 28 16 16-0069	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	889.81	259.72
26 28 16 16-0070	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,381.02	406.55
26 28 16 16-0071	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,679.37	667.89
26 28 16 16-0072	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,506.99	934.98
26 28 16 16-0073	EA	800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,462.34	1,009.81
26 28 16 16-0074	EA	1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	8,567.52	1,178.55
26 28 16 16-0075		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0076	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	428.02	131.28
26 28 16 16-0077	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	655.42	182.77
26 28 16 16-0078	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	884.79	210.55
26 28 16 16-0079	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,390.00	336.77
26 28 16 16-0080	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,784.79	560.95
26 28 16 16-0081	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,491.51	764.93
26 28 16 16-0082	EA	800 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,735.78	908.83
26 28 16 16-0083	EA	1,200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	10,082.58	1,060.30
26 28 16 16-0084		480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0085	EA	30 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	466.95	144.90
26 28 16 16-0086	EA	60 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	720.71	205.50
26 28 16 16-0087	EA	100 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	964.67	233.77
26 28 16 16-0088	EA	200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,499.74	366.06
26 28 16 16-0089	EA	400 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,983.69	600.83
26 28 16 16-0090	EA	600 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,856.05	841.67
26 28 16 16-0091	EA	800 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	8,157.20	908.83
26 28 16 16-0092		600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0093 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	498.38	145.10
26 28 16 16-0094 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	774.29	205.29
26 28 16 16-0095 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,051.82	233.77
26 28 16 16-0096 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,633.98	365.85
26 28 16 16-0097 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,171.46	601.03
26 28 16 16-0098 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,411.75	841.47
26 28 16 16-0099 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	8,791.59	908.83
26 28 16 16-0100 EA 1,200 Amperes, 600 Volt Class, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	11,503.89	1,060.30
26 28 16 16-0101 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0096)		
26 28 16 16-0102 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	729.83	131.48
26 28 16 16-0103 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	881.77	182.98
26 28 16 16-0104 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,351.65	210.35
26 28 16 16-0105 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,028.52	336.57
26 28 16 16-0106 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0096)		
26 28 16 16-0107 EA 30 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	790.40	144.90
26 28 16 16-0108 EA 60 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	963.26	205.50
26 28 16 16-0109 EA 100 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,464.90	233.77
26 28 16 16-0110 EA 200 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,183.88	366.06
26 28 16 16-0111 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0096)		
26 28 16 16-0112 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	877.86	145.10
26 28 16 16-0113 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,059.73	205.29
26 28 16 16-0114 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,638.38	233.77
26 28 16 16-0115 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,436.59	365.85
26 28 16 16-0116 General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0092)		
Note: Includes fuses and neutral bar.		
26 28 16 16-0117 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0116)		
26 28 16 16-0118 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	262.14	87.85
26 28 16 16-0119 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	357.28	105.73
26 28 16 16-0120 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	549.46	123.60
26 28 16 16-0121 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,016.93	195.00
26 28 16 16-0122 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,418.25	302.44
26 28 16 16-0123 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,522.08	447.65
26 28 16 16-0124 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0116)		
26 28 16 16-0125 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	362.29	138.04
26 28 16 16-0126 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	511.38	182.98
26 28 16 16-0127 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	708.77	203.28

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0128	EA	200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,264.35	318.19
26 28 16 16-0129	EA	400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,861.00	522.68
26 28 16 16-0130	EA	600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,094.79	731.71
26 28 16 16-0131		240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0116)</small>		
26 28 16 16-0132	EA	30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	403.10	138.04
26 28 16 16-0133	EA	60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	577.18	182.98
26 28 16 16-0134	EA	100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	768.64	203.28
26 28 16 16-0135	EA	200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,415.18	318.19
26 28 16 16-0136	EA	400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,118.81	522.68
26 28 16 16-0137	EA	600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,258.22	731.71
26 28 16 16-0138		General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small>		
26 28 16 16-0139		240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0138)</small>		
26 28 16 16-0140	EA	60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	358.19	122.18
26 28 16 16-0141	EA	100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	476.69	140.46
26 28 16 16-0142	EA	200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,076.32	224.49
26 28 16 16-0143	EA	400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,308.04	373.63
26 28 16 16-0144	EA	600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,995.08	509.15
26 28 16 16-0145		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0138)</small>		
26 28 16 16-0146	EA	30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	338.38	114.31
26 28 16 16-0147	EA	60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	463.66	159.04
26 28 16 16-0148	EA	100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	705.04	182.98
26 28 16 16-0149	EA	200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,213.43	292.75
26 28 16 16-0150	EA	400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,537.41	487.94
26 28 16 16-0151	EA	600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,308.79	665.06
26 28 16 16-0152		NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0001)</small>		
26 28 16 16-0153		Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0152)</small>		
		Note: With fuses, neutral bar, and hub if required.		
26 28 16 16-0154		240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0153)</small>		
26 28 16 16-0155	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	554.57	118.65
26 28 16 16-0156	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	882.04	142.39
26 28 16 16-0157	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,102.36	165.61
26 28 16 16-0158	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,613.63	252.45
26 28 16 16-0159	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,564.98	403.92
26 28 16 16-0160	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	6,247.38	538.73
26 28 16 16-0161	EA	800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	9,365.93	605.89
26 28 16 16-0162	EA	1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	12,410.41	706.87



Electrical	26	
Low-Voltage Electrical Distribution	26 20	26
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0163 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ⁽²⁶⁾		
<small>28 16 16-0153)</small>		
26 28 16 16-0164 EA 30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	954.27	158.14
26 28 16 16-0165 EA 60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,136.35	193.88
26 28 16 16-0166 EA 100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,612.67	222.66
26 28 16 16-0167 EA 200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,272.23	333.95
26 28 16 16-0168 EA 400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,944.04	546.41
26 28 16 16-0169 EA 600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	9,091.01	751.40
26 28 16 16-0170 EA 800 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	13,365.12	865.21
26 28 16 16-0171 EA 1,200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	14,723.09	973.96
26 28 16 16-0172 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ⁽²⁶⁾		
<small>28 16 16-0153)</small>		
26 28 16 16-0173 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	707.59	186.82
26 28 16 16-0174 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,122.97	247.41
26 28 16 16-0175 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,353.36	271.64
26 28 16 16-0176 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,006.80	420.59
26 28 16 16-0177 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,339.08	701.31
26 28 16 16-0178 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,237.19	935.08
26 28 16 16-0179 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ⁽²⁶⁾		
<small>28 16 16-0153)</small>		
26 28 16 16-0180 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,082.79	221.45
26 28 16 16-0181 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,291.94	271.44
26 28 16 16-0182 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,729.50	311.63
26 28 16 16-0183 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,512.43	467.54
26 28 16 16-0184 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,290.02	765.03
26 28 16 16-0185 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	9,554.31	1,051.92
26 28 16 16-0186 EA 800 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	13,523.97	1,211.78
26 28 16 16-0187 EA 1,200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	16,188.49	1,363.25
26 28 16 16-0188 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ⁽²⁶⁾		
<small>28 16 16-0153)</small>		
26 28 16 16-0189 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	776.78	186.82
26 28 16 16-0190 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,124.97	247.41
26 28 16 16-0191 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,450.66	271.64
26 28 16 16-0192 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,071.69	420.59
26 28 16 16-0193 EA 400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,398.61	701.31
26 28 16 16-0194 EA 600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,891.97	935.08
26 28 16 16-0195 EA 800 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	13,170.76	1,060.30
26 28 16 16-0196 EA 1,200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	16,417.28	1,211.78

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 28 16 16-0197		600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0197)		
26 28 16 16-0198	EA	30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,122.49	221.66
26 28 16 16-0199	EA	60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,336.58	271.64
26 28 16 16-0200	EA	100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,828.71	311.53
26 28 16 16-0201	EA	200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,576.92	467.54
26 28 16 16-0202	EA	400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,523.16	764.93
26 28 16 16-0203	EA	600 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	9,822.17	1,051.72
26 28 16 16-0204	EA	800 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	14,367.43	1,211.78
26 28 16 16-0205	EA	1,200 Amp, 600 Volt Class, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	17,300.28	1,363.25
26 28 16 16-0206		Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0197)		
26 28 16 16-0207		240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0206)		
26 28 16 16-0208	EA	30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	526.50	103.91
26 28 16 16-0209	EA	60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	859.72	143.90
26 28 16 16-0210	EA	100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,130.44	165.01
26 28 16 16-0211	EA	200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,503.94	267.20
26 28 16 16-0212	EA	400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,348.78	445.73
26 28 16 16-0213	EA	600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	6,107.41	594.28
26 28 16 16-0214	EA	800 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	9,826.58	707.17
26 28 16 16-0215	EA	1,200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	12,972.75	808.15
26 28 16 16-0216		600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0206)		
26 28 16 16-0217	EA	30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	592.78	114.51
26 28 16 16-0218	EA	60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	974.29	160.26
26 28 16 16-0219	EA	100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,276.47	180.96
26 28 16 16-0220	EA	200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,669.20	280.52
26 28 16 16-0221	EA	400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,800.65	467.54
26 28 16 16-0222	EA	600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	6,594.02	623.35
26 28 16 16-0223	EA	800 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	10,479.82	740.80
26 28 16 16-0224	EA	1,200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	13,830.20	841.47
26 28 16 16-0225		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0206)		
26 28 16 16-0226	EA	30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	630.39	155.81
26 28 16 16-0227	EA	60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,003.57	215.79
26 28 16 16-0228	EA	100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,295.43	247.51
26 28 16 16-0229	EA	200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,771.09	400.79
26 28 16 16-0230	EA	400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,844.33	668.49
26 28 16 16-0231	EA	600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	6,799.29	891.15
26 28 16 16-0232	EA	800 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	10,642.74	1,060.30
26 28 16 16-0233	EA	1,200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	14,090.99	1,211.78



Electrical	26	
Low-Voltage Electrical Distribution	26 20	26
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0234 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0206)</small>		
26 28 16 16-0235 EA 30 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	684.95	171.67
26 28 16 16-0236 EA 60 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,093.76	240.44
26 28 16 16-0237 EA 100 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,400.51	271.44
26 28 16 16-0238 EA 200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,880.42	420.79
26 28 16 16-0239 EA 400 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,088.77	701.21
26 28 16 16-0240 EA 600 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	7,244.77	934.98
26 28 16 16-0241 EA 800 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	11,352.25	1,110.80
26 28 16 16-0242 EA 1,200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	15,023.71	1,262.27
26 28 16 16-0243 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0206)</small>		
26 28 16 16-0244 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	369.29	171.67
26 28 16 16-0245 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,134.59	240.44
26 28 16 16-0246 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,457.44	271.44
26 28 16 16-0247 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,949.70	420.79
26 28 16 16-0248 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,268.15	701.21
26 28 16 16-0249 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	7,217.36	934.98
26 28 16 16-0250 EA 800 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	11,336.90	1,110.80
26 28 16 16-0251 EA 1,200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	15,002.82	1,262.27
26 28 16 16-0252 General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0152)</small>		
Note: With fuses, neutral bar, and hub if required.		
26 28 16 16-0253 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0252)</small>		
26 28 16 16-0254 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	339.16	103.20
26 28 16 16-0255 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	478.61	123.80
26 28 16 16-0256 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	629.50	144.00
26 28 16 16-0257 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,291.15	219.53
26 28 16 16-0258 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,158.83	351.21
26 28 16 16-0259 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,599.43	468.55
26 28 16 16-0260 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0252)</small>		
26 28 16 16-0261 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	458.53	162.68
26 28 16 16-0262 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	661.77	215.19
26 28 16 16-0263 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	813.27	236.10
26 28 16 16-0264 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,584.72	365.85
26 28 16 16-0265 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,677.75	609.73
26 28 16 16-0266 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	6,296.59	813.30

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 28 16 16-0267		240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0267)		
26 28 16 16-0268	EA	30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	515.73	162.58
26 28 16 16-0269	EA	60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	719.14	215.19
26 28 16 16-0270	EA	100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	997.95	236.10
26 28 16 16-0271	EA	200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,703.98	365.85
26 28 16 16-0272	EA	400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,754.36	609.83
26 28 16 16-0273	EA	600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,894.59	813.30
26 28 16 16-0274	EA	800 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	9,853.39	921.35
26 28 16 16-0275		General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0152)		
26 28 16 16-0276		240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0275)		
26 28 16 16-0277	EA	30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	306.06	90.38
26 28 16 16-0278	EA	60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	500.93	125.11
26 28 16 16-0279	EA	100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	526.51	143.49
26 28 16 16-0280	EA	200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,317.20	232.26
26 28 16 16-0281	EA	400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,232.16	387.57
26 28 16 16-0282	EA	600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,698.45	516.72
26 28 16 16-0283		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0275)		
26 28 16 16-0284	EA	30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	479.07	135.52
26 28 16 16-0285	EA	60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	689.67	187.63
26 28 16 16-0286	EA	100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,009.95	215.19
26 28 16 16-0287	EA	200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,736.17	348.48
26 28 16 16-0288		NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 16-0001)		
26 28 16 16-0289		Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 16-0288) Note: With fuses and neutral bar (stainless steel).		
26 28 16 16-0290		240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 16-0289)		
26 28 16 16-0291	EA	30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,473.50	100.98
26 28 16 16-0292	EA	60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,770.04	121.68
26 28 16 16-0293	EA	100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	3,611.59	142.18
26 28 16 16-0294	EA	200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	4,995.13	224.38
26 28 16 16-0295	EA	400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	10,155.50	348.18
26 28 16 16-0296	EA	600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	14,597.70	514.81
26 28 16 16-0297		600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 16-0289)		
26 28 16 16-0298	EA	30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,869.99	112.19
26 28 16 16-0299	EA	60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	2,079.45	135.11
26 28 16 16-0300	EA	100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	3,904.83	157.94



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0301 EA 200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,518.52	249.42
26 28 16 16-0302 EA 400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,546.44	387.16
26 28 16 16-0303 EA 600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	15,122.02	571.96
26 28 16 16-0304 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0305 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,655.61	158.74
26 28 16 16-0306 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,075.06	210.35
26 28 16 16-0307 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,959.31	233.77
26 28 16 16-0308 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,628.14	365.85
26 28 16 16-0309 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,974.21	601.03
26 28 16 16-0310 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	15,661.17	841.47
26 28 16 16-0311 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0312 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,001.34	175.31
26 28 16 16-0313 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,282.30	233.77
26 28 16 16-0314 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,126.01	262.96
26 28 16 16-0315 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,836.70	400.69
26 28 16 16-0316 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,333.43	647.29
26 28 16 16-0317 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	16,126.94	934.98
26 28 16 16-0318 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0319 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,979.15	158.74
26 28 16 16-0320 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,479.53	210.35
26 28 16 16-0321 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,768.66	233.77
26 28 16 16-0322 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,734.88	365.85
26 28 16 16-0323 EA 400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	13,152.42	601.03
26 28 16 16-0324 EA 600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	18,654.55	841.47
26 28 16 16-0325 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0326 EA 30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,383.65	175.31
26 28 16 16-0327 EA 60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,715.83	233.77
26 28 16 16-0328 EA 100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,952.14	262.96
26 28 16 16-0329 EA 200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,952.69	400.69
26 28 16 16-0330 EA 400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	13,541.02	647.29
26 28 16 16-0331 EA 600 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	19,161.13	934.98
26 28 16 16-0332 Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small>		
26 28 16 16-0333 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0334 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,413.80	100.98
26 28 16 16-0335 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,720.89	140.46

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0336	EA	100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	3,239.18	161.57
26 28 16 16-0337	EA	200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	4,494.30	258.10
26 28 16 16-0338	EA	400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	8,182.06	429.78
26 28 16 16-0339	EA	600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	11,718.61	585.49
26 28 16 16-0340		600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0341	EA	30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,607.81	111.39
26 28 16 16-0342	EA	60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,960.56	157.53
26 28 16 16-0343	EA	100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	3,691.65	179.55
26 28 16 16-0344	EA	200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	5,107.46	280.52
26 28 16 16-0345	EA	400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	9,291.95	461.68
26 28 16 16-0346	EA	600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	13,347.13	646.27
26 28 16 16-0347		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0348	EA	30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,474.80	131.48
26 28 16 16-0349	EA	60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,782.85	182.98
26 28 16 16-0350	EA	100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,860.64	210.35
26 28 16 16-0351	EA	200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	3,589.23	336.57
26 28 16 16-0352	EA	400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	5,100.06	561.05
26 28 16 16-0353	EA	600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	12,425.03	765.03
26 28 16 16-0354		600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0355	EA	30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,675.13	145.10
26 28 16 16-0356	EA	60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	2,056.07	205.29
26 28 16 16-0357	EA	100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	3,800.10	233.77
26 28 16 16-0358	EA	200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	5,278.08	365.85
26 28 16 16-0359	EA	400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	10,538.01	601.03
26 28 16 16-0360	EA	600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	14,134.46	841.47
26 28 16 16-0361		240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0362	EA	30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	2,027.93	131.48
26 28 16 16-0363	EA	60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	2,431.64	182.98
26 28 16 16-0364	EA	100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	5,471.82	210.35
26 28 16 16-0365	EA	200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	8,347.22	336.57
26 28 16 16-0366		600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0367	EA	30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	2,307.28	145.10
26 28 16 16-0368	EA	60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	2,771.37	205.29
26 28 16 16-0369	EA	100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	6,240.14	233.77



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0370 EA 200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,502.04	365.85
26 28 16 16-0371 Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small>		
26 28 16 16-0372 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0371)</small>		
26 28 16 16-0373 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,683.23	175.20
26 28 16 16-0374 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,058.55	233.77
26 28 16 16-0375 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,497.58	263.06
26 28 16 16-0376 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,155.84	400.89
26 28 16 16-0377 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0371)</small>		
26 28 16 16-0378 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,512.64	144.90
26 28 16 16-0379 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,880.49	205.50
26 28 16 16-0380 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,197.04	233.77
26 28 16 16-0381 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,064.34	366.06
26 28 16 16-0382 Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small>		
26 28 16 16-0383 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0382)</small>		
26 28 16 16-0384 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	3,068.18	175.20
26 28 16 16-0385 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	3,489.30	233.77
26 28 16 16-0386 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,312.19	263.06
26 28 16 16-0387 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0382)</small>		
26 28 16 16-0388 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,876.87	144.90
26 28 16 16-0389 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,288.34	205.50
26 28 16 16-0390 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,978.93	233.77
26 28 16 16-0391 NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches <small>(26 28 16 16-0001)</small>		
<small>Note: Class 1, groups C and D, division 1 or 2, NEMA 7; Class 2, groups E, F and G, division 1 or 2, NEMA 9; or Class 3, division 1 Or 2, NEMA 9, hazardous locations as defined in NEC article 500.</small>		
26 28 16 16-0392 Heavy Duty Fusible, NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches <small>(26 28 16 16-0391)</small>		
<small>Note: With fuses and neutral bar.</small>		
26 28 16 16-0393 EA 30 Amp, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	2,426.61	201.97
26 28 16 16-0394 EA 60 Amp, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	2,740.13	240.44
26 28 16 16-0395 EA 100 Amp, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	3,038.74	271.44
26 28 16 16-0396 EA 200 Amp, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	6,448.26	420.79
26 28 16 16-0397 Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0391)</small>		
26 28 16 16-0398 EA 60 Amp, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	1,884.80	240.44
26 28 16 16-0399 EA 100 Amp, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	2,205.75	271.44
26 28 16 16-0400 EA 200 Amp, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	4,055.06	420.79
26 28 16 16-0401 NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0001)</small>		
26 28 16 16-0402 Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0401)</small>		
<small>Note: With fuses and neutral bar.</small>		
26 28 16 16-0403 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0404 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	537.79	100.98

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 28	Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0405 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	702.28	121.68
26 28 16 16-0406 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	958.31	142.39
26 28 16 16-0407 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,616.34	224.17
26 28 16 16-0408 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,449.45	348.38
26 28 16 16-0409 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	6,228.10	515.01
26 28 16 16-0410 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0411 EA 30 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	844.47	112.09
26 28 16 16-0412 EA 60 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	870.68	135.32
26 28 16 16-0413 EA 100 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,254.19	158.04
26 28 16 16-0414 EA 200 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,962.23	249.42
26 28 16 16-0415 EA 400 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,281.41	386.76
26 28 16 16-0416 EA 600 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	8,469.61	572.06
26 28 16 16-0417 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0418 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	747.39	158.54
26 28 16 16-0419 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,035.32	210.55
26 28 16 16-0420 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,413.39	233.77
26 28 16 16-0421 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,100.77	366.06
26 28 16 16-0422 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,123.84	600.83
26 28 16 16-0423 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	6,620.66	841.67
26 28 16 16-0424 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0425 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	995.50	175.20
26 28 16 16-0426 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,127.24	233.77
26 28 16 16-0427 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,661.88	263.06
26 28 16 16-0428 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,418.54	400.89
26 28 16 16-0429 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,069.50	647.29
26 28 16 16-0430 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	9,538.83	935.08
26 28 16 16-0431 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0432 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	798.72	158.54
26 28 16 16-0433 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,070.58	210.55
26 28 16 16-0434 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,524.07	233.77
26 28 16 16-0435 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,239.73	366.06
26 28 16 16-0436 EA 400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,495.89	600.83
26 28 16 16-0437 EA 600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	6,872.00	841.67
26 28 16 16-0438 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0439 EA 30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,055.00	175.20



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0440 EA 60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,285.97	233.77
26 28 16 16-0441 EA 100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,771.02	263.06
26 28 16 16-0442 EA 200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,626.87	400.89
26 28 16 16-0443 EA 400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,406.80	647.29
26 28 16 16-0444 EA 600 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	9,816.61	935.08
26 28 16 16-0445 Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0401)</small>		
26 28 16 16-0446 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0447 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	562.77	145.92
26 28 16 16-0448 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	746.22	203.48
26 28 16 16-0449 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	989.75	233.77
26 28 16 16-0450 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,411.26	374.13
26 28 16 16-0451 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,105.45	623.55
26 28 16 16-0452 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,918.74	850.27
26 28 16 16-0453 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0454 EA 30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	627.29	161.07
26 28 16 16-0455 EA 60 Amp, Non-Fused, NEMA 12, Heavy Duty Disconnect Switch, 600 Volt, 1 Phase	829.35	228.22
26 28 16 16-0456 EA 100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,103.12	259.52
26 28 16 16-0457 EA 200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,533.36	406.45
26 28 16 16-0458 EA 400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,288.11	667.99
26 28 16 16-0459 EA 600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,434.58	935.08
26 28 16 16-0460 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0461 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	724.73	131.28
26 28 16 16-0462 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	953.16	182.77
26 28 16 16-0463 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,270.32	210.55
26 28 16 16-0464 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,811.93	336.77
26 28 16 16-0465 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,822.00	560.95
26 28 16 16-0466 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	6,035.58	764.93
26 28 16 16-0467 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0468 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	708.85	144.90
26 28 16 16-0469 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,030.55	205.50
26 28 16 16-0470 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,360.38	233.77
26 28 16 16-0471 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,788.32	366.06
26 28 16 16-0472 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,836.15	600.83
26 28 16 16-0473 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	7,189.10	841.67
26 28 16 16-0474 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0475 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	871.58	131.28

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 28 Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0476 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,036.67	182.77
26 28 16 16-0477 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,612.43	210.55
26 28 16 16-0478 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,556.78	336.77
26 28 16 16-0479 EA 400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,631.09	429.17
26 28 16 16-0480 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0445)		
26 28 16 16-0481 EA 30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	905.28	144.90
26 28 16 16-0482 EA 60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,129.76	205.50
26 28 16 16-0483 EA 100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,722.49	233.77
26 28 16 16-0484 EA 200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,626.62	366.06
26 28 16 16-0485 EA 400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,923.05	565.49
26 28 16 16-0486 Double Throw Safety Switches (26 28 16 16-0001)		
26 28 16 16-0487 NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0486)		
26 28 16 16-0488 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0489 EA 30 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	675.04	129.76
26 28 16 16-0490 EA 60 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	997.34	169.65
26 28 16 16-0491 EA 100 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,399.03	221.66
26 28 16 16-0492 EA 200 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,865.64	288.30
26 28 16 16-0493 EA 400 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	4,503.71	360.51
26 28 16 16-0494 EA 600 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	8,194.11	578.11
26 28 16 16-0495 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0496 EA 30 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	851.70	181.76
26 28 16 16-0497 EA 60 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,188.97	237.31
26 28 16 16-0498 EA 100 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,790.05	310.51
26 28 16 16-0499 EA 200 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,628.93	403.92
26 28 16 16-0500 EA 400 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	6,206.00	504.91
26 28 16 16-0501 EA 600 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	8,659.24	807.85
26 28 16 16-0502 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0503 EA 30 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,131.77	227.20
26 28 16 16-0504 EA 60 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,646.79	296.89
26 28 16 16-0505 EA 100 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,923.46	387.77
26 28 16 16-0506 EA 200 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	4,004.79	503.90
26 28 16 16-0507 EA 400 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	6,073.76	631.13
26 28 16 16-0508 EA 600 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	10,213.42	1,011.32
26 28 16 16-0509 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0510 EA 60 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,152.06	169.65
26 28 16 16-0511 EA 100 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,732.60	221.66
26 28 16 16-0512 EA 200 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,554.24	288.30
26 28 16 16-0513 EA 400 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	6,026.04	360.51
26 28 16 16-0514 EA 600 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	8,906.93	578.11
26 28 16 16-0515 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0516 EA 60 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,287.22	237.31
26 28 16 16-0517 EA 100 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,909.81	310.51
26 28 16 16-0518 EA 200 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,784.51	403.92
26 28 16 16-0519 EA 400 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	6,314.61	504.91
26 28 16 16-0520 EA 600 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	9,367.82	807.85
26 28 16 16-0521 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0522 EA 60 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,743.62	296.89



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0523 EA 100 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,063.55	387.77
26 28 16 16-0524 EA 200 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,294.10	503.90
26 28 16 16-0525 EA 400 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	8,690.53	631.13
26 28 16 16-0526 EA 600 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	10,904.21	1,011.32
26 28 16 16-0527 NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0486)		
26 28 16 16-0528 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0527)		
26 28 16 16-0529 EA 100 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,749.76	221.66
26 28 16 16-0530 EA 200 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,018.40	288.30
26 28 16 16-0531 EA 400 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	13,175.85	360.51
26 28 16 16-0532 EA 600 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	22,694.02	578.11
26 28 16 16-0533 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0527)		
26 28 16 16-0534 EA 100 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,293.00	310.01
26 28 16 16-0535 EA 200 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,704.44	403.42
26 28 16 16-0536 EA 400 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	13,581.78	504.91
26 28 16 16-0537 EA 600 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	14,753.72	809.37
26 28 16 16-0538 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0527)		
26 28 16 16-0539 EA 30 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,211.80	227.31
26 28 16 16-0540 EA 60 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,742.38	296.69
26 28 16 16-0541 EA 100 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,846.23	387.67
26 28 16 16-0542 EA 200 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	5,563.46	504.10
26 28 16 16-0543 EA 400 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	9,452.17	631.13
26 28 16 16-0544 EA 600 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	11,019.71	1,011.42
26 28 16 16-0545 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0527)		
26 28 16 16-0546 EA 60 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,484.46	169.65
26 28 16 16-0547 EA 100 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,260.32	221.66
26 28 16 16-0548 EA 200 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,117.53	288.30
26 28 16 16-0549 EA 400 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	7,927.50	360.51
26 28 16 16-0550 EA 600 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	10,591.70	578.11
26 28 16 16-0551 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0527)		
26 28 16 16-0552 EA 60 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,680.56	237.31
26 28 16 16-0553 EA 100 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,533.38	310.01
26 28 16 16-0554 EA 200 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,534.13	403.42
26 28 16 16-0555 EA 400 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	8,595.39	504.91
26 28 16 16-0556 EA 600 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	11,548.57	809.37
26 28 16 16-0557 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0527)		
26 28 16 16-0558 EA 60 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,764.81	296.69
26 28 16 16-0559 EA 100 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,856.52	387.67
26 28 16 16-0560 EA 200 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	5,706.29	504.10
26 28 16 16-0561 EA 400 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	9,435.31	631.13
26 28 16 16-0562 EA 600 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	11,112.66	1,011.42
26 28 16 16-0563 NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0486)		
26 28 16 16-0564 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0563)		
26 28 16 16-0565 EA 30 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,771.33	129.86
26 28 16 16-0566 EA 60 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,005.90	169.55
26 28 16 16-0567 EA 100 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,269.00	221.55
26 28 16 16-0568 EA 200 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,119.65	288.09
26 28 16 16-0569 EA 400 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	5,833.29	360.61
26 28 16 16-0570 EA 600 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	8,553.35	577.91
26 28 16 16-0571 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0563)		
26 28 16 16-0572 EA 30 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,034.72	181.76
26 28 16 16-0573 EA 60 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,406.18	237.31
26 28 16 16-0574 EA 100 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,854.75	310.01

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 28	Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0575 EA 200 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,980.88	403.42
26 28 16 16-0576 EA 400 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	7,261.43	504.91
26 28 16 16-0577 EA 600 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	9,591.82	809.37
26 28 16 16-0578 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0563)</small>		
26 28 16 16-0579 EA 30 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,041.07	227.31
26 28 16 16-0580 EA 60 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,557.31	296.69
26 28 16 16-0581 EA 100 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,877.66	387.67
26 28 16 16-0582 EA 200 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	6,626.55	504.10
26 28 16 16-0583 EA 400 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	12,274.41	631.13
26 28 16 16-0584 EA 600 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	15,245.25	1,011.42
26 28 16 16-0585 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0563)</small>		
26 28 16 16-0586 EA 60 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,647.64	169.55
26 28 16 16-0587 EA 100 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,783.08	221.55
26 28 16 16-0588 EA 200 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	5,279.77	288.09
26 28 16 16-0589 EA 400 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	7,620.43	360.61
26 28 16 16-0590 EA 600 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	10,229.91	577.91
26 28 16 16-0591 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0563)</small>		
26 28 16 16-0592 EA 60 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,904.77	237.31
26 28 16 16-0593 EA 100 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,083.56	310.01
26 28 16 16-0594 EA 200 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	5,757.36	403.42
26 28 16 16-0595 EA 400 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	8,271.86	504.91
26 28 16 16-0596 EA 600 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	11,167.34	809.37
26 28 16 16-0597 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0563)</small>		
26 28 16 16-0598 EA 60 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,593.87	296.69
26 28 16 16-0599 EA 100 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	5,147.35	387.67
26 28 16 16-0600 EA 200 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	6,785.51	504.10
26 28 16 16-0601 EA 400 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	12,616.56	631.13
26 28 16 16-0602 EA 600 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch.....	15,698.77	1,011.42
26 28 16 16-0603 Removal And Reinstallation Of Disconnect Switches <small>(26 28 16 16-0001)</small>		
Note: Includes storage and cleaning.		
26 28 16 16-0604 EA Removal And Reinstallation Of Up To 100 Amp Safety Disconnect Switch.....	504.91	
26 28 16 16-0605 EA Removal And Reinstallation Of >100 To 200 Amp Safety Disconnect Switch.....	656.40	
26 28 16 16-0606 EA Removal And Reinstallation Of >200 To 300 Amp Safety Disconnect Switch.....	732.17	
26 28 16 16-0607 EA Removal And Reinstallation Of >300 To 400 Amp Safety Disconnect Switch.....	858.39	
26 28 16 16-0608 Bolted Contact Switches <small>(26 28 16 16)</small>		
Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the switch.		
26 28 16 16-0609 Electrical Trip, Bolted Contact Switches <small>(26 28 16 16-0608)</small>		
26 28 16 16-0610 Top Feed, Electrical Trip, Bolted Contact Switches <small>(26 28 16 16-0609)</small>		
26 28 16 16-0611 EA 800 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833T120480).....	7,302.31	1,009.81
26 28 16 16-0612 EA 1,200 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233T120480).....	7,932.89	1,211.78
26 28 16 16-0613 EA 1,600 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633T120480).....	8,654.99	1,413.73
26 28 16 16-0614 EA 2,000 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033T120480).....	9,167.88	1,615.70
26 28 16 16-0615 EA 2,500 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533T120480).....	10,352.02	1,817.66
26 28 16 16-0616 EA 3,000 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033T120480).....	12,922.19	2,019.62
26 28 16 16-0617 EA 4,000 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033T120480).....	17,347.71	2,423.55
26 28 16 16-0618 Bottom Feed, Electrical Trip, Bolted Contact Switches <small>(26 28 16 16-0609)</small>		
26 28 16 16-0619 EA 800 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833B120480).....	7,725.10	1,009.81
26 28 16 16-0620 EA 1,200 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233B120480).....	8,438.49	1,211.78
26 28 16 16-0621 EA 1,600 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633B120480).....	9,156.24	1,413.73
26 28 16 16-0622 EA 2,000 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033B120480).....	9,887.06	1,615.70
26 28 16 16-0623 EA 2,500 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533B120480).....	11,127.86	1,817.66
26 28 16 16-0624 EA 3,000 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033B120480).....	14,377.98	2,019.62
26 28 16 16-0625 EA 4,000 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033B120480).....	18,864.52	2,423.55
26 28 16 16-0626 Manually Operated, Bolted Contact Switches <small>(26 28 16 16-0608)</small>		
26 28 16 16-0627 Top Feed, Manually Operated, Bolted Contact Switches <small>(26 28 16 16-0626)</small>		
26 28 16 16-0628 EA 800 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833T480).....	5,401.94	1,009.81



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0629 EA 1,200 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233T480)	6,055.18	1,211.78
26 28 16 16-0630 EA 1,600 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633T480)	6,744.16	1,413.73
26 28 16 16-0631 EA 2,000 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033T480)	7,427.90	1,615.70
26 28 16 16-0632 EA 2,500 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533T480)	8,155.26	1,817.66
26 28 16 16-0633 EA 3,000 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033T480)	10,725.43	2,019.62
26 28 16 16-0634 EA 4,000 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033T480)	15,098.65	2,423.55
26 28 16 16-0635 Bottom Feed, Manually Operated, Bolted Contact Switches <small>(26 28 16 16-0626)</small>		
26 28 16 16-0636 EA 800 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833B480)	5,681.76	1,009.81
26 28 16 16-0637 EA 1,200 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233B480)	6,477.97	1,211.78
26 28 16 16-0638 EA 1,600 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633B480)	7,153.87	1,413.73
26 28 16 16-0639 EA 2,000 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033B480)	7,969.25	1,615.70
26 28 16 16-0640 EA 2,500 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533B480)	8,835.21	1,817.66
26 28 16 16-0641 EA 3,000 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033B480)	12,072.25	2,019.62
26 28 16 16-0642 EA 4,000 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033B480)	16,510.85	2,423.55
26 29 Low-Voltage Controllers <small>(26 20)</small>		
26 29 13 Enclosed Controllers <small>(26 29)</small>		
26 29 13 13 Across-The-Line Motor Controllers <small>(26 29 13)</small>		
26 29 13 13-0001 Manual Motor Starters <small>(26 29 13 13)</small>		
26 29 13 13-0002 Fractional HP Manual Motor Starters <small>(26 29 13 13-0001)</small>		
26 29 13 13-0003 EA NEMA 1, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG1)	207.29	50.59
<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-2.96	
<i>For Oversized Enclosure, Add</i>	29.61	
<i>For Pilot Light, Add</i>	43.43	
26 29 13 13-0004 EA NEMA 1, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG2)	271.70	65.76
<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-2.96	
<i>For Oversized Enclosure, Add</i>	29.61	
<i>For Pilot Light, Add</i>	43.43	
26 29 13 13-0005 EA NEMA 1, 1 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG3)	236.90	50.59
<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-2.96	
<i>For Oversized Enclosure, Add</i>	29.61	
<i>For Pilot Light, Add</i>	43.43	
26 29 13 13-0006 EA NEMA 1, 2 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG4)	301.31	65.76
<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-2.96	
<i>For Oversized Enclosure, Add</i>	29.61	
<i>For Pilot Light, Add</i>	43.43	
26 29 13 13-0007 EA NEMA 1, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG5)	220.12	50.59
<i>For Oversized Enclosure, Add</i>	29.61	
26 29 13 13-0008 EA NEMA 1, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG6)	288.48	65.76
<i>For Oversized Enclosure, Add</i>	29.61	
26 29 13 13-0009 EA NEMA 4, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW1)	458.47	60.71
<i>For Pilot Light, Add</i>	113.50	
26 29 13 13-0010 EA NEMA 4, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW2)	525.84	75.88
<i>For Pilot Light, Add</i>	113.50	
26 29 13 13-0011 EA NEMA 3R, 7 And 9, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR1)	488.08	60.71
26 29 13 13-0012 EA NEMA 3R, 7 And 9, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR2)	552.49	75.88
26 29 13 13-0013 Non Reversing Manual Motor Starters <small>(26 29 13 13-0001)</small>		
26 29 13 13-0014 EA NEMA 1, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG1)	164.03	50.59
<i>Note: NEMA 1 or flush cover plate installation.</i>		
<i>For Oversize Enclosure, Add</i>	14.28	
<i>For Pilot Light, Add</i>	68.57	
26 29 13 13-0015 EA NEMA 1, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG2)	273.44	65.76
<i>Note: NEMA 1 or flush cover plate installation.</i>		
<i>For Oversize Enclosure, Add</i>	14.28	
<i>For Pilot Light, Add</i>	68.57	
26 29 13 13-0016 EA NEMA 1, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG5)	185.57	55.65
<i>Note: NEMA 1 or flush cover plate installation.</i>		
<i>For Oversize Enclosure, Add</i>	14.28	
<i>For Pilot Light, Add</i>	68.57	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0017 EA NEMA 1, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG6).....	295.93	70.83
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	14.28	
For Pilot Light, Add	68.57	
26 29 13 13-0018 EA NEMA 1, Non Reversing, 2 Pole, Key Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG3).....	191.65	50.59
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	14.28	
For Pilot Light, Add	68.57	
26 29 13 13-0019 EA NEMA 1, Non Reversing, 3 Pole, Key Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG4).....	302.01	65.76
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	14.28	
For Pilot Light, Add	68.57	
26 29 13 13-0020 EA NEMA 4, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW1).....	420.45	60.71
For Pilot Light, Add	108.57	
26 29 13 13-0021 EA NEMA 4, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW2).....	519.37	75.88
For Pilot Light, Add	108.57	
26 29 13 13-0022 EA NEMA 4, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW5).....	442.95	65.76
For Pilot Light, Add	108.57	
26 29 13 13-0023 EA NEMA 4, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW6).....	539.01	80.94
For Pilot Light, Add	108.57	
26 29 13 13-0024 EA NEMA 3R, 7 And 9, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR1).....	447.12	60.71
26 29 13 13-0025 EA NEMA 3R, 7 And 9, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR2).....	553.65	75.88
26 29 13 13-0026 EA Open Type, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO1).....	120.35	35.41
For Pilot Light, Add	68.57	
26 29 13 13-0027 EA Open Type, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO2).....	229.74	50.59
For Pilot Light, Add	68.57	
26 29 13 13-0028 EA Open Type, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO5).....	141.89	40.48
For Pilot Light, Add	68.57	
26 29 13 13-0029 EA Open Type, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO6).....	251.28	55.65
For Pilot Light, Add	68.57	
26 29 13 13-0030 Reversing Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0031 EA NEMA 1, Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG11).....	455.44	91.06
For Pilot Light, Add	110.47	
26 29 13 13-0032 EA NEMA 1, Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG22).....	662.81	121.42
For Pilot Light, Add	110.47	
26 29 13 13-0033 Two Speed Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0034 EA NEMA 1, Two Speed, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG11).....	455.44	91.06
26 29 13 13-0035 EA NEMA 1, Two Speed, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG22).....	662.81	121.42
26 29 13 13-0036 Non-Reversing Integral HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0037 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG1).....	424.43	60.71
26 29 13 13-0038 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG1).....	424.43	60.71
26 29 13 13-0039 EA NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW1).....	894.71	70.83
26 29 13 13-0040 EA NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW1).....	894.71	70.83
26 29 13 13-0041 EA NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR1).....	1,175.01	70.83
26 29 13 13-0042 EA Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA1).....	542.37	70.83
26 29 13 13-0043 EA Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO1).....	364.46	45.53
26 29 13 13-0044 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG1).....	505.61	65.76
26 29 13 13-0045 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG1).....	505.61	65.76
26 29 13 13-0046 EA NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW11).....	1,073.60	75.88
26 29 13 13-0047 EA NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW1).....	1,073.60	75.88



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0048 EA NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR1).....	1,375.61	75.88
26 29 13 13-0049 EA Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA1).....	623.55	75.88
26 29 13 13-0050 EA Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO1).....	445.64	50.59
26 29 13 13-0051 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG2).....	668.70	70.83
26 29 13 13-0052 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG2).....	668.70	70.83
26 29 13 13-0053 EA NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW12).....	1,279.14	80.94
26 29 13 13-0054 EA NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW2).....	1,279.14	80.94
26 29 13 13-0055 EA NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR2).....	1,568.32	80.94
26 29 13 13-0056 EA Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA2).....	789.61	80.94
26 29 13 13-0057 EA Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO2).....	611.69	55.65
26 29 13 13-0058 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG2).....	525.36	75.88
26 29 13 13-0059 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG2).....	525.36	75.88
26 29 13 13-0060 EA NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW12).....	995.64	86.01
26 29 13 13-0061 EA NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW2).....	995.64	86.01
26 29 13 13-0062 EA NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR2).....	1,283.83	86.01
26 29 13 13-0063 EA Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA2).....	644.28	86.01
26 29 13 13-0064 EA Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO2).....	468.36	60.71
26 29 13 13-0065 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG3).....	606.54	80.94
26 29 13 13-0066 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG3).....	606.54	80.94
26 29 13 13-0067 EA NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW13).....	1,174.53	91.06
26 29 13 13-0068 EA NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW3).....	1,174.53	91.06
26 29 13 13-0069 EA NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR3).....	1,483.45	91.06
26 29 13 13-0070 EA Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA3).....	724.48	91.06
26 29 13 13-0071 EA Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO3).....	546.58	65.76
26 29 13 13-0072 Reversing Integral HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0073 EA NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBG1).....	1,247.33	106.24
26 29 13 13-0074 EA NEMA 1, Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511TBG1).....	1,247.33	106.24
26 29 13 13-0075 EA Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBO1).....	1,102.73	75.88
26 29 13 13-0076 EA NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCG1).....	1,477.78	116.36
26 29 13 13-0077 EA Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCO1).....	1,333.18	86.01
26 29 13 13-0078 Two Speed Integral HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0079 EA NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBG1).....	1,247.33	106.24
26 29 13 13-0080 EA Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBO1).....	1,102.73	75.88
26 29 13 13-0081 EA NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCG1).....	1,477.78	116.36
26 29 13 13-0082 EA Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCO1).....	1,333.18	86.01
26 29 13 13-0083 Magnetic Contactors/Starters (26 29 13 13)		
26 29 13 13-0084 Non Reversing, Magnetic Contactors (26 29 13 13-0083)		
26 29 13 13-0085 Open Enclosure, Non Reversing, Magnetic Contactors (26 29 13 13-0084)		
26 29 13 13-0086 EA Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAO11).....	485.62	101.18
26 29 13 13-0087 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAO12).....	547.31	111.29

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0088 EA Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO5).....	527.07	101.18
26 29 13 13-0089 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO1).....	589.75	111.29
26 29 13 13-0090 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO2).....	651.43	121.42
26 29 13 13-0091 EA Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO3).....	823.67	151.77
26 29 13 13-0092 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO4).....	1,039.33	182.12
26 29 13 13-0093 EA Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO5).....	616.40	111.29
26 29 13 13-0094 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO1).....	678.08	121.42
26 29 13 13-0095 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO2).....	741.73	131.54
26 29 13 13-0096 EA Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO3).....	945.32	177.07
26 29 13 13-0097 EA Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO4).....	1,159.98	207.42
26 29 13 13-0098 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO1).....	1,059.04	121.42
26 29 13 13-0099 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO2).....	1,174.03	151.77
26 29 13 13-0100 EA Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO3).....	1,528.85	202.36
26 29 13 13-0101 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO1).....	1,596.45	151.77
26 29 13 13-0102 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO2).....	1,811.12	202.36
26 29 13 13-0103 EA Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO3).....	2,305.12	252.94
26 29 13 13-0104 EA Size 3, 3 Phase, 5 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO4).....	3,306.40	303.54
26 29 13 13-0105 EA Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO1).....	3,626.65	252.94
26 29 13 13-0106 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO2).....	3,981.48	303.54
26 29 13 13-0107 EA Size 4, 3 Phase, 4 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO3).....	5,403.19	354.13
26 29 13 13-0108 EA Size 5, 1 Phase, 2 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGO1).....	7,369.70	303.54
26 29 13 13-0109 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGO2).....	8,163.24	404.71
26 29 13 13-0110 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHO2).....	21,287.83	607.08
26 29 13 13-0111 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SJO2).....	30,470.56	910.61
26 29 13 13-0112 NEMA 1, Non Reversing, Magnetic Contactors (26 29 13 13-0084)		
26 29 13 13-0113 EA Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAG11).....	516.21	101.18
26 29 13 13-0114 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAG12).....	577.90	111.29
26 29 13 13-0115 EA Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG5).....	557.66	101.18
26 29 13 13-0116 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG1).....	621.33	111.29
26 29 13 13-0117 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG2).....	683.01	121.42
26 29 13 13-0118 EA Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG3).....	857.22	151.77
26 29 13 13-0119 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG4).....	1,073.87	182.12
26 29 13 13-0120 EA Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG5).....	648.96	111.29
26 29 13 13-0121 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG1).....	712.62	121.42
26 29 13 13-0122 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG2).....	774.30	131.54
26 29 13 13-0123 EA Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG3).....	978.87	177.07
26 29 13 13-0124 EA Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG4).....	1,192.55	207.42
26 29 13 13-0125 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG1).....	1,205.11	121.42
26 29 13 13-0126 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG2).....	1,321.09	151.77
26 29 13 13-0127 EA Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG3).....	1,674.92	202.36
26 29 13 13-0128 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG1).....	1,883.66	151.77



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0129 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG2).....	2,097.34	202.36
26 29 13 13-0130 EA Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG3).....	2,592.32	252.94
26 29 13 13-0131 EA Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFG1).....	4,221.79	252.94
26 29 13 13-0132 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFG2).....	4,576.61	303.54
26 29 13 13-0133 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGG2).....	9,247.91	404.71
26 29 13 13-0134 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHG2).....	26,057.78	607.08
26 29 13 13-0135 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SJG2).....	35,254.33	910.61
26 29 13 13-0136 NEMA 12, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
26 29 13 13-0137 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBA1).....	790.10	111.29
26 29 13 13-0138 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBA2).....	851.78	121.42
26 29 13 13-0139 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCA2).....	943.07	131.54
26 29 13 13-0140 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDA1).....	1,513.04	121.42
26 29 13 13-0141 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDA2).....	1,630.01	151.77
26 29 13 13-0142 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEA1).....	2,248.83	151.77
26 29 13 13-0143 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEA2).....	2,461.52	202.36
26 29 13 13-0144 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFA2).....	5,785.63	303.54
26 29 13 13-0145 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGA2).....	12,342.01	404.71
26 29 13 13-0146 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHA2).....	29,851.64	607.08
26 29 13 13-0147 NEMA 4/4X, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
<small>Note: Brushed stainless steel enclosure.</small>		
26 29 13 13-0148 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBW12).....	1,175.50	121.42
26 29 13 13-0149 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW11).....	1,218.93	121.42
26 29 13 13-0150 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW12).....	1,280.61	131.54
26 29 13 13-0151 EA Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW13).....	1,485.18	177.07
26 29 13 13-0152 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDW12).....	2,333.71	151.77
26 29 13 13-0153 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEW12).....	3,530.40	202.36
26 29 13 13-0154 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFW12).....	7,023.27	303.54
26 29 13 13-0155 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGW12).....	12,342.01	404.71
26 29 13 13-0156 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHW2).....	33,084.90	607.08
26 29 13 13-0157 NEMA 7/9, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
<small>Note: Bolted cast iron enclosure.</small>		
26 29 13 13-0158 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 7/9 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBT2).....	2,366.77	161.89
26 29 13 13-0159 Non Reversing, Magnetic Starters <small>(26 29 13 13-0083)</small>		
26 29 13 13-0160 Open Enclosure, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0161 EA Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAO11).....	583.32	101.18
26 29 13 13-0162 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAO12).....	603.56	111.29
26 29 13 13-0163 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO1).....	651.93	111.29
26 29 13 13-0164 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO2).....	721.50	121.42
26 29 13 13-0165 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO4).....	1,162.70	182.12
26 29 13 13-0166 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO1).....	743.22	121.42
26 29 13 13-0167 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO3).....	874.97	131.54

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0168	EA	Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO2).....	916.42	131.54
26 29 13 13-0169	EA	Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDO6).....	1,148.85	121.42
26 29 13 13-0170	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDO1).....	1,301.35	151.77
26 29 13 13-0171	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEO1).....	2,021.34	202.36
26 29 13 13-0172	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFO1).....	4,305.20	303.54
26 29 13 13-0173	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGO1).....	9,842.05	404.71
26 29 13 13-0174	EA	Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SHO2).....	22,686.34	607.08
26 29 13 13-0175	EA	Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SJO2).....	32,673.44	910.61
26 29 13 13-0176		NEMA 1, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0177	EA	Size 00, 1 Phase, 2 Pole, .34 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAG11).....	615.89	101.18
26 29 13 13-0178	EA	Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAG12).....	636.13	111.29
26 29 13 13-0179	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBG1).....	684.49	111.29
26 29 13 13-0180	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBG2).....	754.07	121.42
26 29 13 13-0181	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG1).....	774.80	121.42
26 29 13 13-0182	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG3).....	845.36	131.54
26 29 13 13-0183	EA	Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG2).....	949.98	131.54
26 29 13 13-0184	EA	Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDG6).....	1,295.91	121.42
26 29 13 13-0185	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDG1).....	1,448.41	151.77
26 29 13 13-0186	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEG1).....	2,308.55	202.36
26 29 13 13-0187	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFG1).....	4,900.33	303.54
26 29 13 13-0188	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGG1).....	10,929.68	404.71
26 29 13 13-0189		NEMA 12, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0190	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBA1).....	853.26	111.29
26 29 13 13-0191	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBA2).....	922.84	121.42
26 29 13 13-0192	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA1).....	943.57	121.42
26 29 13 13-0193	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA3).....	1,014.13	131.54
26 29 13 13-0194	EA	Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA2).....	1,118.75	131.54
26 29 13 13-0195	EA	Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDA6).....	1,604.83	121.42
26 29 13 13-0196	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDA1).....	1,756.34	151.77
26 29 13 13-0197	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEA1).....	2,672.73	202.36
26 29 13 13-0198	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFA1).....	6,108.37	303.54
26 29 13 13-0199	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGA1).....	14,020.82	404.71
26 29 13 13-0200	EA	Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SHA2).....	33,514.23	607.08
26 29 13 13-0201		NEMA 3R, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0202	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBH1).....	853.26	111.29
26 29 13 13-0203	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBH2).....	922.84	121.42
26 29 13 13-0204	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH1).....	943.57	121.42
26 29 13 13-0205	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH3).....	1,014.13	131.54
26 29 13 13-0206	EA	Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH2).....	1,118.75	131.54
26 29 13 13-0207	EA	Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDH6).....	1,604.83	121.42



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0208 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDH1)	1,756.34	151.77
26 29 13 13-0209 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEH1)	2,672.73	202.36
26 29 13 13-0210 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFH1)	6,108.37	303.54
26 29 13 13-0211 NEMA 3R/4/4X/7/9, Non Reversing, Magnetic Starters (26 29 13 13-0159) Note: Bolted cast aluminum enclosure.		
26 29 13 13-0212 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT4)	2,465.95	172.00
26 29 13 13-0213 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCR1)	3,040.36	172.00
26 29 13 13-0214 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCR3)	3,131.67	182.12
26 29 13 13-0215 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDR1)	4,872.66	202.36
26 29 13 13-0216 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SET43)	5,873.95	252.94
26 29 13 13-0217 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFT41)	9,371.74	354.13
26 29 13 13-0218 NEMA 4/4X, Non Reversing, Magnetic Starters (26 29 13 13-0159) Note: Brushed stainless steel enclosure.		
26 29 13 13-0219 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBW11)	1,176.00	111.29
26 29 13 13-0220 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBW12)	1,246.56	121.42
26 29 13 13-0221 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW11)	1,281.11	121.42
26 29 13 13-0222 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW13)	1,351.67	131.54
26 29 13 13-0223 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 7-1/2 HP At 460/575 Volt, 36 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW12)	1,456.29	131.54
26 29 13 13-0224 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDW16)	2,306.55	121.42
26 29 13 13-0225 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEW11)	3,740.62	202.36
26 29 13 13-0226 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFW11)	7,345.02	303.54
26 29 13 13-0227 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGW11)	16,398.39	404.71
26 29 13 13-0228 NEMA 4X, Non Reversing, Magnetic Starters (26 29 13 13-0159) Note: Glass polyester enclosure.		
26 29 13 13-0229 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDW21)	2,461.02	151.77
26 29 13 13-0230 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEW21)	4,575.58	202.36
26 29 13 13-0231 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFW21)	9,030.74	303.54
26 29 13 13-0232 NEMA 7/9, Non Reversing, Magnetic Starters (26 29 13 13-0159) Note: Bolted cast iron enclosure.		
26 29 13 13-0233 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT1)	2,387.49	161.89
26 29 13 13-0234 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT2)	2,465.95	172.00
26 29 13 13-0235 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT1)	2,501.48	172.00
26 29 13 13-0236 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT3)	2,576.02	182.12
26 29 13 13-0237 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 36 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT2)	2,696.42	182.12
26 29 13 13-0238 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDT1)	3,980.45	202.36
26 29 13 13-0239 Reversing, Magnetic Starters (26 29 13 13-0083)		
26 29 13 13-0240 Open Enclosure, Reversing, Magnetic Starters (26 29 13 13-0239)		
26 29 13 13-0241 EA Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO13)	1,114.80	131.54
26 29 13 13-0242 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO16)	1,176.98	131.54
26 29 13 13-0243 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO1)	1,303.81	141.65
26 29 13 13-0244 EA Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO2)	1,351.69	151.77

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0245	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO10).....	1,386.23	151.77
26 29 13 13-0246	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO2)	1,483.44	161.89
26 29 13 13-0247	EA	Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO3)	1,543.41	177.07
26 29 13 13-0248	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO7)	1,578.94	177.07
26 29 13 13-0249	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDO1).....	2,723.07	202.36
26 29 13 13-0250	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEO1).....	4,458.18	303.54
26 29 13 13-0251	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFO1).....	10,316.29	455.31
26 29 13 13-0252	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SGO1)	19,284.31	607.08
26 29 13 13-0253	EA	Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SJO1).....	62,676.93	1,112.98
26 29 13 13-0254		NEMA 1, Reversing, Magnetic Starters (26 29 13 13-0239)		
26 29 13 13-0255	EA	Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG13).....	1,153.79	121.42
26 29 13 13-0256	EA	Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG15).....	1,203.63	131.54
26 29 13 13-0257	EA	Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG16)	1,239.16	131.54
26 29 13 13-0258	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG1).....	1,363.03	141.65
26 29 13 13-0259	EA	Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG2).....	1,412.88	151.77
26 29 13 13-0260	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG4).....	1,448.41	151.77
26 29 13 13-0261	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG2)	1,572.27	161.89
26 29 13 13-0262	EA	Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG6)	1,632.24	177.07
26 29 13 13-0263	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG8)	1,667.77	177.07
26 29 13 13-0264	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDG2).....	2,954.01	202.36
26 29 13 13-0265	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEG2).....	4,857.90	303.54
26 29 13 13-0266	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFG3).....	11,050.59	455.31
26 29 13 13-0267		NEMA 12, Reversing, Magnetic Starters (26 29 13 13-0239)		
26 29 13 13-0268	EA	Size 0, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 18 Amp, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA2).....	1,665.54	151.77
26 29 13 13-0269	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA4).....	1,701.07	151.77
26 29 13 13-0270	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCA4).....	1,920.43	177.07
26 29 13 13-0271	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDA1).....	3,376.43	202.36
26 29 13 13-0272		NEMA 4X, Reversing, Magnetic Starters (26 29 13 13-0239)		
		Note: Brushed stainless steel enclosure.		
26 29 13 13-0273	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBW14).....	2,093.88	151.77
26 29 13 13-0274	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCW11).....	2,472.37	161.89
26 29 13 13-0275		Magnetic Contactor/Starters Accessories (26 29 13 13-0083)		
26 29 13 13-0276	EA	NEMA 1 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA2)	155.86	12.65
		For Factory Installed Accessory, Deduct	-25.30	
26 29 13 13-0277	EA	NEMA 12 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA3).....	267.28	12.65
		For Factory Installed Accessory, Deduct	-25.30	
26 29 13 13-0278	EA	NEMA 1 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC2).....	155.86	12.65
		For Factory Installed Accessory, Deduct	-25.30	
26 29 13 13-0279	EA	NEMA 12 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC8).....	267.28	12.65
		For Factory Installed Accessory, Deduct	-25.30	
26 29 13 13-0280	EA	NEMA 1 And 12 Enclosure Red Pilot Light Kit, Contactor/Starter Accessory (Square D 9999SP2R).....	267.28	12.65
		For Factory Installed Accessory, Deduct	-25.30	
26 29 13 13-0281	EA	Internal Nonconvertible Contact Block Kit, 1 Contact, Contactor/Starter Accessory (Square D 9999SX11).....	131.65	10.12
		For Factory Installed Accessory, Deduct	-20.23	
26 29 13 13-0282	EA	External Convertible Field Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX6).....	117.02	10.12
		For Factory Installed Accessory, Deduct	-20.23	



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Low-Voltage Electrical Distribution	26 20	26
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0283 EA External Convertible Field Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX8).....	155.86	12.65
<i>For Factory Installed Accessory, Deduct</i>	-25.30	
26 29 13 13-0284 EA External Field Non Convertible Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX13).....	131.65	10.12
<i>For Factory Installed Accessory, Deduct</i>	-20.23	
26 29 13 13-0285 EA External Field Non Convertible Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX15).....	176.11	12.65
<i>For Factory Installed Accessory, Deduct</i>	-25.30	
26 29 13 13-0286 EA 30 Amp, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB6).....	198.06	10.12
<i>For Factory Installed Accessory, Deduct</i>	-20.23	
26 29 13 13-0287 EA 45 Amp, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB11).....	343.24	10.12
<i>For Factory Installed Accessory, Deduct</i>	-20.23	
26 29 13 13-0288 EA 60 Amp, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB21).....	364.63	10.12
<i>For Factory Installed Accessory, Deduct</i>	-20.23	
26 29 13 13-0289 EA 30 Amp, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB8).....	436.10	12.65
<i>For Factory Installed Accessory, Deduct</i>	-25.30	
26 29 13 13-0290 EA 45 Amp, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB13).....	763.61	12.65
<i>For Factory Installed Accessory, Deduct</i>	-25.30	
26 29 13 13-0291 EA 60 Amp, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB23).....	763.61	12.65
<i>For Factory Installed Accessory, Deduct</i>	-25.30	
26 29 13 13-0292 EA Adapter Bracket For Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SBT1).....	44.56	7.59
<i>For Factory Installed Accessory, Deduct</i>	-15.18	
26 29 13 13-0293 EA 1 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF3).....	92.26	10.12
<i>For Factory Installed Accessory, Deduct</i>	-20.23	
26 29 13 13-0294 EA 2 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF4).....	122.09	12.65
<i>For Factory Installed Accessory, Deduct</i>	-25.30	
26 29 13 13-0295 EA Transient Suppression Module, Contactor/Starter Accessory (Square D 9999ST1).....	95.08	12.65
<i>For Factory Installed Accessory, Deduct</i>	-25.30	
26 29 13 13-0296 EA Terminal Block, Contactor/Starter Accessory (Square D 9999T7).....	52.67	7.59
<i>For Factory Installed Accessory, Deduct</i>	-15.18	
26 29 13 13-0297 EA Closing Plate For NEMA 1 Enclosures, Contactor/Starter Accessory (Square D 9999SG1).....	31.28	7.59
<i>For Factory Installed Accessory, Deduct</i>	-15.18	
26 29 13 13-0298 EA 1 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R39).....	172.17	10.12
<i>For Factory Installed Accessory, Deduct</i>	-20.23	
26 29 13 13-0299 EA 2 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R40).....	298.79	12.65
<i>For Factory Installed Accessory, Deduct</i>	-25.30	
26 29 13 13-0300 Definite Purpose Starters <small>(26 29 13 13)</small>		
26 29 13 13-0301 Open Enclosure, Definite Purpose Starter <small>(26 29 13 13-0300)</small>		
26 29 13 13-0302 EA Open Enclosure, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO13).....	535.96	121.42
<i>For Factory Installed Accessory, Deduct</i>	-242.83	
26 29 13 13-0303 EA Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO22).....	534.97	121.42
<i>For Factory Installed Accessory, Deduct</i>	-242.83	
26 29 13 13-0304 EA Open Enclosure, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO23).....	578.89	131.54
<i>For Factory Installed Accessory, Deduct</i>	-263.06	
26 29 13 13-0305 EA Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO32).....	571.49	121.42
<i>For Factory Installed Accessory, Deduct</i>	-242.83	
26 29 13 13-0306 EA Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO33).....	621.32	131.54
<i>For Factory Installed Accessory, Deduct</i>	-263.06	
26 29 13 13-0307 EA Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO42).....	603.07	121.42
<i>For Factory Installed Accessory, Deduct</i>	-242.83	
26 29 13 13-0308 EA Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO43).....	697.34	151.77
<i>For Factory Installed Accessory, Deduct</i>	-303.54	
26 29 13 13-0309 EA Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO52).....	779.25	151.77
<i>For Factory Installed Accessory, Deduct</i>	-303.54	
26 29 13 13-0310 EA Open Enclosure, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO53).....	983.81	177.07
<i>For Factory Installed Accessory, Deduct</i>	-354.13	
26 29 13 13-0311 NEMA 1, Definite Purpose Starter <small>(26 29 13 13-0300)</small>		
26 29 13 13-0312 EA NEMA 1, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 20 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG12).....	550.27	111.29
<i>For Factory Installed Accessory, Deduct</i>	-222.60	
26 29 13 13-0313 EA NEMA 1, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG13).....	594.19	121.42
<i>For Factory Installed Accessory, Deduct</i>	-242.83	
26 29 13 13-0314 EA NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG22).....	592.21	121.42
<i>For Factory Installed Accessory, Deduct</i>	-242.83	
26 29 13 13-0315 EA NEMA 1, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG23).....	639.09	131.54
<i>For Factory Installed Accessory, Deduct</i>	-263.06	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0316 EA NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG32).....	.629.72	121.42
<i>For Factory Installed Accessory, Deduct</i>	-242.83	
26 29 13 13-0317 EA NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG33).....	.680.54	131.54
<i>For Factory Installed Accessory, Deduct</i>	-263.06	
26 29 13 13-0318 EA NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG42).....	.663.27	121.42
<i>For Factory Installed Accessory, Deduct</i>	-242.83	
26 29 13 13-0319 EA NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG43).....	.756.55	151.77
<i>For Factory Installed Accessory, Deduct</i>	-303.54	
26 29 13 13-0320 EA NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG52).....	.835.51	151.77
<i>For Factory Installed Accessory, Deduct</i>	-303.54	
26 29 13 13-0321 EA NEMA 1, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG53).....	1,041.05	177.07
<i>For Factory Installed Accessory, Deduct</i>	-354.13	
26 29 13 13-0322 Definite Purpose Starter Accessory <small>(26 29 13 13-0300)</small>		
26 29 13 13-0323 EA Start-Stop Push Button Kit, Definite Purpose Starter Accessory.....	.176.11	12.65
Note: Or Hand-Off-Auto Selector Switch Kit		
<i>For Factory Installed Accessory, Deduct</i>	-25.30	
26 29 13 13-0324 Panel Mounted Miniature Contactor <small>(26 29 13 13)</small>		
26 29 13 13-0325 Non Reversing, Panel Mounted Miniature Contactor <small>(26 29 13 13-0324)</small>		
26 29 13 13-0326 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	.157.44	50.59
26 29 13 13-0327 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	.185.31	55.65
26 29 13 13-0328 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	.185.31	55.65
26 29 13 13-0329 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	.206.30	60.71
26 29 13 13-0330 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	.175.20	50.59
26 29 13 13-0331 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	.185.07	50.59
26 29 13 13-0332 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	.202.09	55.65
26 29 13 13-0333 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	.211.96	55.65
26 29 13 13-0334 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	.208.01	55.65
26 29 13 13-0335 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	.211.96	55.65
26 29 13 13-0336 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amp, 20 Amp, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	.226.04	60.71
26 29 13 13-0337 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	.217.88	55.65
26 29 13 13-0338 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	.235.91	60.71
26 29 13 13-0339 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	.219.86	55.65
26 29 13 13-0340 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	.219.86	55.65
26 29 13 13-0341 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	.245.78	60.71
26 29 13 13-0342 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	.245.78	60.71
26 29 13 13-0343 Reversing, Panel Mounted Miniature Contactor <small>(26 29 13 13-0324)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0344 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	229.48	50.59
26 29 13 13-0345 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, AC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	249.22	50.59
26 29 13 13-0346 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	276.11	55.65
26 29 13 13-0347 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	276.11	55.65
26 29 13 13-0348 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	295.85	55.65
26 29 13 13-0349 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	309.93	60.71
26 29 13 13-0350 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amp, 20 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	309.93	60.71
26 29 13 13-0351 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	266.00	50.59
26 29 13 13-0352 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	285.74	50.59
26 29 13 13-0353 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	310.65	55.65
26 29 13 13-0354 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	330.39	55.65
26 29 13 13-0355 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	350.39	60.71
26 29 13 13-0356 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	370.13	60.71
26 29 13 13-0357 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	299.80	55.65
26 29 13 13-0358 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	346.19	55.65
26 29 13 13-0359 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	391.85	60.71
26 29 13 13-0360 Panel Mounted Miniature Contactor Accessories <small>(26 29 13 13-0324)</small>		
26 29 13 13-0361 EA 2 Auxiliary Contacts, 10 Amp, Panel Mounted Miniature Contactor Accessory (Square D LA1KN02).....	66.09	25.30
26 29 13 13-0362 EA 4 Auxiliary Contacts, 10 Amp, Panel Mounted Miniature Contactor Accessory (Square D LA1KN40).....	73.71	25.30
26 29 13 13-0363 EA Electronic Time Delay Contact, 2 Amp, Panel Mounted Miniature Contactor Accessory (Square D LA2KT2U).....	87.51	25.30
26 29 13 13-0364 EA Overload Relay, Panel Mounted Miniature Contactor Accessory (Square D LR2K0301).....	114.95	25.30
26 29 13 13-0365 Reduced Voltage Auto Transformer Type 240-600 Volt, 3 Pole <small>(26 29 13 13)</small>		
26 29 13 13-0366 NEMA 1 Enclosure <small>(26 29 13 13-0365)</small>		
26 29 13 13-0367 EA Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	6,956.87	484.71
For NEMA 4, Add	745.86	
26 29 13 13-0368 EA Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	12,193.51	646.27
For NEMA 4, Add	1,362.36	
26 29 13 13-0369 EA Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	21,422.16	767.46
For NEMA 4, Add	2,486.52	
26 29 13 13-0370 EA Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	52,433.65	939.12
For NEMA 4, Add	6,320.45	
26 29 13 13-0371 EA Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	83,714.49	1,201.68
For NEMA 4, Add	10,163.77	
26 29 13 13-0372 NEMA 12 Enclosure <small>(26 29 13 13-0365)</small>		
26 29 13 13-0373 EA Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	6,907.17	495.01
26 29 13 13-0374 EA Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	12,102.73	647.29
26 29 13 13-0375 EA Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	21,256.47	765.03
26 29 13 13-0376 EA Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	52,012.49	934.98
26 29 13 13-0377 EA Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	83,037.23	1,202.18
26 29 13 13-0378 Factory Modifications Pilot Devices <small>(26 29 13 13-0365)</small>		
26 29 13 13-0379 EA Start-Stop Push-button, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	175.73	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 29	Low-Voltage Controllers



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0380	EA	H-O-A Select Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	193.81	
26 29 13 13-0381	EA	Forward-Reverse-Stop, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	329.90	
26 29 13 13-0382	EA	Pilot Light, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	179.24	
26 29 13 13-0383	EA	Fused Control Circuit, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	257.73	
26 29 13 13-0384	EA	Auxiliary Interlock, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	128.87	
26 29 13 13-0385	EA	Auxiliary Relay, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	420.61	
26 29 13 13-0386		Factory Modifications Meters <small>(26 29 13 13-0385)</small>		
26 29 13 13-0387	EA	Ammeter And Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	1,690.71	
26 29 13 13-0388	EA	Voltmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	1,633.00	
26 29 13 13-0389	EA	Wattmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	577.32	
26 29 13 13-0390	EA	Elapsed-time Meter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	478.36	
26 29 13 13-0391		Factory Modifications Main Circuit Breakers <small>(26 29 13 13-0385)</small>		
26 29 13 13-0392	EA	Reduced Voltage Auto Transformer Starter, Size 3, Circuit Breaker, Factory Modification Main Circuit Breaker.....	2,234.53	
26 29 13 13-0393	EA	Reduced Voltage Auto Transformer Starter, Size 4, Circuit Breaker, Factory Modification Main Circuit Breaker.....	4,086.67	
26 29 13 13-0394	EA	Reduced Voltage Auto Transformer Starter, Size 5-7, Circuit Breaker, Factory Modification Main Circuit Breaker.....	8,692.75	
26 29 13 13-0395		Factory Modifications Addition <small>(26 29 13 13-0385)</small>		
		Note: For reversing service auto transformer type.		
26 29 13 13-0396	EA	Reduced Voltage Auto Transformer Starter, Size 3, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase.....	375.27	
26 29 13 13-0397	EA	Reduced Voltage Auto Transformer Starter, Size 4, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase.....	375.27	
26 29 13 13-0398	EA	Reduced Voltage Auto Transformer Starter, Size 5, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase.....	375.27	
26 29 13 13-0399	EA	Reduced Voltage Auto Transformer Starter, Size 6, 7, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase.....	375.27	
26 29 13 13-0400		Combination Starters Non-Reversing <small>(26 29 13 13)</small>		
26 29 13 13-0401		240-600 Volt, 3-Pole <small>(26 29 13 13-0400)</small>		
26 29 13 13-0402		NEMA 1 With Disconnect Switch <small>(26 29 13 13-0401)</small>		
26 29 13 13-0403	EA	Combination Starter, Size 0, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	1,565.19	232.26
		<i>For Electronic Overloads, Add</i>	208.56	
26 29 13 13-0404	EA	Combination Starter, Size 1, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	1,889.75	363.53
		<i>For Electronic Overloads, Add</i>	220.02	
26 29 13 13-0405	EA	Combination Starter, Size 2, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,675.01	424.13
		<i>For Electronic Overloads, Add</i>	348.37	
26 29 13 13-0406	EA	Combination Starter, Size 3, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,103.71	525.10
		<i>For Electronic Overloads, Add</i>	579.85	
26 29 13 13-0407	EA	Combination Starter, Size 4, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	7,569.53	838.14
		<i>For Electronic Overloads, Add</i>	1,118.44	
26 29 13 13-0408	EA	Combination Starter, Size 5, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	15,320.28	1,050.21
		<i>For Electronic Overloads, Add</i>	2,511.14	
26 29 13 13-0409		NEMA 1 With Circuit Breaker <small>(26 29 13 13-0401)</small>		
26 29 13 13-0410	EA	Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	1,999.44	232.26
		<i>For Electronic Overloads, Add</i>	291.07	
26 29 13 13-0411	EA	Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,324.00	363.53
		<i>For Electronic Overloads, Add</i>	302.53	
26 29 13 13-0412	EA	Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,097.20	424.13
		<i>For Electronic Overloads, Add</i>	428.58	
26 29 13 13-0413	EA	Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,332.90	525.10
		<i>For Electronic Overloads, Add</i>	623.39	
26 29 13 13-0414	EA	Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	8,884.35	838.14
		<i>For Electronic Overloads, Add</i>	1,368.25	
26 29 13 13-0415	EA	Combination Starter, Size 5, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	18,806.35	1,050.21
		<i>For Electronic Overloads, Add</i>	3,173.49	
26 29 13 13-0416		Factory Modifications For NEMA 1 Enclosure <small>(26 29 13 13-0401)</small>		
26 29 13 13-0417	EA	Start-Stop Push-button, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt.....	197.75	
26 29 13 13-0418	EA	H-O-A Select Switch, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt.....	464.48	
26 29 13 13-0419	EA	Pilot Light, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt.....	320.57	
26 29 13 13-0420		NEMA 4 With Disconnect Switch <small>(26 29 13 13-0401)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0421 EA Combination Starter, Size 0, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	2,879.03 428.58	302.94
26 29 13 13-0422 EA Combination Starter, Size 1, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	3,157.51 440.04	424.13
26 29 13 13-0423 EA Combination Starter, Size 2, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	4,553.77 687.56	464.51
26 29 13 13-0424 EA Combination Starter, Size 3, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	7,285.97 1,171.15	565.49
26 29 13 13-0425 EA Combination Starter, Size 4, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	11,550.17 1,874.76	838.14
26 29 13 13-0426 EA Combination Starter, Size 5, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	25,476.92 4,440.90	1,050.21
26 29 13 13-0427 NEMA 4 With Circuit Breaker (26 29 13 13-0401)		
26 29 13 13-0428 EA Combination Starter, Size 0, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	3,313.28 511.09	302.94
26 29 13 13-0429 EA Combination Starter, Size 1, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	3,591.77 522.55	424.13
26 29 13 13-0430 EA Combination Starter, Size 2, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	4,975.96 767.78	464.51
26 29 13 13-0431 EA Combination Starter, Size 3, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	7,515.16 1,214.70	565.49
26 29 13 13-0432 EA Combination Starter, Size 4, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	12,864.98 2,124.57	838.14
26 29 13 13-0433 EA Combination Starter, Size 5, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	24,113.86 4,181.92	1,050.21
26 29 13 13-0434 Factory Modifications For NEMA 4 Enclosure (26 29 13 13-0401)		
26 29 13 13-0435 EA Start-Stop Push-button, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt	197.78	
26 29 13 13-0436 EA H-O-A Select Switch, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	464.48	
26 29 13 13-0437 EA Pilot Light, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	320.57	
26 29 13 13-0438 NEMA 12 With Disconnect Switch (26 29 13 13-0401)		
26 29 13 13-0439 EA Combination Starter, Size 0, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	1,620.07 218.99	233.77
26 29 13 13-0440 EA Combination Starter, Size 1, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	1,947.65 231.02	365.85
26 29 13 13-0441 EA Combination Starter, Size 2, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	2,766.69 365.78	420.79
26 29 13 13-0442 EA Combination Starter, Size 3, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	4,256.30 608.84	525.91
26 29 13 13-0443 EA Combination Starter, Size 4, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	7,863.85 1,174.36	841.57
26 29 13 13-0444 EA Combination Starter, Size 5, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	15,981.09 2,636.69	1,051.82
26 29 13 13-0445 NEMA 12 With Circuit Breaker (26 29 13 13-0401)		
26 29 13 13-0446 EA Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	2,138.60 317.51	233.77
26 29 13 13-0447 EA Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	2,468.64 330.01	365.85
26 29 13 13-0448 EA Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	3,302.10 467.51	420.79
26 29 13 13-0449 EA Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	4,630.93 680.02	525.91
26 29 13 13-0450 EA Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	9,538.50 1,492.54	841.57
26 29 13 13-0451 EA Combination Starter, Size 5, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	20,323.57 3,461.76	1,051.82
26 29 13 13-0452 Factory Modifications For NEMA 12 Enclosure (26 29 13 13-0401)		
26 29 13 13-0453 EA Start-Stop Push-button, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt	196.13	
26 29 13 13-0454 EA H-O-A Select Switch, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	460.61	
26 29 13 13-0455 EA Pilot Light, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	317.90	
26 29 13 13-0456 NEMA 7 Or 9 With Circuit Breaker (26 29 13 13-0401)		
26 29 13 13-0457 EA Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	3,784.51 512.47	484.71
26 29 13 13-0458 EA Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	5,127.47 557.13	646.27
26 29 13 13-0459 EA Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	5,571.13 828.25	888.64
26 29 13 13-0460 EA Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	8,280.25 12,479.14	1,211.78
26 29 13 13-0461 EA Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	12,479.14	1,696.48
26 29 13 13-0462 Factory Modifications For NEMA 7 Or 9 Enclosure (26 29 13 13-0401)		
26 29 13 13-0463 EA Start-Stop Push-button, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt	1,176.07	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0464 EA H-0-A Select Switch, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,176.07	
26 29 13 13-0465 EA Pilot Light, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,176.07	
26 29 13 13-0466 Combination Starters Reversing (26 29 13 13)		
26 29 13 13-0467 240-600 Volt, 3 Pole (26 29 13 13-0466)		
26 29 13 13-0468 NEMA 1 With Disconnect Switch (26 29 13 13-0467)		
26 29 13 13-0469 EA Combination Starter, Size 0, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	1,931.43	302.94
26 29 13 13-0470 EA Combination Starter, Size 1, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	2,237.20	424.13
26 29 13 13-0471 EA Combination Starter, Size 2, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	3,267.97	464.51
26 29 13 13-0472 EA Combination Starter, Size 3, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	4,987.90	565.49
26 29 13 13-0473 EA Combination Starter, Size 4, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	9,779.77	838.14
26 29 13 13-0474 NEMA 1 With Circuit Breaker (26 29 13 13-0467)		
26 29 13 13-0475 EA Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,160.56	302.94
26 29 13 13-0476 EA Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,481.78	424.13
26 29 13 13-0477 EA Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,554.29	464.51
26 29 13 13-0478 EA Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,593.72	565.49
26 29 13 13-0479 EA Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	10,554.22	838.14
26 29 13 13-0480 NEMA 12 With Disconnect Switch (26 29 13 13-0467)		
26 29 13 13-0481 EA Combination Starter, Size 0, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	2,064.67	311.73
26 29 13 13-0482 EA Combination Starter, Size 1, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	2,379.36	420.79
26 29 13 13-0483 EA Combination Starter, Size 2, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	3,505.60	467.54
26 29 13 13-0484 EA Combination Starter, Size 3, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	5,381.67	561.05
26 29 13 13-0485 EA Combination Starter, Size 4, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	10,604.47	841.57
26 29 13 13-0486 NEMA 12 With Circuit Breaker (26 29 13 13-0467)		
26 29 13 13-0487 EA Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,317.13	311.73
26 29 13 13-0488 EA Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,648.85	420.79
26 29 13 13-0489 EA Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,821.08	467.54
26 29 13 13-0490 EA Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,947.34	561.05
26 29 13 13-0491 EA Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	11,457.80	841.57
26 29 13 13-0492 NEMA 7 Or 9 With Circuit Breaker (26 29 13 13-0467)		
26 29 13 13-0493 EA Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,587.07	646.27
26 29 13 13-0494 EA Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,923.61	807.85
26 29 13 13-0495 EA Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	7,084.22	1,050.21
26 29 13 13-0496 EA Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	11,284.49	1,373.34
26 29 13 13-0497 EA Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	20,627.31	1,858.05
26 29 13 13-0498 Solid State Motor Controllers (26 29 13 13)		
26 29 13 13-0499 Adjustable Voltage Drives, DC Motors (26 29 13 13-0498)		
26 29 13 13-0500 EA 0.5-1.5 HP DC Solid State Motor Controller, Reversing With Dynamic Braking.....	1,537.51	181.76
26 29 13 13-0501 EA 0.5-2.0 HP DC Solid State Motor Controller, Non-Reversing With Dynamic Braking.....	1,858.12	181.76
26 29 13 13-0502 Removal And Reinstallation Of Motor Starters (26 29 13 13)		
Note: Includes storage and cleaning.		
26 29 13 13-0503 EA Removal And Reinstallation Of Up To 25 HP Motor Starter With Disconnect.....	721.29	
26 29 13 13-0504 Auxiliary Devices (26 29 13 13)		
26 29 13 13-0505 EA Normally Open, Auxiliary Contact	451.59	100.98
26 29 13 13-0506 EA Normally Closed, Auxiliary Contact	451.59	100.98
26 29 13 13-0507 EA Pilot Light Kit.....	476.78	100.98
26 29 23 Variable-Frequency Motor Controllers (26 29)		
26 29 23 00-0001 208/230 Volt Variable Frequency Drives (26 29 23)		
Note: 1 or 3 phase. Wall mounted. ABB ACH550 or ACS550 Series. Includes full voltage bypass. NEMA 1 enclosure.		
26 29 23 00-0002 EA 3/4 HP, 208/230 Volt Variable Frequency Drive.....	1,962.90	386.24
26 29 23 00-0003 EA 1 HP, 208/230 Volt Variable Frequency Drive.....	2,210.72	422.14
26 29 23 00-0004 EA 1-1/2 HP, 208/230 Volt Variable Frequency Drive.....	2,569.79	464.17
26 29 23 00-0005 EA 2 HP, 208/230 Volt Variable Frequency Drive.....	2,710.64	446.17
26 29 23 00-0006 EA 3 HP, 208/230 Volt Variable Frequency Drive.....	2,905.58	486.45
26 29 23 00-0007 EA 5 HP, 208/230 Volt Variable Frequency Drive.....	3,143.85	486.45
26 29 23 00-0008 EA 7.5 HP, 208/230 Volt Variable Frequency Drive.....	3,756.19	580.82
26 29 23 00-0009 EA 10 HP, 208/230 Volt Variable Frequency Drive.....	4,100.36	580.82
26 29 23 00-0010 EA 15 HP, 208/230 Volt Variable Frequency Drive.....	5,402.62	874.54
26 29 23 00-0011 EA 20 HP, 208/230 Volt Variable Frequency Drive.....	6,355.72	874.54



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 23 00-0012 EA 25 HP, 208/230 Volt Variable Frequency Drive.....	7,750.76	1,161.74
26 29 23 00-0013 EA 30 HP, 208/230 Volt Variable Frequency Drive.....	8,942.13	1,161.74
26 29 23 00-0014 EA 40 HP, 208/230 Volt Variable Frequency Drive.....	9,974.66	1,161.74
26 29 23 00-0015 EA 50 HP, 208/230 Volt Variable Frequency Drive.....	13,156.43	1,468.59
26 29 23 00-0016 EA 60 HP, 208/230 Volt Variable Frequency Drive.....	15,864.92	1,737.31
26 29 23 00-0017 EA 75 HP, 208/230 Volt Variable Frequency Drive.....	17,982.92	1,737.31
26 29 23 00-0018 460/480 Volt Variable Frequency Drives ^(26 29 23)		
Note: 3 Phase. ABB ACH550 or ACS550 Series. Includes full voltage bypass. NEMA 1 enclosure.		
26 29 23 00-0019 EA 3 HP, 480 Volt Variable Frequency Drive..... Note: Wall mounted.	4,672.78	694.95
26 29 23 00-0020 EA 5 HP, 480 Volt Variable Frequency Drive..... Note: Wall mounted.	4,831.63	694.95
26 29 23 00-0021 EA 7.5 HP, 480 Volt Variable Frequency Drive..... Note: Wall mounted.	5,283.05	828.03
26 29 23 00-0022 EA 10 HP, 480 Volt Variable Frequency Drive..... Note: Wall mounted.	5,309.52	828.03
26 29 23 00-0023 EA 15 HP, 480 Volt Variable Frequency Drive..... Note: Wall mounted.	7,117.31	1,255.33
26 29 23 00-0024 EA 20 HP, 480 Volt Variable Frequency Drive..... Note: Wall mounted.	7,487.96	1,255.33
26 29 23 00-0025 EA 25 HP, 480 Volt Variable Frequency Drive..... Note: Wall mounted.	9,004.16	1,656.07
26 29 23 00-0026 EA 30 HP, 480 Volt Variable Frequency Drive..... Note: Wall mounted.	10,327.92	1,656.07
26 29 23 00-0027 EA 40 HP, 480 Volt Variable Frequency Drive..... Note: Wall mounted.	11,704.62	1,656.07
26 29 23 00-0028 EA 50 HP, 480 Volt Variable Frequency Drive..... Note: Wall mounted.	15,326.60	2,103.61
26 29 23 00-0029 EA 60 HP, 480 Volt Variable Frequency Drive..... Note: Wall mounted.	20,450.62	2,494.61
26 29 23 00-0030 EA 75 HP, 480 Volt Variable Frequency Drive..... Note: Wall mounted.	21,721.42	2,494.61
26 29 23 00-0031 EA 100 HP, 480 Volt Variable Frequency Drive..... Note: Wall mounted.	25,150.93	2,779.77
26 29 23 00-0032 EA 125 HP, 480 Volt Variable Frequency Drive..... Note: Wall mounted.	26,527.63	2,779.77
26 29 23 00-0033 EA 150 HP, 480 Volt Variable Frequency Drive..... Note: Floor mounted.	29,386.93	2,779.77
26 29 23 00-0034 EA 200 HP, 480 Volt Variable Frequency Drive..... Note: Floor mounted.	33,926.00	3,354.85
26 29 23 00-0035 EA 250 HP, 480 Volt Variable Frequency Drive..... Note: Floor mounted.	42,468.71	3,504.58
26 29 23 00-0036 EA 300 HP, 480 Volt Variable Frequency Drive..... Note: Floor mounted.	49,809.72	4,021.38
26 29 23 00-0037 EA 350 HP, 480 Volt Variable Frequency Drive..... Note: Floor mounted.	57,308.58	4,361.31
26 29 23 00-0038 EA 400 HP, 480 Volt Variable Frequency Drive..... Note: Floor mounted.	66,427.68	4,709.31
26 29 23 00-0039 EA 450 HP, 480 Volt Variable Frequency Drive..... Note: Floor mounted.	71,592.07	5,106.75

26 30 Facility Electrical Power Generating and Storing Equipment

26 31 Photovoltaic Collectors ^(26 30)

26 31 00 00-0001 Photovoltaic Collectors ^(26 31)

Note: All materials are to be installed per manufacturers specifications and must be in compliance with the California Energy Commission Guidelines (CEC-300-2011-005-CMF). See CSI section 26 28 13 00-0078 for fuses.

26 31 00 00-0002 Rigid Photovoltaic Modules ^(26 31)

26 31 00 00-0003 Sanyo Rigid Photovoltaic Modules ^(26 31 00 00-0002)

26 31 00 00-0004 EA 205 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 16.3% Module Efficiency (Sanyo HIP-205NHKA6).....	1,542.58	95.93
For >50, Deduct		
	-135.07	
26 31 00 00-0005 EA 210 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 16.7% Module Efficiency (Sanyo HIP-210NHKA6).....	1,615.80	95.93
For >50, Deduct		
	-142.39	
26 31 00 00-0006 EA 215 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 17.1% Module Efficiency (Sanyo HIP-215HNKA6).....	1,513.86	95.93
For >50, Deduct		
	-132.20	

26 31 00 00-0007 Sharp Rigid Photovoltaic Modules ^(26 31 00 00-0002)

26 31 00 00-0008 EA 224 Watt Polycrystalline Photovoltaic Module, 64.6" x 39.1", 13.74% Module Efficiency (Sharp ND-224UC1).....	1,212.89	95.93
For >50, Deduct		
	-102.10	
26 31 00 00-0009 EA 230 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.1% Module Efficiency (Sharp NU-U230F3).....	1,376.32	95.93
For >50, Deduct		
	-118.45	
26 31 00 00-0010 EA 235 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.4% Module Efficiency (Sharp NU-U235F1).....	1,402.21	95.93
For >50, Deduct		
	-121.03	

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 31 Photovoltaic Collectors**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0011 EA 240 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.7% Module Efficiency (Sharp NU-U240F1) <i>For >50, Deduct</i>	1,321.30 -112.94	95.93
26 31 00 00-0012 BP Solar Rigid Photovoltaic Modules <small>(26 31 00 00-0002)</small> Note: Approved for applications in NEC Class 1, Division 2, Groups C and D hazardous locations.		
26 31 00 00-0013 EA 50 Watt Polycrystalline Photovoltaic Module, 33" x 21.1" (BP SX350J)..... <i>For >50, Deduct</i>	.610.88 -41.90	95.93
26 31 00 00-0014 EA 75 Watt Polycrystalline Photovoltaic Module, 47.6" x 21.14" (BP SX375J)..... <i>For >50, Deduct</i>	.748.42 -55.66	95.93
26 31 00 00-0015 EA 80 Watt Polycrystalline Photovoltaic Module, 47.6" x 20.9" (BP SX380J)..... <i>For >50, Deduct</i>	.803.43 -61.16	95.93
26 31 00 00-0016 Photovoltaic Inverters <small>(26 31)</small>		
26 31 00 00-0017 Fronius Photovoltaic Inverters <small>(26 31 00 00-0016)</small>		
26 31 00 00-0018 EA 3 KW Photovoltaic Inverter (Fronius IG Plus 3.0-1).....	3,642.20	100.98
26 31 00 00-0019 EA 5 KW Photovoltaic Inverter (Fronius IG Plus 5.0-1).....	4,795.82	100.98
26 31 00 00-0020 EA 6 KW Photovoltaic Inverter (Fronius IG Plus 6.0-1).....	5,060.87	100.98
26 31 00 00-0021 EA 7.5 KW Photovoltaic Inverter (Fronius IG Plus 7.5-1).....	5,655.52	100.98
26 31 00 00-0022 EA 10 KW Photovoltaic Inverter (Fronius IG Plus 10.0-1).....	8,940.06	100.98
26 31 00 00-0023 EA 12 KW Photovoltaic Inverter (Fronius IG Plus 12.0-3-1).....	10,387.91	100.98
26 31 00 00-0024 EA 11.4 KW Photovoltaic Inverter (Fronius IG Plus 11.4-3 Delta).....	8,490.93	201.97
26 31 00 00-0025 EA 11.4 KW Photovoltaic Inverter (Fronius IG Plus 11.4-3).....	10,732.17	201.97
26 31 00 00-0026 EA Inverter Display Stand (Fronius 4,045,894).....	330.26	50.49
26 31 00 00-0027 SMA Photovoltaic Inverters <small>(26 31 00 00-0016)</small>		
26 31 00 00-0028 EA 4 KW AC Photovoltaic Inverter (SMA Sunny Boy 4000TL-US-22).....	2,714.82	100.98
26 31 00 00-0029 EA 5 KW AC Photovoltaic Inverter (SMA Sunny Boy 5000TL-US-22).....	3,253.44	100.98
26 31 00 00-0030 EA 6 KW AC Photovoltaic Inverter (SMA Sunny Boy 6000TL-US-22).....	3,755.39	100.98
26 31 00 00-0031 EA 7 KW AC Photovoltaic Inverter (SMA Sunny Boy 7000TL-US-22).....	4,138.59	100.98
26 31 00 00-0032 EA 8 KW AC Photovoltaic Inverter (SMA Sunny Boy 8000TL-US-12).....	4,009.51	100.98
26 31 00 00-0033 PVPowered Photovoltaic Inverters <small>(26 31 00 00-0016)</small>		
26 31 00 00-0034 EA 120 Volt, 1.1 KW Photovoltaic Inverter (PVPowered PVP1100).....	3,349.38	100.98
26 31 00 00-0035 EA 240 Volt, 2 KW Photovoltaic Inverter (PVPowered PVP2000).....	3,501.78	100.98
26 31 00 00-0036 EA 240 Volt, 2.5 KW Photovoltaic Inverter (PVPowered PVP2500).....	3,866.22	100.98
26 31 00 00-0037 EA 240 Volt, 3.5 KW Photovoltaic Inverter (PVPowered PVP3500).....	4,585.93	126.22
26 31 00 00-0038 EA 208 Volt, 4.6 KW Photovoltaic Inverter (PVPowered PVP4600).....	5,590.58	151.47
26 31 00 00-0039 EA 240 Volt, 4.8 KW Photovoltaic Inverter (PVPowered PVP4800).....	5,636.97	151.47
26 31 00 00-0040 EA 240 Volt, 5.2 KW Photovoltaic Inverter (PVPowered PVP5200).....	5,945.74	151.47
26 31 00 00-0041 EA 208 Volt, 75 KW Photovoltaic Inverter (PVPowered PVP75kW).....	70,623.76	807.85
26 31 00 00-0042 EA 480 Volt, 75 KW Photovoltaic Inverter (PVPowered PVP75kW).....	70,716.95	807.85
26 31 00 00-0043 EA 208 Volt, 100 KW Photovoltaic Inverter (PVPowered PVP100kW).....	76,504.78	807.85
26 31 00 00-0044 EA 480 Volt, 100 KW Photovoltaic Inverter (PVPowered PVP100kW).....	70,939.35	807.85
26 31 00 00-0045 Solectria Photovoltaic Inverters <small>(26 31 00 00-0016)</small>		
26 31 00 00-0046 EA 208 Or 480 Volt, 10 KW Photovoltaic Inverter (Solectria PVI).....	11,136.64	201.97
26 31 00 00-0047 EA 208 Or 480 Volt, 13 KW Photovoltaic Inverter (Solectria PVI).....	11,136.64	201.97
26 31 00 00-0048 EA 208 Volt, 15 KW, Photovoltaic Inverter (Solectria PVI).....	11,460.78	201.97
26 31 00 00-0049 EA 480 Volt, 15 KW Photovoltaic Inverter (Solectria PVI).....	11,460.78	201.97
26 31 00 00-0050 EA 208 Volt, 50 KW Photovoltaic Inverter (Solectria PVI).....	34,886.59	605.89
26 31 00 00-0051 EA 480 Volt, 50 KW Photovoltaic Inverter (Solectria PVI).....	33,265.88	605.89
26 31 00 00-0052 EA 208 Volt, 60 KW Photovoltaic Inverter (Solectria PVI).....	38,128.02	605.89
26 31 00 00-0053 EA 480 Volt, 60 KW Photovoltaic Inverter (Solectria PVI).....	37,227.62	605.89
26 31 00 00-0054 EA 208 Volt, 75 KW Photovoltaic Inverter (Solectria PVI).....	40,469.05	605.89
26 31 00 00-0055 EA 480 Volt, 75 KW Photovoltaic Inverter (Solectria PVI).....	38,668.25	605.89
26 31 00 00-0056 EA 208 Volt, 85 KW Photovoltaic Inverter (Solectria PVI).....	42,673.76	807.85
26 31 00 00-0057 EA 480 Volt, 85 KW Photovoltaic Inverter (Solectria PVI).....	40,692.89	807.85
26 31 00 00-0058 EA 208 Volt, 100 KW Photovoltaic Inverter (Solectria PVI).....	44,294.47	807.85
26 31 00 00-0059 EA 480 Volt, 100 KW Photovoltaic Inverter (Solectria PVI).....	41,953.44	807.85
26 31 00 00-0060 Xantrex Photovoltaic Inverters <small>(26 31 00 00-0016)</small>		
26 31 00 00-0061 EA 0.6 KW Photovoltaic Inverter (Xantrex 806-1206).....	469.98	25.25
26 31 00 00-0062 EA 1 KW Photovoltaic Inverter (Xantrex 806-1210).....	511.65	25.25
26 31 00 00-0063 EA 2 KW Photovoltaic Inverter (Xantrex 806-1220).....	817.86	25.25
26 31 00 00-0064 Photovoltaic DC-DC Converters <small>(26 31)</small>		
26 31 00 00-0065 EA 15 Amp, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-20)..... Note: Hazardous locations.	282.85	37.87
26 31 00 00-0066 EA 20 Amp, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-23).....	192.23	37.87
26 31 00 00-0067 EA 60 Amp, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-60).....	515.85	37.87



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0068				Photovoltaic Combiner Boxes <small>(26 31)</small>		
26 31 00 00-0069				Midnight Solar Photovoltaic Combiner Boxes <small>(26 31 00 00-0068)</small>		
26 31 00 00-0070	EA			3 - 150 Volt DC Breaker Or 3 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV3)	354.76	100.98
26 31 00 00-0071	EA			6 - 150 Volt DC Breaker Or 4 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV6)	346.37	100.98
26 31 00 00-0072	EA			12 - 150 Volt DC Breaker Or 10 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV12)	548.48	151.47
26 31 00 00-0073	EA			6 - 300 Volt DC Breaker, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV12-250)	551.42	151.47
26 31 00 00-0074	EA			16, 600 Volt DC Breakers, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV16)	823.62	151.47
26 31 00 00-0075				SMA Photovoltaic Combiner Boxes <small>(26 31 00 00-0068)</small>		
26 31 00 00-0076	EA			6 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SBCB-6)	750.82	100.98
26 31 00 00-0077	EA			12 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-12)	893.82	100.98
26 31 00 00-0078	EA			28 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-28)	1,732.97	201.97
26 31 00 00-0079	EA			52 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-52)	3,910.24	201.97
26 31 00 00-0080	EA			4 Input NEMA 3R, Steel Combination DC Disconnect And Photovoltaic Combiner Box (SMA Combi-Switch)	673.43	100.98
26 31 00 00-0081				Photovoltaic Charge Controller <small>(26 31)</small>		
26 31 00 00-0082	EA			35 Amp, 12 Or 24 Volt, Charge Controller (Xantrex C-35)	227.83	37.87
26 31 00 00-0083	EA			40 Amp, 12 Or 24 Volt, Charge Controller (Xantrex C-40)	300.65	37.87
26 31 00 00-0084	EA			60 Amp, 12 Or 24 Volt, Charge Controller (Xantrex C-60)	349.19	37.87
26 31 00 00-0085	EA			Remote Digital Meter For Xantrex C-35, 40 And 60	269.90	37.87
26 31 00 00-0086	EA			MPPT Charge Controller (Xantrex XW SCC)	913.19	50.49
26 31 00 00-0087				Photovoltaic Batteries <small>(26 31)</small>		
26 31 00 00-0088				Concorde Photovoltaic Batteries <small>(26 31 00 00-0087)</small>		
26 31 00 00-0089	EA			34 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-340T)	204.93	15.15
26 31 00 00-0090	EA			45 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-420T)	258.70	20.19
26 31 00 00-0091	EA			49 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-490T)	279.80	20.19
26 31 00 00-0092	EA			56 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-560T)	322.54	30.29
26 31 00 00-0093	EA			69 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-690T)	366.20	30.29
26 31 00 00-0094	EA			89 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-890T)	434.51	35.34
26 31 00 00-0095	EA			104 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-1040T)	498.17	40.40
26 31 00 00-0096	EA			108 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-1080T)	492.63	40.40
26 31 00 00-0097	EA			210 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-2120T)	896.35	47.97
26 31 00 00-0098	EA			255 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-2580T)	1,035.28	50.49
26 31 00 00-0099				Deka Photovoltaic Batteries <small>(26 31 00 00-0087)</small>		
26 31 00 00-0100	EA			31 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8GU1)	217.25	25.30
26 31 00 00-0101	EA			50 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G22NF)	296.54	25.30
26 31 00 00-0102	EA			74 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G24)	434.08	25.30
26 31 00 00-0103	EA			86 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G27)	495.57	25.30
26 31 00 00-0104	EA			98 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G31)	497.19	25.30
26 31 00 00-0105	EA			183 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G4D)	956.73	25.30
26 31 00 00-0106	EA			225 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G8D)	1,105.59	25.30
26 31 00 00-0107				Battery Enclosures <small>(26 31 00 00-0087)</small>		
26 31 00 00-0108	EA			14" x 12" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge 55-2501-010)	244.66	25.25
26 31 00 00-0109	EA			22" x 16" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS1GC)	1,171.93	25.30
26 31 00 00-0110	EA			37" x 16" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS2GCL)	1,102.35	25.30
26 31 00 00-0111	EA			37" x 16" x 14.5" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS4GC)	1,466.43	25.30
26 31 00 00-0112	EA			15" x 17.1" x 8.4" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETSLCF1)	657.38	25.30
26 31 00 00-0113	EA			31" x 36" x 14" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETSBR827BP)	1,536.01	25.30
26 31 00 00-0114				Photovoltaic System Monitoring <small>(26 31)</small>		
26 31 00 00-0115	EA			Solar Inverter Monitor (Xantrex 864-0203)	515.54	50.49
26 31 00 00-0116	EA			Photovoltaic System Monitoring, Remote Diagnosis, Data Storage Communication Hub (SMA Sunny WebBox)	1,044.41	25.25
26 31 00 00-0117	EA			Sun Radiation And Temperature Monitor (SMA Sunny SensorBox)	873.74	25.25
26 31 00 00-0118	EA			PT100 Ambient Temperature Sensor For Sunny SensorBox (SMA)	166.70	25.25
26 31 00 00-0119	EA			Wind Sensor Accessory For Sunny SensorBox (SMA)	408.87	50.49
26 31 00 00-0120	EA			Sunny Boy Control with RS485 (SMA)	1,027.42	25.25
26 31 00 00-0121	EA			RS 485 Module (SMA)	238.82	25.25
26 31 00 00-0122	EA			RS 232 Module (SMA)	244.66	25.25
26 31 00 00-0123	EA			Wireless Monitor with Bluetooth (SMA Sunny Beam)	459.72	
26 31 00 00-0124	EA			Bluetooth Piggy-Back Computer Card (SMA)	247.81	25.25
26 31 00 00-0125	EA			RS485-N Communication Computer Card (SMA)	246.18	25.25
26 31 00 00-0126	EA			Bluetooth Repeater (SMA)	459.00	25.25
26 31 00 00-0127	EA			Sunny Boy PC Service Cable (SMA)	216.91	7.57
26 31 00 00-0128	EA			Integrated Revenue Grade Meter, Option (PVPowered)	4,150.43	
26 31 00 00-0129	EA			Data Monitoring Module (PVPowered PVM1010)	458.05	25.25
26 31 00 00-0130	EA			Wireless IG Personal Display (Fronius 4,240,108)	466.83	

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 31 Photovoltaic Collectors**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0131 EA DatCom Power Supply (Fronius 43,0001,2311).....	151.28	
26 31 00 00-0132 EA Wireless Card For IG Personal Display (Fronius 4,240,008,Z)	275.37	25.25
26 31 00 00-0133 EA Retrofit Solar Inverter Interface And Power Supply Option Communication Card (Fronius 4,240,001,Z)	233.95	25.25
26 31 00 00-0134 EA Datalogger Pro Box (Fronius 4,240,102).....	900.45	25.25
26 31 00 00-0135 EA Datalogger Easy Box (Fronius 4,240,103).....	587.92	25.25
26 31 00 00-0136 EA Datalogger Interface Box (Fronius 4,240,105)	1,015.78	25.25
26 31 00 00-0137 EA Datalogger Web (Fronius 4,240,122).....	1,741.00	25.25
26 31 00 00-0138 EA Interface Box (Fronius 4,240,109).....	472.34	25.25
26 31 00 00-0139 EA Interface Card (Fronius 4,240,009,Z).....	338.81	25.25
26 31 00 00-0140 EA Interface Card Easy (Fronius 4,240,013,Z).....	225.54	25.25
26 31 00 00-0141 EA Sensor Box (Fronius 4,240,104)	940.16	25.25
26 31 00 00-0142 EA Ambient Temperature Sensor (Fronius 43,0001,1188).....	109.80	25.25
26 31 00 00-0143 EA Irradiance Sensor (Fronius 43,0001,1188).....	330.59	25.25
26 31 00 00-0144 EA Module Temperature Sensor (Fronius 43,0001,1190)	367.47	25.25
26 31 00 00-0145 EA Wind Speed Sensor (Fronius 42,0411,0027).....	203.62	50.49
26 31 00 00-0146 Photovoltaic System Accessories (26 31)		
26 31 00 00-0147 EA Four Inverter Bypass Switch (OutBack AC-IOB-100Q).....	701.67	50.49
26 31 00 00-0148 EA Line Communication Filter (Enphase LCF)	1,527.19	100.98
26 31 00 00-0149 EA 15 Meter RS 485 Communication Cable (SMA).....	117.09	7.57
26 31 00 00-0150 EA 15 Meter RS 232 Communication Cable (SMA).....	175.34	7.57
26 31 00 00-0151 EA 24" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	27.45	2.50
26 31 00 00-0152 EA 36" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	29.40	2.50
26 31 00 00-0153 EA 48" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	30.51	2.50
26 31 00 00-0154 EA 72" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	33.56	2.50
26 31 00 00-0155 EA 120" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	38.15	2.50
26 31 00 00-0156 EA 240" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	61.02	5.00
26 31 00 00-0157 EA 360" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	75.26	5.00
26 31 00 00-0158 EA 420" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	99.18	7.50
26 31 00 00-0159 EA 36" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect	34.33	2.50
26 31 00 00-0160 EA 120" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect	47.33	2.50
26 31 00 00-0161 EA 240" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect	70.20	5.00
26 31 00 00-0162 EA 360" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect	93.13	5.00
26 31 00 00-0163 EA 600" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect	151.85	10.00
26 31 00 00-0164 EA 1200" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect	158.33	10.00
26 31 00 00-0165 EA Lighting Kit, 9W Fluorescent, 12 V 4.5 Amp Hour Battery.....	2,822.92	272.65
Note: Tamper proof enclosure.		
26 31 00 00-0166 Photovoltaic Mounting Systems (26 31)		
26 31 00 00-0167 LF Anodized Aluminum Photovoltaic Module Mounting Rail (UNIRAC SolarMount Standard)	10.08	2.53
26 31 00 00-0168 EA Splice Bar For Photovoltaic Module Mounting Rail (UNIRAC 310229)	30.32	12.62
26 31 00 00-0169 EA Splice Plate For Photovoltaic Module Mounting Rail (UNIRAC 310216).....	37.53	12.62
26 31 00 00-0170 EA 8" x 3/8" Hanger Bolt (UNIRAC 310046).....	19.39	5.05
Note: Supports mounting rail above tile or metal roof.		
26 31 00 00-0171 EA Mounting Rail Grounding Clip (UNIRAC 980006)	9.58	3.79
Note: One grounding clip for every two top mounting clamps (end clamps + mid clamps) in your installation. Only one of the two rails in each row requires grounding clips.		
26 31 00 00-0172 EA Mounting Rail Grounding Lugs (UNIRAC 980012).....	19.72	5.05
Note: Two grounding lugs for each rail splice and one additional lug for each rail.		
26 31 00 00-0173 EA Anodized Aluminum Photovoltaic Module Mounting End Clamp (UNIRAC 320002).....	5.37	1.68
Note: Four for each row of modules you plan to mount.		
26 31 00 00-0174 EA Anodized Aluminum Photovoltaic Module Mounting Mid Clamp (UNIRAC 320008)	5.61	1.68
Note: For each row, take one less than the number of modules in the row and multiply that figure by 2.		
26 31 00 00-0175 EA Photovoltaic Module Mount L-Feet (UNIRAC 310065).....	14.13	5.05
26 31 00 00-0176 EA 12" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310121)	82.88	25.25
Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.		
26 31 00 00-0177 EA 30" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310122)	91.04	25.25
Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.		
26 31 00 00-0178 EA 44" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310123)	97.61	25.25
Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.		
26 31 00 00-0179 EA 12" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310107)	121.94	37.87
Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0180 EA 44" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310108)	146.41	37.87
Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0181 EA 72" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310109)	168.61	37.87
Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0182 EA 18" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310111).....	187.97	50.49
Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0183 EA 64" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310112).....	246.41	50.49
Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0184 EA 104" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310110).....	347.65	75.73
Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0185 EA Ballasted Photovoltaic Module Frame (UNIRAC 310351).....	169.97	
26 31 00 00-0186 EA Ballasted Photovoltaic Module Frame With Module Mount (UNIRAC 310355).....	314.70	
26 31 00 00-0187 EA 3" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310051).....	66.59	25.25
26 31 00 00-0188 EA 4" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310052).....	67.34	25.25
26 31 00 00-0189 EA 6" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310053).....	68.03	25.25
26 31 00 00-0190 EA 7" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310054).....	69.75	25.25
26 31 00 00-0191 EA 3" High Aluminum Photovoltaic Module Standoff (UNIRAC 310553).....	62.04	25.25
26 31 00 00-0192 EA 4" High Aluminum Photovoltaic Module Standoff (UNIRAC 310554).....	62.91	25.25
26 31 00 00-0193 EA 6" High Aluminum Photovoltaic Module Standoff (UNIRAC 310555).....	65.44	25.25
26 31 00 00-0194 EA 7" High Aluminum Photovoltaic Module Standoff (UNIRAC 310556).....	64.72	25.25
26 31 00 00-0195 EA 3" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310390).....	125.11	37.87
26 31 00 00-0196 EA 4" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310391).....	125.64	37.87
26 31 00 00-0197 EA 7" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310394).....	127.18	37.87
26 31 00 00-0198 EA Photovoltaic Module Rapidfoot Standoff Assembly (UNIRAC 310370).....	125.57	37.87
26 31 00 00-0199 EA Photovoltaic Module Standoff Flashing (UNIRAC 990103).....	24.33	5.05
26 31 00 00-0200 EA Photovoltaic Module Standoff Ethylene Propylene Diene Monomer (EPDM) Patch (UNIRAC 990161).....	16.46	5.05
26 31 00 00-0201 EA 1/4" Photovoltaic Module Standing Seam Metal Roof Mounting Block (UNIRAC 004030M-0100).....	30.74	7.57
26 31 00 00-0202 EA 3/8" Photovoltaic Module Standing Seam Metal Roof Mounting Block (UNIRAC 004031M-0100).....	31.91	7.57
26 31 00 00-0203 EA Photovoltaic Module Standing Seam Metal Roof Mounting Clamp (UNIRAC 004032M-0100).....	8.80	1.68
26 31 00 00-0204 EA Photovoltaic Module Tile Roof Mounting Hook (UNIRAC 905011C-0024).....	39.47	5.05
26 31 00 00-0205 EA Photovoltaic Module Wire Clip (UNIRAC 908002S-0100).....	2.18	

26 32 Packaged Generator Assemblies (26 30)**26 32 13 Engine Generators** (26 32)**26 32 13 13 Diesel-Engine-Driven Generator Sets** (26 32 13)

See CSI section 01 22 23 00-0737 for fuel reimbursement for commissioning.

26 32 13 13-0001**Diesel Generator Sets** (26 32 13 13)

Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad without enclosure. Includes manufacturer's representative at startup. Excludes fuel tank, enclosure, active diesel particulate filter, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0716 for loadbank rental, 26 36 23 00-0000 for automatic transfer switch.

26 32 13 13-0002 EA 25 KW Diesel Generator Set, 3 Phase (Cummins DSKCA).....	30,502.29	887.47
<i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i>	3,432.95	
<i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i>	8,078.40	
<i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i>	10,771.20	
<i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i>	8,740.90	
<i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i>	12,679.02	
<i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	16,905.36	
26 32 13 13-0003 EA 35 KW Diesel Generator Set, 3 Phase (Cummins DSFAA).....	32,317.36	1,092.70
<i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i>	3,432.95	
<i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i>	8,078.40	
<i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i>	10,771.20	
<i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i>	8,740.90	
<i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i>	12,679.02	
<i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	16,905.36	
26 32 13 13-0004 EA 40 KW Diesel Generator Set, 3 Phase (Cummins DSFAB).....	33,311.92	1,198.08
<i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i>	3,432.95	
<i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i>	8,078.40	
<i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i>	10,771.20	
<i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i>	8,740.90	
<i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i>	12,679.02	
<i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	16,905.36	
26 32 13 13-0005 EA 50 KW Diesel Generator Set, 3 Phase (Cummins DSFAC).....	39,094.99	1,375.58
<i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i>	3,432.95	
<i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i>	8,078.40	
<i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i>	10,771.20	
<i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i>	8,740.90	
<i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i>	12,679.02	
<i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	16,905.36	
26 32 13 13-0006 EA 60 KW Diesel Generator Set, 3 Phase (Cummins DSFAD).....	42,123.88	1,580.81
<i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i>	3,432.95	
<i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i>	8,078.40	
<i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i>	10,771.20	
<i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i>	8,740.90	
<i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i>	12,679.02	
<i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	16,905.36	
26 32 13 13-0007 EA 80 KW Diesel Generator Set, 3 Phase (Cummins DSFAE).....	49,489.99	1,852.59
<i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i>	3,432.95	
<i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i>	8,078.40	
<i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i>	10,771.20	
<i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i>	8,740.90	
<i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i>	12,679.02	
<i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	16,905.36	

26 Electrical

26 30 Facility Electrical Power Generating and Storing Equipment

26 32 Packaged Generator Assemblies



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 32 13	13-0008	EA 100 KW Diesel Generator Set, 3 Phase (Cummins DSGAA)	.....53,193.10		2,152.12
		For Weather Resistant Steel Diesel Generator Enclosure, Add		5,207.06	
		For Quietsite Level 1 Steel Diesel Generator Enclosure, Add		12,351.17	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add		16,468.23	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add		11,214.72	
		For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add		13,482.41	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add		17,976.55	
26 32 13	13-0009	EA 125 KW Diesel Generator Set, 3 Phase (Cummins DSGAB)	.....54,400.09		2,551.48
		For Weather Resistant Steel Diesel Generator Enclosure, Add		5,207.06	
		For Quietsite Level 1 Steel Diesel Generator Enclosure, Add		12,351.17	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add		16,468.23	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add		11,214.72	
		For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add		13,482.41	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add		17,976.55	
26 32 13	13-0010	EA 150 KW Diesel Generator Set, 3 Phase (Cummins DSGAC)	.....60,132.42		2,812.18
		For Weather Resistant Steel Diesel Generator Enclosure, Add		5,207.06	
		For Quietsite Level 1 Steel Diesel Generator Enclosure, Add		12,351.17	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add		16,468.23	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add		11,214.72	
		For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add		13,482.41	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add		17,976.55	
26 32 13	13-0011	EA 175 KW Diesel Generator Set, 3 Phase (Cummins DSHAB)	.....63,183.27		3,139.43
		For Weather Resistant Steel Diesel Generator Enclosure, Add		5,207.06	
		For Quietsite Level 1 Steel Diesel Generator Enclosure, Add		12,351.17	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add		16,468.23	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add		11,214.72	
		For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add		13,482.41	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add		17,976.55	
26 32 13	13-0012	EA 200 KW Diesel Generator Set, 3 Phase (Cummins DSHAC)	.....67,159.00		3,438.95
		For Weather Resistant Steel Diesel Generator Enclosure, Add		5,207.06	
		For Quietsite Level 1 Steel Diesel Generator Enclosure, Add		12,351.17	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add		16,468.23	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add		11,214.72	
		For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add		13,482.41	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add		17,976.55	
26 32 13	13-0013	EA 230 KW Diesel Generator Set, 3 Phase (Cummins DSHAD)	.....72,427.36		3,633.09
		For Weather Resistant Steel Diesel Generator Enclosure, Add		5,207.06	
		For Quietsite Level 1 Steel Diesel Generator Enclosure, Add		12,351.17	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add		16,468.23	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add		11,214.72	
		For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add		13,482.41	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add		17,976.55	
26 32 13	13-0014	EA 250 KW Diesel Generator Set, 3 Phase (Cummins DQDAA)	.....75,499.25		3,782.85
		For Weather Resistant Steel Diesel Generator Enclosure, Add		33,769.08	
		For Quietsite Level 1 Steel Diesel Generator Enclosure, Add		37,392.17	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add		49,856.23	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add		40,956.82	
		For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add		45,707.14	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add		60,942.86	
26 32 13	13-0015	EA 275 KW Diesel Generator Set, 3 Phase (Cummins DQHAA)	.....82,181.11		3,988.07
		For Weather Resistant Steel Diesel Generator Enclosure, Add		33,769.08	
		For Quietsite Level 1 Steel Diesel Generator Enclosure, Add		37,392.17	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add		49,856.23	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add		40,956.82	
		For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add		45,707.14	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add		60,942.86	
26 32 13	13-0016	EA 300 KW Diesel Generator Set, 3 Phase (Cummins DQHAB)	.....83,955.41		4,165.57
		For Weather Resistant Steel Diesel Generator Enclosure, Add		33,769.08	
		For Quietsite Level 1 Steel Diesel Generator Enclosure, Add		37,392.17	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add		49,856.23	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add		40,956.82	
		For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add		45,707.14	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add		60,942.86	
26 32 13	13-0017	EA 350 KW Diesel Generator Set, 3 Phase (Cummins DFEG)	.....94,683.48		4,659.23
		For Weather Resistant Steel Diesel Generator Enclosure, Add		33,769.08	
		For Quietsite Level 1 Steel Diesel Generator Enclosure, Add		37,392.17	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add		49,856.23	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add		40,956.82	
		For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add		45,707.14	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add		60,942.86	
26 32 13	13-0018	EA 400 KW Diesel Generator Set, 3 Phase (Cummins DFEH)	.....101,946.31		5,102.96
		For Weather Resistant Steel Diesel Generator Enclosure, Add		33,769.08	
		For Quietsite Level 1 Steel Diesel Generator Enclosure, Add		37,392.17	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add		49,856.23	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add		40,956.82	
		For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add		45,707.14	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add		60,942.86	
26 32 13	13-0019	EA 450 KW Diesel Generator Set, 3 Phase (Cummins DFEJ)	.....115,153.42		5,496.77
		For Weather Resistant Steel Diesel Generator Enclosure, Add		33,769.08	
		For Quietsite Level 1 Steel Diesel Generator Enclosure, Add		37,392.17	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add		49,856.23	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add		40,956.82	
		For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add		45,707.14	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add		60,942.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 13-0020 EA 500 KW Diesel Generator Set, 3 Phase (Cummins DFEK).....	121,127.67	5,857.31
For Weather Resistant Steel Diesel Generator Enclosure, Add	33,769.08	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	37,392.17	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	49,856.23	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	40,956.82	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	45,707.14	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	60,942.86	
26 32 13 13-0021 EA 600 KW Diesel Generator Set, 3 Phase (Cummins DQCA).....	176,267.21	6,450.80
For Weather Resistant Steel Diesel Generator Enclosure, Add	68,984.03	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	83,072.90	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	110,763.86	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	81,138.66	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	96,778.67	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	129,038.23	
26 32 13 13-0022 EA 750 KW Diesel Generator Set, 3 Phase (Cummins DQCB).....	201,886.31	7,094.23
For Weather Resistant Steel Diesel Generator Enclosure, Add	68,984.03	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	83,072.90	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	110,763.86	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	81,138.66	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	96,778.67	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	129,038.23	
26 32 13 13-0023 EA 800 KW Diesel Generator Set, 3 Phase (Cummins DQFAC).....	210,833.95	7,249.54
For Weather Resistant Steel Diesel Generator Enclosure, Add	68,984.03	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	83,072.90	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	110,763.86	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	81,138.66	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	96,778.67	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	129,038.23	
26 32 13 13-0024 EA 900 KW Diesel Generator Set, 3 Phase (Cummins DQFAC).....	257,277.02	7,815.30
For Weather Resistant Steel Diesel Generator Enclosure, Add	68,984.03	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	83,072.90	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	110,763.86	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	81,138.66	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	96,778.67	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	129,038.23	
26 32 13 13-0025 EA 1,000 KW Diesel Generator Set, 3 Phase (Cummins DQFAD).....	287,412.43	8,320.04
For Weather Resistant Steel Diesel Generator Enclosure, Add	68,984.03	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	83,072.90	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	110,763.86	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	81,138.66	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	96,778.67	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	129,038.23	

26 32 13 19 Natural Gas-Engine-Driven Generator Sets (26 32 13)

26 32 13 19-0001 Natural Gas Or Propane Generator Sets (26 32 13 19)

Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad without enclosure. Includes manufacturer's representative at startup. Excludes fuel tank, enclosure, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0716 for loadbank rental, 26 36 23 00-0000 for automatic transfer switches.

26 32 13 19-0002 EA 20 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMA).....	12,964.26	743.26
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	3,122.32	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	8,078.40	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	10,771.20	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	3,381.71	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	5,610.57	
26 32 13 19-0003 EA 25 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMB).....	14,641.26	887.47
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	3,122.32	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	8,078.40	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	10,771.20	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	3,381.71	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	5,610.57	
26 32 13 19-0004 EA 29 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMC).....	16,900.02	987.31
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	3,122.32	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	8,078.40	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	10,771.20	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	3,381.71	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	5,610.57	
26 32 13 19-0005 EA 35 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPA).....	19,171.36	1,092.70
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	3,122.32	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	8,078.40	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	10,771.20	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	9,565.50	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	16,055.12	
26 32 13 19-0006 EA 40 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPB).....	21,515.54	1,198.08
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	3,122.32	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	8,078.40	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	10,771.20	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	9,565.50	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	16,055.12	

26 Electrical

26 30 Facility Electrical Power Generating and Storing Equipment

26 32 Packaged Generator Assemblies



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 19-0007 EA 45 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPC) <i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	23,317.20 3,122.32 8,078.40 10,771.20 9,565.50 16,055.12	1,292.38
26 32 13 19-0008 EA 60 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHE) <i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	25,507.13 3,122.32 8,078.40 10,771.20 9,565.50 16,055.12	1,580.81
26 32 13 19-0009 EA 70 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHF) <i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	27,368.03 3,122.32 8,078.40 10,771.20 9,565.50 16,055.12	1,769.40
26 32 13 19-0010 EA 85 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHG) <i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	35,925.72 5,690.62 12,351.17 16,468.23 11,214.72 16,055.12	1,891.43
26 32 13 19-0011 EA 100 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHH) <i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	43,289.12 5,690.62 12,351.17 16,468.23 11,214.72 16,055.12	2,129.93
26 32 13 19-0012 EA 125 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGLA) <i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	49,579.22 5,690.62 12,351.17 16,468.23 11,214.72 16,055.12	2,551.48
26 32 13 19-0013 EA 150 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGLB) <i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	58,927.14 5,690.62 12,351.17 16,468.23 11,214.72 16,055.12	2,812.18
26 32 13 19-0014 EA 175 KW Natural Gas Generator Set, 3 Phase (Cummins GFBA) <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	95,327.51 30,368.15 33,616.57 44,822.09 33,203.86 49,825.80	7,480.16
26 32 13 19-0015 EA 205 KW Natural Gas Generator Set, 3 Phase (Cummins GFBB) <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	108,219.90 30,368.15 33,616.57 44,822.09 33,203.86 49,825.80	3,377.94
26 32 13 19-0016 EA 250 KW Natural Gas Generator Set, 3 Phase (Cummins GFBC) <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	116,369.04 30,368.15 33,616.57 44,822.09 33,203.86 49,825.80	3,782.85
26 32 13 19-0017 EA 300 KW Natural Gas Generator Set, 3 Phase (Cummins GFCA) <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	150,502.32 30,368.15 33,616.57 44,822.09 33,203.86 49,825.80	4,165.57
26 32 13 19-0018 EA 350 KW Natural Gas Generator Set, 3 Phase (Cummins GFDB) <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	161,542.13 30,368.15 33,616.57 44,822.09 33,203.86 49,825.80	4,659.23
26 32 13 19-0019 EA 450 KW Natural Gas Generator Set, 3 Phase (Cummins GFDA) <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	226,963.72 66,310.04 70,453.92 93,938.57 75,316.73 106,448.66	5,496.77
26 32 13 19-0020 EA 500 KW Natural Gas Generator Set, 3 Phase (Cummins GFDB) <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	290,303.07 66,310.04 70,453.92 93,938.57 75,316.73 106,448.66	5,857.31



Electrical	26	26
Facility Electrical Power Generating and Storing Equipment	26 30	
Packaged Generator Assemblies	26 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 19-0021 EA 550 KW Natural Gas Generator Set, 3 Phase (Cummins GFJC)..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	324,843.05 66,310.04 70,453.92 93,938.57 75,316.73 106,448.66	6,173.47
26 32 13 19-0022 EA 600 KW Natural Gas Generator Set, 3 Phase (Cummins GFLA)..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	370,012.54 66,310.04 70,453.92 93,938.57 75,316.73 106,448.66	6,450.80
26 32 13 19-0023 EA 650 KW Natural Gas Generator Set, 3 Phase (Cummins GFLB)..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	386,885.84 66,310.04 70,453.92 93,938.57 75,316.73 106,448.66	6,694.86
26 32 13 19-0024 EA 725 KW Natural Gas Generator Set, 3 Phase (Cummins GFLC)..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	409,211.55 66,310.04 70,453.92 93,938.57 75,316.73 106,448.66	7,155.24
26 32 13 19-0025 Small Natural Gas Or Propane Air Cooled Generator Sets <i>(26 32 13 19)</i>		
26 32 13 19-0026 EA 7.5 KW Natural Gas Or Propane Air Cooled Generator Set..... <i>Note: Includes weatherproof composite enclosure and 100 A automatic transfer switch.</i>	4,354.80	468.43
26 32 13 19-0027 EA 10 KW Natural Gas Or Propane Air Cooled Generator Set..... <i>Note: Includes weatherproof composite enclosure and 200 A automatic transfer switch.</i>	5,501.07	520.49
26 32 13 19-0028 EA 14 KW Natural Gas Or Propane Air Cooled Generator Set..... <i>Note: Includes weatherproof composite enclosure and 200 A automatic transfer switch.</i>	6,316.42	556.48
26 32 29 Rotary Converters <i>(26 32)</i>		
26 32 29 00-0001 60 Hz AC Input 230 Or 460 Volt, 125 Volt DC Output <i>(26 32 29)</i>		
26 32 29 00-0002 EA 3 KW, 24 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	6,843.32	201.97
26 32 29 00-0003 EA 5 KW, 40 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	8,324.55	201.97
26 32 29 00-0004 EA 7.5 KW, 60 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	11,011.22	201.97
26 32 29 00-0005 EA 10 KW, 80 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	11,097.44	201.97
26 32 29 00-0006 EA 15 KW, 120 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	12,325.90	252.45
26 32 29 00-0007 EA 20 KW, 160 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	13,343.64	252.45
26 32 29 00-0008 EA 25 KW, 200 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	13,969.49	252.45
26 32 29 00-0009 EA 40 KW, 320 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	17,018.46	333.23
26 32 29 00-0010 EA 50 KW, 400 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	18,905.25	333.23
26 32 29 00-0011 60 Hz AC Input, 230 Or 460 Volt, 250 Volts DC Output <i>(26 32 29)</i>		
26 32 29 00-0012 EA 3 KW, 12 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	7,915.65	201.97
26 32 29 00-0013 EA 5 KW, 20 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	9,429.37	201.97
26 32 29 00-0014 EA 7.5 KW, 30 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	10,777.91	201.97
26 32 29 00-0015 EA 10 KW, 40 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	11,075.56	201.97
26 32 29 00-0016 EA 15 KW, 60 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	12,551.09	252.45
26 32 29 00-0017 EA 20 KW, 80 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	13,796.94	252.45
26 32 29 00-0018 EA 25 KW, 100 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	14,250.24	252.45
26 32 29 00-0019 EA 40 KW, 160 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	16,951.19	333.23
26 32 29 00-0020 EA 50 KW, 200 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	17,977.71	333.23
26 32 29 00-0021 460 Volt 3 Phase AC Motor Drive 250 Volt DC <i>(26 32 29)</i>		
26 32 29 00-0022 EA 33 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	20,762.25	3,882.69
26 32 29 00-0023 EA 40 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	23,106.24	3,882.69
26 32 29 00-0024 EA 50 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	26,321.83	5,546.70
26 32 29 00-0025 EA 65 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	30,614.94	5,546.70
26 32 29 00-0026 EA 85 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	34,666.62	5,546.70
26 32 29 00-0027 EA 100 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	40,825.47	8,320.04
26 32 29 00-0028 EA 125 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	49,627.36	8,320.04
26 32 29 00-0029 4,160 Volt 3 Phase AC Motor Drive 250 Or 500 Volt DC <i>(26 32 29)</i>		
26 32 29 00-0030 EA 170 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	71,659.50	11,093.40
26 32 29 00-0031 EA 200 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	78,119.31	11,093.40
26 32 29 00-0032 EA 240 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	93,933.08	14,421.41
26 32 29 00-0033 EA 320 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	106,843.51	17,527.57
26 32 29 00-0034 EA 400 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	126,397.69	17,527.57
26 32 29 00-0035 EA 560 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	179,049.65	26,180.41
26 32 29 00-0036 EA 640 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	185,580.23	26,180.41
26 32 29 00-0037 EA 800 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	213,463.68	30,506.83

26	26	Electrical
	26 30	Facility Electrical Power Generating and Storing Equipment
	26 33	Battery Equipment



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST

26 33 Battery Equipment (26 30)

26 33 13 Batteries (26 33)

26 33 13 00-0001 Standby Batteries (26 33 13)

	26 33 13 00-0002	EA	12 Volt, 100 Amp Hours To 10.5 Volt Capacity, 6-Cell, Valve Regulated Lead-Calcium, Standby Battery	838.20	25.30
	26 33 13 00-0003	EA	12 Volt, 100 Amp Hours To 10.5 Volt Capacity, 6-Cell, Valve Regulated Lead-Calcium, Standby Battery With Steel Jacket	904.95	25.30
	26 33 13 00-0004	EA	725CCA, Group 31, 12 Volt Lead Calcium Standby Battery	270.25	25.30
	26 33 13 00-0005	EA	810CCA, Group 24, 12 Volt Lead Calcium Standby Battery	246.09	25.30
	26 33 13 00-0006	EA	1080CCA, Group 4D, 12 Volt Lead Calcium Standby Battery	418.35	25.30
	26 33 13 00-0007	EA	1400CCA, Group 8D, 12 Volt Lead Calcium Standby Battery	485.11	25.30

26 33 43 Battery Chargers (26 33)

26 33 43 00-0001 Solid State Chargers, Single Phase (26 33 43)

Note: Includes wall bracket, 10' of DC charging cable and standard connector, 208/240/480 V.

	26 33 43 00-0002	EA	Solid State Battery Charger, 6 Cell Single Phase With Wall Bracket, 208/240/480 Volt	2,518.06	576.54
	26 33 43 00-0003	EA	Solid State Battery Charger, 9 Cell Single Phase With Wall Bracket, 208/240/480 Volt	2,927.20	576.54
	26 33 43 00-0004	EA	Solid State Battery Charger, 12 Cell Single Phase With Wall Bracket, 208/240/480 Volt	3,220.29	576.54
	26 33 43 00-0005	EA	Solid State Battery Charger, 18 Cell Single Phase With Wall Bracket, 208/240/480 Volt	3,413.37	682.62

26 33 53 Static Uninterruptible Power Supply (26 33)

26 33 53 00-0001 Single Phase, Uninterruptible Power Supply Systems (UPS) (26 33 53)

26 33 53 00-0002 Single Phase, Uninterruptible Power Supply Systems (UPS) (26 33 53 00-0001)

26 33 53 00-0003 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)

Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.

	26 33 53 00-0004	EA	0.5 kVA, 450 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-500RT120)	996.12	99.98
	26 33 53 00-0005	EA	0.7 kVA, 630 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-700RT120)	1,190.28	116.63
	26 33 53 00-0006	EA	1 kVA, 900 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1000RT120)	1,468.61	133.29
	26 33 53 00-0007	EA	1.5 kVA, 1,350 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1500RT120)	1,795.90	149.96
	26 33 53 00-0008	EA	2 kVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-2000RT120)	2,308.18	166.62
	26 33 53 00-0009	EA	3 kVA, 2,700 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT120)	3,727.23	199.94

26 33 53 00-0010 208 Volt AC Output, 208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)

Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.

	26 33 53 00-0011	EA	3 kVA, 2,700 Watt, 208 Volt AC Output, 208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT208)	3,658.08	199.94
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26 33 53 00-0012 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)

Note: Rack mount or tower configuration. Includes 50 or 60 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.

	26 33 53 00-0013	EA	5 kVA, 4,000 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-5000RT208)	5,648.95	266.59
	26 33 53 00-0014	EA	6 kVA, 4,800 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-6000RT208)	6,176.36	299.92
	26 33 53 00-0015	EA	8 kVA, 7,200 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-8000RT208)	9,247.15	366.56
	26 33 53 00-0016	EA	10 kVA, 9,000 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-10000RT208)	10,632.78	399.88



Electrical	26	26
Facility Electrical Power Generating and Storing Equipment	26 30	
Battery Equipment	26 33	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 33 53 00-0017	230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) <small>(26 33 53 00-0002)</small>	
Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0018 EA	0.7 KVA, 630 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-700RT230).....	1,190.28 116.63
Note: Includes 11 minutes of battery backup at full load.		
26 33 53 00-0019 EA	1 KVA, 900 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1000RT230).....	1,468.61 133.29
Note: Includes 6 minutes of battery backup at full load.		
26 33 53 00-0020 EA	1.5 KVA, 1,350 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1500RT230).....	1,816.33 149.96
Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0021 EA	2 KVA, 1,800 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-2000RT230).....	2,313.11 166.62
Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0022 EA	3 KVA, 2,700 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT230).....	3,742.58 199.94
Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0023 EA	5 KVA, 4,000 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-5000RT230).....	5,418.03 266.59
Note: Includes 9 minutes of battery backup at full load.		
26 33 53 00-0024 EA	6 KVA, 4,800 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-6000RT230).....	6,656.46 299.92
Note: Includes 6 minutes of battery backup at full load.		
26 33 53 00-0025 EA	10 KVA, 9,000 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-10000RT230).....	10,302.67 399.88
Note: Includes 3 minutes of battery backup at full load.		
26 33 53 00-0026	Optional Accessories For Single Phase, Uninterruptible Power Supply Systems <small>(26 33 53 00-0001)</small>	
26 33 53 00-0027 EA	External Battery Cabinet For 0.5 To 2 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-48VBATT).....	667.35 30.29
Note: Rack mount or tower configuration.		
26 33 53 00-0028 EA	External Battery Cabinet For 3 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-72VBATT).....	875.07 30.29
Note: Rack mount or tower configuration.		
26 33 53 00-0029 EA	External Battery Cabinet For 5 To 6 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-144VBATT).....	851.95 30.29
Note: Rack mount or tower configuration.		
26 33 53 00-0030 EA	External Battery Cabinet For 8 To 10 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-288RTVBATT).....	577.87 30.29
Note: Rack mount or tower configuration.		
26 33 53 00-0031 EA	Internal Replacement Battery For 5 To 6 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-144VBATKIT).....	844.19 99.98
26 33 53 00-0032 EA	Internal Replacement Battery For 8 To 10 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-288RTBKIT).....	945.17 133.29
26 33 53 00-0033	Three Phase, Uninterruptible Power Supply Systems (UPS) <small>(26 33 53)</small>	
26 33 53 00-0034	208 Volt AC Output, 120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) With Internal Battery (Emerson) <small>(26 33 53 00-0033)</small>	
Note: Includes start-up, 60 Hz frequency, bypass switch and diagnostics.		
26 33 53 00-0035 EA	10 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	29,076.05 399.88
26 33 53 00-0036 EA	15 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	32,239.48 533.18
26 33 53 00-0037 EA	20 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	36,075.95 666.48
26 33 53 00-0038 EA	30 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	39,172.08 799.77
26 33 53 00-0039 EA	40 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	47,114.16 933.07
26 33 53 00-0040	208 Volt AC Output, 120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) Without Internal Battery (Emerson) <small>(26 33 53 00-0033)</small>	
Note: Excludes Internal Battery See CSI section 26 33 53 00-0055 for batteries.		
26 33 53 00-0041 EA	60 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	64,041.77 1,590.45
26 33 53 00-0042 EA	80 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	69,838.76 1,969.13
26 33 53 00-0043 EA	100 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	77,309.86 2,297.33
26 33 53 00-0044 EA	120 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	95,246.76 2,600.26
26 33 53 00-0045 EA	140 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	99,016.07 2,903.20

26 Electrical

26 30 Facility Electrical Power Generating and Storing Equipment

26 33 Battery Equipment



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 33 53 00-0046	EA	160 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS)		102,886.13	3,206.15
26 33 53 00-0047	EA	180 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS)		107,563.85	3,509.09
26 33 53 00-0048	EA	200 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS)		112,241.57	3,812.03
26 33 53 00-0049		480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) Without Internal Battery (Emerson) ^(26 33 53 00-0033) <small>Note: Excludes Internal Battery See CSI section 26 33 53 00-0055 for batteries.</small>			
26 33 53 00-0050	EA	50 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS)		59,742.54	1,312.75
26 33 53 00-0051	EA	100 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS)		77,713.69	2,307.42
26 33 53 00-0052	EA	150 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS)		105,939.96	2,665.90
26 33 53 00-0053	EA	200 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS)		124,617.21	2,928.45
26 33 53 00-0054	EA	250 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS)		145,582.84	3,231.39
26 33 53 00-0055		Optional Accessories For Three Phase, Uninterruptible Power Supply Systems ^(26 33 53 00-0033)			
26 33 53 00-0056	EA	Programmable Relay Board For Three Phase Uninterruptible Power Supply Systems		592.95	50.49
26 33 53 00-0057	EA	Network Interface Card For Three Phase Uninterruptible Power Supply Systems		957.39	50.49
26 33 53 00-0058	EA	Remote Status Panel With 100' Of Cable For Three Phase Uninterruptible Power Supply Systems		1,827.52	100.98
26 33 53 00-0059	EA	Slim Line Distribution Panel With Two 42 Pole Panels For Three Phase Uninterruptible Power Supply Systems		5,669.88	403.92
26 33 53 00-0060	EA	12 Volt, 491 Watt, 3 Phase, 134 Amp Hours, Battery For Uninterruptible Power Supply Systems (C&D UPS12-490MR)		442.92	50.49
26 33 53 00-0061	EA	12 Volt, 204 Watt, 3 Phase, 55 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX200)		243.46	50.49
26 33 53 00-0062	EA	12 Volt, 257 Watt, 3 Phase, 65 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX250)		272.56	50.49
26 33 53 00-0063	EA	12 Volt, 311 Watt, 3 Phase, 75 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX300)		301.67	50.49
26 33 53 00-0064	EA	12 Volt, 374 Watt, 3 Phase, 90 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX350)		354.06	50.49
26 33 53 00-0065	EA	12 Volt, 415 Watt, 3 Phase, 100 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX400)		371.52	50.49
26 33 53 00-0066	EA	12 Volt, 493 Watt, 3 Phase, 135 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX500)		461.75	50.49
26 33 53 00-0067	EA	12 Volt, 540 Watt, 3 Phase, 150 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX540)		483.58	50.49
26 33 53 00-0068		Other Uninterruptable Power Supply Equipment ^(26 33 53)			
26 33 53 00-0069	EA	Uninterrupted Power Supply Slim-Line Distribution Panel 42 Pole GE Plug-In		4,328.74	92.25
26 33 53 00-0070	EA	Uninterrupted Power Supply Slim-Line Distribution Panel 84 Pole GE Plug-In		5,227.76	184.49
26 33 53 00-0071	EA	1 Pole, 15 To 60 Amperes, GE Plug-In Breakers For UPS Distribution Panel		23.93	5.54
26 33 53 00-0072	EA	2 Pole, 15 To 40 Amperes, GE Plug-In Breakers For UPS Distribution Panel		42.42	6.92
26 33 53 00-0073	EA	2 Pole, 50 To 80 Amperes, GE Plug-In Breakers For UPS Distribution Panel		78.15	6.92
26 33 53 00-0074	EA	3 Pole, 15 To 60 Amperes, GE Plug-In Breakers For UPS Distribution Panel		114.20	9.23
26 33 53 00-0075	EA	3 Pole, 70 To 100 Amperes, GE Plug-In Breakers For UPS Distribution Panel		161.36	9.23
26 33 53 00-0076	EA	Uninterrupted Power Supply Remote Status Panel		2,971.14	92.25
26 33 53 00-0077	EA	Uninterrupted Power Supply Remote Contact Board		995.78	69.18
26 35		Power Filters and Conditioners ^(26 30)			
26 35 33		Power Factor Correction Equipment ^(26 35)			
26 35 33 16		Low-Voltage Power Factor Correction Equipment ^(26 35 33)			
26 35 33 16-0001		Power Factor Correction Capacitors ^(26 35 33 16)			
26 35 33 16-0002	EA	Power Factor Correction Capacitors, 2.0 KVAC		704.25	
26 35 33 16-0003	EA	Power Factor Correction Capacitors, 3.0 KVAC		779.97	
26 35 33 16-0004	EA	Power Factor Correction Capacitors, 4.0 KVAC		855.70	
26 35 33 16-0005	EA	Power Factor Correction Capacitors, 5.0 KVAC		928.40	
26 35 33 16-0006	EA	Power Factor Correction Capacitors, 7.5 KVAC		1,140.43	
26 35 33 16-0007	EA	Power Factor Correction Capacitors, 10.0 KVAC		1,393.35	
26 35 33 16-0008	EA	Power Factor Correction Capacitors, 15.0 KVAC		2,152.12	
26 35 33 16-0009	EA	Power Factor Correction Capacitors, 20.0 KVAC		2,614.05	
26 35 33 16-0010	EA	Power Factor Correction Capacitors, 25.0 KVAC		3,377.36	
26 35 33 16-0011	EA	Power Factor Correction Capacitors, 30.0 KVAC		3,840.80	
26 35 33 16-0012	EA	Power Factor Correction Capacitors, 50.0 KVAC		6,739.58	
26 35 33 16-0013	EA	Power Factor Correction Capacitors, 75.0 KVAC		10,133.60	
26 35 33 16-0014	EA	Power Factor Correction Capacitors, 100.0 KVAC		13,512.48	
26 35 33 16-0015	EA	Power Factor Correction Capacitors, Fuse Kit		627.01	



Electrical			26
Facility Electrical Power Generating and Storing Equipment			26 30
Power Filters and Conditioners			26 35

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 35 43 Static-Frequency Converters (26 35)					
26 35 43 00-0001 Rotary Phase Converter With NEMA 1 Indoor Enclosure (26 35 43)					
26 35 43 00-0002	EA		750 Watt Output Rotary Phase Converter With NEMA 1 Enclosure	525.79	100.98
26 35 43 00-0003	EA		2 KW Output Rotary Phase Converter With NEMA 1 Enclosure	904.70	121.18
26 35 43 00-0004	EA		3 KW Output Rotary Phase Converter With NEMA 1 Enclosure	1,038.80	161.57
26 35 43 00-0005	EA		5 KW Output Rotary Phase Converter With NEMA 1 Enclosure	1,422.80	201.97
26 35 43 00-0006	EA		7 KW Output Rotary Phase Converter With NEMA 1 Enclosure	1,954.95	262.55
26 35 43 00-0007	EA		11 KW Output Rotary Phase Converter With NEMA 1 Enclosure	2,521.35	323.14
26 35 43 00-0008	EA		15 KW Output Rotary Phase Converter With NEMA 1 Enclosure	3,156.26	383.73
26 35 43 00-0009	EA		21 KW Output Rotary Phase Converter With NEMA 1 Enclosure	3,839.44	434.22
26 35 43 00-0010	EA		29 KW Output Rotary Phase Converter With NEMA 1 Enclosure	4,466.45	525.10
26 35 43 00-0011	EA		36 KW Output Rotary Phase Converter With NEMA 1 Enclosure	5,111.44	590.74
26 35 43 00-0012	EA		44 KW Output Rotary Phase Converter With NEMA 1 Enclosure	5,756.43	656.38
26 35 43 00-0013	EA		55 KW Output Rotary Phase Converter With NEMA 1 Enclosure	7,142.14	792.70
26 35 43 00-0014	EA		74 KW Output Rotary Phase Converter With NEMA 1 Enclosure	9,263.30	954.27
26 35 43 00-0015	EA		87 KW Output Rotary Phase Converter With NEMA 1 Enclosure	11,732.20	1,161.28
26 35 43 00-0016	EA		110 KW Output Rotary Phase Converter With NEMA 1 Enclosure	13,427.45	1,358.19
26 35 43 00-0017	EA		125 KW Output Rotary Phase Converter With NEMA 1 Enclosure	17,233.81	1,514.72
26 35 43 00-0018	EA		165 KW Output Rotary Phase Converter With NEMA 1 Enclosure	26,199.74	1,716.67
26 35 43 00-0019	EA		220 KW Output Rotary Phase Converter With NEMA 1 Enclosure	38,932.95	1,918.64
26 35 53 Voltage Regulators (26 35)					
26 35 53 00-0001 Voltage Regulators, 480/277 Or 208/120 Volt, 3 Phase (26 35 53)					
Note: For diesel motor generator sets mounted in switchgear cabinet.					
26 35 53 00-0002	EA		50 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear	5,539.18	1,605.60
26 35 53 00-0003	EA		75 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear	6,374.71	2,019.62
26 35 53 00-0004	EA		100 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear	7,144.09	2,403.35
26 36 Transfer Switches (26 30)					
26 36 13 Manual Transfer Switches (26 36)					
26 36 13 00-0001 Fused Manual Transfer Switches (26 36 13)					
26 36 13 00-0002	EA		30 Amperes, Manual Transfer Switch, Fused, 3 Pole, 480 Volt	1,271.73	176.72
26 36 13 00-0003	EA		60 Amperes, Manual Transfer Switch, Fused, 3 Pole, 480 Volt	1,476.54	219.53
26 36 13 00-0004 Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 13)					
26 36 13 00-0005	EA		40 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT40)	2,690.25	260.24
				For NEMA 3R Enclosure, Add	853.86
				For NEMA 12 Enclosure, Add	803.62
26 36 13 00-0006	EA		70 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT70)	2,982.22	312.30
				For NEMA 3R Enclosure, Add	853.86
				For NEMA 12 Enclosure, Add	803.62
26 36 13 00-0007	EA		125 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT125)	3,385.62	364.34
				For NEMA 3R Enclosure, Add	853.86
				For NEMA 12 Enclosure, Add	803.62
26 36 13 00-0008	EA		150 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT150)	4,201.34	416.39
				For NEMA 3R Enclosure, Add	1,004.53
				For NEMA 12 Enclosure, Add	803.62
26 36 13 00-0009	EA		225 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT225)	5,197.20	468.43
				For NEMA 3R Enclosure, Add	1,004.53
				For NEMA 12 Enclosure, Add	803.62
26 36 13 00-0010	EA		260 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT260)	5,842.81	520.49
				For NEMA 3R Enclosure, Add	1,004.53
				For NEMA 12 Enclosure, Add	803.62
26 36 13 00-0011	EA		300 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT300)	6,498.56	572.54
				For NEMA 3R Enclosure, Add	1,185.35
				For NEMA 12 Enclosure, Add	1,004.53
26 36 13 00-0012	EA		400 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT400)	7,626.77	624.58
				For NEMA 3R Enclosure, Add	1,185.35
				For NEMA 12 Enclosure, Add	1,004.53
26 36 13 00-0013	EA		600 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT600)	10,083.94	780.73
				For NEMA 3R Enclosure, Add	1,185.35
				For NEMA 12 Enclosure, Add	1,004.53
26 36 13 00-0014	EA		800 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT800)	11,348.50	936.88
				For NEMA 3R Enclosure, Add	1,456.56
				For NEMA 12 Enclosure, Add	1,406.34
26 36 13 00-0015	EA		1,000 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT1000)	15,156.95	1,331.21
				For NEMA 3R Enclosure, Add	1,456.56
				For NEMA 12 Enclosure, Add	1,406.34
26 36 23 Automatic Transfer Switches (26 36)					
26 36 23 00-0001 Automatic Transfer Switch (26 36 23)					

26 Electrical
26 30 Facility Electrical Power Generating and Storing Equipment
26 36 Transfer Switches



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT UNIT COST
DEMOLITION UNIT COST

26 36 23 00-0002	Automatic Transfer Switch, 2 Pole Circuit Breaker, NEMA 1 Enclosure ^(26 36 23 00-0001) Note: Programmable, 120/240 volt single phase, 3 wire.		
26 36 23 00-0003	EA 100 Amp, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire	2,438.37	364.34
26 36 23 00-0004	EA 225 Amp, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire	3,315.59	468.43
26 36 23 00-0005	EA 400 Amp, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire	5,263.26	624.58
26 36 23 00-0006	EA 600 Amp, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire	11,968.35	780.73
26 36 23 00-0007	Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure ^(26 36 23 00-0001)		
26 36 23 00-0008	EA 40 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC40)..... <i>For NEMA 3R Enclosure, Add</i> <i>For NEMA 4 Enclosure, Add</i> <i>For NEMA 12 Enclosure, Add</i>	4,003.53 853.86 904.08 904.08	260.24
26 36 23 00-0009	EA 70 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC70)..... <i>For NEMA 3R Enclosure, Add</i> <i>For NEMA 4 Enclosure, Add</i> <i>For NEMA 12 Enclosure, Add</i>	4,622.42 853.86 904.08 904.08	312.30
26 36 23 00-0010	EA 125 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC125)..... <i>For NEMA 3R Enclosure, Add</i> <i>For NEMA 4 Enclosure, Add</i> <i>For NEMA 12 Enclosure, Add</i>	5,082.01 853.86 904.08 904.08	364.34
26 36 23 00-0011	EA 150 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC150)..... <i>For NEMA 3R Enclosure, Add</i> <i>For NEMA 4 Enclosure, Add</i> <i>For NEMA 12 Enclosure, Add</i>	6,045.36 1,004.53 1,305.89 904.08	416.39
26 36 23 00-0012	EA 225 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC225)..... <i>For NEMA 3R Enclosure, Add</i> <i>For NEMA 4 Enclosure, Add</i> <i>For NEMA 12 Enclosure, Add</i>	6,902.80 1,004.53 1,305.89 904.08	468.43
26 36 23 00-0013	EA 260 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC260)..... <i>For NEMA 3R Enclosure, Add</i> <i>For NEMA 4 Enclosure, Add</i> <i>For NEMA 12 Enclosure, Add</i>	7,617.49 1,004.53 1,305.89 904.08	520.49
26 36 23 00-0014	EA 300 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC300)..... <i>For NEMA 3R Enclosure, Add</i> <i>For NEMA 4 Enclosure, Add</i> <i>For NEMA 12 Enclosure, Add</i>	7,960.10 1,185.35 1,406.34 1,004.53	572.54
26 36 23 00-0015	EA 400 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC400)..... <i>For NEMA 3R Enclosure, Add</i> <i>For NEMA 4 Enclosure, Add</i> <i>For NEMA 12 Enclosure, Add</i>	9,001.74 1,185.35 1,406.34 1,004.53	624.58
26 36 23 00-0016	EA 600 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC600)..... <i>For NEMA 3R Enclosure, Add</i> <i>For NEMA 4 Enclosure, Add</i> <i>For NEMA 12 Enclosure, Add</i>	12,334.74 1,185.35 1,406.34 1,004.53	780.73
26 36 23 00-0017	EA 800 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC800)..... <i>For NEMA 3R Enclosure, Add</i> <i>For NEMA 4 Enclosure, Add</i> <i>For NEMA 12 Enclosure, Add</i>	13,834.14 1,456.56 1,607.26 1,406.34	936.88
26 36 23 00-0018	EA 1,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1000)..... <i>For NEMA 3R Enclosure, Add</i> <i>For NEMA 4 Enclosure, Add</i> <i>For NEMA 12 Enclosure, Add</i>	18,062.54 1,456.56 1,607.26 1,406.34	1,331.21
26 36 23 00-0019	EA 1,200 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1200)..... <i>For NEMA 3R Enclosure, Add</i> <i>For NEMA 4 Enclosure, Add</i> <i>For NEMA 12 Enclosure, Add</i>	23,434.25 3,214.50 1,808.15 1,506.80	1,442.14
26 36 23 00-0020	EA 1,600 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1600)..... <i>For NEMA 3R Enclosure, Add</i> <i>For NEMA 4 Enclosure, Add</i> <i>For NEMA 12 Enclosure, Add</i>	24,987.74 5,223.55 6,428.98 5,223.55	1,664.01
26 36 23 00-0021	EA 2,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC2000)..... <i>For NEMA 3R Enclosure, Add</i> <i>For NEMA 4 Enclosure, Add</i> <i>For NEMA 12 Enclosure, Add</i>	28,569.92 5,223.55 6,428.98 5,223.55	1,885.87
26 36 23 00-0022	EA 3,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC3000)..... <i>For NEMA 3R Enclosure, Add</i>	34,506.69 5,223.55	2,329.61
26 36 23 00-0023	EA 4,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC4000)..... <i>For NEMA 3R Enclosure, Add</i>	59,857.34 24,550.65	2,773.34
26 36 23 00-0024	Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure ^(26 36 23 00-0001)		
26 36 23 00-0025	EA 150 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC150)..... <i>For NEMA 3R Enclosure, Add</i> <i>For NEMA 4 Enclosure, Add</i> <i>For NEMA 12 Enclosure, Add</i>	19,921.14 1,757.93 1,808.15 954.31	1,977.85
26 36 23 00-0026	EA 225 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC225)..... <i>For NEMA 3R Enclosure, Add</i> <i>For NEMA 4 Enclosure, Add</i> <i>For NEMA 12 Enclosure, Add</i>	20,794.44 1,757.93 1,808.15 954.31	2,081.95



Facility Electrical Power Generating and Storing Equipment		26	26
Transfer Switches			26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0027	EA		260 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC260).....	21,798.39	2,186.05
			For NEMA 3R Enclosure, Add	1,757.93	
			For NEMA 4 Enclosure, Add	1,808.15	
			For NEMA 12 Enclosure, Add	954.31	
26 36 23 00-0028	EA		300 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC300).....	24,341.87	2,238.10
			For NEMA 3R Enclosure, Add	1,757.93	
			For NEMA 4 Enclosure, Add	1,808.15	
			For NEMA 12 Enclosure, Add	954.31	
26 36 23 00-0029	EA		400 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC400).....	28,112.37	2,290.15
			For NEMA 3R Enclosure, Add	1,757.93	
			For NEMA 4 Enclosure, Add	1,808.15	
			For NEMA 12 Enclosure, Add	954.31	
26 36 23 00-0030	EA		600 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC600).....	33,776.97	2,394.25
			For NEMA 3R Enclosure, Add	1,757.93	
			For NEMA 4 Enclosure, Add	1,808.15	
			For NEMA 12 Enclosure, Add	1,004.53	
26 36 23 00-0031	EA		800 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC800).....	37,244.85	2,498.34
			For NEMA 3R Enclosure, Add	1,808.15	
			For NEMA 4 Enclosure, Add	1,808.15	
			For NEMA 12 Enclosure, Add	1,104.99	
26 36 23 00-0032	EA		1,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1000).....	46,812.41	2,914.73
			For NEMA 3R Enclosure, Add	1,808.15	
			For NEMA 4 Enclosure, Add	1,808.15	
			For NEMA 12 Enclosure, Add	1,104.99	
26 36 23 00-0033	EA		1,200 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1200).....	61,521.22	3,328.01
			For NEMA 3R Enclosure, Add	8,036.22	
			For NEMA 4 Enclosure, Add	10,045.28	
			For NEMA 12 Enclosure, Add	8,036.22	
26 36 23 00-0034	EA		1,600 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1600).....	80,285.31	3,549.89
			For NEMA 3R Enclosure, Add	17,076.96	
			For NEMA 4 Enclosure, Add	17,076.96	
			For NEMA 12 Enclosure, Add	15,911.72	
26 36 23 00-0035	EA		2,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC2000).....	91,165.14	3,882.69
			For NEMA 3R Enclosure, Add	17,076.96	
			For NEMA 4 Enclosure, Add	17,076.96	
			For NEMA 12 Enclosure, Add	15,911.72	
26 36 23 00-0036	EA		3,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC3000).....	145,853.91	4,437.36
			For NEMA 3R Enclosure, Add	21,095.07	
26 36 23 00-0037	EA		4,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC4000).....	157,428.09	4,992.03
			For NEMA 3R Enclosure, Add	21,095.07	
26 36 23 00-0038			Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure <small>(26 36 23 00-0001)</small>		
26 36 23 00-0039	EA		40 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE40).....	6,537.98	260.24
			For NEMA 3R Enclosure, Add	502.27	
			For NEMA 12 Enclosure, Add	904.08	
26 36 23 00-0040	EA		70 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE70).....	7,069.39	312.30
			For NEMA 3R Enclosure, Add	502.27	
			For NEMA 12 Enclosure, Add	904.08	
26 36 23 00-0041	EA		125 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE125).....	7,599.90	364.34
			For NEMA 3R Enclosure, Add	502.27	
			For NEMA 12 Enclosure, Add	904.08	
26 36 23 00-0042	EA		150 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE150).....	9,127.78	416.39
			For Four Pole Circuit Breaker, Add	2,511.32	
			For NEMA 3R Enclosure, Add	502.27	
			For NEMA 12 Enclosure, Add	904.08	
26 36 23 00-0043	EA		225 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE225).....	11,887.90	468.43
			For Four Pole Circuit Breaker, Add	2,511.32	
			For NEMA 3R Enclosure, Add	502.27	
			For NEMA 12 Enclosure, Add	904.08	
26 36 23 00-0044	EA		250 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE250).....	12,656.00	520.49
			For Four Pole Circuit Breaker, Add	2,511.32	
			For NEMA 3R Enclosure, Add	502.27	
			For NEMA 12 Enclosure, Add	904.08	
26 36 23 00-0045	EA		300 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE300).....	13,160.71	572.54
			For Four Pole Circuit Breaker, Add	3,415.40	
			For NEMA 3R Enclosure, Add	1,305.89	
			For NEMA 12 Enclosure, Add	1,004.53	



MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0046	EA 400 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE400).....	14,893.98	624.58
	<i>For Four Pole Circuit Breaker, Add</i>	3,415.40	
	<i>For NEMA 3R Enclosure, Add</i>	1,305.89	
	<i>For NEMA 12 Enclosure, Add</i>	1,004.53	
26 36 23 00-0047	EA 600 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE600).....	18,071.34	780.73
	<i>For Four Pole Circuit Breaker, Add</i>	3,415.40	
	<i>For NEMA 3R Enclosure, Add</i>	1,305.89	
	<i>For NEMA 12 Enclosure, Add</i>	1,004.53	
26 36 23 00-0048	EA 800 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE800).....	18,822.01	936.88
	<i>For Four Pole Circuit Breaker, Add</i>	4,871.96	
	<i>For NEMA 3R Enclosure, Add</i>	2,250.15	
	<i>For NEMA 12 Enclosure, Add</i>	1,406.34	
26 36 23 00-0049	EA 1,000 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE1000).....	22,372.59	1,331.21
	<i>For Four Pole Circuit Breaker, Add</i>	4,871.96	
	<i>For NEMA 3R Enclosure, Add</i>	2,250.15	
	<i>For NEMA 12 Enclosure, Add</i>	1,406.34	
26 36 23 00-0050	Accessories <small>(26 36 23)</small>		
26 36 23 00-0051	EA Auxiliary Contacts For Automatic Transfer Switch.....	233.06	
26 36 23 00-0052	EA Battery Charger For Automatic Transfer Switch.....	1,908.61	
26 36 23 00-0053	EA Elevator Relay Signal For Automatic Transfer Switch.....	693.13	
26 40	Electrical And Cathodic Protection <small>(26)</small>		
26 43	Surge Protective Devices <small>(26 40)</small>		
26 43 13	Surge Protective Devices for Low-Voltage Electrical Power Circuits <small>(26 43)</small>		
26 43 13 00-0001	25 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression <small>(26 43 13)</small>		
	Note: Liebert LPL		
26 43 13 00-0002	EA 120/240 Volt AC Single Phase, 3 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	261.35	25.25
26 43 13 00-0003	EA 208 Volt AC Three Phase, 3 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	282.75	25.25
26 43 13 00-0004	EA 240/120 Volt AC Three Phase, 4 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	292.85	30.29
26 43 13 00-0005	EA 277 Volt AC Single Phase, 2 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	245.15	20.19
26 43 13 00-0006	EA 480/277 Volt AC Three Phase, 4 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	292.85	30.29
26 43 13 00-0007	50 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression <small>(26 43 13)</small>		
	Note: Liebert LPL		
26 43 13 00-0008	EA 120/240 Volt AC Single Phase, 3 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	366.79	25.25
26 43 13 00-0009	EA 208/120 Volt AC Three Phase, 4 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	389.11	30.29
26 43 13 00-0010	EA 208 Volt AC Three Phase, 3 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	379.01	25.25
26 43 13 00-0011	EA 480/277 Volt AC Three Phase, 4 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	389.11	30.29
26 43 13 00-0012	100 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression <small>(26 43 13)</small>		
	Note: Liebert LPL		
26 43 13 00-0013	EA 120/240 Volt AC Single Phase, 3 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	446.24	25.25
26 43 13 00-0014	EA 208/120 Volt AC Three Phase, 4 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	468.57	30.29
26 43 13 00-0015	EA 277 Volt AC Single Phase, 2 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	417.82	20.19
26 43 13 00-0016	EA 480/277 Volt AC Three Phase, 4 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	468.57	30.29
26 43 13 00-0017	100 kA Low Exposure (65 kAIC) Transient Voltage Surge Suppression <small>(26 43 13)</small>		
	Note: Liebert LPM		
26 43 13 00-0018	EA 120/240 Volt AC Single Phase, 3 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor.....	528.75	25.25
26 43 13 00-0019	EA 208/120 Volt AC Three Phase, 4 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor.....	595.39	30.29
26 43 13 00-0020	EA 277 Volt AC Three Phase, 2 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor.....	501.86	20.19
26 43 13 00-0021	160 kA Low Exposure (65 kAIC) Transient Voltage Surge Suppression <small>(26 43 13)</small>		
	Note: Liebert LPM		
26 43 13 00-0022	EA 208/120 Volt AC Single Phase, 4 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor.....	939.19	30.29
26 43 13 00-0023	EA 208 Volt AC Three Phase, 3 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor.....	929.09	25.25
26 43 13 00-0024	EA 480/277 Volt AC Three Phase, 4 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor.....	939.19	30.29
26 43 13 00-0025	250 kA, 500 Joule Transient Voltage Surge Suppression <small>(26 43 13)</small>		
	Note: Liebert Interceptor Hybrid.		
26 43 13 00-0026	EA LED Display, 120/208 Volt AC Three Phase, 250 kA Transient Voltage Surge Suppressor.....	5,492.25	50.49
26 43 13 00-0027	EA Audible Alarm/LED Display, 120/208 Volt AC Three Phase, 250 kA Transient Voltage Surge Suppressor.....	6,714.65	50.49
26 43 13 00-0028	Class 1310 Transient Voltage Surge Suppression <small>(26 43 13)</small>		
	Note: Supplied with audible alarm, alarm enable/disable switch and dry contacts. Square D.		



	Electrical	26	
	Electrical And Cathodic Protection	26 40	26
	Surge Protective Devices	26 43	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0029 NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor (26 43 13 00-0029) <small>0029)</small> Note: Square D. EMA series.		
26 43 13 00-0030 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	4,393.74 265.68 203.04	131.28
26 43 13 00-0031 EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	4,843.02 265.68 203.04	151.47
26 43 13 00-0032 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	7,096.12 265.68 203.04	176.72
26 43 13 00-0033 EA 320 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	9,455.44 265.68 203.04	201.97
26 43 13 00-0034 EA 480 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	14,001.21 265.68 203.04	277.70
26 43 13 00-0035 EA 120 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	4,587.29 265.68 203.04	131.28
26 43 13 00-0036 EA 160 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	5,055.64 265.68 203.04	151.47
26 43 13 00-0037 EA 240 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	7,424.61 265.68 203.04	176.72
26 43 13 00-0038 EA 320 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	9,882.06 265.68 203.04	201.97
26 43 13 00-0039 EA 480 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	14,659.53 265.68 203.04	277.70
26 43 13 00-0040 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	4,587.29 265.68 203.04	131.28
26 43 13 00-0041 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	5,055.64 265.68 203.04	151.47
26 43 13 00-0042 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	7,424.56 265.68 203.04	176.72
26 43 13 00-0043 EA 320 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	9,882.06 265.68 203.04	201.97
26 43 13 00-0044 EA 480 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	14,659.53 265.68 203.04	277.70
26 43 13 00-0045 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	4,780.86 265.68 203.04	131.28
26 43 13 00-0046 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	5,271.00 265.68 203.04	151.47
26 43 13 00-0047 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	7,755.80 265.68 203.04	176.72
26 43 13 00-0048 EA 320 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	10,311.47 265.68 203.04	201.97
26 43 13 00-0049 EA 480 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	15,320.53 265.68 203.04	277.70
26 43 13 00-0050 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	5,005.75 265.68 203.04	131.28
26 43 13 00-0051 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	5,494.57 265.68 203.04	151.47
26 43 13 00-0052 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	8,102.00 265.68 203.04	176.72
26 43 13 00-0053 EA 320 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	10,761.25 265.68 203.04	201.97
26 43 13 00-0054 EA 480 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	15,077.20 265.68 203.04	277.70

26 43 13 00-0055 NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor (26 43 13 00-0029) <small>43 13 00-0029)</small> Note: Square D EBA series.		
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26	Electrical
26 40	Electrical And Cathodic Protection
26 43	Surge Protective Devices



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0056	EA	120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	.....3,412.42 265.68 203.04	131.28
26 43 13 00-0057	EA	160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	.....4,126.14 265.68 203.04	151.47
26 43 13 00-0058	EA	240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	.....6,068.44 265.68 203.04	176.72
26 43 13 00-0059	EA	120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	.....3,522.82 265.68 203.04	131.28
26 43 13 00-0060	EA	160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	.....4,289.69 265.68 203.04	151.47
26 43 13 00-0061	EA	240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	.....6,282.43 265.68 203.04	176.72
26 43 13 00-0062	EA	120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	.....3,522.82 265.68 203.04	131.28
26 43 13 00-0063	EA	160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	.....4,289.69 265.68 203.04	151.47
26 43 13 00-0064	EA	240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	.....6,282.43 265.68 203.04	176.72
26 43 13 00-0065	EA	120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	.....3,663.22 265.68 203.04	131.28
26 43 13 00-0066	EA	160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	.....4,465.52 265.68 203.04	151.47
26 43 13 00-0067	EA	240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	.....6,556.38 265.68 203.04	176.72
26 43 13 00-0068	EA	120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	.....3,810.42 265.68 203.04	131.28
26 43 13 00-0069	EA	160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	.....4,652.24 265.68 203.04	151.47
26 43 13 00-0070	EA	240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	.....6,843.97 265.68 203.04	176.72
26 43 13 00-0071		NEMA 4X Modular Device Transient Voltage Surge Suppressor <small>(26 43 13 00-0028)</small> Note: Square D EMA series. Stainless steel.		
26 43 13 00-0072	EA	120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	.....5,681.75 265.68 203.04	131.28
26 43 13 00-0073	EA	160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	.....6,131.03 265.68 203.04	151.47
26 43 13 00-0074	EA	240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	.....8,384.13 265.68 203.04	176.72
26 43 13 00-0075	EA	120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	.....5,875.30 265.68 203.04	131.28
26 43 13 00-0076	EA	160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	.....6,343.65 265.68 203.04	151.47
26 43 13 00-0077	EA	240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	.....8,712.62 265.68 203.04	176.72
26 43 13 00-0078	EA	120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	.....5,875.30 265.68 203.04	131.28
26 43 13 00-0079	EA	160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	.....6,343.65 265.68 203.04	151.47
26 43 13 00-0080	EA	240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	.....8,712.57 265.68 203.04	176.72
26 43 13 00-0081	EA	120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	.....6,068.87 265.68 203.04	131.28
26 43 13 00-0082	EA	160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	.....6,559.01 265.68 203.04	151.47
26 43 13 00-0083	EA	240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	.....9,043.81 265.68 203.04	176.72



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 43 13 00-0084	EA	120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	6,293.76 265.68 203.04	131.28
26 43 13 00-0085	EA	160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	6,782.58 265.68 203.04	151.47
26 43 13 00-0086	EA	240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	9,390.01 265.68 203.04	176.72
26 43 13 00-0087 NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <small>(26 43 13 00-0028)</small>				
Note: Square D EBA series. Stainless steel.				
26 43 13 00-0088	EA	120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,700.44 265.68 203.04	131.28
26 43 13 00-0089	EA	160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,414.15 265.68 203.04	151.47
26 43 13 00-0090	EA	240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	7,356.46 265.68 203.04	176.72
26 43 13 00-0091	EA	120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,810.83 265.68 203.04	131.28
26 43 13 00-0092	EA	160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,577.71 265.68 203.04	151.47
26 43 13 00-0093	EA	240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	7,570.44 265.68 203.04	176.72
26 43 13 00-0094	EA	120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,810.83 265.68 203.04	131.28
26 43 13 00-0095	EA	160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,577.71 265.68 203.04	151.47
26 43 13 00-0096	EA	240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	7,570.44 265.68 203.04	176.72
26 43 13 00-0097	EA	120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,951.23 265.68 203.04	131.28
26 43 13 00-0098	EA	160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,753.53 265.68 203.04	151.47
26 43 13 00-0099	EA	240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	7,844.39 265.68 203.04	176.72
26 43 13 00-0100	EA	120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,098.43 265.68 203.04	131.28
26 43 13 00-0101	EA	160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,940.26 265.68 203.04	151.47
26 43 13 00-0102	EA	240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	8,131.98 265.68 203.04	176.72

26 50 Lighting (26)

Note: Light fixtures include testing of fixture, a set of lamps (light bulbs), wire nuts, ground wire connector, fixture whip, ballast(s), mounting brackets where necessary and cable connectors. Lay-in fixtures include support wire, clips and seismic supports.

26 52 Safety Lighting (26 50)

26 52 13 Emergency and Exit Lighting (26 52)

26 52 13 13 Emergency Lighting (26 52 13)

26 52 13 13-0001 Commercial Emergency Lights (26 52 13 13)

26 52 13 13-0002 Polycarbonate Housing, Commercial Emergency Lights (26 52 13 13-0001)

Note: Includes lead-calcium batteries and two adjustable lamp heads.

26 52 13 13-0003	EA	3 Max Wattage At 90 Minutes, 3.6 Volt, Polycarbonate Housing, LED Lamps, Commercial Emergency Light (Lithonia ELM2 LED).....	178.64	25.25
26 52 13 13-0004	EA	10.8 Max Wattage At 90 Minutes, 6 Volt, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM2)	124.78	25.25
			<i>For Halogen Lamps, Add</i>	27.55
			<i>For Self-Diagnostics, Add</i>	87.50
26 52 13 13-0005	EA	18 Max Wattage At 90 Minutes, 6 Volt, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM618)	195.27	25.25
			<i>For Halogen Lamps, Add</i>	27.55
			<i>For Self-Diagnostics, Add</i>	87.50

26	26 Electrical
	26 50 Lighting
	26 52 Safety Lighting



MINOR					TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION			UNIT COST	UNIT COST
26 52	13	13-0006	EA	27 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM627).....	227.18	25.25
				<i>For Halogen Lamps, Add</i>	27.55	
				<i>For Self-Diagnostics, Add</i>	87.50	
26 52	13	13-0007	EA	54 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM654).....	336.84	25.25
				<i>For Halogen Lamps, Add</i>	27.55	
				<i>For Self-Diagnostics, Add</i>	87.50	
26 52	13	13-0008	EA	54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM1254).....	381.36	25.25
				<i>For Halogen Lamps, Add</i>	27.55	
				<i>For Self-Diagnostics, Add</i>	87.50	
26 52	13	13-0009	EA	72 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM1272).....	554.79	25.25
				<i>For Halogen Lamps, Add</i>	27.55	
				<i>For Self-Diagnostics, Add</i>	87.50	
26 52	13	13-0010		Remote Heads For Commercial Emergency Lights <small>(26 52 13 13-0001)</small> Note: For use with fixtures that have remote capability.		
26 52	13	13-0011	EA	6 Watt, 6 Volt, Aluminum Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA MT H0606)	120.58	15.15
26 52	13	13-0012	EA	6 Watt, 6 Volt, Gasketed Fiberglass Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA NX H0606)	121.38	15.15
26 52	13	13-0013	EA	8 Watt, 8 Volt, Gasketed Fiberglass Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA NX H0806)	124.08	15.15
26 52	13	13-0014	EA	12 Watt, 12 Volt, Aluminum Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA MT H1212)	123.64	15.15
26 52	13	13-0015	EA	12 Watt, 12 Volt, Thermoplastic Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA H1212).....	107.11	15.15
26 52	13	13-0016	EA	12 Watt, 12 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1206).....	74.28	15.15
26 52	13	13-0017		Industrial Emergency Lights <small>(26 52 13 13)</small>		
26 52	13	13-0018		Painted Steel Housing, Industrial Emergency Lights <small>(26 52 13 13-0017)</small>		
26 52	13	13-0019		Painted Steel Housing, Industrial Emergency Lights <small>(26 52 13 13-0018)</small> Note: Includes lead-calcium batteries and two adjustable lamp heads.		
26 52	13	13-0020	EA	16 Max Wattage At 90 Minutes, 6 Volt, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT16)	312.62	25.25
				<i>For Wireguard, Add</i>	157.72	
26 52	13	13-0021	EA	24 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT24).....	262.82	25.25
				<i>For Wireguard, Add</i>	157.72	
26 52	13	13-0022	EA	36 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT36).....	408.37	25.25
				<i>For Wireguard, Add</i>	157.72	
26 52	13	13-0023	EA	50 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT50).....	433.49	25.25
				<i>For Wireguard, Add</i>	157.72	
26 52	13	13-0024	EA	125 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT125)	617.71	25.25
				<i>For Wireguard, Add</i>	167.98	
26 52	13	13-0025	EA	275 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT275)	970.14	25.25
				<i>For Wireguard, Add</i>	167.98	
26 52	13	13-0026		Remote Heads For Painted Steel Housing, Industrial Emergency Lights <small>(26 52 13 13-0018)</small> Note: For use with fixtures that have remote capability.		
26 52	13	13-0027	EA	8 Watt, 6 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N0806).....	93.20	15.15
				<i>For Wireguard, Add</i>	127.28	
26 52	13	13-0028	EA	12 Watt, 6 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1206).....	96.33	15.15
				<i>For Wireguard, Add</i>	127.28	
26 52	13	13-0029	EA	8 Watt, 12 Volt, Thermoplastic Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA H0812).....	93.64	15.15
				<i>For Wireguard, Add</i>	127.28	
26 52	13	13-0030	EA	12 Watt, 12 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1212)	94.15	15.15
				<i>For Wireguard, Add</i>	127.28	
26 52	13	13-0031	EA	12 Watt, 25 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N2512).....	96.33	15.15
				<i>For Wireguard, Add</i>	127.28	
26 52	13	13-0032	EA	12 Watt, 25 Volt, Aluminum Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA MT N2512).....	112.21	15.15
				<i>For Wireguard, Add</i>	127.28	
26 52	13	13-0033		Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights <small>(26 52 13 13-0017)</small>		
26 52	13	13-0034		Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights <small>(26 52 13 13-0033)</small> Note: Includes lead-calcium batteries and two adjustable lamp heads.		



Electrical	26
Lighting	26 50
Safety Lighting	26 52

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52	13	13-0035	EA 18 Max Wattage At 90 Minutes, 6 Volt, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND618)	308.62	25.25
			<i>For Wireguard, Add</i>	153.35	
			<i>For Self-Diagnostics, Add</i>	105.50	
26 52	13	13-0036	EA 36 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND1236)	335.19	25.25
			<i>For Wireguard, Add</i>	153.35	
			<i>For Self-Diagnostics, Add</i>	105.50	
26 52	13	13-0037	EA 54 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND654)	327.91	25.25
			<i>For Wireguard, Add</i>	153.35	
			<i>For Self-Diagnostics, Add</i>	105.50	
26 52	13	13-0038	EA 54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND1254)	346.48	25.25
			<i>For Wireguard, Add</i>	153.35	
			<i>For Self-Diagnostics, Add</i>	105.50	
26 52	13	13-0039	EA 100 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND12100)	581.67	25.25
			<i>For Wireguard, Add</i>	153.35	
			<i>For Self-Diagnostics, Add</i>	105.50	
26 52	13	13-0040	EA 18 Max Wattage At 90 Minutes, 6 Volt, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX618)	457.52	25.25
			<i>For Wireguard, Add</i>	153.35	
			<i>For Self-Diagnostics, Add</i>	61.50	
26 52	13	13-0041	EA 36 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX1236)	512.13	25.25
			<i>For Wireguard, Add</i>	153.35	
			<i>For Self-Diagnostics, Add</i>	61.50	
26 52	13	13-0042	EA 54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX1254)	539.80	25.25
			<i>For Wireguard, Add</i>	153.35	
			<i>For Self-Diagnostics, Add</i>	61.50	
26 52	13	13-0043	Remote Heads For Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights <small>(26 52 13 13-0033)</small>		
			Note: For use with fixtures that have remote capability.		
26 52	13	13-0044	EA 9 Watt, 6 Volt, Heavyweight Polycarbonate Housing, Krypton Lamp, Emergency Light Remote Head (Lithonia ELA IND K0906)	81.19	15.15
26 52	13	13-0045	EA 12 Watt, 6 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H1206)	87.52	15.15
26 52	13	13-0046	EA 9 Watt, 12 Volt, Heavyweight Polycarbonate Housing, Krypton Lamp, Emergency Light Remote Head (Lithonia ELA IND K0912)	81.26	15.15
26 52	13	13-0047	EA 12 Watt, 12 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H1212)	85.92	15.15
26 52	13	13-0048	EA 12 Watt, 20 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H2012)	73.95	15.15
26 52	13	13-0049	Outdoor Emergency Lights <small>(26 52 13 13)</small>		
26 52	13	13-0050	Gasketed Die-Cast Aluminum Housing, Outdoor Emergency Lights <small>(26 52 13 13-0049)</small>		
			Note: Includes nickel-cadmium batteries.		
26 52	13	13-0051	EA 10 Max Wattage At 90 Minutes, LED Lamps, Gasketed Aluminum Die-Cast Housing, Outdoor Emergency Light (Dual-Lite PG Series)	484.10	25.25
26 52	13	13-0052	EA 10 Max Wattage At 90 Minutes, LED Lamps, Gasketed Aluminum Die-Cast Housing, Outdoor Emergency Light With Heater (Dual-Lite PG Series)	576.94	25.25
26 52	13	13-0053	Recessed Emergency Lights <small>(26 52 13 13)</small>		
26 52	13	13-0054	EA 10 Watt At 90 Minutes, 6 Volt, Halogen Lamp, 8" Round, Recessed High-Hat Emergency Light (Lithonia ELRG)	526.91	25.25
			<i>For Wire Guard, Add</i>	60.00	
26 52	13	13-0055	EA 16 Max Wattage At 90 Minutes, 6 Volt, 12" x 12" Polycarbonate Housing, Glass Sealed-Beam Lamps, Recessed Emergency Light (Lithonia ELR2)	421.53	50.49
			Note: Includes lead-calcium batteries and two adjustable lamp heads.		
			<i>For Wireguard, Add</i>	167.98	
26 52	13	13-0056	EA 50 Max Wattage At 90 Minutes, 12 Volt, 12" x 12" Polycarbonate Housing, Glass Sealed-Beam Lamps, Recessed Emergency Light (Lithonia ELR4)	601.46	50.49
			Note: Includes lead-calcium batteries and two adjustable lamp heads.		
			<i>For Wireguard, Add</i>	167.98	
26 52	13	13-0057	Square Wraparound Emergency Lights <small>(26 52 13 13)</small>		
26 52	13	13-0058	EA 10 Max Wattage At 90 Minutes, 6 Volt, Halogen Lamp, 10-5/16" x 10-5/16" Lexan Frame, Square Wraparound Emergency Light (Lithonia ELSQ)	243.12	25.25
26 52	13	16	Exit Signs <small>(26 52 13)</small>		
			Note: Excludes pendants.		
26 52	13	16-0001	LED Exit Signs <small>(26 52 13 16)</small>		
			Note: Includes red LED lamps.		

26 Electrical
26 50 Lighting
26 52 Safety Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 16-0002 EA Single Face, Thermoplastic Housing, LED Exit Sign (Lithonia LQM).....	147.55	36.91
<i>For Green LED Lamps, Add</i>	15.00	
<i>For >50 To 100, Deduct</i>	-5.53	
<i>For >100 To 250, Deduct</i>	-9.22	
<i>For >250 To 500, Deduct</i>	-14.76	
<i>For >500, Deduct</i>	-20.29	
26 52 13 16-0003 EA Double Face, Thermoplastic Housing, LED Exit Sign (Lithonia LQM).....	147.55	36.91
<i>For Green LED Lamps, Add</i>	15.00	
<i>For >50 To 100, Deduct</i>	-5.53	
<i>For >100 To 250, Deduct</i>	-9.22	
<i>For >250 To 500, Deduct</i>	-14.76	
<i>For >500, Deduct</i>	-20.29	
26 52 13 16-0004 EA Single Face, Thermoplastic Housing, LED Exit Sign With Battery Back-Up (Lithonia LQM ELN).....	202.70	36.91
<i>For Green LED Lamps, Add</i>	15.00	
<i>For Self-Diagnostics, Add</i>	50.00	
<i>For >50 To 100, Deduct</i>	-6.91	
<i>For >100 To 250, Deduct</i>	-11.98	
<i>For >250 To 500, Deduct</i>	-20.27	
<i>For >500, Deduct</i>	-28.56	
26 52 13 16-0005 EA Double Face, Thermoplastic Housing, LED Exit Sign With Battery Back-Up (Lithonia LQM ELN).....	202.70	36.91
<i>For Green LED Lamps, Add</i>	15.00	
<i>For Self-Diagnostics, Add</i>	50.00	
<i>For >50 To 100, Deduct</i>	-6.91	
<i>For >100 To 250, Deduct</i>	-11.98	
<i>For >250 To 500, Deduct</i>	-20.27	
<i>For >500, Deduct</i>	-28.56	
26 52 13 16-0006 EA Single Face, Die-Cast Aluminum Housing, LED Exit Sign (Lithonia LQC).....	222.40	36.91
<i>For Green LED Lamps, Add</i>	15.00	
<i>For >50 To 100, Deduct</i>	-7.41	
<i>For >100 To 250, Deduct</i>	-12.97	
<i>For >250 To 500, Deduct</i>	-22.24	
<i>For >500, Deduct</i>	-31.51	
26 52 13 16-0007 EA Double Face, Die-Cast Aluminum Housing, LED Exit Sign (Lithonia LQC).....	251.15	36.91
<i>For Green LED Lamps, Add</i>	15.00	
<i>For >50 To 100, Deduct</i>	-8.12	
<i>For >100 To 250, Deduct</i>	-14.40	
<i>For >250 To 500, Deduct</i>	-25.12	
<i>For >500, Deduct</i>	-35.83	
26 52 13 16-0008 EA Single Face, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LQC ELN).....	210.39	36.91
<i>For Green LED Lamps, Add</i>	15.00	
<i>For Self-Diagnostics, Add</i>	50.00	
<i>For >50 To 100, Deduct</i>	-7.11	
<i>For >100 To 250, Deduct</i>	-12.37	
<i>For >250 To 500, Deduct</i>	-21.04	
<i>For >500, Deduct</i>	-29.71	
26 52 13 16-0009 EA Double Face, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LQC ELN).....	231.25	36.91
<i>For Green LED Lamps, Add</i>	15.00	
<i>For Self-Diagnostics, Add</i>	50.00	
<i>For >50 To 100, Deduct</i>	-7.63	
<i>For >100 To 250, Deduct</i>	-13.41	
<i>For >250 To 500, Deduct</i>	-23.13	
<i>For >500, Deduct</i>	-32.84	
26 52 13 16-0010 EA Single Face, Thermoplastic Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Lithonia LHQM).....	268.47	36.91
Note: Includes two circular side mounted krypton emergency lights.		
<i>For Green LED Lamps, Add</i>	15.00	
<i>For >50 To 100, Deduct</i>	-9.24	
<i>For >100 To 250, Deduct</i>	-15.95	
<i>For >250 To 500, Deduct</i>	-26.85	
<i>For >500, Deduct</i>	-37.75	
26 52 13 16-0011 EA Single Face, Thermoplastic Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Lithonia LHQM LED).....	277.48	36.91
Note: Includes two circular side mounted LED emergency lights.		
<i>For Green LED Lamps, Add</i>	15.00	
<i>For >50 To 100, Deduct</i>	-9.46	
<i>For >100 To 250, Deduct</i>	-16.40	
<i>For >250 To 500, Deduct</i>	-27.75	
<i>For >500, Deduct</i>	-39.10	
26 52 13 16-0012 EA Single Face, Powder Coated Steel Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Big Beam COM-PH).....	333.74	36.91
Note: Includes two rectangular front mounted high intensity tungsten emergency lights.		
<i>For Green LED Lamps, Add</i>	15.00	
<i>For >50 To 100, Deduct</i>	-10.87	
<i>For >100 To 250, Deduct</i>	-19.21	
<i>For >250 To 500, Deduct</i>	-33.37	
<i>For >500, Deduct</i>	-47.54	
26 52 13 16-0013 EA Single Face, Powder Coated Steel Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Big Beam COM).....	348.89	36.91
Note: Includes two circular side mounted PAR 36 emergency lights.		
<i>For Green LED Lamps, Add</i>	15.00	
<i>For >50 To 100, Deduct</i>	-11.25	
<i>For >100 To 250, Deduct</i>	-19.97	
<i>For >250 To 500, Deduct</i>	-34.89	
<i>For >500, Deduct</i>	-49.81	



Electrical	26	26
Lighting	26 50	
Safety Lighting	26 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52	13	16-0014	EA Single Or Double Face, Polycarbonate Housing, LED Emergency Exit Sign (Eaton Lighting APX6R).....	101.10	36.91
			For >50 To 100, Deduct	-4.37	
			For >100 To 250, Deduct	-6.90	
			For >250 To 500, Deduct	-10.11	
			For >500, Deduct	-13.32	
26 52	13	16-0015	EA 120-277 Volt, LED Emergency Exit Sign With Nickel Cadmium Battery, Red (Cooper Industries APX7R).....	101.45	36.96
			For >50 To 100, Deduct	-4.38	
			For >100 To 250, Deduct	-6.92	
			For >250 To 500, Deduct	-10.15	
			For >500, Deduct	-13.37	
26 52	13	16-0016	Edge-Lit LED Exit Signs <small>(26 52 13 16)</small>		
			Note: Includes red LED lamps.		
26 52	13	16-0017	EA Single Face, Edge-Lit LED Exit Sign.....	306.70	36.91
			For Green LED Lamps, Add	40.00	
			For >50 To 100, Deduct	-9.51	
			For >100 To 250, Deduct	-17.18	
			For >250 To 500, Deduct	-30.67	
			For >500, Deduct	-44.16	
26 52	13	16-0018	EA Double Face, Edge-Lit LED Exit Sign	328.61	36.91
			For Green LED Lamps, Add	40.00	
			For >50 To 100, Deduct	-10.06	
			For >100 To 250, Deduct	-18.28	
			For >250 To 500, Deduct	-32.86	
			For >500, Deduct	-47.45	
26 52	13	16-0019	EA Single Face, Edge-Lit LED Exit Sign With Battery Back-Up.....	374.34	36.91
			For Green LED Lamps, Add	40.00	
			For Self-Diagnostics, Add	50.00	
			For >50 To 100, Deduct	-11.20	
			For >100 To 250, Deduct	-20.56	
			For >250 To 500, Deduct	-37.43	
			For >500, Deduct	-54.31	
26 52	13	16-0020	EA Double Face, Edge-Lit LED Exit Sign With Battery Back-Up	390.48	36.91
			For Green LED Lamps, Add	40.00	
			For Self-Diagnostics, Add	50.00	
			For >50 To 100, Deduct	-11.61	
			For >100 To 250, Deduct	-21.37	
			For >250 To 500, Deduct	-39.05	
			For >500, Deduct	-56.73	
26 52	13	16-0021	Self-Luminous Tritium Exit Signs <small>(26 52 13 16)</small>		
			Note: Includes red or green tritium filled pyrex glass light tubes with phosphor coating.		
26 52	13	16-0022	EA 10 Year, Single Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign	414.59	36.91
			For >50 To 100, Deduct	-12.21	
			For >100 To 250, Deduct	-22.58	
			For >250 To 500, Deduct	-41.46	
			For >500, Deduct	-60.34	
26 52	13	16-0023	EA 10 Year, Double Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign	755.00	36.91
			For >50 To 100, Deduct	-20.72	
			For >100 To 250, Deduct	-39.60	
			For >250 To 500, Deduct	-75.50	
			For >500, Deduct	-111.40	
26 52	13	16-0024	EA 20 Year, Single Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign	492.14	36.91
			For >50 To 100, Deduct	-14.15	
			For >100 To 250, Deduct	-26.45	
			For >250 To 500, Deduct	-49.21	
			For >500, Deduct	-71.98	
26 52	13	16-0025	EA 20 Year, Double Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign	817.26	36.91
			For >50 To 100, Deduct	-22.28	
			For >100 To 250, Deduct	-42.71	
			For >250 To 500, Deduct	-81.73	
			For >500, Deduct	-120.74	
26 52	13	16-0026	EA 10 Year, Single Face, Aluminum Housing, Self-Luminous Tritium Exit Sign	453.18	36.91
			For >50 To 100, Deduct	-13.18	
			For >100 To 250, Deduct	-24.50	
			For >250 To 500, Deduct	-45.32	
			For >500, Deduct	-66.13	
26 52	13	16-0027	EA 10 Year, Double Face, Aluminum Housing, Self-Luminous Tritium Exit Sign	817.26	36.91
			For >50 To 100, Deduct	-22.28	
			For >100 To 250, Deduct	-42.71	
			For >250 To 500, Deduct	-81.73	
			For >500, Deduct	-120.74	
26 52	13	16-0028	EA 20 Year, Single Face, Aluminum Housing, Self-Luminous Tritium Exit Sign	554.03	36.91
			For >50 To 100, Deduct	-15.70	
			For >100 To 250, Deduct	-29.55	
			For >250 To 500, Deduct	-55.40	
			For >500, Deduct	-81.26	
26 52	13	16-0029	EA 20 Year, Double Face, Aluminum Housing, Self-Luminous Tritium Exit Sign	1,012.40	36.91
			For >50 To 100, Deduct	-27.16	
			For >100 To 250, Deduct	-52.47	
			For >250 To 500, Deduct	-101.24	
			For >500, Deduct	-150.01	

26	26 Electrical
	26 50 Lighting
	26 52 Safety Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 16-0030 Vandal-Resistant LED Exit Signs (26 52 13 16) Note: Includes red LED lamps.		
26 52 13 16-0031 EA Single Face, Aluminum Housing, Vandal-Resistant/Wet Location, LED Exit Sign.....	391.66	36.91
For >50 To 100, Deduct	-11.64	
For >100 To 250, Deduct	-21.43	
For >250 To 500, Deduct	-39.17	
For >500, Deduct	-56.90	
26 52 13 16-0032 EA Single Face, Aluminum Housing, Vandal-Resistant/Wet Location, LED Exit Sign With Battery Backup.....	602.45	36.91
For >50 To 100, Deduct	-16.91	
For >100 To 250, Deduct	-31.97	
For >250 To 500, Deduct	-60.25	
For >500, Deduct	-88.52	
26 52 13 16-0033 EA Single Face, Aluminum Housing, NEMA 4X, Vandal-Resistant/Wet Location, LED Exit Sign With Battery Backup.....	731.70	36.91
For >50 To 100, Deduct	-20.14	
For >100 To 250, Deduct	-38.43	
For >250 To 500, Deduct	-73.17	
For >500, Deduct	-107.91	
 26 52 13 16-0034 Removal And Reinstallation Of Exit Light Fixture (26 52 13 16)		
26 52 13 16-0035 EA Removal And Reinstall Of Exit Light Fixtures.....	75.74	
Note: Includes storage and cleaning.		
For >50 To 100, Deduct	-3.79	
For >100 To 250, Deduct	-5.68	
For >250 To 500, Deduct	-7.57	
For >500, Deduct	-9.47	
 26 52 13 16-0036 Exit Sign Accessories (26 52 13 16)		
26 52 13 16-0037 EA Polycarbonate Vandal Shield For Exit Signs.....	93.03	10.12
For >50 To 100, Deduct	-2.83	
For >100 To 250, Deduct	-5.16	
For >250 To 500, Deduct	-9.30	
For >500, Deduct	-13.45	
26 52 13 16-0038 EA Wire Guard For Exit Signs Or Emergency Lights.....	55.39	10.12
For >50 To 100, Deduct	-1.89	
For >100 To 250, Deduct	-3.28	
For >250 To 500, Deduct	-5.54	
For >500, Deduct	-7.80	
26 52 13 16-0039 EA Removal And Replacement Of Battery For Exit Signs.....	93.66	
For >50 To 100, Deduct	-2.97	
For >100 To 250, Deduct	-5.32	
For >250 To 500, Deduct	-9.37	
For >500, Deduct	-13.42	
 26 55 Special Purpose Lighting (26 55)		
26 55 13 Landscape Lighting (26 55)		
26 55 13 00-0001 Bollards (26 55 13) Note: Excludes concrete base.		
26 55 13 00-0002 Aluminum Architectural Bollards (26 55 13 00-0001)		
26 55 13 00-0003 High Pressure Sodium, Aluminum Architectural Bollards (26 55 13 00-0002)		
26 55 13 00-0004 Square, High Pressure Sodium, Aluminum Architectural Bollards (26 55 13 00-0003)		
26 55 13 00-0005 EA 24" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,122.56	85.84
26 55 13 00-0006 EA 30" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,132.65	90.88
26 55 13 00-0007 EA 36" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,142.76	95.93
26 55 13 00-0008 EA 42" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,061.04	100.98
26 55 13 00-0009 EA 24" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,122.56	85.84
26 55 13 00-0010 EA 30" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,132.65	90.88
26 55 13 00-0011 EA 36" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,142.76	95.93
26 55 13 00-0012 EA 42" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,061.04	100.98
26 55 13 00-0013 EA 24" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,122.56	85.84
26 55 13 00-0014 EA 30" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,132.65	90.88
26 55 13 00-0015 EA 36" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,142.76	95.93
26 55 13 00-0016 EA 42" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,061.04	100.98
26 55 13 00-0017 EA 24" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,122.56	85.84
26 55 13 00-0018 EA 30" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,132.65	90.88
26 55 13 00-0019 EA 36" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,142.76	95.93
26 55 13 00-0020 EA 42" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,061.04	100.98
 26 55 13 00-0021 Round, High Pressure Sodium, Aluminum Architectural Bollards (26 55 13 00-0003)		
26 55 13 00-0022 EA 24" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,080.40	85.84
26 55 13 00-0023 EA 30" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,090.49	90.88
26 55 13 00-0024 EA 36" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,100.60	95.93
26 55 13 00-0025 EA 42" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,018.49	100.98
26 55 13 00-0026 EA 24" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,080.40	85.84
26 55 13 00-0027 EA 30" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,090.49	90.88
26 55 13 00-0028 EA 36" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,100.60	95.93



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 13 00-0029 EA 42" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,018.49	100.98
26 55 13 00-0030 EA 24" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,080.40	85.84
26 55 13 00-0031 EA 30" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,090.49	90.88
26 55 13 00-0032 EA 36" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,100.60	95.93
26 55 13 00-0033 EA 42" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,018.49	100.98
26 55 13 00-0034 EA 24" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,080.40	85.84
26 55 13 00-0035 EA 30" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,090.49	90.88
26 55 13 00-0036 EA 36" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,100.60	95.93
26 55 13 00-0037 EA 42" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,018.49	100.98
26 55 13 00-0038 Metal Halide, Aluminum Architectural Bollards (26 55 13 00-0002)		
26 55 13 00-0039 Square, Metal Halide, Aluminum Architectural Bollards (26 55 13 00-0038)		
26 55 13 00-0040 EA 24" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,177.31	85.84
26 55 13 00-0041 EA 30" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,187.40	90.88
26 55 13 00-0042 EA 36" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,197.51	95.93
26 55 13 00-0043 EA 42" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,115.40	100.98
26 55 13 00-0044 EA 24" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,177.31	85.84
26 55 13 00-0045 EA 30" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,187.40	90.88
26 55 13 00-0046 EA 36" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,197.51	95.93
26 55 13 00-0047 EA 42" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,115.40	100.98
26 55 13 00-0048 EA 24" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,177.31	85.84
26 55 13 00-0049 EA 30" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,187.40	90.88
26 55 13 00-0050 EA 36" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,197.51	95.93
26 55 13 00-0051 EA 42" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,161.22	100.98
26 55 13 00-0052 Round, Metal Halide, Aluminum Architectural Bollards (26 55 13 00-0038)		
26 55 13 00-0053 EA 24" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,134.76	85.84
26 55 13 00-0054 EA 30" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,144.85	90.88
26 55 13 00-0055 EA 36" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,154.96	95.93
26 55 13 00-0056 EA 42" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,072.85	100.98
26 55 13 00-0057 EA 24" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,134.76	85.84
26 55 13 00-0058 EA 30" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,144.85	90.88
26 55 13 00-0059 EA 36" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,154.96	95.93
26 55 13 00-0060 EA 42" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,072.85	100.98
26 55 13 00-0061 EA 24" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,134.76	85.84
26 55 13 00-0062 EA 30" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,144.85	90.88
26 55 13 00-0063 EA 36" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,154.96	95.93
26 55 13 00-0064 EA 42" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,072.85	100.98
26 55 13 00-0065 Compact Fluorescent, Aluminum Architectural Bollards (26 55 13 00-0002)		
26 55 13 00-0066 Square, Compact Fluorescent, Aluminum Architectural Bollards (26 55 13 00-0065)		
26 55 13 00-0067 EA 24" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,117.76	85.84
26 55 13 00-0068 EA 30" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,127.85	90.88
26 55 13 00-0069 EA 36" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,137.96	95.93
26 55 13 00-0070 EA 42" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,057.10	100.98
26 55 13 00-0071 EA 24" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,117.76	85.84
26 55 13 00-0072 EA 30" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,127.85	90.88
26 55 13 00-0073 EA 36" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,137.96	95.93
26 55 13 00-0074 EA 42" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,057.10	100.98
26 55 13 00-0075 EA 24" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,117.76	85.84
26 55 13 00-0076 EA 30" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,127.85	90.88
26 55 13 00-0077 EA 36" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,137.96	95.93
26 55 13 00-0078 EA 42" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,057.10	100.98
26 55 13 00-0079 Round, Compact Fluorescent, Aluminum Architectural Bollards (26 55 13 00-0065)		
26 55 13 00-0080 EA 24" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,076.14	85.84
26 55 13 00-0081 EA 30" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,086.23	90.88
26 55 13 00-0082 EA 36" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,096.34	95.93
26 55 13 00-0083 EA 42" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,016.28	100.98
26 55 13 00-0084 EA 24" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,076.14	85.84
26 55 13 00-0085 EA 30" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,086.23	90.88
26 55 13 00-0086 EA 36" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,096.34	95.93
26 55 13 00-0087 EA 42" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,016.28	100.98
26 55 13 00-0088 EA 24" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,076.14	85.84
26 55 13 00-0089 EA 30" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,086.23	90.88
26 55 13 00-0090 EA 36" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,096.34	95.93
26 55 13 00-0091 EA 42" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,016.28	100.98
26 55 13 00-0092 LED, Aluminum Architectural Bollards (26 55 13 00-0002)		
26 55 13 00-0093 Square, LED, Aluminum Architectural Bollards (26 55 13 00-0092)		
26 55 13 00-0094 EA 24" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard	1,333.87	85.84
26 55 13 00-0095 EA 30" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard	1,343.96	90.88
26 55 13 00-0096 EA 36" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard	1,354.07	95.93

26	Electrical
26 50	Lighting
26 55	Special Purpose Lighting



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 55 13 00-0097	EA	42" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard.....		1,274.37	100.98
26 55 13 00-0098	EA	24" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard.....		1,623.62	85.84
26 55 13 00-0099	EA	30" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard.....		1,633.71	90.88
26 55 13 00-0100	EA	36" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard.....		1,643.82	95.93
26 55 13 00-0101	EA	42" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard.....		1,562.68	100.98
26 55 13 00-0102 Round, LED, Aluminum Architectural Bollards (26 55 13 00-0092)					
26 55 13 00-0103	EA	24" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....		1,290.65	85.84
26 55 13 00-0104	EA	30" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....		1,300.74	90.88
26 55 13 00-0105	EA	36" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....		1,310.85	95.93
26 55 13 00-0106	EA	42" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....		1,229.70	100.98
26 55 13 00-0107	EA	24" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....		1,580.40	85.84
26 55 13 00-0108	EA	30" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....		1,590.49	90.88
26 55 13 00-0109	EA	36" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....		1,600.60	95.93
26 55 13 00-0110	EA	42" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....		1,519.97	100.98
26 55 13 00-0111 Reinforced Concrete Bollards (26 55 13 00-0001)					
26 55 13 00-0112	EA	48" Overall Height, 12" Diameter, LED Light, Reinforced Concrete Bollard.....		1,157.28	252.45
26 55 13 00-0113	EA	58" Overall Height, 18" Diameter, High Intensity Discharge (HID) Light, Reinforced Concrete Bollard.....		2,005.46	336.57
26 55 13 00-0114 Low Voltage (26 55 13)					
26 55 13 00-0115	EA	Low Voltage Recessed Uplight.....		.617.00	183.79
26 55 13 00-0116	EA	Low Voltage Walkway.....		.426.85	100.98
26 55 13 00-0117	EA	Low Voltage Malibu - 5 Light Set.....		.433.18	134.81
26 55 13 00-0118	EA	Low Voltage Mushroom 24" Pier.....		.369.61	100.98
26 55 13 00-0119 Recessed, Adjustable (26 55 13)					
26 55 13 00-0120	EA	150 Watt Incandescent Recessed, Adjustable.....		.703.38	161.57
26 55 13 00-0121	EA	300 Watt Incandescent Recessed, Adjustable.....		.764.71	161.57
26 55 13 00-0122 Recessed, Uplight (26 55 13)					
26 55 13 00-0123	EA	50 Watt Incandescent Recessed Uplight.....		.633.87	161.57
26 55 13 00-0124	EA	150 Watt Incandescent Recessed Uplight.....		.646.14	161.57
26 55 13 00-0125	EA	300 Watt Incandescent Recessed Uplight.....		.682.94	161.57
26 55 13 00-0126	EA	500 Watt Quartz Recessed Uplight.....		.678.85	161.57
26 55 13 00-0127	EA	5 Watt, LED Recessed Uplight.....		.851.92	161.57
26 55 13 00-0128	EA	15 Watt, LED Recessed Uplight.....		.932.62	161.57
26 55 13 00-0129 Recessed Wall Light (26 55 13)					
26 55 13 00-0130	EA	100 Watt Incandescent Recessed Wall Light.....		.332.81	100.98
26 55 13 00-0131	EA	100 Watt Fluorescent Recessed Wall Light.....		.320.55	100.98
26 55 13 00-0132	EA	100 Watt High Intensity Discharge (HID) Recessed Wall Light.....		.510.87	134.81
26 55 13 00-0133 Step Lights (26 55 13)					
26 55 13 00-0134	EA	Incandescent Step Light.....		.271.92	80.78
26 55 13 00-0135	EA	Fluorescent Step Light.....		.312.86	80.78
26 55 13 00-0136	EA	5 Watt, LED Step Light.....		.465.55	80.78
26 55 13 00-0137	EA	15 Watt, LED Step Light.....		.551.63	80.78
26 55 13 00-0138 Tree Lights, Surface Adjustable (26 55 13)					
26 55 13 00-0139	EA	50 Watt Incandescent Tree Lights.....		.564.02	134.81
26 55 13 00-0140	EA	100 Watt Incandescent Tree Lights.....		.576.29	134.81
26 55 13 00-0141	EA	150 Watt Incandescent Tree Lights.....		.731.02	201.97
26 55 16 Walkway Lighting (26 55)					
26 55 16 00-0001 Incandescent Walkway (26 55 16)					
26 55 16 00-0002	EA	Post Top 300 Watt Incandescent Walkway Fixture.....		.383.25	93.91
26 55 16 00-0003 Metal Halide Walkway (26 55 16)					
26 55 16 00-0004	EA	Post Top 100 Watt Metal Halide Walkway Fixture.....		.588.44	147.63
26 55 16 00-0005	EA	Post Top 150-175 Watt Metal Halide Walkway Fixture.....		.624.69	152.99
26 55 16 00-0006	EA	Post Top 250 Watt Metal Halide Walkway Fixture.....		.676.49	158.84
26 55 16 00-0007	EA	Post Top 400 Watt Metal Halide Walkway Fixture.....		.723.67	171.67
26 55 16 00-0008	EA	Round Luminaries 100 Watt Metal Halide Walkway Fixture.....		.642.32	158.84
26 55 16 00-0009	EA	Round Luminaries 150-175 Watt Metal Halide Walkway Fixture.....		.654.20	147.63
26 55 16 00-0010	EA	Round Luminaries 250 Watt Metal Halide Walkway Fixture.....		.665.73	152.99
26 55 16 00-0011	EA	Spherical 100 Watt Metal Halide Walkway Fixture.....		.535.15	105.22
26 55 16 00-0012	EA	Spherical 150-175 Watt Metal Halide Walkway Fixture.....		.569.33	105.22



Electrical	26	26
Lighting	26 50	
Special Purpose Lighting	26 55	

MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
26 55 16 00-0013 EA Spherical 250 Watt Metal Halide Walkway Fixture.....	603.52	105.22
26 55 16 00-0014 EA Spherical 400 Watt Metal Halide Walkway Fixture.....	681.47	118.45
26 55 16 00-0015 EA Low Walkway 100 Watt Metal Halide Walkway Fixture.....	513.87	94.52
26 55 16 00-0016 High Pressure Sodium Walkway <small>(26 55 16)</small>		
26 55 16 00-0017 EA Post Top 100 Watt High Pressure Sodium Walkway Fixture.....	524.31	147.63
26 55 16 00-0018 EA Post Top 150-175 Watt High Pressure Sodium Walkway Fixture.....	554.98	152.99
26 55 16 00-0019 EA Post Top 250 Watt High Pressure Sodium Walkway Fixture.....	597.98	158.84
26 55 16 00-0020 EA Post Top 400 Watt High Pressure Sodium Walkway Fixture.....	640.50	171.67
26 55 16 00-0021 EA Round Luminaries 100 Watt High Pressure Sodium Walkway Fixture.....	571.27	158.84
26 55 16 00-0022 EA Round Luminaries 150-175 Watt High Pressure Sodium Walkway Fixture.....	575.69	147.63
26 55 16 00-0023 EA Round Luminaries 250 Watt High Pressure Sodium Walkway Fixture.....	587.04	152.99
26 55 16 00-0024 EA Spherical 100 Watt High Pressure Sodium Walkway Fixture.....	464.10	105.22
26 55 16 00-0025 EA Spherical 175 150-Watt High Pressure Sodium Walkway Fixture.....	490.81	105.22
26 55 16 00-0026 EA Spherical 250 Watt High Pressure Sodium Walkway Fixture.....	517.52	105.22
26 55 16 00-0027 EA Spherical 400 Watt High Pressure Sodium Walkway Fixture.....	584.25	118.45
26 55 16 00-0028 EA Low Walkway 100 Watt High Pressure Sodium Walkway Fixture.....	380.73	94.52
26 55 16 00-0029 Walkway, Adjustable <small>(26 55 16)</small>		
26 55 16 00-0030 EA 2' Fluorescent Adjustable Walkway Fixture.....	556.36	134.81
26 55 16 00-0031 EA 4' Fluorescent Adjustable Walkway Fixture.....	573.23	134.81
26 55 16 00-0032 EA 8' Fluorescent Adjustable Walkway Fixture.....	999.87	201.97
26 55 16 00-0033 EA 50 Watt Incandescent Adjustable Walkway Fixture.....	471.83	100.98
26 55 16 00-0034 EA 150 Watt Incandescent Adjustable Walkway Fixture.....	494.32	100.98
26 55 16 00-0035 LED Walkway <small>(26 55 16)</small>		
26 55 16 00-0036 LED Pathway Fixtures (CREE® BetaLED® Edge® PWY-EDG) <small>(26 55 16 00-0035)</small>		
<small>Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.</small>		
26 55 16 00-0037 EA 13" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	694.60	77.49
<small>For Multi-Level Drive Currents, Add</small>	<small>179.10</small>	
26 55 16 00-0038 EA 18" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	716.35	77.49
<small>For Multi-Level Drive Currents, Add</small>	<small>179.10</small>	
26 55 16 00-0039 EA 36" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	754.73	77.49
<small>For Multi-Level Drive Currents, Add</small>	<small>179.10</small>	
26 55 16 00-0040 EA 42" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	784.15	77.49
<small>For Multi-Level Drive Currents, Add</small>	<small>179.10</small>	
26 55 16 00-0041 EA 96" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	904.22	99.62
<small>For Multi-Level Drive Currents, Add</small>	<small>179.10</small>	
26 55 16 00-0042 Wall Mounted Walkway Lighting <small>(26 55 16 00-0035)</small>		
26 55 16 00-0043 EA Wall Mounted Lantern With LED Kit, No. PDEX-Bracket (Herwig P-492).....	3,134.84	
<small>Note: Type Fixture 17 as Post</small>		
26 55 16 00-0044 Pole Mounted Walkway Lighting <small>(26 55 16 00-0035)</small>		
26 55 16 00-0045 EA 43-1/2" Height x 19" Diameter, LED Post Lantern (Herwig AP-27).....	2,911.11	
26 55 16 00-0046 EA 12' Tapered and Fluted Post (Herwig BRA Series, BRAJ-12).....	2,859.16	
<small>Note: Washers and nuts included</small>		
26 55 29 Underwater Lighting <small>(26 55)</small>		
26 55 29 00-0001 Underwater Lights <small>(26 55 29)</small>		
26 55 29 00-0002 EA 150 Watt, 120 Volt Underwater Lights.....	449.16	67.15
26 55 29 00-0003 EA 300 Watt, 120 Volt Underwater Lights.....	498.22	67.15
26 55 29 00-0004 EA 1,000 Watt, 120 Volt Underwater Lights.....	1,203.73	100.98
26 55 29 00-0005 EA 50 Watt, 12 Volt Underwater Lights.....	469.60	67.15
26 55 29 00-0006 EA 300 Watt, 12 Volt Underwater Lights.....	526.85	67.15
26 55 29 00-0007 SET Under Water Fountain Fixture, Set Of 6, 300 Watt, Incandescent.....	1,345.32	151.47
26 55 53 Security Lighting <small>(26 55)</small>		
26 55 53 11 Security Flood Lighting <small>(26 55 53)</small>		
26 55 53 11-0001 General Electric Powerflood® Flood Lights <small>(26 55 53 11)</small>		
26 55 53 11-0002 MPF (Small Size) Series GE Flood Lights <small>(26 55 53 11-0001)</small>		
<small>Note: For perimeters, entrances, building facades and sign lighting. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. 1/2" threaded mounting knuckle.</small>		
26 55 53 11-0003 High Pressure Sodium MPF Series GE Flood Lights <small>(26 55 53 11-0002)</small>		
26 55 53 11-0004 EA 70 Watt High Pressure Sodium MPF Series GE Flood Light.....	293.02	86.77
26 55 53 11-0005 EA 100 Watt High Pressure Sodium MPF Series GE Flood Light.....	295.40	86.77
26 55 53 11-0006 EA 150 Watt High Pressure Sodium MPF Series GE Flood Light.....	299.39	86.77

26	26 Electrical
	26 50 Lighting
	26 55 Special Purpose Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0007 Metal Halide MPF Series GE Flood Lights <small>(26 55 53 11-0002)</small>		
26 55 53 11-0008 EA 70 Watt Metal Halide MPF Series GE Flood Light .....	.387.80	86.77
26 55 53 11-0009 P-154 (Small Size) Series GE Flood Lights <small>(26 55 53 11-0001)</small>		
Note: For parking lots, building security, building facades, recreation areas and sign lighting. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0010 High Pressure Sodium P-154 Series GE Flood Lights <small>(26 55 53 11-0009)</small>		
26 55 53 11-0011 EA 70 Watt High Pressure Sodium P-154 Series GE Flood Light .....	.574.67	115.70
26 55 53 11-0012 EA 100 Watt High Pressure Sodium P-154 Series GE Flood Light .....	.577.86	115.70
26 55 53 11-0013 EA 150 Watt High Pressure Sodium P-154 Series GE Flood Light .....	.583.43	115.70
26 55 53 11-0014 EA 250 Watt High Pressure Sodium P-154 Series GE Flood Light .....	.646.36	115.70
26 55 53 11-0015 EA 400 Watt High Pressure Sodium P-154 Series GE Flood Light .....	.664.68	115.70
26 55 53 11-0016 Metal Halide P-154 Series GE Flood Lights <small>(26 55 53 11-0009)</small>		
26 55 53 11-0017 EA 175 Watt Metal Halide P-154 Series GE Flood Light .....	.569.10	115.70
26 55 53 11-0018 EA 250 Watt Metal Halide P-154 Series GE Flood Light .....	.596.97	115.70
26 55 53 11-0019 EA 400 Watt Metal Halide P-154 Series GE Flood Light .....	.611.31	115.70
26 55 53 11-0020 PF-154 (Medium Size) Series GE Flood Lights <small>(26 55 53 11-0001)</small>		
Note: For parking lots, building security and building facades. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0021 High Pressure Sodium PF-154 Series GE Flood Lights <small>(26 55 53 11-0020)</small>		
26 55 53 11-0022 EA 70 Watt High Pressure Sodium PF-154 Series GE Flood Light .....	.590.06	130.15
26 55 53 11-0023 EA 100 Watt High Pressure Sodium PF-154 Series GE Flood Light .....	.594.04	130.15
26 55 53 11-0024 EA 150 Watt High Pressure Sodium PF-154 Series GE Flood Light .....	.600.42	130.15
26 55 53 11-0025 EA 250 Watt High Pressure Sodium PF-154 Series GE Flood Light .....	.662.54	130.15
26 55 53 11-0026 EA 400 Watt High Pressure Sodium PF-154 Series GE Flood Light .....	.680.07	130.15
26 55 53 11-0027 Metal Halide PF-154 GE Flood Lights <small>(26 55 53 11-0020)</small>		
26 55 53 11-0028 EA 175 Watt Metal Halide PF-154 Series GE Flood Light .....	.585.28	130.15
26 55 53 11-0029 EA 250 Watt Metal Halide PF-154 Series GE Flood Light .....	.612.36	130.15
26 55 53 11-0030 EA 400 Watt Metal Halide PF-154 Series GE Flood Light .....	.626.70	130.15
26 55 53 11-0031 PF-400 (Medium Size) Series GE Flood Lights <small>(26 55 53 11-0001)</small>		
Note: For parking lots, building security, building facades, shipping yards and rail yards. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Formed aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0032 High Pressure Sodium PF-400 Series GE Flood Lights <small>(26 55 53 11-0031)</small>		
26 55 53 11-0033 EA 150 Watt High Pressure Sodium PF-400 Series GE Flood Light .....	.778.03	130.15
26 55 53 11-0034 EA 200 Watt High Pressure Sodium PF-400 Series GE Flood Light .....	.833.79	130.15
26 55 53 11-0035 EA 250 Watt High Pressure Sodium PF-400 Series GE Flood Light .....	.829.81	130.15
26 55 53 11-0036 EA 400 Watt High Pressure Sodium PF-400 Series GE Flood Light .....	.849.72	130.15
26 55 53 11-0037 Metal Halide PF-400 GE Flood Lights <small>(26 55 53 11-0031)</small>		
26 55 53 11-0038 EA 175 Watt Metal Halide PF-400 Series GE Flood Light .....	.798.74	130.15
26 55 53 11-0039 EA 250 Watt Metal Halide PF-400 Series GE Flood Light .....	.815.47	130.15
26 55 53 11-0040 EA 400 Watt Metal Halide PF-400 Series GE Flood Light .....	.832.99	130.15
26 55 53 11-0041 PF-1000 (Large Size) Series GE Flood Lights <small>(26 55 53 11-0001)</small>		
Note: For parking lots, industrial yards and sports stadiums. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Formed aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0042 High Pressure Sodium PF-1000 Series GE Flood Lights <small>(26 55 53 11-0041)</small>		
26 55 53 11-0043 EA 750 Watt High Pressure Sodium PF-1000 Series GE Flood Light .....	.1,045.11	144.62
26 55 53 11-0044 EA 1,000 Watt High Pressure Sodium PF-1000 Series GE Flood Light .....	.1,045.11	144.62
26 55 53 11-0045 Metal Halide PF-1000 Series GE Flood Lights <small>(26 55 53 11-0041)</small>		
26 55 53 11-0046 EA 1,000 Watt Metal Halide PF-1000 Series GE Flood Light .....	.998.91	144.62
26 55 53 11-0047 HLU/MLU (Medium Size) FRP Series GE Flood Lights <small>(26 55 53 11-0001)</small>		
Note: For parking lots, industrial yards, construction sites, recreation areas and facades. Includes corrosion resistant reinforced polyester housing and thermal shock resistant lens. Hydroformed aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0048 High Pressure Sodium HLU/MLU FRP Series GE Flood Lights <small>(26 55 53 11-0047)</small>		



		Electrical	26
		Lighting	26 50
		Special Purpose Lighting	26 55

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53	11-0049	EA	250 Watt High Pressure Sodium HLU/VLU FRP Series GE Flood Light.....	854.50	130.15
26 55 53	11-0050	EA	400 Watt High Pressure Sodium HLU/VLU FRP Series GE Flood Light.....	869.63	130.15
26 55 53	11-0051		Metal Halide HLU/VLU Series GE Flood Lights <small>(26 55 53 11-0047)</small>		
26 55 53	11-0052	EA	400 Watt Metal Halide HLU/VLU FRP Series GE Flood Light.....	863.26	130.15
26 55 53	11-0053		Accessories For Powerflood GE Flood Lights <small>(26 55 53 11-0001)</small>		
26 55 53	11-0054	EA	Wireguard For Powerflood GE Flood Light.....	149.45	28.92
26 55 53	11-0055	EA	Polycarbonate Vandal Shield For Powerflood GE Flood Light.....	90.51	28.92
26 55 53	11-0056	EA	Top Visor For Powerflood Flood Light.....	127.15	28.92
26 55 53	11-0057	EA	Top And Two Side Visors For Powerflood GE Flood Light.....	99.27	28.92
26 55 53	11-0058	EA	Pipe Wall Mounting Bracket For Powerflood GE Flood Light.....	254.78	86.77
26 55 53	11-0059	EA	Multiple Mounting Channel For Powerflood GE Flood Light.....	108.03	28.92
26 55 53	11-0060	EA	Wall Or Flat Surface Bracket For Powerflood GE Flood Light.....	195.05	86.77
26 55 53	11-0061	EA	Steel Angle Bracket For Powerflood GE Flood Light.....	202.21	86.77
26 55 53	11-0062	EA	Cross Arm Adaptor For Powerflood GE Flood Light.....	83.34	28.92
26 55 53	11-0063	EA	120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Powerflood GE Flood Light.....	80.95	28.92
26 55 53	11-0064		Lithonia Contour Series Flood Lights <small>(26 55 53 11)</small>		
26 55 53	11-0065		TFM (Small Size) Series Lithonia Flood Lights <small>(26 55 53 11-0064)</small>		
			Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Faceted parabolic optics. 1/2" threaded mounting knuckle.		
26 55 53	11-0066		High Pressure Sodium TFM Series Lithonia Flood Lights <small>(26 55 53 11-0065)</small>		
26 55 53	11-0067	EA	70 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....	532.27	115.70
26 55 53	11-0068	EA	100 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....	578.26	115.70
26 55 53	11-0069	EA	150 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....	623.29	115.70
26 55 53	11-0070		Metal Halide TFM Series Lithonia Flood Lights <small>(26 55 53 11-0065)</small>		
26 55 53	11-0071	EA	50 Watt Metal Halide TFM Series Lithonia Flood Light.....	679.49	115.70
26 55 53	11-0072	EA	70 Watt Metal Halide TFM Series Lithonia Flood Light.....	668.42	115.70
26 55 53	11-0073	EA	100 Watt Metal Halide TFM Series Lithonia Flood Light.....	650.58	115.70
26 55 53	11-0074	EA	175 Watt Metal Halide TFM Series Lithonia Flood Light.....	649.26	115.70
26 55 53	11-0075		Compact Fluorescent TFM Series Lithonia Flood Lights <small>(26 55 53 11-0065)</small>		
26 55 53	11-0076	EA	42 Watt Compact Fluorescent TFM Series Lithonia Flood Light.....	674.90	115.70
26 55 53	11-0077		TFL (Medium Size) Series Lithonia Flood Lights <small>(26 55 53 11-0064)</small>		
			Note: For recreation areas, parking lots, building facades and car lots. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53	11-0078		High Pressure Sodium TFL Series Lithonia Flood Lights <small>(26 55 53 11-0077)</small>		
26 55 53	11-0079	EA	250 Watt High Pressure Sodium TFL Series Lithonia Flood Light.....	800.85	130.15
26 55 53	11-0080	EA	400 Watt High Pressure Sodium TFL Series Lithonia Flood Light.....	816.19	130.15
26 55 53	11-0081		Metal Halide TFL Series Lithonia Flood Lights <small>(26 55 53 11-0077)</small>		
26 55 53	11-0082	EA	175 Watt Metal Halide TFL Series Lithonia Flood Light.....	766.37	130.15
26 55 53	11-0083	EA	250 Watt Metal Halide TFL Series Lithonia Flood Light.....	766.37	130.15
26 55 53	11-0084	EA	400 Watt Metal Halide TFL Series Lithonia Flood Light.....	790.43	130.15
26 55 53	11-0085		TFR (Low Profile) Series Lithonia Flood Lights <small>(26 55 53 11-0064)</small>		
			Note: For recreation areas, parking lots, building facades and car lots. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53	11-0086		High Pressure Sodium TFR Lithonia Flood Lights <small>(26 55 53 11-0085)</small>		
26 55 53	11-0087	EA	150 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light.....	764.27	115.70
26 55 53	11-0088	EA	250 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light.....	787.23	115.70
26 55 53	11-0089	EA	400 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light.....	806.41	115.70
26 55 53	11-0090		Metal Halide TFR Lithonia Flood Lights <small>(26 55 53 11-0085)</small>		
26 55 53	11-0091	EA	250 Watt Metal Halide TFR Series Lithonia Flood Light.....	756.59	115.70
26 55 53	11-0092	EA	400 Watt Metal Halide TFR Series Lithonia Flood Light.....	779.58	115.70
26 55 53	11-0093		TFA (Large Size) Series Lithonia Flood Lights <small>(26 55 53 11-0064)</small>		
			Note: For industrial yards, parking lots, construction sites, streets and recreational areas. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 55 53 11-0094	High Pressure Sodium TFA Series Lithonia Flood Lights (26 55 53 11-0093)		
26 55 53 11-0095	EA 1,000 Watt High Pressure Sodium TFA Series Lithonia Flood Light.....	1,458.30	144.62
26 55 53 11-0096	Metal Halide TFA Series Lithonia Flood Lights (26 55 53 11-0093)		
26 55 53 11-0097	EA 400 Watt Metal Halide TFA Series Lithonia Flood Light.....	1,132.48	144.62
26 55 53 11-0098	EA 1,000 Watt Metal Halide TFA Series Lithonia Flood Light.....	1,247.47	144.62
26 55 53 11-0099	Accessories For Contour Series Lithonia Flood Lights (26 55 53 11-0064)		
26 55 53 11-0100	EA Wireguard For Contour Series Lithonia Flood Light.....	130.12	28.92
26 55 53 11-0101	EA Vandal Guard For Contour Series Lithonia Flood Light.....	242.99	28.92
26 55 53 11-0102	EA Upper Visor For Contour Series Lithonia Flood Light.....	108.83	28.92
26 55 53 11-0103	EA Full Visor For Contour Series Lithonia Flood Light.....	143.31	28.92
26 55 53 11-0104	EA Pipe Wall Mounting Bracket For Contour Series Lithonia Flood Light.....	326.83	86.77
26 55 53 11-0105	EA Radius Wall Bracket For Contour Series Lithonia Flood Light.....	265.81	86.77
26 55 53 11-0106	EA Steel Angle Bracket For Contour Series Lithonia Flood Light.....	265.81	86.77
26 55 53 11-0107	EA U Bolt Wall Bracket For Contour Series Lithonia Flood Light, Mounts To 2" Pipe.....	290.15	86.77
26 55 53 11-0108	EA Crossarm Adapter For Horizontal Mounted Contour Lithonia Series Flood Light.....	124.88	28.92
26 55 53 11-0109	EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Contour Lithonia Series Flood Light.....	101.50	28.92
26 55 53 11-0110	Eaton Flood Lights (26 55 53 11)		
26 55 53 11-0111	EA 6" x 6", 16,932 Lumens, 128 Watt, LED Flood Light (Eaton NFFLD-C40-D-UNV-66-T-CB).....	816.32	115.70
	For NEMA Photocontrol Option (Eaton OA/RA1016), Add	41.28	
	For >50 To 100, Deduct	-26.19	
	For >100 To 250, Deduct	-46.60	
	For >250 To 500, Deduct	-81.63	
	For >500, Deduct	-116.66	
26 55 53 11-0112	EA 16,900 Lumens, 128 Watt, NEMA 6H x 6V Wide, Trunnion Mount, 4000K CCT, Night Falcon LED Flood Light With Multi-Tap (Cooper Industries NFFLD-C40-D-UNV-66-T-CB-PER7+OA/RA1016).....	1,008.13	126.63
	For >50 To 100, Deduct	-31.53	
	For >100 To 250, Deduct	-56.74	
	For >250 To 500, Deduct	-100.81	
	For >500, Deduct	-144.89	
26 55 53 11-0113	Ruud Flood Lights (26 55 53 11)		
26 55 53 11-0114	NS (Micro) Series Ruud Flood Lights (26 55 53 11-0113) Note: Provides conventional floodlighting. 1/2" threaded mounting knuckle.		
26 55 53 11-0115	High Pressure Sodium NS Series Ruud Flood Lights (26 55 53 11-0114)		
26 55 53 11-0116	EA 35 Watt High Pressure Sodium NS Series Ruud Flood Light.....	353.55	86.77
26 55 53 11-0117	EA 50 Watt High Pressure Sodium NS Series Ruud Flood Light.....	353.55	86.77
26 55 53 11-0118	EA 70 Watt High Pressure Sodium NS Series Ruud Flood Light.....	353.55	86.77
26 55 53 11-0119	EA 100 Watt High Pressure Sodium NS Series Ruud Flood Light.....	353.55	86.77
26 55 53 11-0120	EA 150 Watt High Pressure Sodium NS Series Ruud Flood Light.....	353.55	86.77
26 55 53 11-0121	Metal Halide NS Series Ruud Flood Lights (26 55 53 11-0114)		
26 55 53 11-0122	EA 50 Watt Metal Halide NS Series Ruud Flood Light.....	398.15	86.77
26 55 53 11-0123	EA 70 Watt Metal Halide NS Series Ruud Flood Light.....	398.15	86.77
26 55 53 11-0124	EA 100 Watt Metal Halide NS Series Ruud Flood Light.....	398.15	86.77
26 55 53 11-0125	Compact Fluorescent NS Series Ruud Flood Lights (26 55 53 11-0114)		
26 55 53 11-0126	EA 13 Watt Compact Fluorescent NS Series Ruud Flood Light.....	307.35	86.77
26 55 53 11-0127	EA 26 Watt Compact Fluorescent NS Series Ruud Flood Light.....	318.50	86.77
26 55 53 11-0128	EA 32 Watt Compact Fluorescent NS Series Ruud Flood Light.....	321.69	86.77
26 55 53 11-0129	EA 42 Watt Compact Fluorescent NS Series Ruud Flood Light.....	324.88	86.77
26 55 53 11-0130	NSF/NSW/NSC (Standard, Wide And Cutoff Micro) Series Ruud Flood Lights (26 55 53 11-0113) Note: The NSF is suited for large open areas and facade applications. The NSW is suited for roadway applications, parking areas or security. The NSC is designed for parking lot and outdoor sports areas. Yoke or slip fitter mounting.		
26 55 53 11-0131	High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Lights (26 55 53 11-0130)		
26 55 53 11-0132	EA 150 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light.....	543.86	130.15
26 55 53 11-0133	EA 250 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light.....	572.54	130.15
26 55 53 11-0134	EA 400 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light.....	588.47	130.15
26 55 53 11-0135	Metal Halide NSF/NSW/NSC Series Ruud Flood Lights (26 55 53 11-0130)		
26 55 53 11-0136	EA 175 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light.....	537.49	130.15
26 55 53 11-0137	EA 250 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light.....	540.68	130.15
26 55 53 11-0138	EA 400 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light.....	550.24	130.15



Electrical 26			26
Lighting 26 50			
Special Purpose Lighting 26 55			

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0139 Compact Fluorescent NSF/NSW/NSC Series Ruud Flood Lights (26 55 53 11-0130)		
26 55 53 11-0140 EA 70 Watt Compact Fluorescent NSF/NSW/NSC Series Ruud Flood Light	526.34	130.15
26 55 53 11-0141 FS (Square) Series Ruud Flood Lights (26 55 53 11-0113)		
Note: For signs, large open areas and façade applications. Yoke or slip fitter mounting.		
26 55 53 11-0142 High Pressure Sodium FS Series Ruud Flood Lights (26 55 53 11-0141)		
26 55 53 11-0143 EA 250 Watt High Pressure Sodium FS Series Ruud Flood Light.....	628.29	130.15
26 55 53 11-0144 EA 400 Watt High Pressure Sodium FS Series Ruud Flood Light.....	631.48	130.15
26 55 53 11-0145 EA 1,000 Watt High Pressure Sodium FS Series Ruud Flood Light.....	1,045.91	144.62
26 55 53 11-0146 Metal Halide FS Series Ruud Flood Lights (26 55 53 11-0141)		
26 55 53 11-0147 EA 175 Watt Metal Halide FS Series Ruud Flood Light.....	628.29	130.15
26 55 53 11-0148 EA 250 Watt Metal Halide FS Series Ruud Flood Light.....	631.48	130.15
26 55 53 11-0149 EA 400 Watt Metal Halide FS Series Ruud Flood Light.....	641.04	130.15
26 55 53 11-0150 EA 1,000 Watt Metal Halide FS Series Ruud Flood Light.....	940.77	144.62
26 55 53 11-0151 MFS (Mini Square) Series Ruud Flood Lights (26 55 53 11-0113)		
Note: For signs, large open areas and façade applications. Yoke or slip fitter mounting.		
26 55 53 11-0152 High Pressure Sodium MFS Series Ruud Flood Lights (26 55 53 11-0151)		
26 55 53 11-0153 EA 35 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	497.41	115.70
26 55 53 11-0154 EA 50 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	530.86	115.70
26 55 53 11-0155 EA 70 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	530.86	115.70
26 55 53 11-0156 EA 100 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	530.86	115.70
26 55 53 11-0157 EA 150 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	530.86	115.70
26 55 53 11-0158 Metal Halide MFS Series Ruud Flood Lights (26 55 53 11-0151)		
26 55 53 11-0159 EA 50 Watt Metal Halide MFS Series Ruud Flood Light.....	542.02	115.70
26 55 53 11-0160 EA 70 Watt Metal Halide MFS Series Ruud Flood Light.....	542.02	115.70
26 55 53 11-0161 EA 100 Watt Metal Halide MFS Series Ruud Flood Light.....	542.02	115.70
26 55 53 11-0162 EA 175 Watt Metal Halide MFS Series Ruud Flood Light.....	524.49	115.70
26 55 53 11-0163 MCF/MPM/MPN (Mini Cutoff. Parabolic Medium And Narrow Mini Square)		
Series Ruud Flood Lights (26 55 53 11-0113)		
Note: The MCF is suited for parking lots, volleyball courts and tennis courts. The MPM and MPN are suited for flagpoles, columns and narrow signs. Yoke or slip fitter mounting.		
26 55 53 11-0164 High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Lights (26 55 53 11-0163)		
26 55 53 11-0165 EA 35 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	537.24	115.70
26 55 53 11-0166 EA 50 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	570.69	115.70
26 55 53 11-0167 EA 70 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	570.69	115.70
26 55 53 11-0168 EA 100 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	570.69	115.70
26 55 53 11-0169 EA 150 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	570.69	115.70
26 55 53 11-0170 Metal Halide MCF/MPM/MPN Series Ruud Flood Lights (26 55 53 11-0163)		
26 55 53 11-0171 EA 50 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light.....	581.84	115.70
26 55 53 11-0172 EA 70 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light.....	581.84	115.70
26 55 53 11-0173 EA 100 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light.....	581.84	115.70
26 55 53 11-0174 EA 175 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light.....	564.32	115.70
26 55 53 11-0175 CF (Cutoff Square) Series Ruud Flood Lights (26 55 53 11-0113)		
Note: The CF is suited for parking lots, volleyball courts and tennis courts. Yoke or slip fitter mounting.		
26 55 53 11-0176 High Pressure Sodium CF Series Ruud Flood Lights (26 55 53 11-0175)		
26 55 53 11-0177 EA 250 Watt High Pressure Sodium CF Series Ruud Flood Light.....	703.16	130.15
26 55 53 11-0178 EA 400 Watt High Pressure Sodium CF Series Ruud Flood Light.....	719.09	130.15
26 55 53 11-0179 EA 1,000 Watt High Pressure Sodium CF Series Ruud Flood Light.....	1,085.73	144.62
26 55 53 11-0180 Metal Halide CF Series Ruud Flood Lights (26 55 53 11-0175)		
26 55 53 11-0181 EA 175 Watt Metal Halide CF Series Ruud Flood Light.....	668.12	130.15
26 55 53 11-0182 EA 250 Watt Metal Halide CF Series Ruud Flood Light.....	671.30	130.15
26 55 53 11-0183 EA 400 Watt Metal Halide CF Series Ruud Flood Light.....	680.86	130.15
26 55 53 11-0184 EA 1,000 Watt Metal Halide CF Series Ruud Flood Light.....	980.59	144.62
26 55 53 11-0185 CN (Narrow Beam Cutoff Square) Series Ruud Flood Lights (26 55 53 11-0113)		
Note: The CN is suited for large sports fields, building facades and signs. Yoke or slip fitter mounting.		
26 55 53 11-0186 High Pressure Sodium CN Series Ruud Flood Lights (26 55 53 11-0185)		
26 55 53 11-0187 EA 400 High Pressure Sodium CN Series Ruud Flood Light.....	900.94	144.62
26 55 53 11-0188 EA 1,000 High Pressure Sodium CN Series Ruud Flood Light.....	1,066.61	144.62

26	26	Electrical
	26 50	Lighting
	26 55	Special Purpose Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0189		Metal Halide CN Series Ruud Flood Lights (26 55 53 11-0185)		
26 55 53 11-0190	EA	400 Watt Metal Halide CN Series Ruud Flood Light	862.71	144.62
26 55 53 11-0191	EA	1,000 Watt Metal Halide CN Series Ruud Flood Light	961.48	144.62
26 55 53 11-0192		PM/PN (Parabolic Medium And Narrow Square) Series Ruud Flood Lights (26 55 53 11-0113) Note: The PM and PN are suited for flagpoles, columns and narrow signs. Yoke or slip fitter mounting.		
26 55 53 11-0193		High Pressure Sodium PM/PN Series Ruud Flood Lights (26 55 53 11-0192)		
26 55 53 11-0194	EA	250 Watt High Pressure Sodium PM/PN Series Ruud Flood Light	725.47	130.15
26 55 53 11-0195	EA	400 Watt High Pressure Sodium PM/PN Series Ruud Flood Light	741.40	130.15
26 55 53 11-0196		Metal Halide PM/PN Series Ruud Flood Lights (26 55 53 11-0192)		
26 55 53 11-0197	EA	175 Watt Metal Halide PM/PN Series Ruud Flood Light	690.42	130.15
26 55 53 11-0198	EA	250 Watt Metal Halide PM/PN Series Ruud Flood Light	693.61	130.15
26 55 53 11-0199	EA	400 Watt Metal Halide PM/PN Series Ruud Flood Light	703.16	130.15
26 55 53 11-0200	EA	1,000 Watt Metal Halide PM/PN Series Ruud Flood Light	1,002.89	144.62
26 55 53 11-0201		Accessories For Ruud Flood Lighting (26 55 53 11-0113)		
26 55 53 11-0202	EA	Wireguard For Rudd Flood Light	81.75	28.92
26 55 53 11-0203	EA	Deep Baffle (Full Visor) For Rudd Flood Light	124.76	28.92
26 55 53 11-0204	EA	Glare Guard (Upper Visor) For Rudd Flood Light	92.90	28.92
26 55 53 11-0205	EA	Vandal Shield For Rudd Flood Light	108.83	28.92
26 55 53 11-0206	EA	Pipe Mounting Bracket For Ruud Flood Light	227.70	86.77
26 55 53 11-0207	EA	120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Ruud Flood Light	72.19	28.92
26 55 53 11-0208		Lumark Flood Lights (26 55 53 11)		
26 55 53 11-0209		QZ Wedge Series Quartz Lumark Flood Lights (26 55 53 11-0208) Note: For small outdoor areas. Die-cast aluminum housing heat and weather resistant gaskets.		
26 55 53 11-0210	EA	500 Watt QZ Wedge Series Quartz Lumark Flood Light	206.12	86.77
26 55 53 11-0211		LQL Series Quartz Lumark Flood Lights (26 55 53 11-0208) Note: For medium size outdoor areas. Die-cast aluminum housing heat and weather resistant gaskets.		
26 55 53 11-0212	EA	1,500 Watt LQL Series Quartz Lumark Flood Light	253.11	86.77
26 55 53 11-0213		Kim Lighting (26 55 53 11)		
26 55 53 11-0214		MicroFlood® Series Kim Lighting Flood Lights (26 55 53 11-0213) Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and gasketed and tempered lens. 1/2" threaded mounting knuckle.		
26 55 53 11-0215		LED MicroFlood® Series Kim Lighting Flood Lights (26 55 53 11-0214)		
26 55 53 11-0216	EA	5 Watt, LED MicroFlood® Series Kim Lighting Flood Light	384.42	35.41
		For >50 To 100, Deduct	-11.38	
		For >100 To 250, Deduct	-20.99	
		For >250 To 500, Deduct	-38.44	
		For >500, Deduct	-55.89	
26 55 53 11-0217	EA	15 Watt, LED MicroFlood® Series Kim Lighting Flood Light	472.81	35.41
		For >50 To 100, Deduct	-13.59	
		For >100 To 250, Deduct	-25.41	
		For >250 To 500, Deduct	-47.28	
		For >500, Deduct	-69.15	
26 55 53 11-0218		Scarab® Series Kim Lighting Flood Lights (26 55 53 11-0213) Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and gasketed and tempered lens. 1/2" threaded mounting knuckle.		
26 55 53 11-0219		LED Scarab® Series Kim Lighting Accent Flood Lights (26 55 53 11-0218) Note: Spot or narrow style accent flood lights.		
26 55 53 11-0220	EA	6 Watt, LED Scarab® Series Kim Lighting Accent Flood Light	581.52	35.41
		For >50 To 100, Deduct	-16.31	
		For >100 To 250, Deduct	-30.85	
		For >250 To 500, Deduct	-58.15	
		For >500, Deduct	-85.46	
26 55 53 11-0221		CREE® BetaLED® Flood Lights (26 55 53 11)		
26 55 53 11-0222		Yoke Mount, Square, LED Flood Lights (CREE® BetaLED® FLD-304) (26 55 53 11-0221) Note: UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		



Electrical	26
Lighting	26 50
Special Purpose Lighting	26 55

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0223	EA	40 LEDs, 47 Watt, Yoke Mount, Square, LED Flood Light (CREE® BetaLED® FLD-304).....	908.29	103.61
		<i>For >50 To 100, Deduct</i>	-27.89	
		<i>For >100 To 250, Deduct</i>	-50.60	
		<i>For >250 To 500, Deduct</i>	-90.83	
		<i>For >500, Deduct</i>	-131.06	
26 55 53 11-0224	EA	60 LEDs, 68 Watt, Yoke Mount, Square, LED Flood Light (CREE® BetaLED® FLD-304).....	993.99	109.36
		<i>For >50 To 100, Deduct</i>	-30.32	
		<i>For >100 To 250, Deduct</i>	-55.17	
		<i>For >250 To 500, Deduct</i>	-99.40	
		<i>For >500, Deduct</i>	-143.63	
26 55 53 11-0225		Adjustable Arm Mount, Rectangular, LED Flood Lights (CREE® BetaLED® Edge® FLD-EDG) <small>(26 55 53 11-0221)</small>		
		Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 53 11-0226	EA	20 LEDs, 26 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	790.58	97.85
		<i>For 347-480 Volt, Add</i>	74.30	
		<i>For >50 To 100, Deduct</i>	-24.66	
		<i>For >100 To 250, Deduct</i>	-44.42	
		<i>For >250 To 500, Deduct</i>	-79.06	
		<i>For >500, Deduct</i>	-113.69	
26 55 53 11-0227	EA	40 LEDs, 47 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	990.16	103.61
		<i>For 347-480 Volt, Add</i>	74.30	
		<i>For >50 To 100, Deduct</i>	-29.93	
		<i>For >100 To 250, Deduct</i>	-54.69	
		<i>For >250 To 500, Deduct</i>	-99.02	
		<i>For >500, Deduct</i>	-143.34	
26 55 53 11-0228	EA	60 LEDs, 68 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,189.72	109.36
		<i>For 347-480 Volt, Add</i>	74.30	
		<i>For >50 To 100, Deduct</i>	-35.21	
		<i>For >100 To 250, Deduct</i>	-64.95	
		<i>For >250 To 500, Deduct</i>	-118.97	
		<i>For >500, Deduct</i>	-172.99	
26 55 53 11-0229	EA	80 LEDs, 90 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,464.78	115.11
		<i>For 347-480 Volt, Add</i>	74.30	
		<i>For >50 To 100, Deduct</i>	-42.38	
		<i>For >100 To 250, Deduct</i>	-79.00	
		<i>For >250 To 500, Deduct</i>	-146.48	
		<i>For >500, Deduct</i>	-213.96	
26 55 53 11-0230	EA	100 LEDs, 111 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,664.34	120.88
		<i>For 347-480 Volt, Add</i>	74.30	
		<i>For >50 To 100, Deduct</i>	-47.65	
		<i>For >100 To 250, Deduct</i>	-89.26	
		<i>For >250 To 500, Deduct</i>	-166.43	
		<i>For >500, Deduct</i>	-243.61	
26 55 53 11-0231	EA	120 LEDs, 132 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,863.92	126.63
		<i>For 347-480 Volt, Add</i>	74.30	
		<i>For >50 To 100, Deduct</i>	-52.93	
		<i>For >100 To 250, Deduct</i>	-99.53	
		<i>For >250 To 500, Deduct</i>	-186.39	
		<i>For >500, Deduct</i>	-273.26	
26 55 53 11-0232	EA	140 LEDs, 157 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	2,123.63	132.38
		<i>For 347-480 Volt, Add</i>	74.30	
		<i>For >50 To 100, Deduct</i>	-59.71	
		<i>For >100 To 250, Deduct</i>	-112.80	
		<i>For >250 To 500, Deduct</i>	-212.36	
		<i>For >500, Deduct</i>	-311.93	
26 55 53 11-0233	EA	160 LEDs, 179 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	2,323.19	138.15
		<i>For 347-480 Volt, Add</i>	74.30	
		<i>For >50 To 100, Deduct</i>	-64.99	
		<i>For >100 To 250, Deduct</i>	-123.07	
		<i>For >250 To 500, Deduct</i>	-232.32	
		<i>For >500, Deduct</i>	-341.57	
26 55 53 11-0234		Adjustable Arm Mount, Rectangular, High Output, LED Flood Lights (CREE® BetaLED® Edge® FLD-EHO) <small>(26 55 53 11-0221)</small>		
		Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 700mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53	11-0235	EA	120 LEDs, 267 Watt, Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® Edge® FLD-EHO).....	1,788.44	126.63
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Bird Spikes, Add</i>	36.43	
			<i>For 5,000K Color Temperature, Add</i>	37.72	
			<i>For Fuse, Add</i>	45.26	
			<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
			<i>For 480 Volt, Add</i>	67.90	
			<i>For Multi-Level, Add</i>	98.07	
			<i>For 1,000mA Driver, Add</i>	126.74	
			<i>For >50 To 100, Deduct</i>	-51.04	
			<i>For >100 To 250, Deduct</i>	-95.75	
			<i>For >250 To 500, Deduct</i>	-178.84	
			<i>For >500, Deduct</i>	-261.93	
26 55 53	11-0236	EA	240 LEDs, 533 Watt, Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® Edge® FLD-EHO).....	3,018.39	155.41
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For 5,000K Color Temperature, Add</i>	37.72	
			<i>For Fuse, Add</i>	45.26	
			<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
			<i>For Bird Spikes, Add</i>	53.57	
			<i>For Multi-Level, Add</i>	98.07	
			<i>For 1,000mA Driver, Add</i>	126.74	
			<i>For 480 Volt, Add</i>	135.79	
			<i>For >50 To 100, Deduct</i>	-83.23	
			<i>For >100 To 250, Deduct</i>	-158.69	
			<i>For >250 To 500, Deduct</i>	-301.84	
			<i>For >500, Deduct</i>	-444.99	
26 55 53	11-0237		Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Lights (CREE® BetaLED® OSQ™) <small>(26 55 53 11-0221)</small>		
			Note: UL wet listed. Includes 3,000K or 4,000K or 5,700K color temperature, 120/277 voltage, Class 1 driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 53	11-0238	EA	112 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-A-XXX-US-UL).....	1,061.25	126.63
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Front Facing Optics, Back Light Shield, Add</i>	28.50	
			<i>For Rotated Optics, Back Light Shield, Add</i>	28.50	
			<i>For Field Adjustable Output, Add</i>	22.64	
			<i>For Fuse, Add</i>	45.26	
			<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
			<i>For Multi-Level, Add</i>	98.07	
			<i>For >50 To 100, Deduct</i>	-32.86	
			<i>For >100 To 250, Deduct</i>	-59.39	
			<i>For >250 To 500, Deduct</i>	-106.13	
			<i>For >500, Deduct</i>	-152.86	
26 55 53	11-0239	EA	168 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-J-XXX-US-UL).....	1,132.55	126.63
			Note: Type III, IV or V medium optics only.		
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Front Facing Optics, Back Light Shield, Add</i>	28.50	
			<i>For Rotated Optics, Back Light Shield, Add</i>	28.50	
			<i>For Field Adjustable Output, Add</i>	22.64	
			<i>For Fuse, Add</i>	45.26	
			<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
			<i>For Type II Medium Or Type V Short Optics, Add</i>	218.25	
			<i>For Multi-Level, Add</i>	98.07	
			<i>For >50 To 100, Deduct</i>	-34.65	
			<i>For >100 To 250, Deduct</i>	-62.96	
			<i>For >250 To 500, Deduct</i>	-113.26	
			<i>For >500, Deduct</i>	-163.55	
26 55 53	11-0240	EA	223 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-S-XXX-US-UL).....	1,451.51	155.41
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Field Adjustable Output, Add</i>	22.64	
			<i>For Front Facing Optics, Back Light Shield, Add</i>	34.55	
			<i>For Rotated Optics, Back Light Shield, Add</i>	34.55	
			<i>For Fuse, Add</i>	45.26	
			<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
			<i>For Multi-Level, Add</i>	98.07	
			<i>For >50 To 100, Deduct</i>	-44.06	
			<i>For >100 To 250, Deduct</i>	-80.35	
			<i>For >250 To 500, Deduct</i>	-145.15	
			<i>For >500, Deduct</i>	-209.96	
26 55 53	11-0241		PlanLED Flood Lights <small>(26 55 53 11)</small>		
26 55 53	11-0242		Adjustable Arm Mount, LED Flood Lights (PlanLED WAPA) <small>(26 55 53 11-0241)</small>		
26 55 53	11-0243	EA	6,250 Lumens, 50 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP050).....	492.93	103.61
			<i>For >50 To 100, Deduct</i>	-17.50	
			<i>For >100 To 250, Deduct</i>	-29.83	
			<i>For >250 To 500, Deduct</i>	-49.29	
			<i>For >500, Deduct</i>	-68.76	



Electrical	26
Lighting	26 50
Special Purpose Lighting	26 55

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0244 EA 9,375 Lumens, 75 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP075)	585.01	109.36
For >50 To 100, Deduct	-20.09	
For >100 To 250, Deduct	-34.72	
For >250 To 500, Deduct	-58.50	
For >500, Deduct	-82.28	
26 55 53 11-0245 EA 12,500 Lumens, 100 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP100)	672.61	118.00
For >50 To 100, Deduct	-22.72	
For >100 To 250, Deduct	-39.53	
For >250 To 500, Deduct	-67.26	
For >500, Deduct	-94.99	
26 55 53 11-0246 Adjustable Arm Mount, LED Sports Flood Lights (PlanLED SUFA) <small>(26 55 53 11-0241)</small>		
26 55 53 11-0247 EA 21,000 Lumens, 200 Watt, LED Sports Flood Light (PlanLED SUFA SF200).....	1,361.56	230.24
For 0 To 10 Volt Dimming, Add	62.75	
For >50 To 100, Deduct	-45.55	
For >100 To 250, Deduct	-79.59	
For >250 To 500, Deduct	-136.16	
For >500, Deduct	-192.72	
26 55 53 11-0248 EA 42,000 Lumens, 400 Watt, LED Sports Flood Light (PlanLED SUFA SF400).....	2,072.17	230.24
For 0 To 10 Volt Dimming, Add	62.75	
For >50 To 100, Deduct	-63.32	
For >100 To 250, Deduct	-115.12	
For >250 To 500, Deduct	-207.22	
For >500, Deduct	-299.31	
26 55 53 11-0249 EA 84,000 Lumens, 800 Watt, LED Sports Flood Light (PlanLED SUFA SF800).....	3,601.80	230.24
For 0 To 10 Volt Dimming, Add	62.75	
For >50 To 100, Deduct	-101.56	
For >100 To 250, Deduct	-191.60	
For >250 To 500, Deduct	-360.18	
For >500, Deduct	-528.76	
26 55 53 11-0250 Adjustable Arm Mount, LED High Mast Flood Lights (PlanLED MAHA) <small>(26 55 53 11-0241)</small>		
26 55 53 11-0251 EA 26,000 Lumens, 200 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA200).....	1,188.67	149.65
For 0 To 10 Volt Dimming, Add	62.75	
For 347-480 Volt, Add	-24.89	
For >50 To 100, Deduct	-37.20	
For >100 To 250, Deduct	-66.92	
For >250 To 500, Deduct	-118.87	
For >500, Deduct	-170.82	
26 55 53 11-0252 EA 39,000 Lumens, 300 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA300).....	1,510.79	155.41
For 0 To 10 Volt Dimming, Add	62.75	
For 347-480 Volt, Add	75.66	
For >50 To 100, Deduct	-45.54	
For >100 To 250, Deduct	-83.31	
For >250 To 500, Deduct	-151.08	
For >500, Deduct	-218.85	
26 55 53 11-0253 EA 52,000 Lumens, 400 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA400).....	1,916.43	161.17
For 0 To 10 Volt Dimming, Add	62.75	
For 347-480 Volt, Add	60.73	
For >50 To 100, Deduct	-55.97	
For >100 To 250, Deduct	-103.88	
For >250 To 500, Deduct	-191.64	
For >500, Deduct	-279.41	
26 55 68 Athletic Field Lighting <small>(26 55)</small>		
26 55 68 00-0001 Sports Lighting System <small>(26 55 68)</small>		
Note: Musco.		
26 55 68 00-0002 Round Steel Tapered Poles <small>(26 55 68 00-0001)</small>		
Note: With Internal wiring harness.		
26 55 68 00-0003 EA 20' Steel Tapered Pole With Precast Concrete Foundation Sleeve	3,022.47	555.32
26 55 68 00-0004 EA 25' Steel Tapered Pole With Precast Concrete Foundation Sleeve	3,637.71	671.02
26 55 68 00-0005 EA 30' Steel Tapered Pole With Precast Concrete Foundation Sleeve	4,092.67	728.87
26 55 68 00-0006 EA 35' Steel Tapered Pole With Precast Concrete Foundation Sleeve	4,465.03	757.79
26 55 68 00-0007 EA 40' Steel Tapered Pole With Precast Concrete Foundation Sleeve	5,558.03	786.71
26 55 68 00-0008 EA 45' Steel Tapered Pole With Precast Concrete Foundation Sleeve	6,393.86	960.25
26 55 68 00-0009 EA 50' Steel Tapered Pole With Precast Concrete Foundation Sleeve	6,867.41	1,018.10
26 55 68 00-0010 EA 55' Steel Tapered Pole With Precast Concrete Foundation Sleeve	7,801.17	1,156.93
26 55 68 00-0011 EA 60' Steel Tapered Pole With Precast Concrete Foundation Sleeve	8,853.86	1,301.54
26 55 68 00-0012 EA 65' Steel Tapered Pole With Precast Concrete Foundation Sleeve	9,747.60	1,414.41
26 55 68 00-0013 EA 70' Steel Tapered Pole With Precast Concrete Foundation Sleeve	10,641.06	1,580.81
26 55 68 00-0014 EA 75' Steel Tapered Pole With Precast Concrete Foundation Sleeve	11,613.86	1,774.94
26 55 68 00-0015 EA 80' Steel Tapered Pole With Precast Concrete Foundation Sleeve	13,062.59	2,135.48
26 55 68 00-0016 Steel Pole Brackets <small>(26 55 68 00-0001)</small>		
26 55 68 00-0017 EA Two Light Bracket.....	444.73	57.85

26 Electrical
26 50 Lighting
26 55 Special Purpose Lighting



MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 68 00-0018	EA Three Light Bracket.....	560.54	80.99
26 55 68 00-0019	EA Four Light Bracket.....	804.93	98.34
26 55 68 00-0020	EA Five Light Bracket.....	918.25	115.70
26 55 68 00-0021	EA Six Light Bracket.....	1,112.66	133.05
26 55 68 00-0022	EA Seven Light Bracket.....	1,273.97	150.40
26 55 68 00-0023	EA Eight Light Bracket.....	1,456.05	173.54
26 55 68 00-0024	EA Nine Light Bracket.....	1,644.40	190.89

26 55 68 00-0025 Light Fixtures (26 55 68 00-0001)

26 55 68 00-0026	EA 120 or 270 Volt, Sportlite Fixtures Complete with 1,000 Watt Metal Halide Lamp, Hook Cord And Plug.....	1,376.43	
	<i>For 1,500 Watt Metal Halide Lamp, Add</i>	10.46	

26 55 68 00-0027 Electrical Component Enclosure (26 55 68 00-0001)

Note: Pole mounted NEMA 3R enclosure with thermal magnetic breaker and multiple ballasts to match total light fixtures. For light structures with more than 6 lights, use multiple enclosures.

26 55 68 00-0028	EA Electrical Component Enclosure For 2 Lights, Pole Mounted.....	722.06	65.63
26 55 68 00-0029	EA Electrical Component Enclosure For 3 Lights, Pole Mounted.....	1,084.20	100.98
26 55 68 00-0030	EA Electrical Component Enclosure For 4 Lights, Pole Mounted.....	1,243.34	126.22
26 55 68 00-0031	EA Electrical Component Enclosure For 5 Lights, Pole Mounted.....	1,606.09	141.38
26 55 68 00-0032	EA Electrical Component Enclosure For 6 Lights, Pole Mounted.....	1,804.64	151.47

26 55 68 00-0033 Accessories (26 55 68 00-0001)

26 55 68 00-0034	EA Time Delay Kit (Musco®).....	773.43	202.36
26 55 68 00-0035	EA Remote Switch Box Push Button (Musco®).....	1,510.87	202.36
26 55 68 00-0036	EA Push Button Strobe Kit (Musco®).....	1,805.84	202.36
26 55 68 00-0037	EA Additional Control-Link Unit (Musco®).....	8,588.53	607.08
26 55 68 00-0038	EA Auxiliary Brackets For Speakers Or Egress Fixtures, For New Installations (Musco®).....	939.41	100.98
26 55 68 00-0039	EA Auxiliary Brackets For Speakers Or Egress Fixtures, For Retrofit Applications (Musco®).....	1,141.36	201.97

26 56 Exterior Lighting (26 50)

26 56 13 Lighting Poles and Standards (26 56)

26 56 13 00-0001 Poles And Standards (26 56 13)

See CSI section 26 05 46 00-0000 for additional poles, 26 05 46 00-0001 for additional pole.

26 56 13 00-0002 Roadway Light Poles (26 56 13 00-0001)

Note: Excludes lighting fixtures.

26 56 13 00-0003 Steel Roadway Light Poles (26 56 13 00-0002)

Note: Includes prime painted finish, anchor bolts, steel base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).

26 56 13 00-0004 Round Tapered, Steel Roadway Light Poles (26 56 13 00-0003)

26 56 13 00-0005 Round Tapered, Steel Roadway Light Poles With Upsweep Style Arms (26 56 13 00-0004)

26 56 13 00-0006 Round Tapered, Steel Roadway Light Poles With Single Upsweep Style Arm (26 56 13 00-0005)

26 56 13 00-0007	EA 20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,916.51	347.08
	<i>For Galvanized Finish, Add</i>	96.67	
	<i>For >10 To 20, Deduct</i>	-97.91	
	<i>For >20 To 40, Deduct</i>	-195.83	
	<i>For >40, Deduct</i>	-311.09	
26 56 13 00-0008	EA 20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,924.47	347.08
	<i>For Galvanized Finish, Add</i>	96.91	
	<i>For >10 To 20, Deduct</i>	-98.11	
	<i>For >20 To 40, Deduct</i>	-196.22	
	<i>For >40, Deduct</i>	-311.69	
26 56 13 00-0009	EA 25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	4,203.05	462.77
	<i>For Galvanized Finish, Add</i>	98.33	
	<i>For >10 To 20, Deduct</i>	-105.08	
	<i>For >20 To 40, Deduct</i>	-210.15	
	<i>For >40, Deduct</i>	-338.37	
26 56 13 00-0010	EA 25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	4,298.82	462.77
	<i>For Galvanized Finish, Add</i>	101.20	
	<i>For >10 To 20, Deduct</i>	-107.47	
	<i>For >20 To 40, Deduct</i>	-214.94	
	<i>For >40, Deduct</i>	-345.55	
26 56 13 00-0011	EA 25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	4,394.59	462.77
	<i>For Galvanized Finish, Add</i>	104.07	
	<i>For >10 To 20, Deduct</i>	-109.86	
	<i>For >20 To 40, Deduct</i>	-219.73	
	<i>For >40, Deduct</i>	-352.73	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0012 EA 30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base .....4,530.45	4,530.45	520.61
For Galvanized Finish, Add	104.68	
For >10 To 20, Deduct	-113.26	
For >20 To 40, Deduct	-226.52	
For >40, Deduct	-365.81	
26 56 13 00-0013 EA 30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base .....4,575.87	4,575.87	520.61
For Galvanized Finish, Add	106.04	
For >10 To 20, Deduct	-114.40	
For >20 To 40, Deduct	-228.79	
For >40, Deduct	-369.22	
26 56 13 00-0014 EA 30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base .....4,584.51	4,584.51	520.61
For Galvanized Finish, Add	106.30	
For >10 To 20, Deduct	-114.61	
For >20 To 40, Deduct	-229.23	
For >40, Deduct	-369.87	
26 56 13 00-0015 EA 35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base .....4,803.57	4,803.57	549.54
For Galvanized Finish, Add	111.13	
For >10 To 20, Deduct	-120.09	
For >20 To 40, Deduct	-240.18	
For >40, Deduct	-387.74	
26 56 13 00-0016 EA 35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base .....4,837.87	4,837.87	549.54
For Galvanized Finish, Add	112.16	
For >10 To 20, Deduct	-120.95	
For >20 To 40, Deduct	-241.89	
For >40, Deduct	-390.32	
26 56 13 00-0017 EA 35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base .....4,875.32	4,875.32	549.54
For Galvanized Finish, Add	113.29	
For >10 To 20, Deduct	-121.88	
For >20 To 40, Deduct	-243.77	
For >40, Deduct	-393.13	
26 56 13 00-0018 EA 40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base .....5,604.10	5,604.10	578.46
For Galvanized Finish, Add	133.42	
For >10 To 20, Deduct	-140.10	
For >20 To 40, Deduct	-280.21	
For >40, Deduct	-449.23	
26 56 13 00-0019 EA 40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base .....5,616.31	5,616.31	578.46
For Galvanized Finish, Add	133.78	
For >10 To 20, Deduct	-140.41	
For >20 To 40, Deduct	-280.82	
For >40, Deduct	-450.15	
26 56 13 00-0020 EA 40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base .....5,628.38	5,628.38	578.46
For Galvanized Finish, Add	134.14	
For >10 To 20, Deduct	-140.71	
For >20 To 40, Deduct	-281.42	
For >40, Deduct	-451.05	
26 56 13 00-0021 Round Tapered, Steel Roadway Light Poles With Two Upsweep Style Arms <small>(26 56 13 00-0005)</small>		
26 56 13 00-0022 EA 20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base .....4,901.39	4,901.39	404.93
For Galvanized Finish, Add	122.75	
For >10 To 20, Deduct	-122.53	
For >20 To 40, Deduct	-245.07	
For >40, Deduct	-387.85	
26 56 13 00-0023 EA 20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base .....4,981.49	4,981.49	419.38
For Galvanized Finish, Add	124.28	
For >10 To 20, Deduct	-124.54	
For >20 To 40, Deduct	-249.07	
For >40, Deduct	-394.58	
26 56 13 00-0024 EA 20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base .....5,048.96	5,048.96	433.85
For Galvanized Finish, Add	125.44	
For >10 To 20, Deduct	-126.22	
For >20 To 40, Deduct	-252.45	
For >40, Deduct	-400.36	
26 56 13 00-0025 EA 25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base .....4,801.02	4,801.02	520.61
For Galvanized Finish, Add	112.79	
For >10 To 20, Deduct	-120.03	
For >20 To 40, Deduct	-240.05	
For >40, Deduct	-386.11	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 56 13 00-0026	EA 25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	4,850.25	535.08
	For Galvanized Finish, Add	113.40	
	For >10 To 20, Deduct	-121.26	
	For >20 To 40, Deduct	-242.51	
	For >40, Deduct	-390.52	
26 56 13 00-0027	EA 25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	4,887.40	549.54
	For Galvanized Finish, Add	113.65	
	For >10 To 20, Deduct	-122.19	
	For >20 To 40, Deduct	-244.37	
	For >40, Deduct	-394.03	
26 56 13 00-0028	EA 30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	5,167.52	578.46
	For Galvanized Finish, Add	120.32	
	For >10 To 20, Deduct	-129.19	
	For >20 To 40, Deduct	-258.38	
	For >40, Deduct	-416.49	
26 56 13 00-0029	EA 30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	5,208.80	592.93
	For Galvanized Finish, Add	120.69	
	For >10 To 20, Deduct	-130.22	
	For >20 To 40, Deduct	-260.44	
	For >40, Deduct	-420.31	
26 56 13 00-0030	EA 30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	5,245.53	607.38
	For Galvanized Finish, Add	120.92	
	For >10 To 20, Deduct	-131.14	
	For >20 To 40, Deduct	-262.28	
	For >40, Deduct	-423.78	
26 56 13 00-0031	EA 35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	5,488.10	607.38
	For Galvanized Finish, Add	128.20	
	For >10 To 20, Deduct	-137.20	
	For >20 To 40, Deduct	-274.41	
	For >40, Deduct	-441.98	
26 56 13 00-0032	EA 35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	5,570.12	621.85
	For Galvanized Finish, Add	129.79	
	For >10 To 20, Deduct	-139.25	
	For >20 To 40, Deduct	-278.51	
	For >40, Deduct	-448.85	
26 56 13 00-0033	EA 35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	5,649.40	636.31
	For Galvanized Finish, Add	131.30	
	For >10 To 20, Deduct	-141.24	
	For >20 To 40, Deduct	-282.47	
	For >40, Deduct	-455.52	
26 56 13 00-0034	EA 40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	6,241.43	636.31
	For Galvanized Finish, Add	149.06	
	For >10 To 20, Deduct	-156.04	
	For >20 To 40, Deduct	-312.07	
	For >40, Deduct	-499.92	
26 56 13 00-0035	EA 40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	6,278.31	650.78
	For Galvanized Finish, Add	149.30	
	For >10 To 20, Deduct	-156.96	
	For >20 To 40, Deduct	-313.92	
	For >40, Deduct	-503.41	
26 56 13 00-0036	EA 40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	6,315.47	665.23
	For Galvanized Finish, Add	149.55	
	For >10 To 20, Deduct	-157.89	
	For >20 To 40, Deduct	-315.77	
	For >40, Deduct	-506.92	
26 56 13 00-0037	Round Tapered, Steel Roadway Light Poles With Three Upsweep Style Arms <small>(26 56 13 00-0005)</small>		
26 56 13 00-0038	EA 25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	5,668.86	578.46
	For Galvanized Finish, Add	135.36	
	For >10 To 20, Deduct	-141.72	
	For >20 To 40, Deduct	-283.44	
	For >40, Deduct	-454.09	
26 56 13 00-0039	EA 25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	5,734.79	607.38
	For Galvanized Finish, Add	135.60	
	For >10 To 20, Deduct	-143.37	
	For >20 To 40, Deduct	-286.74	
	For >40, Deduct	-460.48	



	Electrical	26
	Lighting	26 50
	Exterior Lighting	26 56

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0040 EA 25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base .....5,812.81		636.31
For Galvanized Finish, Add	136.21	
For >10 To 20, Deduct	-145.32	
For >20 To 40, Deduct	-290.64	
For >40, Deduct	-467.78	
26 56 13 00-0041 EA 30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base .....5,986.78		636.31
For Galvanized Finish, Add	141.42	
For >10 To 20, Deduct	-149.67	
For >20 To 40, Deduct	-299.34	
For >40, Deduct	-480.82	
26 56 13 00-0042 EA 30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base .....6,056.57		665.23
For Galvanized Finish, Add	141.78	
For >10 To 20, Deduct	-151.41	
For >20 To 40, Deduct	-302.83	
For >40, Deduct	-487.50	
26 56 13 00-0043 EA 30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base .....6,122.51		694.16
For Galvanized Finish, Add	142.03	
For >10 To 20, Deduct	-153.06	
For >20 To 40, Deduct	-306.13	
For >40, Deduct	-493.90	
26 56 13 00-0044 EA 35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base .....6,375.84		665.23
For Galvanized Finish, Add	151.36	
For >10 To 20, Deduct	-159.40	
For >20 To 40, Deduct	-318.79	
For >40, Deduct	-511.45	
26 56 13 00-0045 EA 35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base .....6,441.78		694.16
For Galvanized Finish, Add	151.60	
For >10 To 20, Deduct	-161.04	
For >20 To 40, Deduct	-322.09	
For >40, Deduct	-517.84	
26 56 13 00-0046 EA 35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base .....6,507.72		723.08
For Galvanized Finish, Add	151.85	
For >10 To 20, Deduct	-162.69	
For >20 To 40, Deduct	-325.39	
For >40, Deduct	-524.23	
26 56 13 00-0047 EA 40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base .....6,878.77		694.16
For Galvanized Finish, Add	164.71	
For >10 To 20, Deduct	-171.97	
For >20 To 40, Deduct	-343.94	
For >40, Deduct	-550.62	
26 56 13 00-0048 EA 40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base .....6,944.30		723.08
For Galvanized Finish, Add	164.94	
For >10 To 20, Deduct	-173.61	
For >20 To 40, Deduct	-347.22	
For >40, Deduct	-556.98	
26 56 13 00-0049 EA 40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base .....7,018.34		752.00
For Galvanized Finish, Add	165.43	
For >10 To 20, Deduct	-175.46	
For >20 To 40, Deduct	-350.92	
For >40, Deduct	-563.98	
26 56 13 00-0050 Round Tapered, Steel Roadway Light Poles With Four Upsweep Style Arms		
<small>(26 56 13 00-0005)</small>		
26 56 13 00-0051 EA 25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base .....6,310.17		636.31
For Galvanized Finish, Add	151.13	
For >10 To 20, Deduct	-157.75	
For >20 To 40, Deduct	-315.51	
For >40, Deduct	-505.08	
26 56 13 00-0052 EA 25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base .....6,409.02		679.70
For Galvanized Finish, Add	151.49	
For >10 To 20, Deduct	-160.23	
For >20 To 40, Deduct	-320.45	
For >40, Deduct	-514.66	
26 56 13 00-0053 EA 25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base .....6,503.74		723.08
For Galvanized Finish, Add	151.73	
For >10 To 20, Deduct	-162.59	
For >20 To 40, Deduct	-325.19	
For >40, Deduct	-523.93	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0054	EA	30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	6,677.63	694.16
		For Galvanized Finish, Add	158.68	
		For >10 To 20, Deduct	-166.94	
		For >20 To 40, Deduct	-333.88	
		For >40, Deduct	-535.53	
26 56 13 00-0055	EA	30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	6,772.92	737.54
		For Galvanized Finish, Add	158.93	
		For >10 To 20, Deduct	-169.32	
		For >20 To 40, Deduct	-338.65	
		For >40, Deduct	-544.85	
26 56 13 00-0056	EA	30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	6,821.53	780.93
		For Galvanized Finish, Add	157.79	
		For >10 To 20, Deduct	-170.54	
		For >20 To 40, Deduct	-341.08	
		For >40, Deduct	-550.66	
26 56 13 00-0057	EA	35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	7,194.97	723.08
		For Galvanized Finish, Add	172.46	
		For >10 To 20, Deduct	-179.87	
		For >20 To 40, Deduct	-359.75	
		For >40, Deduct	-575.78	
26 56 13 00-0058	EA	35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	7,344.86	766.46
		For Galvanized Finish, Add	174.36	
		For >10 To 20, Deduct	-183.62	
		For >20 To 40, Deduct	-367.24	
		For >40, Deduct	-589.19	
26 56 13 00-0059	EA	35' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	7,388.96	809.85
		For Galvanized Finish, Add	173.08	
		For >10 To 20, Deduct	-184.72	
		For >20 To 40, Deduct	-369.45	
		For >40, Deduct	-594.66	
26 56 13 00-0060	EA	40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	7,515.71	752.00
		For Galvanized Finish, Add	180.35	
		For >10 To 20, Deduct	-187.89	
		For >20 To 40, Deduct	-375.79	
		For >40, Deduct	-601.28	
26 56 13 00-0061	EA	40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	7,610.42	795.39
		For Galvanized Finish, Add	180.59	
		For >10 To 20, Deduct	-190.26	
		For >20 To 40, Deduct	-380.52	
		For >40, Deduct	-610.55	
26 56 13 00-0062	EA	40' High, 10.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	7,709.27	838.78
		For Galvanized Finish, Add	180.95	
		For >10 To 20, Deduct	-192.73	
		For >20 To 40, Deduct	-385.46	
		For >40, Deduct	-620.13	
26 56 13 00-0063		Round Tapered, Steel Roadway Light Poles With Davit Style Arm <small>(26 56 13 00-0064)</small>		
26 56 13 00-0064		Round Tapered, Steel Roadway Light Poles With Single Davit Style Arm <small>(26 56 13 00-0063)</small>		
26 56 13 00-0065	EA	25' High, 6.4" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	4,499.41	462.77
		For Galvanized Finish, Add	107.22	
		For >10 To 20, Deduct	-112.49	
		For >20 To 40, Deduct	-224.97	
		For >40, Deduct	-360.59	
26 56 13 00-0066	EA	30' High, 7.1" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	5,094.09	520.61
		For Galvanized Finish, Add	121.59	
		For >10 To 20, Deduct	-127.35	
		For >20 To 40, Deduct	-254.70	
		For >40, Deduct	-408.09	
26 56 13 00-0067	EA	35' High, 7.8" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	5,218.61	549.54
		For Galvanized Finish, Add	123.59	
		For >10 To 20, Deduct	-130.47	
		For >20 To 40, Deduct	-260.93	
		For >40, Deduct	-418.87	
26 56 13 00-0068	EA	40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	6,299.44	578.46
		For Galvanized Finish, Add	154.28	
		For >10 To 20, Deduct	-157.49	
		For >20 To 40, Deduct	-314.97	
		For >40, Deduct	-501.38	



Electrical 26

Lighting 26 50

Exterior Lighting 26 56

26

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 56 13 00-0069		Round Tapered, Steel Roadway Light Poles With Truss Style Arms ^(26 56 13 00-0004)			
26 56 13 00-0070		Round Tapered, Steel Roadway Light Poles With Single Truss Style Arm ^(26 56 13 00-0069)			
26 56 13 00-0071	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base	5,930.03		462.77
		<i>For Galvanized Finish, Add</i>	150.13		
		<i>For >10 To 20, Deduct</i>	-148.25		
		<i>For >20 To 40, Deduct</i>	-296.50		
		<i>For >40, Deduct</i>	-467.89		
26 56 13 00-0072	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base	5,991.36		462.77
		<i>For Galvanized Finish, Add</i>	151.97		
		<i>For >10 To 20, Deduct</i>	-149.78		
		<i>For >20 To 40, Deduct</i>	-299.57		
		<i>For >40, Deduct</i>	-472.49		
26 56 13 00-0073	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base	6,019.35		462.77
		<i>For Galvanized Finish, Add</i>	152.81		
		<i>For >10 To 20, Deduct</i>	-150.48		
		<i>For >20 To 40, Deduct</i>	-300.97		
		<i>For >40, Deduct</i>	-474.59		
26 56 13 00-0074	EA	30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base	6,107.06		520.61
		<i>For Galvanized Finish, Add</i>	151.97		
		<i>For >10 To 20, Deduct</i>	-152.68		
		<i>For >20 To 40, Deduct</i>	-305.35		
		<i>For >40, Deduct</i>	-484.06		
26 56 13 00-0075	EA	30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base	6,117.76		520.61
		<i>For Galvanized Finish, Add</i>	152.30		
		<i>For >10 To 20, Deduct</i>	-152.94		
		<i>For >20 To 40, Deduct</i>	-305.89		
		<i>For >40, Deduct</i>	-484.86		
26 56 13 00-0076	EA	30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base	6,228.34		520.61
		<i>For Galvanized Finish, Add</i>	155.61		
		<i>For >10 To 20, Deduct</i>	-155.71		
		<i>For >20 To 40, Deduct</i>	-311.42		
		<i>For >40, Deduct</i>	-493.16		
26 56 13 00-0077	EA	35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base	6,201.26		549.54
		<i>For Galvanized Finish, Add</i>	153.07		
		<i>For >10 To 20, Deduct</i>	-155.03		
		<i>For >20 To 40, Deduct</i>	-310.06		
		<i>For >40, Deduct</i>	-492.57		
26 56 13 00-0078	EA	35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base	6,266.02		549.54
		<i>For Galvanized Finish, Add</i>	155.01		
		<i>For >10 To 20, Deduct</i>	-156.65		
		<i>For >20 To 40, Deduct</i>	-313.30		
		<i>For >40, Deduct</i>	-497.43		
26 56 13 00-0079	EA	35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base	6,605.59		549.54
		<i>For Galvanized Finish, Add</i>	165.20		
		<i>For >10 To 20, Deduct</i>	-165.14		
		<i>For >20 To 40, Deduct</i>	-330.28		
		<i>For >40, Deduct</i>	-522.90		
26 56 13 00-0080		Round Tapered, Steel Roadway Light Poles With Two Truss Style Arms ^(26 56 13 00-0069)			
26 56 13 00-0081	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base	7,793.04		578.46
		<i>For Galvanized Finish, Add</i>	199.08		
		<i>For >10 To 20, Deduct</i>	-194.83		
		<i>For >20 To 40, Deduct</i>	-389.65		
		<i>For >40, Deduct</i>	-613.40		
26 56 13 00-0082	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base	7,909.60		607.38
		<i>For Galvanized Finish, Add</i>	200.84		
		<i>For >10 To 20, Deduct</i>	-197.74		
		<i>For >20 To 40, Deduct</i>	-395.48		
		<i>For >40, Deduct</i>	-623.59		
26 56 13 00-0083	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base	8,197.95		636.31
		<i>For Galvanized Finish, Add</i>	207.76		
		<i>For >10 To 20, Deduct</i>	-204.95		
		<i>For >20 To 40, Deduct</i>	-409.90		
		<i>For >40, Deduct</i>	-646.66		
26 56 13 00-0084	EA	30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base	7,874.70		636.31
		<i>For Galvanized Finish, Add</i>	198.06		
		<i>For >10 To 20, Deduct</i>	-196.87		
		<i>For >20 To 40, Deduct</i>	-393.74		
		<i>For >40, Deduct</i>	-622.42		

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0085 EA 30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base	8,235.91	665.23
For Galvanized Finish, Add	207.16	
For >10 To 20, Deduct	-205.90	
For >20 To 40, Deduct	-411.80	
For >40, Deduct	-650.96	
26 56 13 00-0086 EA 30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base	8,443.02	694.16
For Galvanized Finish, Add	211.64	
For >10 To 20, Deduct	-211.08	
For >20 To 40, Deduct	-422.15	
For >40, Deduct	-667.93	
26 56 13 00-0087 EA 35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base	8,102.00	665.23
For Galvanized Finish, Add	203.15	
For >10 To 20, Deduct	-202.55	
For >20 To 40, Deduct	-405.10	
For >40, Deduct	-640.91	
26 56 13 00-0088 EA 35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base	8,592.58	694.16
For Galvanized Finish, Add	216.13	
For >10 To 20, Deduct	-214.81	
For >20 To 40, Deduct	-429.63	
For >40, Deduct	-679.15	
26 56 13 00-0089 EA 35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base	8,872.69	723.08
For Galvanized Finish, Add	222.80	
For >10 To 20, Deduct	-221.82	
For >20 To 40, Deduct	-443.63	
For >40, Deduct	-701.61	
26 56 13 00-0090 Aluminum Roadway Light Poles <small>(26 56 13 00-0090)</small> Note: Includes satin finish, anchor bolts, cast aluminum base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).		
26 56 13 00-0091 Round Tapered, Aluminum Roadway Light Poles <small>(26 56 13 00-0090)</small>		
26 56 13 00-0092 Round Tapered, Aluminum Roadway Light Poles With Upsweep Style Arms <small>(26 56 13 00-0091)</small>		
26 56 13 00-0093 Round Tapered, Aluminum Roadway Light Poles With Single Upsweep Style Arm <small>(26 56 13 00-0092)</small>		
26 56 13 00-0094 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	2,602.63	347.08
For >10 To 20, Deduct	-65.07	
For >20 To 40, Deduct	-130.13	
For >40, Deduct	-212.55	
26 56 13 00-0095 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	2,625.73	347.08
For >10 To 20, Deduct	-65.64	
For >20 To 40, Deduct	-131.29	
For >40, Deduct	-214.28	
26 56 13 00-0096 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	3,182.73	462.77
For >10 To 20, Deduct	-79.57	
For >20 To 40, Deduct	-159.14	
For >40, Deduct	-261.84	
26 56 13 00-0097 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	3,226.38	462.77
For >10 To 20, Deduct	-80.66	
For >20 To 40, Deduct	-161.32	
For >40, Deduct	-265.12	
26 56 13 00-0098 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base	3,266.53	462.77
For >10 To 20, Deduct	-81.66	
For >20 To 40, Deduct	-163.33	
For >40, Deduct	-268.13	
26 56 13 00-0099 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	3,655.58	520.61
For >10 To 20, Deduct	-91.39	
For >20 To 40, Deduct	-182.78	
For >40, Deduct	-300.20	
26 56 13 00-0100 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	3,692.41	520.61
For >10 To 20, Deduct	-92.31	
For >20 To 40, Deduct	-184.62	
For >40, Deduct	-302.96	
26 56 13 00-0101 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base	3,733.60	520.61
For >10 To 20, Deduct	-93.34	
For >20 To 40, Deduct	-186.68	
For >40, Deduct	-306.05	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0102	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	4,296.11	549.54
			<i>For >10 To 20, Deduct</i>	-107.40	
			<i>For >20 To 40, Deduct</i>	-214.81	
			<i>For >40, Deduct</i>	-349.69	
26 56 13 00-0103	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	4,332.85	549.54
			<i>For >10 To 20, Deduct</i>	-108.32	
			<i>For >20 To 40, Deduct</i>	-216.64	
			<i>For >40, Deduct</i>	-352.44	
26 56 13 00-0104	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base	4,363.62	549.54
			<i>For >10 To 20, Deduct</i>	-109.09	
			<i>For >20 To 40, Deduct</i>	-218.18	
			<i>For >40, Deduct</i>	-354.75	
26 56 13 00-0105			Round Tapered, Aluminum Roadway Light Poles With Two Upsweep Style Arms		
			<small>(26 56 13 00-0092)</small>		
26 56 13 00-0106	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	2,980.59	404.93
			<i>For >10 To 20, Deduct</i>	-74.51	
			<i>For >20 To 40, Deduct</i>	-149.03	
			<i>For >40, Deduct</i>	-243.79	
26 56 13 00-0107	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	3,206.99	404.93
			<i>For >10 To 20, Deduct</i>	-80.17	
			<i>For >20 To 40, Deduct</i>	-160.35	
			<i>For >40, Deduct</i>	-260.77	
26 56 13 00-0108	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	3,308.95	433.85
			<i>For >10 To 20, Deduct</i>	-82.72	
			<i>For >20 To 40, Deduct</i>	-165.45	
			<i>For >40, Deduct</i>	-269.86	
26 56 13 00-0109	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	3,548.30	520.61
			<i>For >10 To 20, Deduct</i>	-88.71	
			<i>For >20 To 40, Deduct</i>	-177.42	
			<i>For >40, Deduct</i>	-292.15	
26 56 13 00-0110	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	3,721.33	535.08
			<i>For >10 To 20, Deduct</i>	-93.03	
			<i>For >20 To 40, Deduct</i>	-186.07	
			<i>For >40, Deduct</i>	-305.85	
26 56 13 00-0111	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	3,972.29	549.54
			<i>For >10 To 20, Deduct</i>	-99.31	
			<i>For >20 To 40, Deduct</i>	-198.61	
			<i>For >40, Deduct</i>	-325.40	
26 56 13 00-0112	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	4,100.49	578.46
			<i>For >10 To 20, Deduct</i>	-102.51	
			<i>For >20 To 40, Deduct</i>	-205.02	
			<i>For >40, Deduct</i>	-336.46	
26 56 13 00-0113	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	4,263.12	592.93
			<i>For >10 To 20, Deduct</i>	-106.58	
			<i>For >20 To 40, Deduct</i>	-213.16	
			<i>For >40, Deduct</i>	-349.38	
26 56 13 00-0114	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	4,462.27	607.38
			<i>For >10 To 20, Deduct</i>	-111.56	
			<i>For >20 To 40, Deduct</i>	-223.11	
			<i>For >40, Deduct</i>	-365.04	
26 56 13 00-0115	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	4,662.53	607.38
			<i>For >10 To 20, Deduct</i>	-116.56	
			<i>For >20 To 40, Deduct</i>	-233.13	
			<i>For >40, Deduct</i>	-380.06	
26 56 13 00-0116	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	5,108.25	621.85
			<i>For >10 To 20, Deduct</i>	-127.71	
			<i>For >20 To 40, Deduct</i>	-255.41	
			<i>For >40, Deduct</i>	-414.21	
26 56 13 00-0117	EA		35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	5,627.17	636.31
			<i>For >10 To 20, Deduct</i>	-140.68	
			<i>For >20 To 40, Deduct</i>	-281.36	
			<i>For >40, Deduct</i>	-453.85	

26 56 13 00-0118 Round Tapered, Aluminum Roadway Light Poles With Three Upsweep Style Arms
(26 56 13 00-0092)

26	26	Electrical
	26 50	Lighting
	26 56	Exterior Lighting



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 56 13 00-0119	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	3,460.73	462.77
		For >10 To 20, Deduct	-86.52	
		For >20 To 40, Deduct	-173.04	
		For >40, Deduct	-282.69	
26 56 13 00-0120	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	3,701.70	491.70
		For >10 To 20, Deduct	-92.54	
		For >20 To 40, Deduct	-185.09	
		For >40, Deduct	-302.21	
26 56 13 00-0121	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	4,204.74	578.46
		For >10 To 20, Deduct	-105.12	
		For >20 To 40, Deduct	-210.24	
		For >40, Deduct	-344.28	
26 56 13 00-0122	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	4,383.68	607.38
		For >10 To 20, Deduct	-109.59	
		For >20 To 40, Deduct	-219.18	
		For >40, Deduct	-359.15	
26 56 13 00-0123	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	4,590.85	636.31
		For >10 To 20, Deduct	-114.77	
		For >20 To 40, Deduct	-229.54	
		For >40, Deduct	-376.13	
26 56 13 00-0124	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	4,752.95	665.23
		For >10 To 20, Deduct	-118.82	
		For >20 To 40, Deduct	-237.65	
		For >40, Deduct	-389.73	
26 56 13 00-0125	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	4,969.77	665.23
		For >10 To 20, Deduct	-124.24	
		For >20 To 40, Deduct	-248.49	
		For >40, Deduct	-405.99	
26 56 13 00-0126	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	5,412.41	694.16
		For >10 To 20, Deduct	-135.31	
		For >20 To 40, Deduct	-270.62	
		For >40, Deduct	-440.64	
26 56 13 00-0127	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base	8,140.03	723.08
		For >10 To 20, Deduct	-203.50	
		For >20 To 40, Deduct	-407.00	
		For >40, Deduct	-646.66	
26 56 13 00-0128 Round Tapered, Aluminum Roadway Light Poles With Four Upsweep Style Arms				
26 56 13 00-0129	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	3,575.86	520.61
		For >10 To 20, Deduct	-89.40	
		For >20 To 40, Deduct	-178.79	
		For >40, Deduct	-294.22	
26 56 13 00-0130	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	3,714.48	520.61
		For >10 To 20, Deduct	-92.86	
		For >20 To 40, Deduct	-185.72	
		For >40, Deduct	-304.62	
26 56 13 00-0131	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	4,599.47	636.31
		For >10 To 20, Deduct	-114.99	
		For >20 To 40, Deduct	-229.97	
		For >40, Deduct	-376.78	
26 56 13 00-0132	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	4,981.75	679.70
		For >10 To 20, Deduct	-124.54	
		For >20 To 40, Deduct	-249.09	
		For >40, Deduct	-407.62	
26 56 13 00-0133	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	5,199.47	694.16
		For >10 To 20, Deduct	-129.99	
		For >20 To 40, Deduct	-259.97	
		For >40, Deduct	-424.67	
26 56 13 00-0134	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	5,551.08	737.54
		For >10 To 20, Deduct	-138.78	
		For >20 To 40, Deduct	-277.55	
		For >40, Deduct	-453.21	
26 56 13 00-0135	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	5,477.08	723.08
		For >10 To 20, Deduct	-136.93	
		For >20 To 40, Deduct	-273.85	
		For >40, Deduct	-446.94	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0136	EA		35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	6,242.46	766.46
			<i>For >10 To 20, Deduct</i>	-156.06	
			<i>For >20 To 40, Deduct</i>	-312.12	
			<i>For >40, Deduct</i>	-506.51	
26 56 13 00-0137	EA		35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	6,917.98	809.85
			<i>For >10 To 20, Deduct</i>	-172.95	
			<i>For >20 To 40, Deduct</i>	-345.90	
			<i>For >40, Deduct</i>	-559.34	
26 56 13 00-0138			Round Tapered, Aluminum Roadway Light Poles With Truss Style Arms <small>(26 56 13 00-0091)</small>		
26 56 13 00-0139			Round Tapered, Aluminum Roadway Light Poles With Single Truss Style Arm <small>(26 56 13 00-0138)</small>		
26 56 13 00-0140	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base	3,824.13	462.77
			<i>For >10 To 20, Deduct</i>	-95.60	
			<i>For >20 To 40, Deduct</i>	-191.21	
			<i>For >40, Deduct</i>	-309.95	
26 56 13 00-0141	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base	3,854.99	462.77
			<i>For >10 To 20, Deduct</i>	-96.37	
			<i>For >20 To 40, Deduct</i>	-192.75	
			<i>For >40, Deduct</i>	-312.26	
26 56 13 00-0142	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base	3,933.87	462.77
			<i>For >10 To 20, Deduct</i>	-98.35	
			<i>For >20 To 40, Deduct</i>	-196.69	
			<i>For >40, Deduct</i>	-318.18	
26 56 13 00-0143	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base	4,052.22	462.77
			<i>For >10 To 20, Deduct</i>	-101.31	
			<i>For >20 To 40, Deduct</i>	-202.61	
			<i>For >40, Deduct</i>	-327.06	
26 56 13 00-0144	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base	4,305.78	520.61
			<i>For >10 To 20, Deduct</i>	-107.64	
			<i>For >20 To 40, Deduct</i>	-215.29	
			<i>For >40, Deduct</i>	-348.96	
26 56 13 00-0145	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base	4,375.38	520.61
			<i>For >10 To 20, Deduct</i>	-109.38	
			<i>For >20 To 40, Deduct</i>	-218.77	
			<i>For >40, Deduct</i>	-354.18	
26 56 13 00-0146	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base	4,449.61	520.61
			<i>For >10 To 20, Deduct</i>	-111.24	
			<i>For >20 To 40, Deduct</i>	-222.48	
			<i>For >40, Deduct</i>	-359.75	
26 56 13 00-0147	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base	4,897.37	520.61
			<i>For >10 To 20, Deduct</i>	-122.43	
			<i>For >20 To 40, Deduct</i>	-244.87	
			<i>For >40, Deduct</i>	-393.33	
26 56 13 00-0148	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base	4,682.05	549.54
			<i>For >10 To 20, Deduct</i>	-117.05	
			<i>For >20 To 40, Deduct</i>	-234.10	
			<i>For >40, Deduct</i>	-378.63	
26 56 13 00-0149	EA		35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base	5,256.59	549.54
			<i>For >10 To 20, Deduct</i>	-131.41	
			<i>For >20 To 40, Deduct</i>	-262.83	
			<i>For >40, Deduct</i>	-421.72	
26 56 13 00-0150	EA		35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base	5,312.55	549.54
			<i>For >10 To 20, Deduct</i>	-132.81	
			<i>For >20 To 40, Deduct</i>	-265.63	
			<i>For >40, Deduct</i>	-425.92	
26 56 13 00-0151	EA		35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base	5,667.81	549.54
			<i>For >10 To 20, Deduct</i>	-141.70	
			<i>For >20 To 40, Deduct</i>	-283.39	
			<i>For >40, Deduct</i>	-452.56	
26 56 13 00-0152	EA		35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base	5,991.82	549.54
			<i>For >10 To 20, Deduct</i>	-149.80	
			<i>For >20 To 40, Deduct</i>	-299.59	
			<i>For >40, Deduct</i>	-476.86	
26 56 13 00-0153			Round Tapered, Aluminum Roadway Light Poles With Two Truss Style Arms <small>(26 56 13 00-0138)</small>		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0154	EA		25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base	4,968.09	578.46
			<i>For >10 To 20, Deduct</i>	-124.20	
			<i>For >20 To 40, Deduct</i>	-248.40	
			<i>For >40, Deduct</i>	-401.53	
26 56 13 00-0155	EA		25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base	5,104.80	607.38
			<i>For >10 To 20, Deduct</i>	-127.62	
			<i>For >20 To 40, Deduct</i>	-255.24	
			<i>For >40, Deduct</i>	-413.23	
26 56 13 00-0156	EA		25' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base	5,213.40	636.31
			<i>For >10 To 20, Deduct</i>	-130.34	
			<i>For >20 To 40, Deduct</i>	-260.67	
			<i>For >40, Deduct</i>	-422.82	
26 56 13 00-0157	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base	5,348.61	636.31
			<i>For >10 To 20, Deduct</i>	-133.72	
			<i>For >20 To 40, Deduct</i>	-267.43	
			<i>For >40, Deduct</i>	-432.96	
26 56 13 00-0158	EA		30' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base	5,817.58	665.23
			<i>For >10 To 20, Deduct</i>	-145.44	
			<i>For >20 To 40, Deduct</i>	-290.88	
			<i>For >40, Deduct</i>	-469.58	
26 56 13 00-0159	EA		30' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base	6,686.59	694.16
			<i>For >10 To 20, Deduct</i>	-167.16	
			<i>For >20 To 40, Deduct</i>	-334.33	
			<i>For >40, Deduct</i>	-536.20	
26 56 13 00-0160	EA		35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base	6,468.16	665.23
			<i>For >10 To 20, Deduct</i>	-161.70	
			<i>For >20 To 40, Deduct</i>	-323.41	
			<i>For >40, Deduct</i>	-518.37	
26 56 13 00-0161	EA		35' High, 10" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base	6,592.09	694.16
			<i>For >10 To 20, Deduct</i>	-164.80	
			<i>For >20 To 40, Deduct</i>	-329.60	
			<i>For >40, Deduct</i>	-529.11	
26 56 13 00-0162	EA		35' High, 10" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base	8,037.07	723.08
			<i>For >10 To 20, Deduct</i>	-200.93	
			<i>For >20 To 40, Deduct</i>	-401.85	
			<i>For >40, Deduct</i>	-638.93	
26 56 13 00-0163			Round Tapered, Aluminum Roadway Light Poles With Davit Style Arm <small>(26 56 13 00-0091)</small>		
26 56 13 00-0164			Round Tapered, Aluminum Roadway Light Poles With Single Davit Style Arm <small>(26 56 13 00-0163)</small>		
26 56 13 00-0165	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base	3,142.14	347.08
			<i>For >10 To 20, Deduct</i>	-78.55	
			<i>For >20 To 40, Deduct</i>	-157.11	
			<i>For >40, Deduct</i>	-253.01	
26 56 13 00-0166	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base	3,229.35	347.08
			<i>For >10 To 20, Deduct</i>	-80.73	
			<i>For >20 To 40, Deduct</i>	-161.47	
			<i>For >40, Deduct</i>	-259.56	
26 56 13 00-0167	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base	3,316.74	347.08
			<i>For >10 To 20, Deduct</i>	-82.92	
			<i>For >20 To 40, Deduct</i>	-165.84	
			<i>For >40, Deduct</i>	-266.11	
26 56 13 00-0168	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base	3,730.10	462.77
			<i>For >10 To 20, Deduct</i>	-93.25	
			<i>For >20 To 40, Deduct</i>	-186.51	
			<i>For >40, Deduct</i>	-302.90	
26 56 13 00-0169	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base	3,796.57	462.77
			<i>For >10 To 20, Deduct</i>	-94.91	
			<i>For >20 To 40, Deduct</i>	-189.83	
			<i>For >40, Deduct</i>	-307.88	
26 56 13 00-0170	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base	3,869.20	462.77
			<i>For >10 To 20, Deduct</i>	-96.73	
			<i>For >20 To 40, Deduct</i>	-193.46	
			<i>For >40, Deduct</i>	-313.33	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0171	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	4,210.15	520.61
			<i>For >10 To 20, Deduct</i>	-105.25	
			<i>For >20 To 40, Deduct</i>	-210.51	
			<i>For >40, Deduct</i>	-341.79	
26 56 13 00-0172	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	4,300.39	520.61
			<i>For >10 To 20, Deduct</i>	-107.51	
			<i>For >20 To 40, Deduct</i>	-215.02	
			<i>For >40, Deduct</i>	-348.56	
26 56 13 00-0173	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base.....	4,313.93	520.61
			<i>For >10 To 20, Deduct</i>	-107.85	
			<i>For >20 To 40, Deduct</i>	-215.70	
			<i>For >40, Deduct</i>	-349.58	
26 56 13 00-0174	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	4,589.07	549.54
			<i>For >10 To 20, Deduct</i>	-114.73	
			<i>For >20 To 40, Deduct</i>	-229.45	
			<i>For >40, Deduct</i>	-371.66	
26 56 13 00-0175	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	4,628.65	549.54
			<i>For >10 To 20, Deduct</i>	-115.72	
			<i>For >20 To 40, Deduct</i>	-231.43	
			<i>For >40, Deduct</i>	-374.63	
26 56 13 00-0176	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base.....	4,721.44	549.54
			<i>For >10 To 20, Deduct</i>	-118.04	
			<i>For >20 To 40, Deduct</i>	-236.07	
			<i>For >40, Deduct</i>	-381.59	
26 56 13 00-0177			Area Light Poles <small>(26 56 13 00-0001)</small>		
			Note: Excludes lighting fixtures.		
26 56 13 00-0178			Steel Area Light Poles <small>(26 56 13 00-0177)</small>		
			Note: Includes powdercoat finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.		
26 56 13 00-0179			Round Straight, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56 13 00-0180			Round Straight, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0179)</small>		
26 56 13 00-0181	EA		10' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	972.47	202.46
			<i>For Galvanized Finish, Add</i>	17.03	
			<i>For >10 To 20, Deduct</i>	-32.82	
			<i>For >20 To 40, Deduct</i>	-59.97	
			<i>For >40, Deduct</i>	-125.62	
26 56 13 00-0182	EA		12' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,061.75	231.38
			<i>For Galvanized Finish, Add</i>	17.97	
			<i>For >10 To 20, Deduct</i>	-35.53	
			<i>For >20 To 40, Deduct</i>	-65.07	
			<i>For >40, Deduct</i>	-136.12	
26 56 13 00-0183	EA		14' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,187.19	260.31
			<i>For Galvanized Finish, Add</i>	20.00	
			<i>For >10 To 20, Deduct</i>	-39.68	
			<i>For >20 To 40, Deduct</i>	-72.69	
			<i>For >40, Deduct</i>	-152.05	
26 56 13 00-0184	EA		16' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,315.78	289.23
			<i>For Galvanized Finish, Add</i>	22.12	
			<i>For >10 To 20, Deduct</i>	-43.95	
			<i>For >20 To 40, Deduct</i>	-80.54	
			<i>For >40, Deduct</i>	-168.44	
26 56 13 00-0185	EA		18' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,405.08	318.15
			<i>For Galvanized Finish, Add</i>	23.06	
			<i>For >10 To 20, Deduct</i>	-46.66	
			<i>For >20 To 40, Deduct</i>	-85.63	
			<i>For >40, Deduct</i>	-178.95	
26 56 13 00-0186	EA		20' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,486.51	347.08
			<i>For Galvanized Finish, Add</i>	23.77	
			<i>For >10 To 20, Deduct</i>	-49.05	
			<i>For >20 To 40, Deduct</i>	-90.17	
			<i>For >40, Deduct</i>	-188.27	
26 56 13 00-0187	EA		10' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,013.34	202.46
			<i>For Galvanized Finish, Add</i>	18.25	
			<i>For >10 To 20, Deduct</i>	-34.46	
			<i>For >20 To 40, Deduct</i>	-62.84	
			<i>For >40, Deduct</i>	-131.75	
26 56 13 00-0188	EA		12' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,104.19	231.38
			<i>For Galvanized Finish, Add</i>	19.24	
			<i>For >10 To 20, Deduct</i>	-37.23	
			<i>For >20 To 40, Deduct</i>	-68.04	
			<i>For >40, Deduct</i>	-142.49	
26 56 13 00-0189	EA		14' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,272.08	260.31
			<i>For Galvanized Finish, Add</i>	22.54	
			<i>For >10 To 20, Deduct</i>	-43.07	
			<i>For >20 To 40, Deduct</i>	-78.63	
			<i>For >40, Deduct</i>	-164.78	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0190 EA 16' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,370.81	289.23
For Galvanized Finish, Add	23.77	
For >10 To 20, Deduct	-46.16	
For >20 To 40, Deduct	-84.39	
For >40, Deduct	-176.70	
26 56 13 00-0191 EA 18' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,464.82	318.15
For Galvanized Finish, Add	24.86	
For >10 To 20, Deduct	-49.05	
For >20 To 40, Deduct	-89.81	
For >40, Deduct	-187.91	
26 56 13 00-0192 EA 20' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,543.10	347.08
For Galvanized Finish, Add	25.47	
For >10 To 20, Deduct	-51.31	
For >20 To 40, Deduct	-94.13	
For >40, Deduct	-196.76	
26 56 13 00-0193 EA 25' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,832.65	462.77
For Galvanized Finish, Add	27.21	
For >10 To 20, Deduct	-59.42	
For >20 To 40, Deduct	-109.77	
For >40, Deduct	-228.62	
26 56 13 00-0194 EA 10' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,013.34	202.46
For Galvanized Finish, Add	18.25	
For >10 To 20, Deduct	-34.46	
For >20 To 40, Deduct	-62.84	
For >40, Deduct	-131.75	
26 56 13 00-0195 EA 12' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,108.91	231.38
For Galvanized Finish, Add	19.38	
For >10 To 20, Deduct	-37.41	
For >20 To 40, Deduct	-68.37	
For >40, Deduct	-143.20	
26 56 13 00-0196 EA 14' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,297.24	260.31
For Galvanized Finish, Add	23.30	
For >10 To 20, Deduct	-44.08	
For >20 To 40, Deduct	-80.39	
For >40, Deduct	-168.56	
26 56 13 00-0197 EA 16' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,375.52	289.23
For Galvanized Finish, Add	23.91	
For >10 To 20, Deduct	-46.34	
For >20 To 40, Deduct	-84.72	
For >40, Deduct	-177.41	
26 56 13 00-0198 EA 18' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,464.82	318.15
For Galvanized Finish, Add	24.86	
For >10 To 20, Deduct	-49.05	
For >20 To 40, Deduct	-89.81	
For >40, Deduct	-187.91	
26 56 13 00-0199 EA 20' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,543.10	347.08
For Galvanized Finish, Add	25.47	
For >10 To 20, Deduct	-51.31	
For >20 To 40, Deduct	-94.13	
For >40, Deduct	-196.76	
26 56 13 00-0200 EA 25' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,876.67	462.77
For Galvanized Finish, Add	28.53	
For >10 To 20, Deduct	-61.18	
For >20 To 40, Deduct	-112.86	
For >40, Deduct	-235.22	
26 56 13 00-0201 EA 30' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,074.11	520.61
For Galvanized Finish, Add	30.99	
For >10 To 20, Deduct	-67.35	
For >20 To 40, Deduct	-124.36	
For >40, Deduct	-259.06	
26 56 13 00-0202 EA 20' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,643.72	347.08
For Galvanized Finish, Add	28.49	
For >10 To 20, Deduct	-55.34	
For >20 To 40, Deduct	-101.18	
For >40, Deduct	-211.85	
26 56 13 00-0203 EA 25' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,897.11	462.77
For Galvanized Finish, Add	29.15	
For >10 To 20, Deduct	-62.00	
For >20 To 40, Deduct	-114.29	
For >40, Deduct	-238.29	
26 56 13 00-0204 EA 30' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,113.43	520.61
For Galvanized Finish, Add	32.17	
For >10 To 20, Deduct	-68.92	
For >20 To 40, Deduct	-127.12	
For >40, Deduct	-264.95	
26 56 13 00-0205 Round Tapered, Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0206 Round Tapered, Steel Area Light Poles, Anchor Base (26 56 13 00-0205)		
26 56 13 00-0207 EA 20' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	1,999.02	347.08
For Galvanized Finish, Add	39.15	
For >10 To 20, Deduct	-69.55	
For >20 To 40, Deduct	-126.05	
For >40, Deduct	-265.15	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0208	EA	20' High, 6.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	2,047.76	347.08
			<i>For Galvanized Finish, Add</i>	40.61	
			<i>For >10 To 20, Deduct</i>	-71.50	
			<i>For >20 To 40, Deduct</i>	-129.46	
			<i>For >40, Deduct</i>	-272.46	
26 56	13 00-0209	EA	25' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	2,386.04	462.77
			<i>For Galvanized Finish, Add</i>	43.82	
			<i>For >10 To 20, Deduct</i>	-81.56	
			<i>For >20 To 40, Deduct</i>	-148.51	
			<i>For >40, Deduct</i>	-311.63	
26 56	13 00-0210	EA	25' High, 7.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	2,486.66	462.77
			<i>For Galvanized Finish, Add</i>	46.83	
			<i>For >10 To 20, Deduct</i>	-85.58	
			<i>For >20 To 40, Deduct</i>	-155.56	
			<i>For >40, Deduct</i>	-326.72	
26 56	13 00-0211	EA	30' High, 6.60" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	2,658.95	520.61
			<i>For Galvanized Finish, Add</i>	48.53	
			<i>For >10 To 20, Deduct</i>	-90.74	
			<i>For >20 To 40, Deduct</i>	-165.30	
			<i>For >40, Deduct</i>	-346.78	
26 56	13 00-0212	EA	30' High, 8.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	2,827.17	520.61
			<i>For Galvanized Finish, Add</i>	53.58	
			<i>For >10 To 20, Deduct</i>	-97.47	
			<i>For >20 To 40, Deduct</i>	-177.08	
			<i>For >40, Deduct</i>	-372.01	
26 56	13 00-0213	EA	35' High, 7.30" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	2,919.60	549.54
			<i>For Galvanized Finish, Add</i>	54.62	
			<i>For >10 To 20, Deduct</i>	-100.30	
			<i>For >20 To 40, Deduct</i>	-182.39	
			<i>For >40, Deduct</i>	-382.99	
26 56	13 00-0214	EA	35' High, 8.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	3,023.35	549.54
			<i>For Galvanized Finish, Add</i>	57.73	
			<i>For >10 To 20, Deduct</i>	-104.45	
			<i>For >20 To 40, Deduct</i>	-189.65	
			<i>For >40, Deduct</i>	-398.55	
26 56	13 00-0215	EA	35' High, 9.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	3,271.75	549.54
			<i>For Galvanized Finish, Add</i>	65.18	
			<i>For >10 To 20, Deduct</i>	-114.38	
			<i>For >20 To 40, Deduct</i>	-207.04	
			<i>For >40, Deduct</i>	-435.81	
26 56	13 00-0216	EA	39' High, 7.82" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	3,310.73	578.46
			<i>For Galvanized Finish, Add</i>	64.61	
			<i>For >10 To 20, Deduct</i>	-115.08	
			<i>For >20 To 40, Deduct</i>	-208.61	
			<i>For >40, Deduct</i>	-438.76	
26 56	13 00-0217	EA	39' High, 9.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	3,354.75	578.46
			<i>For Galvanized Finish, Add</i>	65.93	
			<i>For >10 To 20, Deduct</i>	-116.84	
			<i>For >20 To 40, Deduct</i>	-211.69	
			<i>For >40, Deduct</i>	-445.37	
26 56	13 00-0218	EA	45' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	4,549.21	752.00
			<i>For Galvanized Finish, Add</i>	91.36	
			<i>For >10 To 20, Deduct</i>	-159.41	
			<i>For >20 To 40, Deduct</i>	-288.36	
			<i>For >40, Deduct</i>	-607.18	
26 56	13 00-0219	EA	50' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	4,771.15	867.69
			<i>For Galvanized Finish, Add</i>	91.07	
			<i>For >10 To 20, Deduct</i>	-164.82	
			<i>For >20 To 40, Deduct</i>	-299.27	
			<i>For >40, Deduct</i>	-628.90	
26 56	13 00-0220	EA	25' High, 7.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	3,168.96	462.77
			<i>For Galvanized Finish, Add</i>	67.30	
			<i>For >10 To 20, Deduct</i>	-112.88	
			<i>For >20 To 40, Deduct</i>	-203.32	
			<i>For >40, Deduct</i>	-429.07	
26 56	13 00-0221	EA	30' High, 8.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	3,595.94	520.61
			<i>For Galvanized Finish, Add</i>	76.64	
			<i>For >10 To 20, Deduct</i>	-128.22	
			<i>For >20 To 40, Deduct</i>	-230.89	
			<i>For >40, Deduct</i>	-487.33	
26 56	13 00-0222	EA	39' High, 9.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	4,158.11	578.46
			<i>For Galvanized Finish, Add</i>	90.04	
			<i>For >10 To 20, Deduct</i>	-148.97	
			<i>For >20 To 40, Deduct</i>	-267.93	
			<i>For >40, Deduct</i>	-565.87	
26 56	13 00-0223	EA	45' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	5,039.71	752.00
			<i>For Galvanized Finish, Add</i>	106.07	
			<i>For >10 To 20, Deduct</i>	-179.03	
			<i>For >20 To 40, Deduct</i>	-322.70	
			<i>For >40, Deduct</i>	-680.76	
26 56	13 00-0224	EA	50' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	5,877.93	867.69
			<i>For Galvanized Finish, Add</i>	124.28	
			<i>For >10 To 20, Deduct</i>	-209.09	
			<i>For >20 To 40, Deduct</i>	-376.75	
			<i>For >40, Deduct</i>	-794.92	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0225	EA		50' High, 11.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	6,517.78	867.69
			<i>For Galvanized Finish, Add</i>	143.47	
			<i>For >10 To 20, Deduct</i>	-234.68	
			<i>For >20 To 40, Deduct</i>	-421.54	
			<i>For >40, Deduct</i>	-890.90	
26 56 13 00-0226	EA		50' High, 13.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	8,655.86	867.69
			<i>For Galvanized Finish, Add</i>	207.61	
			<i>For >10 To 20, Deduct</i>	-320.20	
			<i>For >20 To 40, Deduct</i>	-571.20	
			<i>For >40, Deduct</i>	-1,211.61	
26 56 13 00-0227	EA		50' High, 13.00" Base OD, 3 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	9,693.46	867.69
			<i>For Galvanized Finish, Add</i>	238.74	
			<i>For >10 To 20, Deduct</i>	-361.71	
			<i>For >20 To 40, Deduct</i>	-643.83	
			<i>For >40, Deduct</i>	-1,367.25	
26 56 13 00-0228			Square Straight, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56 13 00-0229			Square Straight, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0228)</small>		
26 56 13 00-0230	EA		10' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	959.89	202.46
			<i>For Galvanized Finish, Add</i>	16.65	
			<i>For >10 To 20, Deduct</i>	-32.32	
			<i>For >20 To 40, Deduct</i>	-59.09	
			<i>For >40, Deduct</i>	-123.74	
26 56 13 00-0231	EA		12' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,017.73	231.38
			<i>For Galvanized Finish, Add</i>	16.65	
			<i>For >10 To 20, Deduct</i>	-33.77	
			<i>For >20 To 40, Deduct</i>	-61.99	
			<i>For >40, Deduct</i>	-129.52	
26 56 13 00-0232	EA		14' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,102.29	260.31
			<i>For Galvanized Finish, Add</i>	17.45	
			<i>For >10 To 20, Deduct</i>	-36.28	
			<i>For >20 To 40, Deduct</i>	-66.75	
			<i>For >40, Deduct</i>	-139.31	
26 56 13 00-0233	EA		15' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,168.96	274.77
			<i>For Galvanized Finish, Add</i>	18.58	
			<i>For >10 To 20, Deduct</i>	-38.52	
			<i>For >20 To 40, Deduct</i>	-70.84	
			<i>For >40, Deduct</i>	-147.87	
26 56 13 00-0234	EA		16' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,197.88	289.23
			<i>For Galvanized Finish, Add</i>	18.58	
			<i>For >10 To 20, Deduct</i>	-39.24	
			<i>For >20 To 40, Deduct</i>	-72.28	
			<i>For >40, Deduct</i>	-150.76	
26 56 13 00-0235	EA		18' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,273.02	318.15
			<i>For Galvanized Finish, Add</i>	19.10	
			<i>For >10 To 20, Deduct</i>	-41.38	
			<i>For >20 To 40, Deduct</i>	-76.39	
			<i>For >40, Deduct</i>	-159.14	
26 56 13 00-0236	EA		20' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,345.02	347.08
			<i>For Galvanized Finish, Add</i>	19.53	
			<i>For >10 To 20, Deduct</i>	-43.39	
			<i>For >20 To 40, Deduct</i>	-80.27	
			<i>For >40, Deduct</i>	-167.05	
26 56 13 00-0237	EA		25' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,670.72	462.77
			<i>For Galvanized Finish, Add</i>	22.36	
			<i>For >10 To 20, Deduct</i>	-52.95	
			<i>For >20 To 40, Deduct</i>	-98.44	
			<i>For >40, Deduct</i>	-204.33	
26 56 13 00-0238	EA		20' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,557.25	347.08
			<i>For Galvanized Finish, Add</i>	25.89	
			<i>For >10 To 20, Deduct</i>	-51.88	
			<i>For >20 To 40, Deduct</i>	-95.12	
			<i>For >40, Deduct</i>	-198.88	
26 56 13 00-0239	EA		25' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,963.14	462.77
			<i>For Galvanized Finish, Add</i>	31.13	
			<i>For >10 To 20, Deduct</i>	-64.64	
			<i>For >20 To 40, Deduct</i>	-118.91	
			<i>For >40, Deduct</i>	-248.19	
26 56 13 00-0240	EA		30' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,250.20	520.61
			<i>For Galvanized Finish, Add</i>	36.27	
			<i>For >10 To 20, Deduct</i>	-74.39	
			<i>For >20 To 40, Deduct</i>	-136.69	
			<i>For >40, Deduct</i>	-285.47	
26 56 13 00-0241	EA		20' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,499.09	347.08
			<i>For Galvanized Finish, Add</i>	24.15	
			<i>For >10 To 20, Deduct</i>	-49.55	
			<i>For >20 To 40, Deduct</i>	-91.05	
			<i>For >40, Deduct</i>	-190.16	
26 56 13 00-0242	EA		25' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,849.95	462.77
			<i>For Galvanized Finish, Add</i>	27.73	
			<i>For >10 To 20, Deduct</i>	-60.11	
			<i>For >20 To 40, Deduct</i>	-110.99	
			<i>For >40, Deduct</i>	-231.22	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0243	EA		30' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,152.73	520.61
			<i>For Galvanized Finish, Add</i>	33.34	
			<i>For >10 To 20, Deduct</i>	-70.49	
			<i>For >20 To 40, Deduct</i>	-129.87	
			<i>For >40, Deduct</i>	-270.85	
26 56 13 00-0244	EA		20' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,698.74	347.08
			<i>For Galvanized Finish, Add</i>	30.14	
			<i>For >10 To 20, Deduct</i>	-57.54	
			<i>For >20 To 40, Deduct</i>	-105.03	
			<i>For >40, Deduct</i>	-220.10	
26 56 13 00-0245	EA		25' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,104.63	462.77
			<i>For Galvanized Finish, Add</i>	35.37	
			<i>For >10 To 20, Deduct</i>	-70.30	
			<i>For >20 To 40, Deduct</i>	-128.81	
			<i>For >40, Deduct</i>	-269.42	
26 56 13 00-0246	EA		30' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,383.83	520.61
			<i>For Galvanized Finish, Add</i>	40.28	
			<i>For >10 To 20, Deduct</i>	-79.73	
			<i>For >20 To 40, Deduct</i>	-146.04	
			<i>For >40, Deduct</i>	-305.51	
26 56 13 00-0247	EA		35' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,636.61	549.54
			<i>For Galvanized Finish, Add</i>	46.13	
			<i>For >10 To 20, Deduct</i>	-88.98	
			<i>For >20 To 40, Deduct</i>	-162.58	
			<i>For >40, Deduct</i>	-340.54	
26 56 13 00-0248	EA		30' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,693.54	520.61
			<i>For Galvanized Finish, Add</i>	49.57	
			<i>For >10 To 20, Deduct</i>	-92.12	
			<i>For >20 To 40, Deduct</i>	-167.72	
			<i>For >40, Deduct</i>	-351.97	
26 56 13 00-0249	EA		35' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,947.89	549.54
			<i>For Galvanized Finish, Add</i>	55.46	
			<i>For >10 To 20, Deduct</i>	-101.43	
			<i>For >20 To 40, Deduct</i>	-184.37	
			<i>For >40, Deduct</i>	-387.23	
26 56 13 00-0250	EA		40' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,117.36	578.46
			<i>For Galvanized Finish, Add</i>	58.81	
			<i>For >10 To 20, Deduct</i>	-107.34	
			<i>For >20 To 40, Deduct</i>	-195.08	
			<i>For >40, Deduct</i>	-409.76	
26 56 13 00-0251			Hinged, Square Straight, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56 13 00-0252			Hinged, Square Straight, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0251)</small>		
26 56 13 00-0253	EA		20' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base.....	3,301.06	347.08
			<i>For Galvanized Finish, Add</i>	78.21	
			<i>For >10 To 20, Deduct</i>	-121.63	
			<i>For >20 To 40, Deduct</i>	-217.19	
			<i>For >40, Deduct</i>	-460.45	
26 56 13 00-0254	EA		25' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base.....	3,709.69	462.77
			<i>For Galvanized Finish, Add</i>	83.52	
			<i>For >10 To 20, Deduct</i>	-134.50	
			<i>For >20 To 40, Deduct</i>	-241.17	
			<i>For >40, Deduct</i>	-510.18	
26 56 13 00-0255	EA		30' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base.....	5,149.75	520.61
			<i>For Galvanized Finish, Add</i>	123.26	
			<i>For >10 To 20, Deduct</i>	-190.37	
			<i>For >20 To 40, Deduct</i>	-339.66	
			<i>For >40, Deduct</i>	-720.40	
26 56 13 00-0256	EA		20' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base.....	3,364.61	347.08
			<i>For Galvanized Finish, Add</i>	80.11	
			<i>For >10 To 20, Deduct</i>	-124.17	
			<i>For >20 To 40, Deduct</i>	-221.64	
			<i>For >40, Deduct</i>	-469.98	
26 56 13 00-0257	EA		25' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base.....	4,079.24	462.77
			<i>For Galvanized Finish, Add</i>	94.61	
			<i>For >10 To 20, Deduct</i>	-149.29	
			<i>For >20 To 40, Deduct</i>	-267.04	
			<i>For >40, Deduct</i>	-565.61	
26 56 13 00-0258	EA		30' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base.....	5,699.89	520.61
			<i>For Galvanized Finish, Add</i>	139.76	
			<i>For >10 To 20, Deduct</i>	-212.38	
			<i>For >20 To 40, Deduct</i>	-378.17	
			<i>For >40, Deduct</i>	-802.92	
26 56 13 00-0259	EA		35' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base.....	6,525.25	549.54
			<i>For Galvanized Finish, Add</i>	162.79	
			<i>For >10 To 20, Deduct</i>	-244.52	
			<i>For >20 To 40, Deduct</i>	-434.79	
			<i>For >40, Deduct</i>	-923.83	
26 56 13 00-0260	EA		39' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base.....	7,648.27	578.46
			<i>For Galvanized Finish, Add</i>	194.74	
			<i>For >10 To 20, Deduct</i>	-288.58	
			<i>For >20 To 40, Deduct</i>	-512.24	
			<i>For >40, Deduct</i>	-1,089.39	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0261	EA 20' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,200.73 75.20 -117.62 -210.17 -445.40	347.08
26 56 13 00-0262	EA 25' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,549.17 78.71 -128.08 -229.93 -486.10	462.77
26 56 13 00-0263	EA 30' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,867.15 114.78 -179.07 -319.88 -678.01	520.61
26 56 13 00-0264	EA 20' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,316.11 78.66 -122.23 -218.24 -462.71	347.08
26 56 13 00-0265	EA 25' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,928.75 90.10 -143.27 -256.50 -543.04	462.77
26 56 13 00-0266	EA 30' High, 6.44" OD, 7 Gauge, Hinged Square Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	5,490.87 133.49 -204.02 -363.54 -771.57	520.61
26 56 13 00-0267	EA 20' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,493.36 83.98 -129.32 -230.65 -489.30	347.08
26 56 13 00-0268	EA 25' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,248.13 99.68 -156.04 -278.86 -590.94	462.77
26 56 13 00-0269	EA 30' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	5,867.11 144.78 -219.07 -389.87 -828.00	520.61
26 56 13 00-0270	EA 35' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	6,729.26 168.91 -252.68 -449.07 -954.44	549.54
26 56 13 00-0271	EA 39' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	7,756.96 198.00 -292.92 -519.85 -1,105.70	578.46
26 56 13 00-0272	Square Tapered, Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0273	Square Tapered, Steel Area Light Poles, Anchor Base (26 56 13 00-0272)		
26 56 13 00-0274	EA 20' High, 5.25" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,528.82 55.04 -90.74 -163.13 -344.62	347.08
26 56 13 00-0275	EA 25' High, 6.00" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,084.06 64.76 -109.48 -197.37 -416.33	462.77
26 56 13 00-0276	EA 30' High, 6.41" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,434.01 71.78 -121.74 -219.56 -463.04	520.61
26 56 13 00-0277	EA 35' High, 6.81" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,801.55 81.07 -135.58 -244.13 -515.28	549.54
26 56 13 00-0278	EA 39' High, 7.18" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,007.18 85.51 -142.93 -257.36 -543.23	578.46



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0279	EA		20' High, 5.50" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	3,234.71	347.08
			<i>For Galvanized Finish, Add</i>	76.22	
			<i>For >10 To 20, Deduct</i>	-118.98	
			<i>For >20 To 40, Deduct</i>	-212.55	
			<i>For >40, Deduct</i>	-450.50	
26 56 13 00-0280	EA		25' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	3,637.45	462.77
			<i>For Galvanized Finish, Add</i>	81.36	
			<i>For >10 To 20, Deduct</i>	-131.61	
			<i>For >20 To 40, Deduct</i>	-236.11	
			<i>For >40, Deduct</i>	-499.34	
26 56 13 00-0281	EA		30' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	3,886.78	520.61
			<i>For Galvanized Finish, Add</i>	85.37	
			<i>For >10 To 20, Deduct</i>	-139.85	
			<i>For >20 To 40, Deduct</i>	-251.25	
			<i>For >40, Deduct</i>	-530.96	
26 56 13 00-0282	EA		30' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	4,301.82	520.61
			<i>For Galvanized Finish, Add</i>	97.82	
			<i>For >10 To 20, Deduct</i>	-156.45	
			<i>For >20 To 40, Deduct</i>	-280.30	
			<i>For >40, Deduct</i>	-593.21	
26 56 13 00-0283	EA		35' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	4,658.36	549.54
			<i>For Galvanized Finish, Add</i>	106.78	
			<i>For >10 To 20, Deduct</i>	-169.85	
			<i>For >20 To 40, Deduct</i>	-304.10	
			<i>For >40, Deduct</i>	-643.80	
26 56 13 00-0284	EA		35' High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	5,172.44	549.54
			<i>For Galvanized Finish, Add</i>	122.20	
			<i>For >10 To 20, Deduct</i>	-190.41	
			<i>For >20 To 40, Deduct</i>	-340.09	
			<i>For >40, Deduct</i>	-720.91	
26 56 13 00-0285	EA		39' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	4,739.79	578.46
			<i>For Galvanized Finish, Add</i>	107.49	
			<i>For >10 To 20, Deduct</i>	-172.24	
			<i>For >20 To 40, Deduct</i>	-308.65	
			<i>For >40, Deduct</i>	-653.12	
26 56 13 00-0286	EA		39' High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	6,005.35	578.46
			<i>For Galvanized Finish, Add</i>	145.45	
			<i>For >10 To 20, Deduct</i>	-222.86	
			<i>For >20 To 40, Deduct</i>	-397.24	
			<i>For >40, Deduct</i>	-842.96	
26 56 13 00-0287	EA		45' High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	5,619.82	752.00
			<i>For Galvanized Finish, Add</i>	123.47	
			<i>For >10 To 20, Deduct</i>	-202.23	
			<i>For >20 To 40, Deduct</i>	-363.31	
			<i>For >40, Deduct</i>	-767.77	
26 56 13 00-0288	EA		45' High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	6,482.91	752.00
			<i>For Galvanized Finish, Add</i>	149.37	
			<i>For >10 To 20, Deduct</i>	-236.76	
			<i>For >20 To 40, Deduct</i>	-423.72	
			<i>For >40, Deduct</i>	-897.24	
26 56 13 00-0289	EA		50' High, 8.81" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	6,758.31	867.69
			<i>For Galvanized Finish, Add</i>	150.69	
			<i>For >10 To 20, Deduct</i>	-244.30	
			<i>For >20 To 40, Deduct</i>	-438.37	
			<i>For >40, Deduct</i>	-926.98	
26 56 13 00-0290	Factory Accessories For Steel Area Light Poles <small>(26 56 13 00-0178)</small>				
26 56 13 00-0291	EA		1/2", 3/4" Or 1" Factory Threaded Pipe Coupling Or Nipple For Steel Area Light Poles	55.74	
26 56 13 00-0292	EA		Extra Handhole For Steel Area Light Poles.....	82.89	
26 56 13 00-0293	EA		Vibration Dampener For Steel Area Light Poles	84.32	
26 56 13 00-0294	Aluminum Area Light Poles <small>(26 56 13 00-0177)</small>				
Note: Includes satin brushed or painted finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.					
26 56 13 00-0295	Round Straight, Aluminum Area Light Poles <small>(26 56 13 00-0294)</small>				
26 56 13 00-0296	Round Straight, Aluminum Area Light Poles, Anchor Base <small>(26 56 13 00-0295)</small>				
26 56 13 00-0297	EA		8' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base.....	770.20	173.54
			<i>For Bronze Or Satin Anodized Finish, Add</i>	42.31	
			<i>For Black Anodized Finish, Add</i>	84.62	
			<i>For >10 To 20, Deduct</i>	-25.60	
			<i>For >20 To 40, Deduct</i>	-46.97	
			<i>For >40, Deduct</i>	-98.18	
26 56 13 00-0298	EA		10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base.....	849.75	202.46
			<i>For Bronze Or Satin Anodized Finish, Add</i>	44.48	
			<i>For Black Anodized Finish, Add</i>	88.96	
			<i>For >10 To 20, Deduct</i>	-27.92	
			<i>For >20 To 40, Deduct</i>	-51.38	
			<i>For >40, Deduct</i>	-107.22	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0299	EA	12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base.....	934.71	231.38
		<i>For Bronze Or Satin Anodized Finish, Add</i>	47.19	
		<i>For Black Anodized Finish, Add</i>	94.39	
		<i>For >10 To 20, Deduct</i>	-30.45	
		<i>For >20 To 40, Deduct</i>	-56.17	
		<i>For >40, Deduct</i>	-117.07	
26 56 13 00-0300	EA	14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base.....	1,020.76	260.31
		<i>For Bronze Or Satin Anodized Finish, Add</i>	50.02	
		<i>For Black Anodized Finish, Add</i>	100.03	
		<i>For >10 To 20, Deduct</i>	-33.02	
		<i>For >20 To 40, Deduct</i>	-61.04	
		<i>For >40, Deduct</i>	-127.08	
26 56 13 00-0301	EA	15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base.....	1,068.14	274.77
		<i>For Bronze Or Satin Anodized Finish, Add</i>	51.86	
		<i>For Black Anodized Finish, Add</i>	103.72	
		<i>For >10 To 20, Deduct</i>	-34.48	
		<i>For >20 To 40, Deduct</i>	-63.78	
		<i>For >40, Deduct</i>	-132.74	
26 56 13 00-0302	EA	16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base.....	1,114.42	289.23
		<i>For Bronze Or Satin Anodized Finish, Add</i>	53.60	
		<i>For Black Anodized Finish, Add</i>	107.19	
		<i>For >10 To 20, Deduct</i>	-35.90	
		<i>For >20 To 40, Deduct</i>	-66.44	
		<i>For >40, Deduct</i>	-138.24	
26 56 13 00-0303	EA	16' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base.....	1,179.51	289.23
		<i>For Bronze Or Satin Anodized Finish, Add</i>	60.11	
		<i>For Black Anodized Finish, Add</i>	120.21	
		<i>For >10 To 20, Deduct</i>	-38.50	
		<i>For >20 To 40, Deduct</i>	-71.00	
		<i>For >40, Deduct</i>	-148.00	
26 56 13 00-0304	EA	18' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base.....	1,278.59	318.15
		<i>For Bronze Or Satin Anodized Finish, Add</i>	64.23	
		<i>For Black Anodized Finish, Add</i>	128.46	
		<i>For >10 To 20, Deduct</i>	-41.60	
		<i>For >20 To 40, Deduct</i>	-76.78	
		<i>For >40, Deduct</i>	-159.97	
26 56 13 00-0305	EA	20' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base.....	1,371.16	347.08
		<i>For Bronze Or Satin Anodized Finish, Add</i>	67.70	
		<i>For Black Anodized Finish, Add</i>	135.40	
		<i>For >10 To 20, Deduct</i>	-44.43	
		<i>For >20 To 40, Deduct</i>	-82.10	
		<i>For >40, Deduct</i>	-170.97	
26 56 13 00-0306	EA	15' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base.....	1,307.91	274.77
		<i>For Bronze Or Satin Anodized Finish, Add</i>	75.84	
		<i>For Black Anodized Finish, Add</i>	151.67	
		<i>For >10 To 20, Deduct</i>	-44.07	
		<i>For >20 To 40, Deduct</i>	-80.56	
		<i>For >40, Deduct</i>	-168.71	
26 56 13 00-0307	EA	20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base.....	1,610.93	347.08
		<i>For Bronze Or Satin Anodized Finish, Add</i>	91.68	
		<i>For Black Anodized Finish, Add</i>	183.35	
		<i>For >10 To 20, Deduct</i>	-54.02	
		<i>For >20 To 40, Deduct</i>	-98.88	
		<i>For >40, Deduct</i>	-206.93	
26 56 13 00-0308	EA	20' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base.....	1,732.44	347.08
		<i>For Bronze Or Satin Anodized Finish, Add</i>	103.83	
		<i>For Black Anodized Finish, Add</i>	207.66	
		<i>For >10 To 20, Deduct</i>	-58.89	
		<i>For >20 To 40, Deduct</i>	-107.39	
		<i>For >40, Deduct</i>	-225.16	
26 56 13 00-0309	EA	25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base.....	2,077.74	462.77
		<i>For Bronze Or Satin Anodized Finish, Add</i>	115.22	
		<i>For Black Anodized Finish, Add</i>	230.44	
		<i>For >10 To 20, Deduct</i>	-69.23	
		<i>For >20 To 40, Deduct</i>	-126.93	
		<i>For >40, Deduct</i>	-265.38	
26 56 13 00-0310	EA	30' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base.....	2,409.34	520.61
		<i>For Bronze Or Satin Anodized Finish, Add</i>	136.81	
		<i>For Black Anodized Finish, Add</i>	273.62	
		<i>For >10 To 20, Deduct</i>	-80.76	
		<i>For >20 To 40, Deduct</i>	-147.83	
		<i>For >40, Deduct</i>	-309.34	
26 56 13 00-0311	EA	20' High, 4" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base.....	1,446.02	347.08
		<i>For Bronze Or Satin Anodized Finish, Add</i>	75.19	
		<i>For Black Anodized Finish, Add</i>	150.37	
		<i>For >10 To 20, Deduct</i>	-47.43	
		<i>For >20 To 40, Deduct</i>	-87.34	
		<i>For >40, Deduct</i>	-182.20	
26 56 13 00-0312	EA	20' High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base.....	1,722.67	347.08
		<i>For Bronze Or Satin Anodized Finish, Add</i>	102.85	
		<i>For Black Anodized Finish, Add</i>	205.70	
		<i>For >10 To 20, Deduct</i>	-58.49	
		<i>For >20 To 40, Deduct</i>	-106.70	
		<i>For >40, Deduct</i>	-223.69	



Electrical	26	
Lighting	26 50	26
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0313	EA		25' High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base.....	2,060.38	462.77
			<i>For Bronze Or Satin Anodized Finish, Add</i>	113.48	
			<i>For Black Anodized Finish, Add</i>	226.97	
			<i>For >10 To 20, Deduct</i>	-68.53	
			<i>For >20 To 40, Deduct</i>	-125.72	
			<i>For >40, Deduct</i>	-262.78	
26 56 13 00-0314	EA		25' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base.....	2,217.69	462.77
			<i>For Bronze Or Satin Anodized Finish, Add</i>	129.22	
			<i>For Black Anodized Finish, Add</i>	258.43	
			<i>For >10 To 20, Deduct</i>	-74.82	
			<i>For >20 To 40, Deduct</i>	-136.73	
			<i>For >40, Deduct</i>	-286.38	
26 56 13 00-0315	EA		30' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base.....	2,587.27	520.61
			<i>For Bronze Or Satin Anodized Finish, Add</i>	154.60	
			<i>For Black Anodized Finish, Add</i>	309.21	
			<i>For >10 To 20, Deduct</i>	-87.87	
			<i>For >20 To 40, Deduct</i>	-160.28	
			<i>For >40, Deduct</i>	-336.03	
26 56 13 00-0316			Round Straight, Aluminum Area Light Poles, Hinged Anchor Base <small>(26 56 13 00-0295)</small>		
26 56 13 00-0317	EA		8' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	880.87	173.54
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	80.07	
			<i>For >10 To 20, Deduct</i>	-30.03	
			<i>For >20 To 40, Deduct</i>	-54.72	
			<i>For >40, Deduct</i>	-114.78	
26 56 13 00-0318	EA		10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	982.11	202.46
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	86.58	
			<i>For >10 To 20, Deduct</i>	-33.21	
			<i>For >20 To 40, Deduct</i>	-60.65	
			<i>For >40, Deduct</i>	-127.07	
26 56 13 00-0319	EA		12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,079.01	231.38
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	92.44	
			<i>For >10 To 20, Deduct</i>	-36.22	
			<i>For >20 To 40, Deduct</i>	-66.28	
			<i>For >40, Deduct</i>	-138.71	
26 56 13 00-0320	EA		14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,155.29	260.31
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	95.20	
			<i>For >10 To 20, Deduct</i>	-38.40	
			<i>For >20 To 40, Deduct</i>	-70.46	
			<i>For >40, Deduct</i>	-147.26	
26 56 13 00-0321	EA		16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,244.61	289.23
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	99.92	
			<i>For >10 To 20, Deduct</i>	-41.11	
			<i>For >20 To 40, Deduct</i>	-75.55	
			<i>For >40, Deduct</i>	-157.77	
26 56 13 00-0322	EA		10' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,004.90	202.46
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	90.00	
			<i>For >10 To 20, Deduct</i>	-34.12	
			<i>For >20 To 40, Deduct</i>	-62.24	
			<i>For >40, Deduct</i>	-130.49	
26 56 13 00-0323	EA		12' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,099.62	231.38
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	95.53	
			<i>For >10 To 20, Deduct</i>	-37.04	
			<i>For >20 To 40, Deduct</i>	-67.72	
			<i>For >40, Deduct</i>	-141.80	
26 56 13 00-0324	EA		14' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,197.61	260.31
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	101.55	
			<i>For >10 To 20, Deduct</i>	-40.10	
			<i>For >20 To 40, Deduct</i>	-73.42	
			<i>For >40, Deduct</i>	-153.61	
26 56 13 00-0325	EA		16' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,294.51	289.23
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	107.41	
			<i>For >10 To 20, Deduct</i>	-43.10	
			<i>For >20 To 40, Deduct</i>	-79.05	
			<i>For >40, Deduct</i>	-165.25	
26 56 13 00-0326	EA		18' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,396.85	318.15
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	114.08	
			<i>For >10 To 20, Deduct</i>	-46.33	
			<i>For >20 To 40, Deduct</i>	-85.05	
			<i>For >40, Deduct</i>	-177.71	
26 56 13 00-0327	EA		20' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,492.67	347.08
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	119.78	
			<i>For >10 To 20, Deduct</i>	-49.29	
			<i>For >20 To 40, Deduct</i>	-90.60	
			<i>For >40, Deduct</i>	-189.19	
26 56 13 00-0328	EA		12' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,141.94	231.38
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	101.88	
			<i>For >10 To 20, Deduct</i>	-38.74	
			<i>For >20 To 40, Deduct</i>	-70.68	
			<i>For >40, Deduct</i>	-148.15	
26 56 13 00-0329	EA		14' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,247.51	260.31
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	109.04	
			<i>For >10 To 20, Deduct</i>	-42.09	
			<i>For >20 To 40, Deduct</i>	-76.91	
			<i>For >40, Deduct</i>	-161.10	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0330 EA 16' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,352.02 116.03 -45.40 -83.07 -173.88	289.23
26 56 13 00-0331 EA 18' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,458.69 123.36 -48.80 -89.38 -186.99	318.15
26 56 13 00-0332 EA 16' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,412.77 125.15 -47.83 -87.32 -182.99	289.23
26 56 13 00-0333 EA 20' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,634.79 141.09 -54.98 -100.55 -210.51	347.08
26 56 13 00-0334 EA 12' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,182.08 107.90 -40.34 -73.49 -154.17	231.38
26 56 13 00-0335 EA 14' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,299.59 116.85 -44.17 -80.56 -168.91	260.31
26 56 13 00-0336 EA 16' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,406.26 124.17 -47.57 -86.87 -182.02	289.23
26 56 13 00-0337 EA 18' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,519.44 132.47 -51.23 -93.63 -196.10	318.15
26 56 13 00-0338 EA 20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,629.37 140.28 -54.76 -100.17 -209.70	347.08
26 56 13 00-0339 EA 16' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,485.46 136.05 -50.74 -92.41 -193.90	289.23
26 56 13 00-0340 EA 18' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,608.41 145.82 -54.79 -99.86 -209.45	318.15
26 56 13 00-0341 EA 20' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,663.00 145.33 -56.11 -102.53 -214.74	347.08
26 56 13 00-0342 Round Straight, Aluminum Area Light Poles, Direct Burial <small>(26 56 13 00-0295)</small> Note: Includes rubberized undercoating on embedded portion.		
26 56 13 00-0343 EA 10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	688.48 39.93 79.85 -23.20 -42.41 -88.81	144.62
26 56 13 00-0344 EA 12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	738.02 41.99 83.97 -24.75 -45.30 -94.80	159.08
26 56 13 00-0345 EA 14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	815.77 46.87 93.74 -27.42 -50.16 -105.01	173.54



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0346	EA		15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial.....	840.72	173.54
			<i>For Bronze Or Satin Anodized Finish, Add</i>	49.36	
			<i>For Black Anodized Finish, Add</i>	98.73	
			<i>For >10 To 20, Deduct</i>	-28.42	
			<i>For >20 To 40, Deduct</i>	-51.91	
			<i>For >40, Deduct</i>	-108.75	
26 56 13 00-0347	EA		16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial.....	872.19	173.54
			<i>For Bronze Or Satin Anodized Finish, Add</i>	52.51	
			<i>For Black Anodized Finish, Add</i>	105.02	
			<i>For >10 To 20, Deduct</i>	-29.68	
			<i>For >20 To 40, Deduct</i>	-54.11	
			<i>For >40, Deduct</i>	-113.47	
26 56 13 00-0348	EA		18' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial.....	996.58	188.00
			<i>For Bronze Or Satin Anodized Finish, Add</i>	62.06	
			<i>For Black Anodized Finish, Add</i>	124.12	
			<i>For >10 To 20, Deduct</i>	-34.22	
			<i>For >20 To 40, Deduct</i>	-62.24	
			<i>For >40, Deduct</i>	-130.69	
26 56 13 00-0349	EA		20' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial.....	1,065.65	202.46
			<i>For Bronze Or Satin Anodized Finish, Add</i>	66.07	
			<i>For Black Anodized Finish, Add</i>	132.14	
			<i>For >10 To 20, Deduct</i>	-36.55	
			<i>For >20 To 40, Deduct</i>	-66.50	
			<i>For >40, Deduct</i>	-139.60	
26 56 13 00-0350	EA		20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial.....	1,233.82	202.46
			<i>For Bronze Or Satin Anodized Finish, Add</i>	82.89	
			<i>For Black Anodized Finish, Add</i>	165.78	
			<i>For >10 To 20, Deduct</i>	-43.28	
			<i>For >20 To 40, Deduct</i>	-78.27	
			<i>For >40, Deduct</i>	-164.83	
26 56 13 00-0351	EA		25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial.....	1,507.56	231.38
			<i>For Bronze Or Satin Anodized Finish, Add</i>	104.48	
			<i>For Black Anodized Finish, Add</i>	208.96	
			<i>For >10 To 20, Deduct</i>	-53.36	
			<i>For >20 To 40, Deduct</i>	-96.27	
			<i>For >40, Deduct</i>	-203.00	
26 56 13 00-0352	EA		30' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial.....	1,710.78	260.31
			<i>For Bronze Or Satin Anodized Finish, Add</i>	119.02	
			<i>For Black Anodized Finish, Add</i>	238.03	
			<i>For >10 To 20, Deduct</i>	-60.62	
			<i>For >20 To 40, Deduct</i>	-109.34	
			<i>For >40, Deduct</i>	-230.59	
26 56 13 00-0353	EA		30' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Direct Burial.....	1,909.32	260.31
			<i>For Bronze Or Satin Anodized Finish, Add</i>	138.87	
			<i>For Black Anodized Finish, Add</i>	277.74	
			<i>For >10 To 20, Deduct</i>	-68.56	
			<i>For >20 To 40, Deduct</i>	-123.24	
			<i>For >40, Deduct</i>	-260.37	
26 56 13 00-0354			Round Tapered, Aluminum Area Light Poles <small>(26 56 13 00-0294)</small>		
26 56 13 00-0355			Round Tapered, Aluminum Area Light Poles, Anchor Base <small>(26 56 13 00-0354)</small>		
26 56 13 00-0356	EA		8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	654.12	173.54
			<i>For Bronze Or Satin Anodized Finish, Add</i>	30.70	
			<i>For Black Anodized Finish, Add</i>	61.41	
			<i>For >10 To 20, Deduct</i>	-20.96	
			<i>For >20 To 40, Deduct</i>	-38.85	
			<i>For >40, Deduct</i>	-80.76	
26 56 13 00-0357	EA		10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	736.92	202.46
			<i>For Bronze Or Satin Anodized Finish, Add</i>	33.20	
			<i>For Black Anodized Finish, Add</i>	66.40	
			<i>For >10 To 20, Deduct</i>	-23.40	
			<i>For >20 To 40, Deduct</i>	-43.49	
			<i>For >40, Deduct</i>	-90.29	
26 56 13 00-0358	EA		12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	819.71	231.38
			<i>For Bronze Or Satin Anodized Finish, Add</i>	35.69	
			<i>For Black Anodized Finish, Add</i>	71.39	
			<i>For >10 To 20, Deduct</i>	-25.85	
			<i>For >20 To 40, Deduct</i>	-48.12	
			<i>For >40, Deduct</i>	-99.82	
26 56 13 00-0359	EA		14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	912.27	260.31
			<i>For Bronze Or Satin Anodized Finish, Add</i>	39.17	
			<i>For Black Anodized Finish, Add</i>	78.33	
			<i>For >10 To 20, Deduct</i>	-28.68	
			<i>For >20 To 40, Deduct</i>	-53.45	
			<i>For >40, Deduct</i>	-110.81	
26 56 13 00-0360	EA		16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,003.75	289.23
			<i>For Bronze Or Satin Anodized Finish, Add</i>	42.53	
			<i>For Black Anodized Finish, Add</i>	85.06	
			<i>For >10 To 20, Deduct</i>	-31.47	
			<i>For >20 To 40, Deduct</i>	-58.69	
			<i>For >40, Deduct</i>	-121.64	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0361 EA 10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	765.13	202.46
For Bronze Or Satin Anodized Finish, Add	36.02	
For Black Anodized Finish, Add	72.04	
For >10 To 20, Deduct	-24.53	
For >20 To 40, Deduct	-45.46	
For >40, Deduct	-94.52	
26 56 13 00-0362 EA 12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	864.19	231.38
For Bronze Or Satin Anodized Finish, Add	40.14	
For Black Anodized Finish, Add	80.28	
For >10 To 20, Deduct	-27.63	
For >20 To 40, Deduct	-51.24	
For >40, Deduct	-106.49	
26 56 13 00-0363 EA 14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	960.01	260.31
For Bronze Or Satin Anodized Finish, Add	43.94	
For Black Anodized Finish, Add	87.88	
For >10 To 20, Deduct	-30.59	
For >20 To 40, Deduct	-56.79	
For >40, Deduct	-117.97	
26 56 13 00-0364 EA 18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,144.06	318.15
For Bronze Or Satin Anodized Finish, Add	50.78	
For Black Anodized Finish, Add	101.55	
For >10 To 20, Deduct	-36.22	
For >20 To 40, Deduct	-67.36	
For >40, Deduct	-139.79	
26 56 13 00-0365 EA 20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,229.03	347.08
For Bronze Or Satin Anodized Finish, Add	53.49	
For Black Anodized Finish, Add	106.97	
For >10 To 20, Deduct	-38.75	
For >20 To 40, Deduct	-72.15	
For >40, Deduct	-149.65	
26 56 13 00-0366 EA 12' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	904.34	231.38
For Bronze Or Satin Anodized Finish, Add	44.16	
For Black Anodized Finish, Add	88.31	
For >10 To 20, Deduct	-29.23	
For >20 To 40, Deduct	-54.05	
For >40, Deduct	-112.51	
26 56 13 00-0367 EA 14' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,006.66	260.31
For Bronze Or Satin Anodized Finish, Add	48.61	
For Black Anodized Finish, Add	97.21	
For >10 To 20, Deduct	-32.46	
For >20 To 40, Deduct	-60.05	
For >40, Deduct	-124.97	
26 56 13 00-0368 EA 16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,116.59	289.23
For Bronze Or Satin Anodized Finish, Add	53.81	
For Black Anodized Finish, Add	107.63	
For >10 To 20, Deduct	-35.99	
For >20 To 40, Deduct	-66.59	
For >40, Deduct	-138.57	
26 56 13 00-0369 EA 18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,206.98	318.15
For Bronze Or Satin Anodized Finish, Add	57.07	
For Black Anodized Finish, Add	114.13	
For >10 To 20, Deduct	-38.73	
For >20 To 40, Deduct	-71.76	
For >40, Deduct	-149.23	
26 56 13 00-0370 EA 20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,312.57	347.08
For Bronze Or Satin Anodized Finish, Add	61.84	
For Black Anodized Finish, Add	123.68	
For >10 To 20, Deduct	-42.09	
For >20 To 40, Deduct	-78.00	
For >40, Deduct	-162.18	
26 56 13 00-0371 EA 16' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,222.91	289.23
For Bronze Or Satin Anodized Finish, Add	64.45	
For Black Anodized Finish, Add	128.89	
For >10 To 20, Deduct	-40.24	
For >20 To 40, Deduct	-74.03	
For >40, Deduct	-154.51	
26 56 13 00-0372 EA 18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,342.60	318.15
For Bronze Or Satin Anodized Finish, Add	70.63	
For Black Anodized Finish, Add	141.26	
For >10 To 20, Deduct	-44.16	
For >20 To 40, Deduct	-81.26	
For >40, Deduct	-169.57	
26 56 13 00-0373 EA 20' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,417.81	347.08
For Bronze Or Satin Anodized Finish, Add	72.37	
For Black Anodized Finish, Add	144.73	
For >10 To 20, Deduct	-46.30	
For >20 To 40, Deduct	-85.36	
For >40, Deduct	-177.96	
26 56 13 00-0374 EA 23' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,630.06	404.93
For Bronze Or Satin Anodized Finish, Add	82.02	
For Black Anodized Finish, Add	164.04	
For >10 To 20, Deduct	-53.05	
For >20 To 40, Deduct	-97.91	
For >40, Deduct	-204.02	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0375	EA	25' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,848.82 92.33 184.66 -60.07 -110.91 -231.05	462.77
26 56	13 00-0376	EA	18' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,448.92 81.26 162.52 -48.41 -88.70 -185.52	318.15
26 56	13 00-0377	EA	20' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,546.92 85.28 170.55 -51.46 -94.40 -197.33	347.08
26 56	13 00-0378	EA	23' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,732.04 92.22 184.44 -57.13 -105.05 -219.31	404.93
26 56	13 00-0379	EA	25' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,926.93 100.14 200.28 -63.19 -116.37 -242.76	462.77
26 56	13 00-0380	EA	28' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,072.66 108.93 217.85 -68.16 -125.42 -261.73	491.70
26 56	13 00-0381	EA	30' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,220.56 117.93 235.86 -73.20 -134.61 -281.02	520.61
26 56	13 00-0382	EA	23' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,832.94 102.31 204.62 -61.17 -112.11 -234.45	404.93
26 56	13 00-0383	EA	25' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,994.20 106.87 213.73 -65.88 -121.08 -252.85	462.77
26 56	13 00-0384	EA	28' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,145.35 116.20 232.39 -71.06 -130.51 -272.63	491.70
26 56	13 00-0385	EA	30' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,333.39 129.22 258.43 -77.72 -142.51 -297.95	520.61
26 56	13 00-0386	EA	33' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,411.13 134.10 268.19 -80.39 -147.38 -308.16	535.08
26 56	13 00-0387	EA	35' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,571.33 147.23 294.45 -86.37 -158.01 -330.75	549.54
26 56	13 00-0388	EA	12' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	948.82 48.61 97.21 -31.01 -57.16 -119.18	231.38

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0389 EA 14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,058.74	260.31
For Bronze Or Satin Anodized Finish, Add	53.81	
For Black Anodized Finish, Add	107.63	
For >10 To 20, Deduct	-34.54	
For >20 To 40, Deduct	-63.70	
For >40, Deduct	-132.78	
26 56 13 00-0390 EA 16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,173.00	289.23
For Bronze Or Satin Anodized Finish, Add	59.45	
For Black Anodized Finish, Add	118.91	
For >10 To 20, Deduct	-38.24	
For >20 To 40, Deduct	-70.54	
For >40, Deduct	-147.03	
26 56 13 00-0391 EA 18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,275.33	318.15
For Bronze Or Satin Anodized Finish, Add	63.90	
For Black Anodized Finish, Add	127.80	
For >10 To 20, Deduct	-41.47	
For >20 To 40, Deduct	-76.55	
For >40, Deduct	-159.48	
26 56 13 00-0392 EA 20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,376.58	347.08
For Bronze Or Satin Anodized Finish, Add	68.24	
For Black Anodized Finish, Add	136.48	
For >10 To 20, Deduct	-44.65	
For >20 To 40, Deduct	-82.48	
For >40, Deduct	-171.78	
26 56 13 00-0393 EA 16' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,291.26	289.23
For Bronze Or Satin Anodized Finish, Add	71.28	
For Black Anodized Finish, Add	142.56	
For >10 To 20, Deduct	-42.97	
For >20 To 40, Deduct	-78.82	
For >40, Deduct	-164.77	
26 56 13 00-0394 EA 18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,414.20	318.15
For Bronze Or Satin Anodized Finish, Add	77.79	
For Black Anodized Finish, Add	155.58	
For >10 To 20, Deduct	-47.02	
For >20 To 40, Deduct	-86.27	
For >40, Deduct	-180.31	
26 56 13 00-0395 EA 20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,503.52	347.08
For Bronze Or Satin Anodized Finish, Add	80.94	
For Black Anodized Finish, Add	161.87	
For >10 To 20, Deduct	-49.73	
For >20 To 40, Deduct	-91.36	
For >40, Deduct	-190.82	
26 56 13 00-0396 EA 23' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,710.34	404.93
For Bronze Or Satin Anodized Finish, Add	90.05	
For Black Anodized Finish, Add	180.10	
For >10 To 20, Deduct	-56.27	
For >20 To 40, Deduct	-103.53	
For >40, Deduct	-216.06	
26 56 13 00-0397 EA 25' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,923.68	462.77
For Bronze Or Satin Anodized Finish, Add	99.81	
For Black Anodized Finish, Add	199.63	
For >10 To 20, Deduct	-63.06	
For >20 To 40, Deduct	-116.15	
For >40, Deduct	-242.28	
26 56 13 00-0398 EA 23' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	1,955.54	404.93
For Bronze Or Satin Anodized Finish, Add	114.57	
For Black Anodized Finish, Add	229.14	
For >10 To 20, Deduct	-66.07	
For >20 To 40, Deduct	-120.69	
For >40, Deduct	-252.84	
26 56 13 00-0399 EA 25' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	2,156.94	462.77
For Bronze Or Satin Anodized Finish, Add	123.14	
For Black Anodized Finish, Add	246.28	
For >10 To 20, Deduct	-72.39	
For >20 To 40, Deduct	-132.48	
For >40, Deduct	-277.26	
26 56 13 00-0400 EA 28' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	2,321.11	491.70
For Bronze Or Satin Anodized Finish, Add	133.77	
For Black Anodized Finish, Add	267.54	
For >10 To 20, Deduct	-78.09	
For >20 To 40, Deduct	-142.81	
For >40, Deduct	-299.00	
26 56 13 00-0401 EA 30' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	2,466.84	520.61
For Bronze Or Satin Anodized Finish, Add	142.56	
For Black Anodized Finish, Add	285.12	
For >10 To 20, Deduct	-83.06	
For >20 To 40, Deduct	-151.85	
For >40, Deduct	-317.96	
26 56 13 00-0402 EA 33' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	2,601.00	535.08
For Bronze Or Satin Anodized Finish, Add	153.08	
For Black Anodized Finish, Add	306.17	
For >10 To 20, Deduct	-87.99	
For >20 To 40, Deduct	-160.67	
For >40, Deduct	-336.64	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0403	EA	35' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,717.80 161.87 323.74 -92.23 -168.26 -352.72	549.54
26 56	13 00-0404	EA	37' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,817.25 168.92 337.85 -95.77 -174.65 -366.19	564.00
26 56	13 00-0405	EA	39' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,998.06 184.11 368.23 -102.57 -186.73 -391.86	578.46
26 56	13 00-0406	EA	28' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,789.80 180.64 361.28 -96.84 -175.62 -369.30	491.70
26 56	13 00-0407	EA	30' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,009.30 196.81 393.61 -104.75 -189.83 -399.33	520.61
26 56	13 00-0408	EA	33' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,165.16 209.50 419.00 -110.55 -200.16 -421.27	535.08
26 56	13 00-0409	EA	35' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,283.04 218.40 436.79 -114.84 -207.83 -437.50	549.54
26 56	13 00-0410	EA	37' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,347.78 221.98 443.95 -116.99 -211.78 -445.77	564.00
26 56	13 00-0411	EA	39' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,547.03 239.01 478.02 -124.53 -225.15 -474.21	578.46
26 56	13 00-0412	EA	28' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,641.16 165.78 331.55 -90.90 -165.21 -347.00	491.70
26 56	13 00-0413	EA	30' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,841.14 179.99 359.98 -98.03 -178.06 -374.11	520.61
26 56	13 00-0414	EA	33' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,918.88 184.87 369.74 -100.70 -182.92 -384.32	535.08
26 56	13 00-0415	EA	35' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,121.39 202.23 404.46 -108.37 -196.52 -413.25	549.54
26 56	13 00-0416	EA	37' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,219.75 209.17 418.35 -111.87 -202.82 -426.56	564.00

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0417	EA		39' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	3,420.09	578.46
			<i>For Bronze Or Satin Anodized Finish, Add</i>	226.32	
			<i>For Black Anodized Finish, Add</i>	452.63	
			<i>For >10 To 20, Deduct</i>	-119.45	
			<i>For >20 To 40, Deduct</i>	-216.27	
			<i>For >40, Deduct</i>	-455.17	
26 56 13 00-0418	EA		28' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	3,320.33	491.70
			<i>For Bronze Or Satin Anodized Finish, Add</i>	233.69	
			<i>For Black Anodized Finish, Add</i>	467.39	
			<i>For >10 To 20, Deduct</i>	-118.06	
			<i>For >20 To 40, Deduct</i>	-212.76	
			<i>For >40, Deduct</i>	-448.88	
26 56 13 00-0419	EA		30' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	3,510.54	520.61
			<i>For Bronze Or Satin Anodized Finish, Add</i>	246.93	
			<i>For Black Anodized Finish, Add</i>	493.86	
			<i>For >10 To 20, Deduct</i>	-124.80	
			<i>For >20 To 40, Deduct</i>	-224.91	
			<i>For >40, Deduct</i>	-474.52	
26 56 13 00-0420	EA		33' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	3,668.57	535.08
			<i>For Bronze Or Satin Anodized Finish, Add</i>	259.84	
			<i>For Black Anodized Finish, Add</i>	519.68	
			<i>For >10 To 20, Deduct</i>	-130.69	
			<i>For >20 To 40, Deduct</i>	-235.40	
			<i>For >40, Deduct</i>	-496.78	
26 56 13 00-0421	EA		35' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	3,914.47	549.54
			<i>For Bronze Or Satin Anodized Finish, Add</i>	281.54	
			<i>For Black Anodized Finish, Add</i>	563.08	
			<i>For >10 To 20, Deduct</i>	-140.09	
			<i>For >20 To 40, Deduct</i>	-252.03	
			<i>For >40, Deduct</i>	-532.22	
26 56 13 00-0422	EA		37' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	3,967.27	564.00
			<i>For Bronze Or Satin Anodized Finish, Add</i>	283.93	
			<i>For Black Anodized Finish, Add</i>	567.85	
			<i>For >10 To 20, Deduct</i>	-141.77	
			<i>For >20 To 40, Deduct</i>	-255.15	
			<i>For >40, Deduct</i>	-538.69	
26 56 13 00-0423	EA		39' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	4,212.09	578.46
			<i>For Bronze Or Satin Anodized Finish, Add</i>	305.52	
			<i>For Black Anodized Finish, Add</i>	611.03	
			<i>For >10 To 20, Deduct</i>	-151.13	
			<i>For >20 To 40, Deduct</i>	-271.71	
			<i>For >40, Deduct</i>	-573.97	
26 56 13 00-0424	EA		48' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	5,292.88	867.69
			<i>For Bronze Or Satin Anodized Finish, Add</i>	355.75	
			<i>For Black Anodized Finish, Add</i>	711.50	
			<i>For >10 To 20, Deduct</i>	-185.68	
			<i>For >20 To 40, Deduct</i>	-335.79	
			<i>For >40, Deduct</i>	-707.16	
26 56 13 00-0425	EA		50' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base.....	5,427.41	867.69
			<i>For Bronze Or Satin Anodized Finish, Add</i>	369.20	
			<i>For Black Anodized Finish, Add</i>	738.40	
			<i>For >10 To 20, Deduct</i>	-191.07	
			<i>For >20 To 40, Deduct</i>	-345.21	
			<i>For >40, Deduct</i>	-727.34	
26 56 13 00-0426			Round Tapered, Aluminum Area Light Poles, Hinged Anchor Base <small>(26 56 13 00-0354)</small>		
26 56 13 00-0427	EA		8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	887.38	173.54
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	81.05	
			<i>For >10 To 20, Deduct</i>	-30.29	
			<i>For >20 To 40, Deduct</i>	-55.18	
			<i>For >40, Deduct</i>	-115.75	
26 56 13 00-0428	EA		10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	968.01	202.46
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	84.46	
			<i>For >10 To 20, Deduct</i>	-32.65	
			<i>For >20 To 40, Deduct</i>	-59.66	
			<i>For >40, Deduct</i>	-124.96	
26 56 13 00-0429	EA		12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,049.72	231.38
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	88.04	
			<i>For >10 To 20, Deduct</i>	-35.05	
			<i>For >20 To 40, Deduct</i>	-64.23	
			<i>For >40, Deduct</i>	-134.32	
26 56 13 00-0430	EA		14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,133.60	260.31
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	91.95	
			<i>For >10 To 20, Deduct</i>	-37.53	
			<i>For >20 To 40, Deduct</i>	-68.94	
			<i>For >40, Deduct</i>	-144.01	
26 56 13 00-0431	EA		16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,216.40	289.23
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	95.69	
			<i>For >10 To 20, Deduct</i>	-39.98	
			<i>For >20 To 40, Deduct</i>	-73.58	
			<i>For >40, Deduct</i>	-153.54	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0432	EA	10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	981.03 86.42 -33.17 -60.57 -126.91	202.46
26 56	13 00-0433	EA	12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,064.91 90.32 -35.65 -65.29 -136.60	231.38
26 56	13 00-0434	EA	14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,150.95 94.55 -38.23 -70.15 -146.61	260.31
26 56	13 00-0435	EA	16' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,235.93 98.62 -40.76 -74.95 -156.47	289.23
26 56	13 00-0436	EA	18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,335.00 104.80 -43.86 -80.72 -168.43	318.15
26 56	13 00-0437	EA	20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,424.32 109.52 -46.56 -85.82 -178.94	347.08
26 56	13 00-0438	EA	12' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,107.22 96.67 -37.35 -68.25 -142.94	231.38
26 56	13 00-0439	EA	14' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,198.69 101.71 -40.14 -73.50 -153.77	260.31
26 56	13 00-0440	EA	16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,303.19 108.71 -43.45 -79.65 -166.56	289.23
26 56	13 00-0441	EA	18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,396.85 114.08 -46.33 -85.05 -177.71	318.15
26 56	13 00-0442	EA	20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,504.60 121.57 -49.77 -91.44 -190.98	347.08
26 56	13 00-0443	EA	16' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,365.03 117.99 -45.92 -83.98 -175.83	289.23
26 56	13 00-0444	EA	18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,480.39 126.61 -49.67 -90.90 -190.24	318.15
26 56	13 00-0445	EA	20' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,571.87 131.66 -52.46 -96.15 -201.07	347.08
26 56	13 00-0446	EA	12' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,140.85 101.71 -38.69 -70.60 -147.99	231.38
26 56	13 00-0447	EA	14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,249.68 109.36 -42.18 -77.07 -161.42	260.31
26 56	13 00-0448	EA	16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,365.03 117.99 -45.92 -83.98 -175.83	289.23

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0449	EA		18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,467.37 124.66 -49.15 -89.99 -188.29	318.15
26 56 13 00-0450	EA		20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,577.29 132.47 -52.68 -96.53 -201.89	347.08
26 56 13 00-0451	EA		16' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,435.55 128.56 -48.75 -88.92 -186.41	289.23
26 56 13 00-0452	EA		18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,559.59 138.49 -52.84 -96.45 -202.12	318.15
26 56 13 00-0453	EA		20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,656.49 144.35 -55.85 -102.07 -213.77	347.08
26 56 13 00-0454			Round Tapered, Aluminum Area Light Poles, Direct Burial <small>(26 56 13 00-0354)</small> Note: Includes rubberized undercoating on embedded portion.		
26 56 13 00-0455	EA		8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	.610.37 32.11 64.23 -20.08 -36.94 -77.09	144.62
26 56 13 00-0456	EA		10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	.640.75 35.15 70.30 -21.29 -39.07 -81.65	144.62
26 56 13 00-0457	EA		12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	.694.62 37.65 75.29 -23.01 -42.26 -88.29	159.08
26 56 13 00-0458	EA		14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	.740.91 39.38 78.77 -24.43 -44.92 -93.78	173.54
26 56 13 00-0459	EA		16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	.779.97 43.29 86.58 -25.99 -47.66 -99.64	173.54
26 56 13 00-0460	EA		12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	.723.91 40.58 81.15 -24.18 -44.31 -92.68	159.08
26 56 13 00-0461	EA		14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	.783.22 43.61 87.23 -26.12 -47.88 -100.13	173.54
26 56 13 00-0462	EA		16' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	.804.92 45.78 91.57 -26.99 -49.40 -103.38	173.54
26 56 13 00-0463	EA		18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	.868.56 49.26 98.51 -29.10 -53.28 -111.48	188.00



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0464	EA		20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial.....	927.87	202.46
			<i>For Bronze Or Satin Anodized Finish, Add</i>	52.29	
			<i>For Black Anodized Finish, Add</i>	104.59	
			<i>For >10 To 20, Deduct</i>	-31.04	
			<i>For >20 To 40, Deduct</i>	-56.85	
			<i>For >40, Deduct</i>	-118.93	
26 56 13 00-0465	EA		16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial.....	867.85	173.54
			<i>For Bronze Or Satin Anodized Finish, Add</i>	52.08	
			<i>For Black Anodized Finish, Add</i>	104.15	
			<i>For >10 To 20, Deduct</i>	-29.51	
			<i>For >20 To 40, Deduct</i>	-53.81	
			<i>For >40, Deduct</i>	-112.82	
26 56 13 00-0466	EA		18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial.....	937.99	188.00
			<i>For Bronze Or Satin Anodized Finish, Add</i>	56.20	
			<i>For Black Anodized Finish, Add</i>	112.40	
			<i>For >10 To 20, Deduct</i>	-31.88	
			<i>For >20 To 40, Deduct</i>	-58.14	
			<i>For >40, Deduct</i>	-121.90	
26 56 13 00-0467	EA		20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial.....	1,002.73	202.46
			<i>For Bronze Or Satin Anodized Finish, Add</i>	59.78	
			<i>For Black Anodized Finish, Add</i>	119.56	
			<i>For >10 To 20, Deduct</i>	-34.04	
			<i>For >20 To 40, Deduct</i>	-62.09	
			<i>For >40, Deduct</i>	-130.16	
26 56 13 00-0468	EA		18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial.....	1,026.96	188.00
			<i>For Bronze Or Satin Anodized Finish, Add</i>	65.10	
			<i>For Black Anodized Finish, Add</i>	130.19	
			<i>For >10 To 20, Deduct</i>	-35.44	
			<i>For >20 To 40, Deduct</i>	-64.37	
			<i>For >40, Deduct</i>	-135.24	
26 56 13 00-0469	EA		25' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial.....	1,316.61	231.38
			<i>For Bronze Or Satin Anodized Finish, Add</i>	85.38	
			<i>For Black Anodized Finish, Add</i>	170.77	
			<i>For >10 To 20, Deduct</i>	-45.72	
			<i>For >20 To 40, Deduct</i>	-82.91	
			<i>For >40, Deduct</i>	-174.35	
26 56 13 00-0470	EA		25' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Direct Burial.....	1,439.21	231.38
			<i>For Bronze Or Satin Anodized Finish, Add</i>	97.64	
			<i>For Black Anodized Finish, Add</i>	195.29	
			<i>For >10 To 20, Deduct</i>	-50.63	
			<i>For >20 To 40, Deduct</i>	-91.49	
			<i>For >40, Deduct</i>	-192.74	
26 56 13 00-0471	EA		30' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial.....	1,602.29	260.31
			<i>For Bronze Or Satin Anodized Finish, Add</i>	108.17	
			<i>For Black Anodized Finish, Add</i>	216.34	
			<i>For >10 To 20, Deduct</i>	-56.28	
			<i>For >20 To 40, Deduct</i>	-101.75	
			<i>For >40, Deduct</i>	-214.31	
26 56 13 00-0472	EA		30' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial.....	1,735.73	260.31
			<i>For Bronze Or Satin Anodized Finish, Add</i>	121.51	
			<i>For Black Anodized Finish, Add</i>	243.02	
			<i>For >10 To 20, Deduct</i>	-61.62	
			<i>For >20 To 40, Deduct</i>	-111.09	
			<i>For >40, Deduct</i>	-234.33	
26 56 13 00-0473			Square Straight, Aluminum Area Light Poles <small>(26 56 13 00-0294)</small>		
26 56 13 00-0474			Square Straight, Aluminum Area Light Poles, Anchor Base <small>(26 56 13 00-0473)</small>		
26 56 13 00-0475	EA		8' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base.....	795.16	173.54
			<i>For Bronze Or Satin Anodized Finish, Add</i>	44.81	
			<i>For Black Anodized Finish, Add</i>	89.62	
			<i>For >10 To 20, Deduct</i>	-26.60	
			<i>For >20 To 40, Deduct</i>	-48.72	
			<i>For >40, Deduct</i>	-101.92	
26 56 13 00-0476	EA		10' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base.....	875.79	202.46
			<i>For Bronze Or Satin Anodized Finish, Add</i>	47.09	
			<i>For Black Anodized Finish, Add</i>	94.17	
			<i>For >10 To 20, Deduct</i>	-28.96	
			<i>For >20 To 40, Deduct</i>	-53.21	
			<i>For >40, Deduct</i>	-111.12	
26 56 13 00-0477	EA		12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base.....	965.09	231.38
			<i>For Bronze Or Satin Anodized Finish, Add</i>	50.23	
			<i>For Black Anodized Finish, Add</i>	100.46	
			<i>For >10 To 20, Deduct</i>	-31.66	
			<i>For >20 To 40, Deduct</i>	-58.30	
			<i>For >40, Deduct</i>	-121.63	
26 56 13 00-0478	EA		14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base.....	1,053.31	260.31
			<i>For Bronze Or Satin Anodized Finish, Add</i>	53.27	
			<i>For Black Anodized Finish, Add</i>	106.54	
			<i>For >10 To 20, Deduct</i>	-34.32	
			<i>For >20 To 40, Deduct</i>	-63.32	
			<i>For >40, Deduct</i>	-131.97	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0479	EA		15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base.....	1,101.77	274.77
			<i>For Bronze Or Satin Anodized Finish, Add</i>	55.22	
			<i>For Black Anodized Finish, Add</i>	110.45	
			<i>For >10 To 20, Deduct</i>	-35.83	
			<i>For >20 To 40, Deduct</i>	-66.13	
			<i>For >40, Deduct</i>	-137.79	
26 56 13 00-0480	EA		16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base.....	1,150.22	289.23
			<i>For Bronze Or Satin Anodized Finish, Add</i>	57.18	
			<i>For Black Anodized Finish, Add</i>	114.35	
			<i>For >10 To 20, Deduct</i>	-37.33	
			<i>For >20 To 40, Deduct</i>	-68.95	
			<i>For >40, Deduct</i>	-143.61	
26 56 13 00-0481	EA		18' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base.....	1,244.96	318.15
			<i>For Bronze Or Satin Anodized Finish, Add</i>	60.87	
			<i>For Black Anodized Finish, Add</i>	121.73	
			<i>For >10 To 20, Deduct</i>	-40.25	
			<i>For >20 To 40, Deduct</i>	-74.42	
			<i>For >40, Deduct</i>	-154.93	
26 56 13 00-0482	EA		20' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base.....	1,349.46	347.08
			<i>For Bronze Or Satin Anodized Finish, Add</i>	65.53	
			<i>For Black Anodized Finish, Add</i>	131.06	
			<i>For >10 To 20, Deduct</i>	-43.57	
			<i>For >20 To 40, Deduct</i>	-80.58	
			<i>For >40, Deduct</i>	-167.71	
26 56 13 00-0483	EA		16' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base.....	1,225.08	289.23
			<i>For Bronze Or Satin Anodized Finish, Add</i>	64.66	
			<i>For Black Anodized Finish, Add</i>	129.32	
			<i>For >10 To 20, Deduct</i>	-40.33	
			<i>For >20 To 40, Deduct</i>	-74.19	
			<i>For >40, Deduct</i>	-154.84	
26 56 13 00-0484	EA		18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base.....	1,321.99	318.15
			<i>For Bronze Or Satin Anodized Finish, Add</i>	68.57	
			<i>For Black Anodized Finish, Add</i>	137.14	
			<i>For >10 To 20, Deduct</i>	-43.33	
			<i>For >20 To 40, Deduct</i>	-79.81	
			<i>For >40, Deduct</i>	-166.48	
26 56 13 00-0485	EA		20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base.....	1,433.00	347.08
			<i>For Bronze Or Satin Anodized Finish, Add</i>	73.88	
			<i>For Black Anodized Finish, Add</i>	147.77	
			<i>For >10 To 20, Deduct</i>	-46.91	
			<i>For >20 To 40, Deduct</i>	-86.43	
			<i>For >40, Deduct</i>	-180.24	
26 56 13 00-0486	EA		15' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base.....	1,427.25	274.77
			<i>For Bronze Or Satin Anodized Finish, Add</i>	87.77	
			<i>For Black Anodized Finish, Add</i>	175.54	
			<i>For >10 To 20, Deduct</i>	-48.85	
			<i>For >20 To 40, Deduct</i>	-88.92	
			<i>For >40, Deduct</i>	-186.61	
26 56 13 00-0487	EA		20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base.....	1,744.37	347.08
			<i>For Bronze Or Satin Anodized Finish, Add</i>	105.02	
			<i>For Black Anodized Finish, Add</i>	210.04	
			<i>For >10 To 20, Deduct</i>	-59.36	
			<i>For >20 To 40, Deduct</i>	-108.22	
			<i>For >40, Deduct</i>	-226.95	
26 56 13 00-0488	EA		25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base.....	2,111.37	462.77
			<i>For Bronze Or Satin Anodized Finish, Add</i>	118.58	
			<i>For Black Anodized Finish, Add</i>	237.17	
			<i>For >10 To 20, Deduct</i>	-70.57	
			<i>For >20 To 40, Deduct</i>	-129.29	
			<i>For >40, Deduct</i>	-270.43	
26 56 13 00-0489	EA		20' High, 4" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base.....	1,500.26	347.08
			<i>For Bronze Or Satin Anodized Finish, Add</i>	80.61	
			<i>For Black Anodized Finish, Add</i>	161.22	
			<i>For >10 To 20, Deduct</i>	-49.60	
			<i>For >20 To 40, Deduct</i>	-91.14	
			<i>For >40, Deduct</i>	-190.33	
26 56 13 00-0490	EA		20' High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base.....	1,875.65	347.08
			<i>For Bronze Or Satin Anodized Finish, Add</i>	118.15	
			<i>For Black Anodized Finish, Add</i>	236.30	
			<i>For >10 To 20, Deduct</i>	-64.61	
			<i>For >20 To 40, Deduct</i>	-117.41	
			<i>For >40, Deduct</i>	-246.64	
26 56 13 00-0491	EA		25' High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base.....	2,230.71	462.77
			<i>For Bronze Or Satin Anodized Finish, Add</i>	130.52	
			<i>For Black Anodized Finish, Add</i>	261.03	
			<i>For >10 To 20, Deduct</i>	-75.35	
			<i>For >20 To 40, Deduct</i>	-137.64	
			<i>For >40, Deduct</i>	-288.33	
26 56 13 00-0492	EA		20' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base.....	2,081.79	347.08
			<i>For Bronze Or Satin Anodized Finish, Add</i>	138.76	
			<i>For Black Anodized Finish, Add</i>	277.53	
			<i>For >10 To 20, Deduct</i>	-72.86	
			<i>For >20 To 40, Deduct</i>	-131.84	
			<i>For >40, Deduct</i>	-277.56	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0493	EA		25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base.....	2,499.77	462.77
			<i>For Bronze Or Satin Anodized Finish, Add</i>	157.42	
			<i>For Black Anodized Finish, Add</i>	314.85	
			<i>For >10 To 20, Deduct</i>	-86.11	
			<i>For >20 To 40, Deduct</i>	-156.47	
			<i>For >40, Deduct</i>	-328.69	
26 56 13 00-0494	EA		30' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base.....	2,895.39	520.61
			<i>For Bronze Or Satin Anodized Finish, Add</i>	185.42	
			<i>For Black Anodized Finish, Add</i>	370.83	
			<i>For >10 To 20, Deduct</i>	-100.20	
			<i>For >20 To 40, Deduct</i>	-181.85	
			<i>For >40, Deduct</i>	-382.25	
26 56 13 00-0495			Square Straight, Aluminum Area Light Poles, Direct Burial <small>(26 56 13 00-0473)</small>		
			Note: Includes rubberized undercoating on embedded portion.		
26 56 13 00-0496	EA		10' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial.....	716.69	144.62
			<i>For Bronze Or Satin Anodized Finish, Add</i>	42.75	
			<i>For Black Anodized Finish, Add</i>	85.49	
			<i>For >10 To 20, Deduct</i>	-24.33	
			<i>For >20 To 40, Deduct</i>	-44.38	
			<i>For >40, Deduct</i>	-93.04	
26 56 13 00-0497	EA		12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial.....	800.94	159.08
			<i>For Bronze Or Satin Anodized Finish, Add</i>	48.28	
			<i>For Black Anodized Finish, Add</i>	96.56	
			<i>For >10 To 20, Deduct</i>	-27.27	
			<i>For >20 To 40, Deduct</i>	-49.70	
			<i>For >40, Deduct</i>	-104.23	
26 56 13 00-0498	EA		14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial.....	852.66	173.54
			<i>For Bronze Or Satin Anodized Finish, Add</i>	50.56	
			<i>For Black Anodized Finish, Add</i>	101.12	
			<i>For >10 To 20, Deduct</i>	-28.90	
			<i>For >20 To 40, Deduct</i>	-52.74	
			<i>For >40, Deduct</i>	-110.55	
26 56 13 00-0499	EA		15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial.....	879.78	173.54
			<i>For Bronze Or Satin Anodized Finish, Add</i>	53.27	
			<i>For Black Anodized Finish, Add</i>	106.54	
			<i>For >10 To 20, Deduct</i>	-29.99	
			<i>For >20 To 40, Deduct</i>	-54.64	
			<i>For >40, Deduct</i>	-114.61	
26 56 13 00-0500	EA		16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial.....	913.41	173.54
			<i>For Bronze Or Satin Anodized Finish, Add</i>	56.63	
			<i>For Black Anodized Finish, Add</i>	113.27	
			<i>For >10 To 20, Deduct</i>	-31.33	
			<i>For >20 To 40, Deduct</i>	-57.00	
			<i>For >40, Deduct</i>	-119.66	
26 56 13 00-0501	EA		18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial.....	1,057.34	188.00
			<i>For Bronze Or Satin Anodized Finish, Add</i>	68.13	
			<i>For Black Anodized Finish, Add</i>	136.27	
			<i>For >10 To 20, Deduct</i>	-36.65	
			<i>For >20 To 40, Deduct</i>	-66.49	
			<i>For >40, Deduct</i>	-139.80	
26 56 13 00-0502	EA		20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial.....	1,132.92	202.46
			<i>For Bronze Or Satin Anodized Finish, Add</i>	72.80	
			<i>For Black Anodized Finish, Add</i>	145.60	
			<i>For >10 To 20, Deduct</i>	-39.24	
			<i>For >20 To 40, Deduct</i>	-71.21	
			<i>For >40, Deduct</i>	-149.69	
26 56 13 00-0503	EA		20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial.....	1,303.25	202.46
			<i>For Bronze Or Satin Anodized Finish, Add</i>	89.83	
			<i>For Black Anodized Finish, Add</i>	179.66	
			<i>For >10 To 20, Deduct</i>	-46.06	
			<i>For >20 To 40, Deduct</i>	-83.13	
			<i>For >40, Deduct</i>	-175.24	
26 56 13 00-0504	EA		25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial.....	1,497.79	231.38
			<i>For Bronze Or Satin Anodized Finish, Add</i>	103.50	
			<i>For Black Anodized Finish, Add</i>	207.00	
			<i>For >10 To 20, Deduct</i>	-52.97	
			<i>For >20 To 40, Deduct</i>	-95.59	
			<i>For >40, Deduct</i>	-201.53	
26 56 13 00-0505	EA		25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Direct Burial.....	1,878.60	231.38
			<i>For Bronze Or Satin Anodized Finish, Add</i>	141.58	
			<i>For Black Anodized Finish, Add</i>	283.17	
			<i>For >10 To 20, Deduct</i>	-68.20	
			<i>For >20 To 40, Deduct</i>	-122.25	
			<i>For >40, Deduct</i>	-258.65	
26 56 13 00-0506			Factory Accessories For Aluminum Area Light Poles <small>(26 56 13 00-0294)</small>		
26 56 13 00-0507	EA		1/2", 3/4" Or 1" Factory Threaded Pipe Coupling Or Nipple For Aluminum Area Light Poles	55.74	
26 56 13 00-0508	EA		Extra Handhole For Aluminum Area Light Poles.....	40.44	
26 56 13 00-0509	EA		Vibration Dampener For Aluminum Area Light Poles.....	84.32	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0510		Fiberglass Area Light Poles <small>(26 56 13 00-0177)</small> Note: Includes UV resistant textured weave finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions and tenon top.		
26 56	13 00-0511		Round Tapered, Fiberglass Area Light Poles <small>(26 56 13 00-0510)</small>		
26 56	13 00-0512		Round Tapered, Fiberglass Area Light Poles, Anchor Base <small>(26 56 13 00-0511)</small>		
26 56	13 00-0513	EA	10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,329.34	202.46
			<i>For >10 To 20, Deduct</i>	-47.10	
			<i>For >20 To 40, Deduct</i>	-84.96	
			<i>For >40, Deduct</i>	-179.15	
26 56	13 00-0514	EA	12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,442.20	231.38
			<i>For >10 To 20, Deduct</i>	-50.75	
			<i>For >20 To 40, Deduct</i>	-91.70	
			<i>For >40, Deduct</i>	-193.19	
26 56	13 00-0515	EA	14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,556.64	260.31
			<i>For >10 To 20, Deduct</i>	-54.46	
			<i>For >20 To 40, Deduct</i>	-98.55	
			<i>For >40, Deduct</i>	-207.47	
26 56	13 00-0516	EA	16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,669.51	289.23
			<i>For >10 To 20, Deduct</i>	-58.10	
			<i>For >20 To 40, Deduct</i>	-105.30	
			<i>For >40, Deduct</i>	-221.50	
26 56	13 00-0517	EA	18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,810.68	318.15
			<i>For >10 To 20, Deduct</i>	-62.88	
			<i>For >20 To 40, Deduct</i>	-114.02	
			<i>For >40, Deduct</i>	-239.79	
26 56	13 00-0518	EA	20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,926.70	347.08
			<i>For >10 To 20, Deduct</i>	-66.66	
			<i>For >20 To 40, Deduct</i>	-120.99	
			<i>For >40, Deduct</i>	-254.30	
26 56	13 00-0519	EA	22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	2,098.99	404.93
			<i>For >10 To 20, Deduct</i>	-71.81	
			<i>For >20 To 40, Deduct</i>	-130.73	
			<i>For >40, Deduct</i>	-274.36	
26 56	13 00-0520	EA	24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	2,269.70	462.77
			<i>For >10 To 20, Deduct</i>	-76.90	
			<i>For >20 To 40, Deduct</i>	-140.37	
			<i>For >40, Deduct</i>	-294.18	
26 56	13 00-0521	EA	26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	2,397.04	462.77
			<i>For >10 To 20, Deduct</i>	-82.00	
			<i>For >20 To 40, Deduct</i>	-149.28	
			<i>For >40, Deduct</i>	-313.28	
26 56	13 00-0522	EA	28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	2,566.51	491.70
			<i>For >10 To 20, Deduct</i>	-87.91	
			<i>For >20 To 40, Deduct</i>	-159.99	
			<i>For >40, Deduct</i>	-335.81	
26 56	13 00-0523	EA	30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	2,735.99	520.61
			<i>For >10 To 20, Deduct</i>	-93.82	
			<i>For >20 To 40, Deduct</i>	-170.69	
			<i>For >40, Deduct</i>	-358.34	
26 56	13 00-0524	EA	10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,473.97	202.46
			<i>For >10 To 20, Deduct</i>	-52.88	
			<i>For >20 To 40, Deduct</i>	-95.08	
			<i>For >40, Deduct</i>	-200.85	
26 56	13 00-0525	EA	12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,558.54	231.38
			<i>For >10 To 20, Deduct</i>	-55.40	
			<i>For >20 To 40, Deduct</i>	-99.84	
			<i>For >40, Deduct</i>	-210.64	
26 56	13 00-0526	EA	14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,644.68	260.31
			<i>For >10 To 20, Deduct</i>	-57.98	
			<i>For >20 To 40, Deduct</i>	-104.72	
			<i>For >40, Deduct</i>	-220.67	
26 56	13 00-0527	EA	16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,733.97	289.23
			<i>For >10 To 20, Deduct</i>	-60.68	
			<i>For >20 To 40, Deduct</i>	-109.81	
			<i>For >40, Deduct</i>	-231.17	
26 56	13 00-0528	EA	18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,831.12	318.15
			<i>For >10 To 20, Deduct</i>	-63.70	
			<i>For >20 To 40, Deduct</i>	-115.45	
			<i>For >40, Deduct</i>	-242.85	
26 56	13 00-0529	EA	20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,926.70	347.08
			<i>For >10 To 20, Deduct</i>	-66.66	
			<i>For >20 To 40, Deduct</i>	-120.99	
			<i>For >40, Deduct</i>	-254.30	
26 56	13 00-0530	EA	22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	2,080.12	404.93
			<i>For >10 To 20, Deduct</i>	-71.06	
			<i>For >20 To 40, Deduct</i>	-129.41	
			<i>For >40, Deduct</i>	-271.53	
26 56	13 00-0531	EA	24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	2,269.70	462.77
			<i>For >10 To 20, Deduct</i>	-76.90	
			<i>For >20 To 40, Deduct</i>	-140.37	
			<i>For >40, Deduct</i>	-294.18	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0532 EA 26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,323.15 -79.04 -144.11 -302.20	462.77
26 56 13 00-0533 EA 28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,436.03 -82.69 -150.85 -316.24	491.70
26 56 13 00-0534 EA 30' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,548.90 -86.34 -157.60 -330.27	520.61
26 56 13 00-0535 EA 10' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,686.21 -61.37 -109.94 -232.69	202.46
26 56 13 00-0536 EA 12' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,792.78 -64.77 -116.24 -245.78	231.38
26 56 13 00-0537 EA 14' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,899.36 -68.17 -122.54 -258.87	260.31
26 56 13 00-0538 EA 16' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,007.52 -71.62 -128.96 -272.21	289.23
26 56 13 00-0539 EA 18' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,121.96 -75.33 -135.81 -286.48	318.15
26 56 13 00-0540 EA 20' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,245.84 -79.42 -143.33 -302.17	347.08
26 56 13 00-0541 EA 22' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,441.71 -85.52 -154.72 -325.76	404.93
26 56 13 00-0542 EA 24' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,639.15 -91.68 -166.23 -349.60	462.77
26 56 13 00-0543 EA 26' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,720.90 -94.95 -171.95 -361.86	462.77
26 56 13 00-0544 EA 28' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,907.66 -101.56 -183.87 -386.98	491.70
26 56 13 00-0545 EA 30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,058.27 -106.71 -193.25 -406.68	520.61
26 56 13 00-0546 EA 32' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,179.94 -111.15 -201.19 -423.48	535.08
26 56 13 00-0547 EA 34' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,301.62 -115.58 -209.13 -440.29	549.54
26 56 13 00-0548 Round Tapered, Fiberglass Area Light Poles, Direct Burial <small>(26 56 13 00-0511)</small>		
26 56 13 00-0549 EA 10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	817.46 -28.36 -51.44 -108.16	144.62
26 56 13 00-0550 EA 12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	876.25 -30.28 -54.97 -115.53	159.08
26 56 13 00-0551 EA 14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	933.48 -32.13 -58.40 -122.67	173.54
26 56 13 00-0552 EA 16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	960.21 -33.20 -60.27 -126.68	173.54

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0553	EA	18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,033.15	188.00
			<i>For >10 To 20, Deduct</i>	-35.69	
			<i>For >20 To 40, Deduct</i>	-64.80	
			<i>For >40, Deduct</i>	-136.17	
26 56	13 00-0554	EA	20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,093.52	202.46
			<i>For >10 To 20, Deduct</i>	-37.67	
			<i>For >20 To 40, Deduct</i>	-68.45	
			<i>For >40, Deduct</i>	-143.78	
26 56	13 00-0555	EA	22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,158.60	216.93
			<i>For >10 To 20, Deduct</i>	-39.84	
			<i>For >20 To 40, Deduct</i>	-72.43	
			<i>For >40, Deduct</i>	-152.10	
26 56	13 00-0556	EA	24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,231.54	231.38
			<i>For >10 To 20, Deduct</i>	-42.32	
			<i>For >20 To 40, Deduct</i>	-76.95	
			<i>For >40, Deduct</i>	-161.59	
26 56	13 00-0557	EA	26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,382.46	231.38
			<i>For >10 To 20, Deduct</i>	-48.36	
			<i>For >20 To 40, Deduct</i>	-87.52	
			<i>For >40, Deduct</i>	-184.23	
26 56	13 00-0558	EA	28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,562.31	245.85
			<i>For >10 To 20, Deduct</i>	-55.12	
			<i>For >20 To 40, Deduct</i>	-99.53	
			<i>For >40, Deduct</i>	-209.76	
26 56	13 00-0559	EA	30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,742.15	260.31
			<i>For >10 To 20, Deduct</i>	-61.88	
			<i>For >20 To 40, Deduct</i>	-111.54	
			<i>For >40, Deduct</i>	-235.29	
26 56	13 00-0560	EA	10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	962.10	144.62
			<i>For >10 To 20, Deduct</i>	-34.15	
			<i>For >20 To 40, Deduct</i>	-61.56	
			<i>For >40, Deduct</i>	-129.85	
26 56	13 00-0561	EA	12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,028.75	159.08
			<i>For >10 To 20, Deduct</i>	-36.38	
			<i>For >20 To 40, Deduct</i>	-65.65	
			<i>For >40, Deduct</i>	-138.41	
26 56	13 00-0562	EA	14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,095.41	173.54
			<i>For >10 To 20, Deduct</i>	-38.61	
			<i>For >20 To 40, Deduct</i>	-69.74	
			<i>For >40, Deduct</i>	-146.96	
26 56	13 00-0563	EA	16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,134.71	173.54
			<i>For >10 To 20, Deduct</i>	-40.18	
			<i>For >20 To 40, Deduct</i>	-72.49	
			<i>For >40, Deduct</i>	-152.85	
26 56	13 00-0564	EA	18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,201.36	188.00
			<i>For >10 To 20, Deduct</i>	-42.41	
			<i>For >20 To 40, Deduct</i>	-76.58	
			<i>For >40, Deduct</i>	-161.40	
26 56	13 00-0565	EA	20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,268.02	202.46
			<i>For >10 To 20, Deduct</i>	-44.65	
			<i>For >20 To 40, Deduct</i>	-80.66	
			<i>For >40, Deduct</i>	-169.96	
26 56	13 00-0566	EA	22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,334.67	216.93
			<i>For >10 To 20, Deduct</i>	-46.88	
			<i>For >20 To 40, Deduct</i>	-84.75	
			<i>For >40, Deduct</i>	-178.51	
26 56	13 00-0567	EA	24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,437.48	231.38
			<i>For >10 To 20, Deduct</i>	-50.56	
			<i>For >20 To 40, Deduct</i>	-91.37	
			<i>For >40, Deduct</i>	-192.48	
26 56	13 00-0568	EA	26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,583.69	231.38
			<i>For >10 To 20, Deduct</i>	-56.41	
			<i>For >20 To 40, Deduct</i>	-101.60	
			<i>For >40, Deduct</i>	-214.42	
26 56	13 00-0569	EA	28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,760.40	245.85
			<i>For >10 To 20, Deduct</i>	-63.04	
			<i>For >20 To 40, Deduct</i>	-113.39	
			<i>For >40, Deduct</i>	-239.48	
26 56	13 00-0570	EA	30' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,935.52	260.31
			<i>For >10 To 20, Deduct</i>	-69.61	
			<i>For >20 To 40, Deduct</i>	-125.07	
			<i>For >40, Deduct</i>	-264.30	
26 56	13 00-0571	EA	10' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,089.44	144.62
			<i>For >10 To 20, Deduct</i>	-39.24	
			<i>For >20 To 40, Deduct</i>	-70.48	
			<i>For >40, Deduct</i>	-148.95	
26 56	13 00-0572	EA	12' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,146.66	159.08
			<i>For >10 To 20, Deduct</i>	-41.09	
			<i>For >20 To 40, Deduct</i>	-73.90	
			<i>For >40, Deduct</i>	-156.09	
26 56	13 00-0573	EA	14' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	1,202.31	173.54
			<i>For >10 To 20, Deduct</i>	-42.89	
			<i>For >20 To 40, Deduct</i>	-77.22	
			<i>For >40, Deduct</i>	-162.99	



Electrical	26	
Lighting	26 50	26
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0574 EA 16' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,229.04 -43.96 -79.09 -167.00	173.54
26 56 13 00-0575 EA 18' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,284.69 -45.75 -82.41 -173.90	188.00
26 56 13 00-0576 EA 20' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,341.91 -47.60 -85.84 -181.04	202.46
26 56 13 00-0577 EA 22' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,452.58 -51.60 -93.00 -196.19	216.93
26 56 13 00-0578 EA 24' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,582.12 -56.34 -101.49 -214.18	231.38
26 56 13 00-0579 EA 26' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,673.30 -59.99 -107.88 -227.86	231.38
26 56 13 00-0580 EA 28' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,794.99 -64.42 -115.82 -244.66	245.85
26 56 13 00-0581 EA 30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,916.65 -68.86 -123.75 -261.47	260.31
26 56 13 00-0582 Factory Accessories For Fiberglass Area Light Poles (26 56 13 00-0510)		
26 56 13 00-0583 EA Open Or Capped Top For Fiberglass Area Light Poles	55.74	
26 56 13 00-0584 EA Factory Side Drilling Up To Four Fixtures On Fiberglass Area Light Poles.....	55.74	
26 56 13 00-0585 EA Smooth Shaft Finish For Fiberglass Area Light Poles.....	105.76	
26 56 13 00-0586 EA Vibration Dampener For Fiberglass Area Light Poles	140.06	
26 56 13 00-0587 Concrete Area Light Poles (26 56 13 00-0177)		
26 56 13 00-0588 Octagonal Tapered, Spun Concrete Area Light Poles, Anchor Base (26 56 13 00-0587)		
26 56 13 00-0589 EA 28' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,252.88	491.70
26 56 13 00-0590 EA 30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,374.21	520.61
26 56 13 00-0591 EA 33' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,465.13	535.08
26 56 13 00-0592 EA 36' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	3,119.65	549.54
26 56 13 00-0593 EA 38' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	3,480.57	578.46
26 56 13 00-0594 EA 43' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	4,291.03	752.00
26 56 13 00-0595 EA 47' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	5,129.03	925.54
26 56 13 00-0596 EA 27' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base..... Note: Polished brown with acrylic coating finish.	5,163.02	491.70
26 56 13 00-0597 EA 30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base..... Note: Polished brown with acrylic coating finish.	5,980.81	520.61
26 56 13 00-0598 EA Pole Adapter Base Plate, Galvanized Steel, 1" Thick For Adapting Up To 40'	533.66	173.54
26 56 13 00-0599 EA 13' High Concrete Octagonal Area Light Pole, Pink With Acrylic Coating, Finish Design	3,099.90	346.97
26 56 13 00-0600 EA Pole Base Cover For All Octagon Poles	207.34	70.80
26 56 13 00-0601 EA Pole Arms 24" Long, Square, 250 Watt Fixture, Dark, Architectural Bronze	424.45	141.61
26 56 13 00-0602 Tapered, Spun Concrete Area Light Poles, Direct Burial (26 56 13 00-0587) Note: Round or square.		
26 56 13 00-0603 EA 13' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	2,559.83	231.38
26 56 13 00-0604 EA 16' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	2,879.47	289.23
26 56 13 00-0605 EA 18' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	3,166.55	347.08
26 56 13 00-0606 EA 30' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	4,394.76	520.61
26 56 13 00-0607 EA 35' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	5,091.74	549.54
26 56 13 00-0608 EA 40' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	5,846.48	578.46
26 56 13 00-0609 EA 45' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	6,739.13	752.00
26 56 13 00-0610 Round Tapered, Spun Concrete Area Light Poles, Direct Burial (26 56 13 00-0587)		
26 56 13 00-0611 EA 60' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 60 9-22).....	13,258.97	1,301.54
26 56 13 00-0612 EA 70' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 70 9-24).....	15,760.85	1,580.81
26 56 13 00-0613 EA 80' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C1 80 9-26).....	18,727.26	2,135.48
26 56 13 00-0614 Treated Wood Area Light Poles (26 56 13 00-0177) See CSI section 26 05 46 00-0001 for wood poles.		
26 56 13 00-0615 Cast Iron Decorative Light Posts (26 56 13 00-0177)		



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0616		Round Tapered, Cast Iron Decorative Light Post, Anchor Base (26 56 13 00-0615) Note: As manufactured by Hadco and King Luminaries or an approved equal.		
26 56 13 00-0617	EA	10' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,091.25	144.62
26 56 13 00-0618	EA	12' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,156.51	166.60
26 56 13 00-0619	EA	14' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,251.25	173.54
26 56 13 00-0620	EA	16' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,533.01	202.46
26 56 13 00-0621	EA	18' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,783.77	219.81
26 56 13 00-0622	EA	20' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	2,046.30	237.17
26 56 13 00-0623		Landscape Light Poles (26 56 13 00-0001) Note: Excludes lighting fixtures.		
26 56 13 00-0624		Aluminum Landscape Light Poles (26 56 13 00-0623) Note: Includes painted finish.		
26 56 13 00-0625		Round Straight, Aluminum Landscape Light Poles (26 56 13 00-0624)		
26 56 13 00-0626		Round Straight, Aluminum Landscape Light Poles, Anchor Base (26 56 13 00-0625)		
26 56 13 00-0627	EA	7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base.....	443.63	173.54
26 56 13 00-0628	EA	12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base	768.33	231.38
26 56 13 00-0629		Round Straight, Aluminum Landscape Light Poles, Direct Burial (26 56 13 00-0625)		
26 56 13 00-0630	EA	7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial	398.19	173.54
26 56 13 00-0631	EA	12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial	722.89	231.38
26 56 13 00-0632		Steel Landscape Light Poles (26 56 13 00-0623) Note: Includes painted finish.		
26 56 13 00-0633		Round Straight, Steel Landscape Light Poles (26 56 13 00-0632)		
26 56 13 00-0634		Round Straight, Steel Landscape Light Poles, Anchor Base (26 56 13 00-0633)		
26 56 13 00-0635	EA	6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Anchor Base	442.24	173.54
26 56 13 00-0636		Round Straight, Steel Landscape Light Poles, Direct Burial (26 56 13 00-0633)		
26 56 13 00-0637	EA	6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Direct Burial	420.92	173.54
26 56 13 00-0638		Light Pole Brackets And Arms (26 56 13 00-0001)		
26 56 13 00-0639		Light Pole Brackets (26 56 13 00-0638)		
26 56 13 00-0640		Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0639)		
26 56 13 00-0641		Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0640)		
26 56 13 00-0642		Steel, Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0641) Note: Includes powdercoat finish.		
26 56 13 00-0643	EA	Two Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket	451.04	34.71
		<i>For Galvanized Finish, Add</i>	38.16	
26 56 13 00-0644	EA	Three Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket.....	566.17	34.71
		<i>For Galvanized Finish, Add</i>	49.68	
26 56 13 00-0645	EA	Three Tenons At 120 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket.....	601.32	34.71
		<i>For Galvanized Finish, Add</i>	53.19	
26 56 13 00-0646	EA	Four Tenons At 90 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket.....	818.26	34.71
		<i>For Galvanized Finish, Add</i>	74.88	
26 56 13 00-0647	EA	Four Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket.....	852.04	34.71
		<i>For Galvanized Finish, Add</i>	78.26	
26 56 13 00-0648		Aluminum, Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0641) Note: Includes satin brushed or painted finish.		
26 56 13 00-0649	EA	Two Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket	246.26	34.71
		<i>For Bronze Or Satin Anodized Finish, Add</i>	17.68	
		<i>For Black Anodized Finish, Add</i>	35.37	
26 56 13 00-0650	EA	Three Tenons At 120 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....	302.68	34.71
		<i>For Bronze Or Satin Anodized Finish, Add</i>	23.33	
		<i>For Black Anodized Finish, Add</i>	46.65	
26 56 13 00-0651	EA	Three Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....	317.87	34.71
		<i>For Bronze Or Satin Anodized Finish, Add</i>	24.85	
		<i>For Black Anodized Finish, Add</i>	49.69	
26 56 13 00-0652	EA	Four Tenons At 90 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....	371.03	34.71
		<i>For Bronze Or Satin Anodized Finish, Add</i>	30.16	
		<i>For Black Anodized Finish, Add</i>	60.32	
26 56 13 00-0653	EA	Four Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....	381.88	34.71
		<i>For Bronze Or Satin Anodized Finish, Add</i>	31.25	
		<i>For Black Anodized Finish, Add</i>	62.49	
26 56 13 00-0654		Square Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0640)		



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0655 Steel, Square Bullhorn Style, Pole Top Area Light Brackets <small>(26 56 13 00-0654)</small>		
<i>Note: Includes powdercoat finish.</i>		
26 56 13 00-0656 EA Two Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket	483.91	34.71
<i>For Galvanized Finish, Add</i>		
	<i>41.45</i>	
26 56 13 00-0657 EA Three Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket	594.20	34.71
<i>For Galvanized Finish, Add</i>		
	<i>52.48</i>	
26 56 13 00-0658 EA Four Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket	723.73	34.71
<i>For Galvanized Finish, Add</i>		
	<i>65.43</i>	
26 56 13 00-0659 EA Four Tenons At 90 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket	853.86	34.71
<i>For Galvanized Finish, Add</i>		
	<i>78.44</i>	
26 56 13 00-0660 Wood Pole Clamp On Style, Pole Top Area Light Brackets <small>(26 56 13 00-0639)</small>		
26 56 13 00-0661 Steel, Wood Pole Clamp On Style, Pole Top Area Light Brackets <small>(26 56 13 00-0660)</small>		
<i>Note: Includes powdercoat finish.</i>		
26 56 13 00-0662 EA One Tenon, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket	468.68	57.85
26 56 13 00-0663 EA Two Tenons At 90, 120 Or 180 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket	694.41	57.85
26 56 13 00-0664 EA Three Tenons At 120 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket	961.50	57.85
26 56 13 00-0665 EA Four Tenons At 90 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket	1,049.36	57.85
26 56 13 00-0666 Light Pole Arms <small>(26 56 13 00-0638)</small>		
26 56 13 00-0667 Wood Pole Streetlight Arms <small>(26 56 13 00-0666)</small>		
26 56 13 00-0668 Steel, Wood Pole Streetlight Arms <small>(26 56 13 00-0667)</small>		
26 56 13 00-0669 EA 1-1/4" Arm Diameter, 2-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount	280.17	52.06
26 56 13 00-0670 EA 1-1/4" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount	297.65	57.85
26 56 13 00-0671 EA 1-1/4" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount	347.32	72.31
26 56 13 00-0672 EA 2" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount	405.81	57.85
26 56 13 00-0673 EA 2" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount	455.19	72.31
26 56 13 00-0674 EA 2" Arm Diameter, 7-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount	552.13	86.77
26 56 13 00-0675 Aluminum, Wood Pole Streetlight Arms <small>(26 56 13 00-0667)</small>		
26 56 13 00-0676 EA 1-1/4" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount	237.18	57.85
26 56 13 00-0677 EA 2" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount	299.50	57.85
26 56 13 00-0678 EA 2" Arm Diameter, 66" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount	402.43	72.31
26 56 13 00-0679 EA 2" Arm Diameter, 90" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount	531.20	86.77
26 56 13 00-0680 Area Light Arms <small>(26 56 13 00-0666)</small>		
26 56 13 00-0681 Steel Area Light Arms <small>(26 56 13 00-0680)</small>		
26 56 13 00-0682 EA Single, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount	518.16	57.85
26 56 13 00-0683 EA Two, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount	801.71	63.63
26 56 13 00-0684 EA Three, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount	890.31	69.42
26 56 13 00-0685 EA Four, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount	1,054.37	75.20
26 56 13 00-0686 EA Single, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount	619.40	72.31
26 56 13 00-0687 EA Two, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount	874.65	78.09
26 56 13 00-0688 Aluminum Area Light Arms <small>(26 56 13 00-0680)</small>		
26 56 13 00-0689 EA Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount	292.54	57.85
26 56 13 00-0690 EA Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount	360.52	72.31
26 56 13 00-0691 EA Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount	430.67	86.77
26 56 13 00-0692 EA Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount	290.37	57.85
26 56 13 00-0693 EA Two, 4' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount	419.12	63.63
26 56 13 00-0694 EA Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount	356.18	72.31
26 56 13 00-0695 EA Two, 6' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount	510.96	78.09
26 56 13 00-0696 EA Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount	432.84	86.77
26 56 13 00-0697 EA Two, 8' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount	621.24	92.56
26 56 13 00-0698 Removal And Reinstallation Of Lighting Pole <small>(26 56 13 00-0001)</small>		
26 56 13 00-0699 EA Removal And Relocation Of Up To 45' Lighting Pole And Standards With One Or Two Arms	1,908.93	
26 56 13 00-0700 High Mast Lighting <small>(26 56 13 00-0001)</small>		
26 56 13 00-0701 High Mast Lighting Assemblies <small>(26 56 13 00-0700)</small>		
<i>Note: Includes non-latching system, ring assembly with internal bumper, acrylic top cover, pulley supports, cast arm filter for pipe tension, transition assembly, standard head frame assembly, standard hoist, and powder coated pole. See CSI section 26 56 21 00-0001 for high mast fixtures.</i>		
26 56 13 00-0702 EA 60' High Mast Lighting Assembly	39,875.88	1,754.75
26 56 13 00-0703 EA 70' High Mast Lighting Assembly	42,118.10	1,837.84
26 56 13 00-0704 EA 80' High Mast Lighting Assembly	44,392.89	1,957.88
26 56 13 00-0705 EA 90' High Mast Lighting Assembly	46,698.94	2,114.85
26 56 13 00-0706 EA 100' High Mast Lighting Assembly	49,023.69	2,308.68
26 56 13 00-0707 EA 110' High Mast Lighting Assembly	52,015.84	2,539.72
26 56 13 00-0708 EA 120' High Mast Lighting Assembly	54,440.90	2,770.57

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0709 EA 130' High Mast Lighting Assembly	56,684.22	3,001.43
26 56 13 00-0710 EA 140' High Mast Lighting Assembly	59,109.27	3,232.39
26 56 13 00-0711 EA 150' High Mast Lighting Assembly	62,048.52	3,463.25
26 56 13 00-0712 High Mast Light Poles (26 56 13 00-0700)		
26 56 13 00-0713 EA 60' High Mast Light Poles	15,315.67	1,053.87
26 56 13 00-0714 EA 70' High Mast Light Poles	17,532.93	1,103.80
26 56 13 00-0715 EA 80' High Mast Light Poles	19,771.68	1,175.90
26 56 13 00-0716 EA 90' High Mast Light Poles	22,030.56	1,270.20
26 56 13 00-0717 EA 100' High Mast Light Poles	24,310.94	1,386.67
26 56 13 00-0718 EA 110' High Mast Light Poles	26,612.81	1,525.34
26 56 13 00-0719 EA 120' High Mast Light Poles	28,362.78	1,664.01
26 56 13 00-0720 EA 130' High Mast Light Poles	28,127.01	3,083.96
26 56 13 00-0721 EA 140' High Mast Light Poles	31,679.65	1,941.34
26 56 13 00-0722 EA 150' High Mast Light Poles	33,612.70	2,080.01
26 56 13 00-0723 High Mast Lighting Accessories (26 56 13 00-0700)		
See CSI section 26 55 13 00-0119 for lighting fixtures, 26 56 21 00-0001 for light fixtures.		
26 56 13 00-0724 EA Bottom Latching System For High Mast Lighting	709.66	
26 56 13 00-0725 EA Top Latching System For High Mast Lighting	1,991.77	
26 56 13 00-0726 EA Centering Springs For High Mast Lighting	1,508.31	
26 56 13 00-0727 EA Electric Power Cord For High Mast Lighting	638.50	
26 56 13 00-0728 EA Aircraft Warning Lights For High Mast Lighting	1,196.19	
26 56 13 00-0729 EA Internal Motorized Hoist For High Mast Lighting	12,733.37	
26 56 13 00-0730 EA Portable Hoist Motor With Step Down Transformer For High Mast Lighting	12,819.36	
26 56 13 00-0731 Concrete Bases (26 56 13 00-0001)		
26 56 13 00-0732 Concrete Bases, Cast In Place (26 56 13 00-0731)		
Note: Includes excavation/drilling, concrete, reinforcement, forms for exposed base, anchors/supports and backfill. Excludes conduit.		
26 56 13 00-0733 VLF 2' Diameter Concrete Base For Poles	92.26	
26 56 13 00-0734 VLF 2-1/2' Diameter Concrete Base For Poles	118.24	
26 56 13 00-0735 VLF 3' Diameter Concrete Base For Poles	145.84	
26 56 13 00-0736 VLF 3-1/2' Diameter Concrete Base For Poles	183.50	
26 56 13 00-0737 VLF 4' Diameter Concrete Base For Poles	220.63	
26 56 13 00-0738 VLF 5' Diameter Concrete Base For Poles	305.21	
26 56 13 00-0739 VLF 6' Diameter Concrete Base For Poles	406.16	
26 56 18 Incandescent Exterior Lighting (26 56)		
26 56 18 00-0001 Exterior Globe (26 56 18)		
26 56 18 00-0002 Incandescent, Exterior Globe (26 56 18 00-0001)		
26 56 18 00-0003 EA 100 Watt Incandescent, Enclosed And Gasketed, Exterior Wall Fixture	53.43	18.45
26 56 18 00-0004 EA 150 To 200 Watt Incandescent, Enclosed And Gasketed, Exterior Wall Fixture	85.29	18.45
26 56 18 00-0005 EA 100 Watt Incandescent, Enclosed And Gasketed With Guard, Exterior Wall Fixture	64.23	18.45
26 56 18 00-0006 EA 150 To 200 Watt Incandescent, Enclosed And Gasketed With Guard, Exterior Wall Fixture	89.45	18.45
26 56 18 00-0007 Compact Fluorescent And Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures (26 56 18)		
Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 18 00-0008 EA 7 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	215.15	73.79
26 56 18 00-0009 EA 9 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	224.41	78.41
26 56 18 00-0010 EA 13 Or 14 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	246.97	83.02
26 56 18 00-0011 EA 75 Watt Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	241.25	92.25
26 56 18 00-0012 EA 100 Watt Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	271.61	106.08
26 56 19 LED Exterior Lighting (26 56)		
26 56 19 00-0001 LED, Roadway Lighting (26 56 19)		
26 56 19 00-0002 LED Roadway Lighting (Philips Lumec) (26 56 19 00-0001)		
26 56 19 00-0003 Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec GPL Series) (26 56 19 00-0002)		
Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 570mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0004 EA 49 LEDs, 102 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPL Series)	1,161.48	138.43
For >50 To 100, Deduct	-58.07	
For >100 To 250, Deduct	-87.11	
For >250 To 500, Deduct	-138.26	
For >500 To 1000, Deduct	-189.42	
For >1000, Deduct	-240.57	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0005 EA 98 LEDs, 204 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLM Series)	1,793.70	142.17
For >50 To 100, Deduct	-89.69	
For >100 To 250, Deduct	-134.53	
For >250 To 500, Deduct	-217.10	
For >500 To 1000, Deduct	-299.68	
For >1000, Deduct	-382.26	
26 56 19 00-0006 Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec RFM Series) (26 56 19 00-0002)		
Note: UL wet listed. Includes 3,000 to 4,000K color temperature, 120-277 voltage, up to 1050mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0007 EA 48 LEDs, 55 Watt, Type III Medium, 120-277 Volt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec RFM Series)	855.70	138.43
For >50 To 100, Deduct	-42.79	
For >100 To 250, Deduct	-64.18	
For >250 To 500, Deduct	-100.04	
For >500 To 1000, Deduct	-135.90	
For >1000, Deduct	-171.77	
26 56 19 00-0008 EA 48 LEDs, 80 Watt, Type III Medium, 120-277 Volt, RoadFocus Roadway, LED Cobra Head Luminaire (Philips Lumec RFM Series)	855.70	138.43
For >50 To 100, Deduct	-42.79	
For >100 To 250, Deduct	-64.18	
For >250 To 500, Deduct	-100.04	
For >500 To 1000, Deduct	-135.90	
For >1000, Deduct	-171.77	
26 56 19 00-0009 EA 48 LEDs, 108 Watt, Type III Medium, 120-277 Volt, RoadFocus Roadway, LED Cobra Head Luminaire (Philips Lumec RFM Series)	855.70	138.43
For >50 To 100, Deduct	-42.79	
For >100 To 250, Deduct	-64.18	
For >250 To 500, Deduct	-100.04	
For >500 To 1000, Deduct	-135.90	
For >1000, Deduct	-171.77	
26 56 19 00-0010 LED Roadway Lighting (Lithonia) (26 56 19 00-0001)		
26 56 19 00-0011 Horizontal Tenon Mount, LED Cobra Head Street Lights (Lithonia CSX1 Series) (26 56 19 00-0010)		
Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 700mA driver, die-cast extruded aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 19 00-0012 EA 30 LEDs, 74 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series)	1,669.04	130.95
For >50 To 100, Deduct	-83.45	
For >100 To 250, Deduct	-125.18	
For >250 To 500, Deduct	-202.08	
For >500 To 1000, Deduct	-278.99	
For >1000, Deduct	-355.89	
26 56 19 00-0013 EA 60 LEDs, 146 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series)	2,738.03	134.69
For >50 To 100, Deduct	-136.90	
For >100 To 250, Deduct	-205.35	
For >250 To 500, Deduct	-335.52	
For >500 To 1000, Deduct	-465.69	
For >1000, Deduct	-595.85	
26 56 19 00-0014 LED Roadway Lighting (CREE® BetaLED®) (26 56 19 00-0001)		
26 56 19 00-0015 Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® LEDway® STR-LWY) (26 56 19 00-0014)		
Note: UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type II Medium, Type II Short or Type III Medium optic. Excludes sensors.		
26 56 19 00-0016 EA 20 LEDs, 25 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	691.94	127.21
For >50 To 100, Deduct	-34.60	
For >100 To 250, Deduct	-51.90	
For >250 To 500, Deduct	-80.13	
For >500 To 1000, Deduct	-108.37	
For >1000, Deduct	-136.61	
26 56 19 00-0017 EA 30 LEDs, 35 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	773.63	130.95
For >50 To 100, Deduct	-38.68	
For >100 To 250, Deduct	-58.02	
For >250 To 500, Deduct	-90.16	
For >500 To 1000, Deduct	-122.29	
For >1000, Deduct	-154.42	
26 56 19 00-0018 EA 40 LEDs, 45 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	871.94	134.69
For >50 To 100, Deduct	-43.60	
For >100 To 250, Deduct	-65.40	
For >250 To 500, Deduct	-102.26	
For >500 To 1000, Deduct	-139.12	
For >1000, Deduct	-175.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0019 EA 50 LEDs, 55 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	954.90	138.43
For >50 To 100, Deduct	-47.75	
For >100 To 250, Deduct	-71.62	
For >250 To 500, Deduct	-112.44	
For >500 To 1000, Deduct	-153.26	
For >1000, Deduct	-194.09	
26 56 19 00-0020 EA 60 LEDs, 65 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,037.86	142.17
For >50 To 100, Deduct	-51.89	
For >100 To 250, Deduct	-77.84	
For >250 To 500, Deduct	-122.62	
For >500 To 1000, Deduct	-167.41	
For >1000, Deduct	-212.19	
26 56 19 00-0021 EA 70 LEDs, 75 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,233.40	145.92
For >50 To 100, Deduct	-61.67	
For >100 To 250, Deduct	-92.51	
For >250 To 500, Deduct	-146.88	
For >500 To 1000, Deduct	-201.25	
For >1000, Deduct	-255.63	
26 56 19 00-0022 EA 80 LEDs, 86 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,316.37	149.65
For >50 To 100, Deduct	-65.82	
For >100 To 250, Deduct	-98.73	
For >250 To 500, Deduct	-157.06	
For >500 To 1000, Deduct	-215.40	
For >1000, Deduct	-273.74	
26 56 19 00-0023 EA 90 LEDs, 96 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,398.05	153.39
For >50 To 100, Deduct	-69.90	
For >100 To 250, Deduct	-104.85	
For >250 To 500, Deduct	-167.09	
For >500 To 1000, Deduct	-229.32	
For >1000, Deduct	-291.55	
26 56 19 00-0024 EA 100 LEDs, 111 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,556.50	157.14
For >50 To 100, Deduct	-77.83	
For >100 To 250, Deduct	-116.74	
For >250 To 500, Deduct	-186.71	
For >500 To 1000, Deduct	-256.67	
For >1000, Deduct	-326.64	
26 56 19 00-0025 EA 110 LEDs, 122 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,639.46	160.87
For >50 To 100, Deduct	-81.97	
For >100 To 250, Deduct	-122.96	
For >250 To 500, Deduct	-196.89	
For >500 To 1000, Deduct	-270.82	
For >1000, Deduct	-344.75	
26 56 19 00-0026 EA 120 LEDs, 133 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,722.42	164.62
For >50 To 100, Deduct	-86.12	
For >100 To 250, Deduct	-129.18	
For >250 To 500, Deduct	-207.07	
For >500 To 1000, Deduct	-284.96	
For >1000, Deduct	-362.85	
26 56 19 00-0027 Surface Mount, LED Transportation Fixtures (CREE® BetaLED® Edge® TSP-EDG) <small>(26 56 19 00-0014)</small>		
Note: Direct, cantenary or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0028 EA 40 LEDs, 47 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	1,338.89	134.69
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-66.94	
For >100 To 250, Deduct	-100.42	
For >250 To 500, Deduct	-160.63	
For >500 To 1000, Deduct	-220.84	
For >1000, Deduct	-281.05	
26 56 19 00-0029 EA 60 LEDs, 68 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	1,541.91	142.17
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-77.10	
For >100 To 250, Deduct	-115.64	
For >250 To 500, Deduct	-185.63	
For >500 To 1000, Deduct	-255.62	
For >1000, Deduct	-325.60	
26 56 19 00-0030 EA 80 LEDs, 90 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	1,744.94	149.65
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-87.25	
For >100 To 250, Deduct	-130.87	
For >250 To 500, Deduct	-210.63	
For >500 To 1000, Deduct	-290.40	
For >1000, Deduct	-370.16	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0031	EA		100 LEDs, 111 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	1,947.97	157.14
			<i>For Multi-Level Drive Currents, Add</i>	179.10	
			<i>For >50 To 100, Deduct</i>	-97.40	
			<i>For >100 To 250, Deduct</i>	-146.10	
			<i>For >250 To 500, Deduct</i>	-235.64	
			<i>For >500 To 1000, Deduct</i>	-325.18	
			<i>For >1000, Deduct</i>	-414.72	
26 56 19 00-0032	EA		120 LEDs, 132 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,550.14	164.62
			<i>For Multi-Level Drive Currents, Add</i>	179.10	
			<i>For >50 To 100, Deduct</i>	-127.51	
			<i>For >100 To 250, Deduct</i>	-191.26	
			<i>For >250 To 500, Deduct</i>	-310.54	
			<i>For >500 To 1000, Deduct</i>	-429.81	
			<i>For >1000, Deduct</i>	-549.09	
26 56 19 00-0033	EA		140 LEDs, 157 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,753.16	172.11
			<i>For Multi-Level Drive Currents, Add</i>	179.10	
			<i>For >50 To 100, Deduct</i>	-137.66	
			<i>For >100 To 250, Deduct</i>	-206.49	
			<i>For >250 To 500, Deduct</i>	-335.54	
			<i>For >500 To 1000, Deduct</i>	-464.59	
			<i>For >1000, Deduct</i>	-593.65	
26 56 19 00-0034	EA		160 LEDs, 179 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,956.19	179.58
			<i>For Multi-Level Drive Currents, Add</i>	179.10	
			<i>For >50 To 100, Deduct</i>	-147.81	
			<i>For >100 To 250, Deduct</i>	-221.71	
			<i>For >250 To 500, Deduct</i>	-360.54	
			<i>For >500 To 1000, Deduct</i>	-499.37	
			<i>For >1000, Deduct</i>	-638.21	
26 56 19 00-0035			Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® XSP) <small>(26 56 19 00-0014)</small>		
			Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0036	EA		4,806 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A).....	584.66	134.69
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Backlight Control Shield, Add</i>	27.73	
			<i>For Field Adjustable Output, Add</i>	22.64	
			<i>For Bird Spikes, Add</i>	41.99	
			<i>For Field Adjustable Output And Utility Label, Add</i>	30.18	
			<i>For Fuse, Add</i>	45.26	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	45.26	
			<i>For 480 Volt, Add</i>	67.90	
			<i>For Multi-Level, Add</i>	98.07	
			<i>For >50 To 100, Deduct</i>	-29.23	
			<i>For >100 To 250, Deduct</i>	-43.85	
			<i>For >250 To 500, Deduct</i>	-66.35	
			<i>For >500 To 1000, Deduct</i>	-88.85	
			<i>For >1000, Deduct</i>	-111.35	
26 56 19 00-0037	EA		5,340 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A).....	584.66	134.69
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Backlight Control Shield, Add</i>	27.73	
			<i>For Field Adjustable Output, Add</i>	22.64	
			<i>For Bird Spikes, Add</i>	41.99	
			<i>For Field Adjustable Output And Utility Label, Add</i>	30.18	
			<i>For Fuse, Add</i>	45.26	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	45.26	
			<i>For 480 Volt, Add</i>	67.90	
			<i>For Multi-Level, Add</i>	98.07	
			<i>For >50 To 100, Deduct</i>	-29.23	
			<i>For >100 To 250, Deduct</i>	-43.85	
			<i>For >250 To 500, Deduct</i>	-66.35	
			<i>For >500 To 1000, Deduct</i>	-88.85	
			<i>For >1000, Deduct</i>	-111.35	
26 56 19 00-0038	EA		8,407 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E).....	641.69	134.69
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Backlight Control Shield, Add</i>	27.73	
			<i>For Field Adjustable Output, Add</i>	22.64	
			<i>For Bird Spikes, Add</i>	41.99	
			<i>For Field Adjustable Output And Utility Label, Add</i>	30.18	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	45.26	
			<i>For 480 Volt, Add</i>	67.90	
			<i>For >50 To 100, Deduct</i>	-32.08	
			<i>For >100 To 250, Deduct</i>	-48.13	
			<i>For >250 To 500, Deduct</i>	-73.48	
			<i>For >500 To 1000, Deduct</i>	-98.83	
			<i>For >1000, Deduct</i>	-124.18	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0039	EA		8,820 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E).....	641.69	134.69
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Backlight Control Shield, Add</i>	27.73	
			<i>For Field Adjustable Output, Add</i>	22.64	
			<i>For Bird Spikes, Add</i>	41.99	
			<i>For Field Adjustable Output And Utility Label, Add</i>	30.18	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	45.26	
			<i>For 480 Volt, Add</i>	67.90	
			<i>For >50 To 100, Deduct</i>	-32.08	
			<i>For >100 To 250, Deduct</i>	-48.13	
			<i>For >250 To 500, Deduct</i>	-73.48	
			<i>For >500 To 1000, Deduct</i>	-98.83	
			<i>For >1000, Deduct</i>	-124.18	
26 56 19 00-0040	EA		9,612 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B).....	743.07	134.69
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Field Adjustable Output, Add</i>	22.64	
			<i>For Backlight Control Shield, Add</i>	38.81	
			<i>For Field Adjustable Output And Utility Label, Add</i>	30.18	
			<i>For Fuse, Add</i>	45.26	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	45.26	
			<i>For Bird Spikes, Add</i>	67.34	
			<i>For 480 Volt, Add</i>	67.90	
			<i>For Multi-Level, Add</i>	98.07	
			<i>For >50 To 100, Deduct</i>	-37.15	
			<i>For >100 To 250, Deduct</i>	-55.73	
			<i>For >250 To 500, Deduct</i>	-86.15	
			<i>For >500 To 1000, Deduct</i>	-116.57	
			<i>For >1000, Deduct</i>	-146.99	
26 56 19 00-0041	EA		10,680 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B).....	743.07	134.69
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Field Adjustable Output, Add</i>	22.64	
			<i>For Backlight Control Shield, Add</i>	38.81	
			<i>For Field Adjustable Output And Utility Label, Add</i>	30.18	
			<i>For Fuse, Add</i>	45.26	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	45.26	
			<i>For Bird Spikes, Add</i>	67.34	
			<i>For 480 Volt, Add</i>	67.90	
			<i>For Multi-Level, Add</i>	98.07	
			<i>For >50 To 100, Deduct</i>	-37.15	
			<i>For >100 To 250, Deduct</i>	-55.73	
			<i>For >250 To 500, Deduct</i>	-86.15	
			<i>For >500 To 1000, Deduct</i>	-116.57	
			<i>For >1000, Deduct</i>	-146.99	
26 56 19 00-0042	EA		13,732 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F).....	838.14	134.69
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Field Adjustable Output, Add</i>	22.64	
			<i>For Backlight Control Shield, Add</i>	38.81	
			<i>For Field Adjustable Output And Utility Label, Add</i>	30.18	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	45.26	
			<i>For Bird Spikes, Add</i>	67.34	
			<i>For 480 Volt, Add</i>	67.90	
			<i>For >50 To 100, Deduct</i>	-41.91	
			<i>For >100 To 250, Deduct</i>	-62.86	
			<i>For >250 To 500, Deduct</i>	-98.03	
			<i>For >500 To 1000, Deduct</i>	-133.21	
			<i>For >1000, Deduct</i>	-168.38	
26 56 19 00-0043	EA		14,408 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F).....	838.14	134.69
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Field Adjustable Output, Add</i>	22.64	
			<i>For Backlight Control Shield, Add</i>	38.81	
			<i>For Field Adjustable Output And Utility Label, Add</i>	30.18	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	45.26	
			<i>For Bird Spikes, Add</i>	67.34	
			<i>For 480 Volt, Add</i>	67.90	
			<i>For >50 To 100, Deduct</i>	-41.91	
			<i>For >100 To 250, Deduct</i>	-62.86	
			<i>For >250 To 500, Deduct</i>	-98.03	
			<i>For >500 To 1000, Deduct</i>	-133.21	
			<i>For >1000, Deduct</i>	-168.38	
26 56 19 00-0044	EA		2,529 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G).....	483.26	134.69
			<i>For Utility Label, Add</i>	7.54	
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.64	
			<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
			<i>For >50 To 100, Deduct</i>	-24.16	
			<i>For >100 To 250, Deduct</i>	-36.24	
			<i>For >250 To 500, Deduct</i>	-53.67	
			<i>For >500 To 1000, Deduct</i>	-71.10	
			<i>For >1000, Deduct</i>	-88.53	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0045 EA 2,722 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G).....	483.26	134.69
For Utility Label, Add	7.54	
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	22.64	
For 0 To 10 Volt Dimming, Add	45.26	
For >50 To 100, Deduct	-24.16	
For >100 To 250, Deduct	-36.24	
For >250 To 500, Deduct	-53.67	
For >500 To 1000, Deduct	-71.10	
For >1000, Deduct	-88.53	
26 56 19 00-0046 EA 3,819 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™BXSPR-A-O-X-X-C).....	507.03	134.69
For Utility Label, Add	7.54	
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	22.64	
For 0 To 10 Volt Dimming, Add	45.26	
For >50 To 100, Deduct	-25.35	
For >100 To 250, Deduct	-38.03	
For >250 To 500, Deduct	-56.64	
For >500 To 1000, Deduct	-75.26	
For >1000, Deduct	-93.88	
26 56 19 00-0047 EA 4,109 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™BXSPR-A-O-X-X-C).....	507.03	134.69
For Utility Label, Add	7.54	
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	22.64	
For 0 To 10 Volt Dimming, Add	45.26	
For >50 To 100, Deduct	-25.35	
For >100 To 250, Deduct	-38.03	
For >250 To 500, Deduct	-56.64	
For >500 To 1000, Deduct	-75.26	
For >1000, Deduct	-93.88	
26 56 19 00-0048 EA 4,548 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A).....	514.95	134.69
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Field Adjustable Output, Add	22.64	
For Field Adjustable Output And Utility Label, Add	30.18	
For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	45.26	
For 0 To 10 Volt Dimming, Add	45.26	
For >50 To 100, Deduct	-25.75	
For >100 To 250, Deduct	-38.62	
For >250 To 500, Deduct	-57.63	
For >500 To 1000, Deduct	-76.65	
For >1000, Deduct	-95.66	
26 56 19 00-0049 EA 4,627 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A).....	514.95	134.69
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Field Adjustable Output, Add	22.64	
For Field Adjustable Output And Utility Label, Add	30.18	
For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	45.26	
For 0 To 10 Volt Dimming, Add	45.26	
For >50 To 100, Deduct	-25.75	
For >100 To 250, Deduct	-38.62	
For >250 To 500, Deduct	-57.63	
For >500 To 1000, Deduct	-76.65	
For >1000, Deduct	-95.66	
26 56 19 00-0050 Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® RSW™)		
<small>(26 56 19 00-0014)</small>		
Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and gray powder coat finish. Includes utility label and NEMA® photocell receptacle. Excludes sensors.		
26 56 19 00-0051 EA 3,300 Lumens, 3000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-30K-UL-GY-N).....	499.11	134.69
For Field Adjustable Output, Add	22.64	
For Backlight Control Shield, Add	51.19	
For Bird Spikes, Add	67.79	
For >50 To 100, Deduct	-24.96	
For >100 To 250, Deduct	-37.43	
For >250 To 500, Deduct	-55.65	
For >500 To 1000, Deduct	-73.88	
For >1000, Deduct	-92.10	
26 56 19 00-0052 EA 3,300 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-40K-UL-GY-N).....	499.11	134.69
For Field Adjustable Output, Add	22.64	
For Backlight Control Shield, Add	51.19	
For Bird Spikes, Add	67.79	
For >50 To 100, Deduct	-24.96	
For >100 To 250, Deduct	-37.43	
For >250 To 500, Deduct	-55.65	
For >500 To 1000, Deduct	-73.88	
For >1000, Deduct	-92.10	

26 Electrical
26 50 Lighting
 26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0053	EA		5,000 Lumens, 3000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-30K-UL-GY-N).....	514.95	134.69
			<i>For Field Adjustable Output, Add</i>	22.64	
			<i>For Backlight Control Shield, Add</i>	51.19	
			<i>For Bird Spikes, Add</i>	67.79	
			<i>For >50 To 100, Deduct</i>	-25.75	
			<i>For >100 To 250, Deduct</i>	-38.62	
			<i>For >250 To 500, Deduct</i>	-57.63	
			<i>For >500 To 1000, Deduct</i>	-76.65	
			<i>For >1000, Deduct</i>	-95.66	
26 56 19 00-0054	EA		5,000 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-40K-UL-GY-N).....	514.95	134.69
			<i>For Field Adjustable Output, Add</i>	22.64	
			<i>For Backlight Control Shield, Add</i>	51.19	
			<i>For Bird Spikes, Add</i>	67.79	
			<i>For >50 To 100, Deduct</i>	-25.75	
			<i>For >100 To 250, Deduct</i>	-38.62	
			<i>For >250 To 500, Deduct</i>	-57.63	
			<i>For >500 To 1000, Deduct</i>	-76.65	
			<i>For >1000, Deduct</i>	-95.66	
26 56 19 00-0055			LED Roadway Lighting (Cooper Lighting) <small>(26 56 19 00-0001)</small>		
26 56 19 00-0056			Horizontal Tenon Mount, LED Roadway Fixtures (Cooper Lighting Streetworks NVN™) <small>(26 56 19 00-0055)</small>		
			Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0057	EA		1 LED Light Square, 51 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	753.27	134.69
			<i>For >50 To 100, Deduct</i>	-37.66	
			<i>For >100 To 250, Deduct</i>	-56.50	
			<i>For >250 To 500, Deduct</i>	-87.42	
			<i>For >500 To 1000, Deduct</i>	-118.35	
			<i>For >1000, Deduct</i>	-149.28	
26 56 19 00-0058	EA		2 LED Light Squares, 103 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,012.31	149.65
			<i>For >50 To 100, Deduct</i>	-50.62	
			<i>For >100 To 250, Deduct</i>	-75.92	
			<i>For >250 To 500, Deduct</i>	-119.06	
			<i>For >500 To 1000, Deduct</i>	-162.19	
			<i>For >1000, Deduct</i>	-205.32	
26 56 19 00-0059	EA		3 LED Light Squares, 154 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,088.89	172.11
			<i>For >50 To 100, Deduct</i>	-54.44	
			<i>For >100 To 250, Deduct</i>	-81.67	
			<i>For >250 To 500, Deduct</i>	-127.51	
			<i>For >500 To 1000, Deduct</i>	-173.35	
			<i>For >1000, Deduct</i>	-219.19	
26 56 19 00-0060	EA		4 LED Light Squares, 206 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,601.98	187.06
			<i>For >50 To 100, Deduct</i>	-80.10	
			<i>For >100 To 250, Deduct</i>	-120.15	
			<i>For >250 To 500, Deduct</i>	-190.89	
			<i>For >500 To 1000, Deduct</i>	-261.64	
			<i>For >1000, Deduct</i>	-332.39	
26 56 19 00-0061	EA		6 LED Light Squares, 309 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	2,092.54	212.97
			<i>For >50 To 100, Deduct</i>	-104.63	
			<i>For >100 To 250, Deduct</i>	-156.94	
			<i>For >250 To 500, Deduct</i>	-250.92	
			<i>For >500 To 1000, Deduct</i>	-344.90	
			<i>For >1000, Deduct</i>	-438.88	
26 56 19 00-0062			LED Roadway Lighting (PlanLED) <small>(26 56 19 00-0001)</small>		
26 56 19 00-0063			Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera HERA) <small>(26 56 19 00-0062)</small>		
			Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0064	EA		8,500 Lumens, 85 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 85W).....	897.78	130.95
			<i>For >50 To 100, Deduct</i>	-44.89	
			<i>For >100 To 250, Deduct</i>	-67.33	
			<i>For >250 To 500, Deduct</i>	-105.68	
			<i>For >500 To 1000, Deduct</i>	-144.02	
			<i>For >1000, Deduct</i>	-182.36	
26 56 19 00-0065	EA		11,000 Lumens, 110 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 110W).....	973.92	132.38
			<i>For >50 To 100, Deduct</i>	-48.70	
			<i>For >100 To 250, Deduct</i>	-73.04	
			<i>For >250 To 500, Deduct</i>	-115.12	
			<i>For >500 To 1000, Deduct</i>	-157.20	
			<i>For >1000, Deduct</i>	-199.27	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0066 EA 15,000 Lumens, 150 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 150W).....	1,034.20	134.69
For >50 To 100, Deduct	-51.71	
For >100 To 250, Deduct	-77.57	
For >250 To 500, Deduct	-122.54	
For >500 To 1000, Deduct	-167.52	
For >1000, Deduct	-212.49	
26 56 19 00-0067 Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera SETA) (26 56 19 00-0062)		
Note: UL wet listed. Includes 3,000K, 3,500K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0068 EA 7,200 Lumens, 60 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET060).....	602.81	127.78
For >50 To 100, Deduct	-30.14	
For >100 To 250, Deduct	-45.21	
For >250 To 500, Deduct	-68.96	
For >500 To 1000, Deduct	-92.71	
For >1000, Deduct	-116.47	
26 56 19 00-0069 EA 10,000 Lumens, 80 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET080).....	644.04	130.08
For >50 To 100, Deduct	-32.20	
For >100 To 250, Deduct	-48.30	
For >250 To 500, Deduct	-74.00	
For >500 To 1000, Deduct	-99.70	
For >1000, Deduct	-125.40	
26 56 19 00-0070 EA 12,500 Lumens, 100 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET100).....	708.73	132.38
For >50 To 100, Deduct	-35.44	
For >100 To 250, Deduct	-53.15	
For >250 To 500, Deduct	-81.97	
For >500 To 1000, Deduct	-110.79	
For >1000, Deduct	-139.61	
26 56 19 00-0071 Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera META) (26 56 19 00-0062)		
Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0072 EA 13,000 Lumens, 100 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT100).....	751.22	132.38
For 0 To 10 Volt Dimming, Add	62.75	
For 347-480 Volt, Add	62.75	
For >50 To 100, Deduct	-37.56	
For >100 To 250, Deduct	-56.34	
For >250 To 500, Deduct	-87.28	
For >500 To 1000, Deduct	-118.22	
For >1000, Deduct	-149.17	
26 56 19 00-0073 EA 16,900 Lumens, 130 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT130).....	829.71	133.53
For 0 To 10 Volt Dimming, Add	62.75	
For 347-480 Volt, Add	18.53	
For >50 To 100, Deduct	-41.49	
For >100 To 250, Deduct	-62.23	
For >250 To 500, Deduct	-97.04	
For >500 To 1000, Deduct	-131.85	
For >1000, Deduct	-166.65	
26 56 19 00-0074 EA 19,500 Lumens, 150 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT150).....	890.61	134.69
For 0 To 10 Volt Dimming, Add	62.75	
For 347-480 Volt, Add	-6.66	
For >50 To 100, Deduct	-44.53	
For >100 To 250, Deduct	-66.80	
For >250 To 500, Deduct	-104.59	
For >500 To 1000, Deduct	-142.39	
For >1000, Deduct	-180.18	
26 56 19 00-0075 LED Roadway Lighting (General Electric) (26 56 19 00-0001)		
26 56 19 00-0076 Horizontal Tenon Mount, LED Cobra Head Street Lights (General Electric) (26 56 19 00-0075)		
Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or gray powder coat finish. Excludes sensors.		
26 56 19 00-0077 EA 2,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 02XX 40 A GRAY).....	468.44	127.21
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-23.42	
For >100 To 250, Deduct	-35.13	
For >250 To 500, Deduct	-52.19	
For >500 To 1000, Deduct	-69.26	
For >1000, Deduct	-86.32	
26 56 19 00-0078 EA 3,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 03XX 40 A GRAY).....	471.89	128.93
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-23.59	
For >100 To 250, Deduct	-35.39	
For >250 To 500, Deduct	-52.54	
For >500 To 1000, Deduct	-69.69	
For >1000, Deduct	-86.84	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0079	EA	4,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 04XX 40 A GRAY)	490.74	130.95
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For >50 To 100, Deduct	-24.54	
		For >100 To 250, Deduct	-36.81	
		For >250 To 500, Deduct	-54.80	
		For >500 To 1000, Deduct	-72.78	
		For >1000, Deduct	-90.77	
26 56 19 00-0080	EA	5,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 05XX 40 A GRAY)	509.77	132.38
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For >50 To 100, Deduct	-25.49	
		For >100 To 250, Deduct	-38.23	
		For >250 To 500, Deduct	-57.10	
		For >500 To 1000, Deduct	-75.97	
		For >1000, Deduct	-94.84	
26 56 19 00-0081	EA	7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 07XX 40 A GRAY)	559.94	135.27
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For >50 To 100, Deduct	-28.00	
		For >100 To 250, Deduct	-42.00	
		For >250 To 500, Deduct	-63.23	
		For >500 To 1000, Deduct	-84.46	
		For >1000, Deduct	-105.70	
26 56 19 00-0082	EA	8,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 08XX 40 A GRAY)	586.47	136.42
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For >50 To 100, Deduct	-29.32	
		For >100 To 250, Deduct	-43.99	
		For >250 To 500, Deduct	-66.49	
		For >500 To 1000, Deduct	-88.99	
		For >1000, Deduct	-111.49	
26 56 19 00-0083	EA	9,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 10XX 40 A GRAY)	636.27	138.43
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For >50 To 100, Deduct	-31.81	
		For >100 To 250, Deduct	-47.72	
		For >250 To 500, Deduct	-72.61	
		For >500 To 1000, Deduct	-97.50	
		For >1000, Deduct	-122.40	
26 56 19 00-0084	EA	13,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERLH 0 13XX 40 A GRAY)	742.01	142.17
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For >50 To 100, Deduct	-37.10	
		For >100 To 250, Deduct	-55.65	
		For >250 To 500, Deduct	-85.64	
		For >500 To 1000, Deduct	-115.63	
		For >1000, Deduct	-145.63	
26 56 19 00-0085	EA	19,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL2 0 19XX 40 A GRAY)	864.67	149.65
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For >50 To 100, Deduct	-43.23	
		For >100 To 250, Deduct	-64.85	
		For >250 To 500, Deduct	-100.60	
		For >500 To 1000, Deduct	-136.35	
		For >1000, Deduct	-172.10	
26 56 19 00-0086		LED Roadway Lighting (Acuity AEL Autobahn) (26 56 19 00-0001)		
26 56 19 00-0087		Horizontal Tenon Mount, LED Cobra Head Street Lights (Acuity AEL Autobahn) (26 56 19 00-0086)		
		Note: UL wet listed. Includes 4,000K or 5,000K color temperature, 120-480 voltage, integral 10kV surge suppression, 0-10V dimming, die-cast extruded aluminum housing assembly and white, black, gray, graphite or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0088	EA	4,200 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 20ALEDE70)	870.83	130.95
		For >50 To 100, Deduct	-43.54	
		For >100 To 250, Deduct	-65.31	
		For >250 To 500, Deduct	-102.31	
		For >500 To 1000, Deduct	-139.30	
		For >1000, Deduct	-176.29	
26 56 19 00-0089	EA	6,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 30BLEDE70)	1,073.59	134.69
		For >50 To 100, Deduct	-53.68	
		For >100 To 250, Deduct	-80.52	
		For >250 To 500, Deduct	-127.46	
		For >500 To 1000, Deduct	-174.41	
		For >1000, Deduct	-221.35	
26 56 19 00-0090	EA	9,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 40BLEDE70)	1,483.27	138.43
		For >50 To 100, Deduct	-74.16	
		For >100 To 250, Deduct	-111.25	
		For >250 To 500, Deduct	-178.49	
		For >500 To 1000, Deduct	-245.73	
		For >1000, Deduct	-312.97	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0091	EA		13,500 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 60BLEDE70).....	1,896.30	143.90
			<i>For >50 To 100, Deduct</i>	-94.82	
			<i>For >100 To 250, Deduct</i>	-142.22	
			<i>For >250 To 500, Deduct</i>	-229.84	
			<i>For >500 To 1000, Deduct</i>	-317.46	
			<i>For >1000, Deduct</i>	-405.08	
26 56 19 00-0092	EA		17,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 80BLEDE70).....	2,299.60	147.92
			<i>For >50 To 100, Deduct</i>	-114.98	
			<i>For >100 To 250, Deduct</i>	-172.47	
			<i>For >250 To 500, Deduct</i>	-280.05	
			<i>For >500 To 1000, Deduct</i>	-387.64	
			<i>For >1000, Deduct</i>	-495.22	
26 56 19 00-0093			LED Roadway Lighting (Leotek) <small>(26 56 19 00-0001)</small>		
26 56 19 00-0094			Horizontal Tenon Mount, LED Cobra Head Street Lights (Leotek) <small>(26 56 19 00-0093)</small>		
			Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, integral surge protector, die-cast and extruded aluminum housing assembly and gray powder coat finish. Excludes sensors.		
26 56 19 00-0095	EA		Up To 3,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-XXX-WL).....	479.56	130.95
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	6.73	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	20.19	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	36.13	
			<i>For >50 To 100, Deduct</i>	-23.98	
			<i>For >100 To 250, Deduct</i>	-35.97	
			<i>For >250 To 500, Deduct</i>	-53.40	
			<i>For >500 To 1000, Deduct</i>	-70.83	
			<i>For >1000, Deduct</i>	-88.26	
26 56 19 00-0096	EA		Up To 5,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-1AMP-WL).....	489.51	132.38
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	6.73	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	20.19	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	36.13	
			<i>For >50 To 100, Deduct</i>	-24.48	
			<i>For >100 To 250, Deduct</i>	-36.71	
			<i>For >250 To 500, Deduct</i>	-54.57	
			<i>For >500 To 1000, Deduct</i>	-72.43	
			<i>For >1000, Deduct</i>	-90.28	
26 56 19 00-0097	EA		Up To 5,950 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-6M2-MV-NW-X-GY-XXX-WL).....	519.50	133.25
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	6.73	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	20.19	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	36.13	
			<i>For >50 To 100, Deduct</i>	-25.98	
			<i>For >100 To 250, Deduct</i>	-38.96	
			<i>For >250 To 500, Deduct</i>	-58.28	
			<i>For >500 To 1000, Deduct</i>	-77.59	
			<i>For >1000, Deduct</i>	-96.90	
26 56 19 00-0098	EA		Up To 9,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC3-10M2-MV-NW-X-GY-XXX-WL).....	597.70	138.43
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	6.73	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	20.19	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	36.13	
			<i>For >50 To 100, Deduct</i>	-29.89	
			<i>For >100 To 250, Deduct</i>	-44.83	
			<i>For >250 To 500, Deduct</i>	-67.79	
			<i>For >500 To 1000, Deduct</i>	-90.75	
			<i>For >1000, Deduct</i>	-113.72	
26 56 19 00-0099	EA		Up To 11,450 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-12M2-MV-NW-X-GY-XXX-WL).....	692.81	142.17
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	6.73	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	20.19	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	36.13	
			<i>For >50 To 100, Deduct</i>	-34.64	
			<i>For >100 To 250, Deduct</i>	-51.96	
			<i>For >250 To 500, Deduct</i>	-79.49	
			<i>For >500 To 1000, Deduct</i>	-107.02	
			<i>For >1000, Deduct</i>	-134.56	
26 56 19 00-0100	EA		Up To 14,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-15M2-MV-NW-X-GY-XXX-WL).....	697.42	144.47
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	6.73	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	20.19	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	36.13	
			<i>For >50 To 100, Deduct</i>	-34.87	
			<i>For >100 To 250, Deduct</i>	-52.31	
			<i>For >250 To 500, Deduct</i>	-79.95	
			<i>For >500 To 1000, Deduct</i>	-107.60	
			<i>For >1000, Deduct</i>	-135.25	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0101	EA		Up To 16,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-18M2-MV-NW-X-GY-XXX-WL).....	844.78	146.77
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	6.73	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	20.19	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	36.13	
			<i>For >50 To 100, Deduct</i>	-42.24	
			<i>For >100 To 250, Deduct</i>	-63.36	
			<i>For >250 To 500, Deduct</i>	-98.26	
			<i>For >500 To 1000, Deduct</i>	-133.16	
			<i>For >1000, Deduct</i>	-168.06	
26 56 19 00-0102	EA		Up To 18,750 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-20M2-MV-NW-X-GY-XXX-WL).....	884.46	149.65
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	6.73	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	20.19	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	36.13	
			<i>For >50 To 100, Deduct</i>	-44.22	
			<i>For >100 To 250, Deduct</i>	-66.33	
			<i>For >250 To 500, Deduct</i>	-103.07	
			<i>For >500 To 1000, Deduct</i>	-139.82	
			<i>For >1000, Deduct</i>	-176.56	
26 56 19 00-0103	EA		Up To 22,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-24M2-MV-NW-X-GY-XXX-WL).....	982.34	151.95
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	6.73	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	20.19	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	36.13	
			<i>For >50 To 100, Deduct</i>	-49.12	
			<i>For >100 To 250, Deduct</i>	-73.68	
			<i>For >250 To 500, Deduct</i>	-115.19	
			<i>For >500 To 1000, Deduct</i>	-156.71	
			<i>For >1000, Deduct</i>	-198.23	
26 56 19 00-0104	EA		Up To 29,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC9-30M2-MV-NW-X-GY-XXX-WL).....	1,050.56	154.26
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	6.73	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	20.19	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	36.13	
			<i>For >50 To 100, Deduct</i>	-52.53	
			<i>For >100 To 250, Deduct</i>	-78.79	
			<i>For >250 To 500, Deduct</i>	-123.61	
			<i>For >500 To 1000, Deduct</i>	-168.42	
			<i>For >1000, Deduct</i>	-213.24	
26 56 19 00-0105	EA		Up To 4,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-20F-MV-NW-X-GY-XXX-WL).....	548.87	132.38
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	6.73	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	20.19	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	36.13	
			<i>For >50 To 100, Deduct</i>	-27.44	
			<i>For >100 To 250, Deduct</i>	-41.17	
			<i>For >250 To 500, Deduct</i>	-61.99	
			<i>For >500 To 1000, Deduct</i>	-82.81	
			<i>For >1000, Deduct</i>	-103.64	
26 56 19 00-0106	EA		Up To 7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-30F-MV-NW-X-GY-XXX-WL).....	599.59	135.84
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	6.73	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	20.19	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	36.13	
			<i>For >50 To 100, Deduct</i>	-29.98	
			<i>For >100 To 250, Deduct</i>	-44.97	
			<i>For >250 To 500, Deduct</i>	-68.16	
			<i>For >500 To 1000, Deduct</i>	-91.34	
			<i>For >1000, Deduct</i>	-114.53	
26 56 19 00-0107	EA		Up To 9,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-XXX-WL).....	644.35	138.43
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	6.73	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	20.19	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	36.13	
			<i>For >50 To 100, Deduct</i>	-32.22	
			<i>For >100 To 250, Deduct</i>	-48.33	
			<i>For >250 To 500, Deduct</i>	-73.62	
			<i>For >500 To 1000, Deduct</i>	-98.92	
			<i>For >1000, Deduct</i>	-124.21	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0108 EA Up To 12,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-1AMP-WL).....	683.18	141.60
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	6.73	
For ANSI 7-wire Photocontrol Receptacle, Add	20.19	
For Ripley Long-Life Twist Lock Photocontrol, Add	36.13	
For >50 To 100, Deduct	-34.16	
For >100 To 250, Deduct	-51.24	
For >250 To 500, Deduct	-78.32	
For >500 To 1000, Deduct	-105.40	
For >1000, Deduct	-132.48	
26 56 19 00-0109 EA Up To 13,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-60F-MV-NW-X-GY-XXX-WL).....	722.23	142.75
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	6.73	
For ANSI 7-wire Photocontrol Receptacle, Add	20.19	
For Ripley Long-Life Twist Lock Photocontrol, Add	36.13	
For >50 To 100, Deduct	-36.11	
For >100 To 250, Deduct	-54.17	
For >250 To 500, Deduct	-83.14	
For >500 To 1000, Deduct	-112.12	
For >1000, Deduct	-141.09	
26 56 19 00-0110 EA Up To 17,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-80F-MV-NW-X-GY-XXX-WL).....	852.74	147.92
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	6.73	
For ANSI 7-wire Photocontrol Receptacle, Add	20.19	
For Ripley Long-Life Twist Lock Photocontrol, Add	36.13	
For >50 To 100, Deduct	-42.64	
For >100 To 250, Deduct	-63.96	
For >250 To 500, Deduct	-99.20	
For >500 To 1000, Deduct	-134.44	
For >1000, Deduct	-169.68	
26 56 19 00-0111 EA Up To 19,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-90F-MV-NW-X-GY-XXX-WL).....	958.84	150.80
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	6.73	
For ANSI 7-wire Photocontrol Receptacle, Add	20.19	
For Ripley Long-Life Twist Lock Photocontrol, Add	36.13	
For >50 To 100, Deduct	-47.94	
For >100 To 250, Deduct	-71.91	
For >250 To 500, Deduct	-112.31	
For >500 To 1000, Deduct	-152.72	
For >1000, Deduct	-193.12	
26 56 19 00-0112 EA Up To 22,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-100F-MV-NW-X-GY-XXX-WL).....	1,016.53	151.38
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	6.73	
For ANSI 7-wire Photocontrol Receptacle, Add	20.19	
For Ripley Long-Life Twist Lock Photocontrol, Add	36.13	
For >50 To 100, Deduct	-50.83	
For >100 To 250, Deduct	-76.24	
For >250 To 500, Deduct	-119.50	
For >500 To 1000, Deduct	-162.75	
For >1000, Deduct	-206.01	
26 56 19 00-0113 EA Up To 26,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-120F-MV-NW-X-GY-XXX-WL).....	1,072.28	153.11
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	6.73	
For ANSI 7-wire Photocontrol Receptacle, Add	20.19	
For Ripley Long-Life Twist Lock Photocontrol, Add	36.13	
For >50 To 100, Deduct	-53.61	
For >100 To 250, Deduct	-80.42	
For >250 To 500, Deduct	-126.38	
For >500 To 1000, Deduct	-172.34	
For >1000, Deduct	-218.30	
26 56 19 00-0114 EA Up To 11,720 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-30H-MV-NW-X-GY-1AMP).....	590.01	144.47
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	6.73	
For ANSI 7-wire Photocontrol Receptacle, Add	20.19	
For Ripley Long-Life Twist Lock Photocontrol, Add	36.13	
For >50 To 100, Deduct	-29.50	
For >100 To 250, Deduct	-44.25	
For >250 To 500, Deduct	-66.53	
For >500 To 1000, Deduct	-88.80	
For >1000, Deduct	-111.08	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0115	EA		Up To 15,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-40H-MV-NW-X-GY-1AMP).....	635.28	145.92
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	6.73	
			For ANSI 7-wire Photocontrol Receptacle, Add	20.19	
			For Ripley Long-Life Twist Lock Photocontrol, Add	36.13	
			For >50 To 100, Deduct	-31.76	
			For >100 To 250, Deduct	-47.65	
			For >250 To 500, Deduct	-72.11	
			For >500 To 1000, Deduct	-96.58	
			For >1000, Deduct	-121.05	
26 56 19 00-0116	EA		Up To 4,180 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ0-15H-MV-NW-X-GY-XXX-WL).....	460.66	132.10
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	6.73	
			For ANSI 7-wire Photocontrol Receptacle, Add	20.19	
			For Ripley Long-Life Twist Lock Photocontrol, Add	36.13	
			For >50 To 100, Deduct	-23.03	
			For >100 To 250, Deduct	-34.55	
			For >250 To 500, Deduct	-50.98	
			For >500 To 1000, Deduct	-67.41	
			For >1000, Deduct	-83.83	
26 56 19 00-0117	EA		Up To 5,510 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ1-20H-MV-NW-X-GY-XXX-WL).....	468.62	133.25
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	6.73	
			For ANSI 7-wire Photocontrol Receptacle, Add	20.19	
			For Ripley Long-Life Twist Lock Photocontrol, Add	36.13	
			For >50 To 100, Deduct	-23.43	
			For >100 To 250, Deduct	-35.15	
			For >250 To 500, Deduct	-51.92	
			For >500 To 1000, Deduct	-68.68	
			For >1000, Deduct	-85.45	
26 56 19 00-0118	EA		Up To 7,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ2-20H-MV-NW-X-GY-1AMP-WL).....	506.31	135.84
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	6.73	
			For ANSI 7-wire Photocontrol Receptacle, Add	20.19	
			For Ripley Long-Life Twist Lock Photocontrol, Add	36.13	
			For >50 To 100, Deduct	-25.32	
			For >100 To 250, Deduct	-37.97	
			For >250 To 500, Deduct	-56.50	
			For >500 To 1000, Deduct	-75.02	
			For >1000, Deduct	-93.54	
26 56 19 00-0119	EA		Up To 16,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-60G-MV-NW-X-GY-XXX-WL).....	758.56	146.77
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	6.73	
			For ANSI 7-wire Photocontrol Receptacle, Add	20.19	
			For Ripley Long-Life Twist Lock Photocontrol, Add	36.13	
			For >50 To 100, Deduct	-37.93	
			For >100 To 250, Deduct	-56.89	
			For >250 To 500, Deduct	-87.48	
			For >500 To 1000, Deduct	-118.07	
			For >1000, Deduct	-148.66	
26 56 19 00-0120	EA		Up To 22,100 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-80G-MV-NW-X-GY-XXX-WL).....	976.95	151.38
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	6.73	
			For ANSI 7-wire Photocontrol Receptacle, Add	20.19	
			For Ripley Long-Life Twist Lock Photocontrol, Add	36.13	
			For >50 To 100, Deduct	-48.85	
			For >100 To 250, Deduct	-73.27	
			For >250 To 500, Deduct	-114.55	
			For >500 To 1000, Deduct	-155.83	
			For >1000, Deduct	-197.11	
26 56 19 00-0121	EA		Up To 22,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL2-60G-MV-NW-X-GY-1AMP-WL).....	876.34	151.95
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	6.73	
			For ANSI 7-wire Photocontrol Receptacle, Add	20.19	
			For Ripley Long-Life Twist Lock Photocontrol, Add	36.13	
			For >50 To 100, Deduct	-43.82	
			For >100 To 250, Deduct	-65.73	
			For >250 To 500, Deduct	-101.94	
			For >500 To 1000, Deduct	-138.16	
			For >1000, Deduct	-174.38	
26 56 19 00-0122	EA		Up To 5,484 Lumens, Horizontal Tenon Mount, LED Security Light (Leotek® SafeGuard™ SG1-01-MV-NW-5-GY).....	444.28	132.38
			For Twist Lock Shorting Cap, Add	6.73	
			For ANSI 7-wire Photocontrol Receptacle, Add	20.19	
			For Ripley Long-Life Twist Lock Photocontrol, Add	36.13	
			For >50 To 100, Deduct	-22.21	
			For >100 To 250, Deduct	-33.32	
			For >250 To 500, Deduct	-48.92	
			For >500 To 1000, Deduct	-64.51	
			For >1000, Deduct	-80.10	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0123 LED, Wall Packs ^(26 56 19)		
26 56 19 00-0124 Full Cutoff, LED Wall Packs ^(26 56 19 00-0123)		
26 56 19 00-0125 Full Cutoff, LED Wall Packs (Lithonia) ^(26 56 19 00-0124)		
26 56 19 00-0126 EA 30 LEDs, 57 Watt, 530 mA Drive Current, Full Cutoff, LED Wall Pack (Lithonia CSXW LED).....	887.48	100.73
For >50 To 100, Deduct	-44.37	
For >100 To 250, Deduct	-66.56	
For >250 To 500, Deduct	-105.90	
For >500 To 1000, Deduct	-145.24	
For >1000, Deduct	-184.57	
26 56 19 00-0127 EA 30 LEDs, 35 Watt, 350 mA Drive Current, Full Cutoff, LED Wall Pack (Lithonia CSXW LED).....	961.94	100.73
For >50 To 100, Deduct	-48.10	
For >100 To 250, Deduct	-72.15	
For >250 To 500, Deduct	-115.21	
For >500 To 1000, Deduct	-158.27	
For >1000, Deduct	-201.33	
26 56 19 00-0128 Full Cutoff, LED Wall Packs (CREE® BetaLED®) ^(26 56 19 00-0124)		
26 56 19 00-0129 Wall Mount, Full Cutoff, LED Wall Packs (CREE® BetaLED® Edge® SEC-EDG) ^(26 56 19 00-0128)		
Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0130 EA 20 LEDs, 26 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	742.28	97.85
Note: Includes 350mA or 525mA driver.		
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Bird Spikes, Add	38.31	
For Fuse, Add	45.26	
For 0 To 10 Volt Dimming, Add	45.26	
For 480 Volt, Add	67.90	
For Multi-Level, Add	98.07	
For >50 To 100, Deduct	-37.11	
For >100 To 250, Deduct	-55.67	
For >250 To 500, Deduct	-87.89	
For >500 To 1000, Deduct	-120.11	
For >1000, Deduct	-152.34	
26 56 19 00-0131 EA 40 LEDs, 47 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	951.84	103.61
Note: Includes 350mA or 525mA driver.		
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Bird Spikes, Add	38.88	
For Fuse, Add	45.26	
For 0 To 10 Volt Dimming, Add	45.26	
For 480 Volt, Add	67.90	
For Multi-Level, Add	98.07	
For >50 To 100, Deduct	-47.59	
For >100 To 250, Deduct	-71.39	
For >250 To 500, Deduct	-113.80	
For >500 To 1000, Deduct	-156.21	
For >1000, Deduct	-198.62	
26 56 19 00-0132 EA 60 LEDs, 68 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	1,065.63	109.36
Note: Includes 350mA or 525mA driver.		
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Bird Spikes, Add	39.46	
For Fuse, Add	45.26	
For 0 To 10 Volt Dimming, Add	45.26	
For 480 Volt, Add	67.90	
For Multi-Level, Add	98.07	
For >50 To 100, Deduct	-53.28	
For >100 To 250, Deduct	-79.92	
For >250 To 500, Deduct	-127.74	
For >500 To 1000, Deduct	-175.55	
For >1000, Deduct	-223.36	
26 56 19 00-0133 EA 80 LEDs, 90 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	1,370.93	115.11
Note: Includes 350mA or 525mA driver.		
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Bird Spikes, Add	40.03	
For Fuse, Add	45.26	
For 0 To 10 Volt Dimming, Add	45.26	
For 480 Volt, Add	67.90	
For Multi-Level, Add	98.07	
For >50 To 100, Deduct	-68.55	
For >100 To 250, Deduct	-102.82	
For >250 To 500, Deduct	-165.61	
For >500 To 1000, Deduct	-228.40	
For >1000, Deduct	-291.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0134 EA 100 LEDs, 111 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	1,580.47	120.88
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Bird Spikes, Add	40.61	
For Fuse, Add	45.26	
For 0 To 10 Volt Dimming, Add	45.26	
For 480 Volt, Add	67.90	
For Multi-Level, Add	98.07	
For >50 To 100, Deduct	-79.02	
For >100 To 250, Deduct	-118.54	
For >250 To 500, Deduct	-191.52	
For >500 To 1000, Deduct	-264.50	
For >1000, Deduct	-337.48	
26 56 19 00-0135 EA 120 LEDs, 132 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	1,790.03	126.63
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Bird Spikes, Add	41.18	
For Fuse, Add	45.26	
For 0 To 10 Volt Dimming, Add	45.26	
For 480 Volt, Add	67.90	
For Multi-Level, Add	98.07	
For >50 To 100, Deduct	-89.50	
For >100 To 250, Deduct	-134.25	
For >250 To 500, Deduct	-217.42	
For >500 To 1000, Deduct	-300.59	
For >1000, Deduct	-383.76	
26 56 19 00-0136 Wall Mount, Full Cutoff, LED Wall Packs (CREE® BetaLED® XSPW™) (26 56 19 00-0128)		
Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-277 voltage, Class 2 driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0137 EA 25 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® XSPW™).....	448.20	97.85
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For 0 To 10 Volt Dimming, Add	45.26	
For Multi-Level, Add	45.26	
For >50 To 100, Deduct	-22.41	
For >100 To 250, Deduct	-33.62	
For >250 To 500, Deduct	-51.13	
For >500 To 1000, Deduct	-68.65	
For >1000, Deduct	-86.17	
26 56 19 00-0138 EA 42 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® XSPW™).....	518.63	103.61
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For 0 To 10 Volt Dimming, Add	45.26	
For Multi-Level, Add	45.26	
For >50 To 100, Deduct	-25.93	
For >100 To 250, Deduct	-38.90	
For >250 To 500, Deduct	-59.65	
For >500 To 1000, Deduct	-80.40	
For >1000, Deduct	-101.15	
26 56 19 00-0139 Open Face LED Wall Pack (26 56 19 00-0123)		
Note: Heavy-duty cast aluminum housing is polyester powder coated to be rust and corrosion proof, High-quality shatter-resistant glass		
26 56 19 00-0140 EA 3,640 Lumens, 28 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP28U-50B-MS).....	567.74	100.98
For >50 To 100, Deduct	-28.39	
For >100 To 250, Deduct	-42.58	
For >250 To 500, Deduct	-63.39	
For >500 To 1000, Deduct	-84.21	
For >1000, Deduct	-105.02	
26 56 19 00-0141 EA 5,540 Lumens, 40 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP40U-50B-MS).....	606.92	100.98
For >50 To 100, Deduct	-30.35	
For >100 To 250, Deduct	-45.52	
For >250 To 500, Deduct	-68.29	
For >500 To 1000, Deduct	-91.06	
For >1000, Deduct	-113.84	
26 56 19 00-0142 EA 7,065 Lumens, 50 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP50U-50B-MS).....	627.44	100.98
For >50 To 100, Deduct	-31.37	
For >100 To 250, Deduct	-47.06	
For >250 To 500, Deduct	-70.86	
For >500 To 1000, Deduct	-94.66	
For >1000, Deduct	-118.45	
26 56 19 00-0143 EA 11,375 Lumens, 80 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP80U-50B-MS).....	644.08	100.98
For >50 To 100, Deduct	-32.20	
For >100 To 250, Deduct	-48.31	
For >250 To 500, Deduct	-72.94	
For >500 To 1000, Deduct	-97.57	
For >1000, Deduct	-122.20	
26 56 19 00-0144 EA 16,945 Lumens, 120 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP120U-50B-MS).....	768.89	100.98
For >50 To 100, Deduct	-38.44	
For >100 To 250, Deduct	-57.67	
For >250 To 500, Deduct	-88.54	
For >500 To 1000, Deduct	-119.41	
For >1000, Deduct	-150.28	

26 56 19 00-0145 Wall Pack Accessories (26 56 19 00-0123)



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0146 EA Photocell For Wall Pack	104.34	25.25
26 56 19 00-0147 EA Wire Guard For Mini And Small Wall Pack	115.60	25.25
26 56 19 00-0148 EA Wire Guard For Medium And Large Wall Pack	162.68	25.25
26 56 19 00-0149 EA Clear Polycarbonate Vandal Guard For Wall Packs	230.61	25.25
26 56 19 00-0150 EA Full Cutoff Visor For Wall Pack	112.53	25.25
26 56 19 00-0151 LED, Pole Mounted (26 56 19)		
26 56 19 00-0152 LED, Pole Mounted (Dialight) (26 56 19 00-0151)		
26 56 19 00-0153 EA 131 Watt, Enclosed And Gasketed, Exterior LED Roadway Fixture (Dialight SL2C4ELGH)	1,436.20	164.62
For >50 To 100, Deduct	-71.81	
For >100 To 250, Deduct	-107.72	
For >250 To 500, Deduct	-171.29	
For >500 To 1000, Deduct	-234.87	
For >1000, Deduct	-298.45	
26 56 19 00-0154 LED, Pole Mounted (LED-Era) (26 56 19 00-0151)		
26 56 19 00-0155 EA 88 Watt, Enclosed And Gasketed, LED Exterior Roadway Fixture (LED-Era LSS)	1,767.74	149.65
For >50 To 100, Deduct	-88.39	
For >100 To 250, Deduct	-132.58	
For >250 To 500, Deduct	-213.48	
For >500 To 1000, Deduct	-294.39	
For >1000, Deduct	-375.29	
26 56 19 00-0156 EA 124 Watt, Enclosed And Gasketed, LED Exterior Roadway Fixture (LED-Era LS7)	2,100.25	164.62
For >50 To 100, Deduct	-105.01	
For >100 To 250, Deduct	-157.52	
For >250 To 500, Deduct	-254.30	
For >500 To 1000, Deduct	-351.08	
For >1000, Deduct	-447.86	
26 56 19 00-0157 LED, Pole Mounted (Lighting Science Group) (26 56 19 00-0151)		
26 56 19 00-0158 EA 50 Watt, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR1 CW R3 2B)	1,298.17	134.69
For >50 To 100, Deduct	-64.91	
For >100 To 250, Deduct	-97.36	
For >250 To 500, Deduct	-155.54	
For >500 To 1000, Deduct	-213.71	
For >1000, Deduct	-271.88	
26 56 19 00-0159 EA 75 Watt, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR2 CW R3 2B)	1,328.10	149.65
For >50 To 100, Deduct	-66.41	
For >100 To 250, Deduct	-99.61	
For >250 To 500, Deduct	-158.53	
For >500 To 1000, Deduct	-217.45	
For >1000, Deduct	-276.37	
26 56 19 00-0160 EA 100 Watt, Type II Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR3 CW R2 2B)	1,435.62	157.14
For >50 To 100, Deduct	-71.78	
For >100 To 250, Deduct	-107.67	
For >250 To 500, Deduct	-171.60	
For >500 To 1000, Deduct	-235.52	
For >1000, Deduct	-299.44	
26 56 19 00-0161 EA 100 Watt, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR3 CW R3 2B)	1,435.62	157.14
For >50 To 100, Deduct	-71.78	
For >100 To 250, Deduct	-107.67	
For >250 To 500, Deduct	-171.60	
For >500 To 1000, Deduct	-235.52	
For >1000, Deduct	-299.44	
26 56 19 00-0162 EA 150 Watt, Type II Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR4 CW R2 2B)	1,465.54	172.11
For >50 To 100, Deduct	-73.28	
For >100 To 250, Deduct	-109.92	
For >250 To 500, Deduct	-174.59	
For >500 To 1000, Deduct	-239.26	
For >1000, Deduct	-303.93	
26 56 19 00-0163 EA 150 Watt, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR4 CW R3 2B)	1,465.54	172.11
For >50 To 100, Deduct	-73.28	
For >100 To 250, Deduct	-109.92	
For >250 To 500, Deduct	-174.59	
For >500 To 1000, Deduct	-239.26	
For >1000, Deduct	-303.93	
26 56 19 00-0164 EA 86 Watt, Type V Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group SHB CW CLR)	1,701.88	149.65
For >50 To 100, Deduct	-85.09	
For >100 To 250, Deduct	-127.64	
For >250 To 500, Deduct	-205.25	
For >500 To 1000, Deduct	-282.86	
For >1000, Deduct	-360.47	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0165		LED, Area Fixtures ^(26 56 19)		
26 56 19 00-0166		Pole Mount, LED Area Fixtures ^(26 56 19 00-0165)		
26 56 19 00-0167		Pole Mount, Rectangular, LED Architectural Area Fixtures (Lithonia DSX) ^(26 56 19 00-0166)		
		Note: UL wet listed. Includes 4,000K color temperature, 480 voltage, 700mA remote driver, die-cast extruded aluminum housing assembly and white, black, aluminum or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0168	EA	20 LEDs, 49 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSXO LED).....	2,076.68	97.85
		For >50 To 100, Deduct	-103.83	
		For >100 To 250, Deduct	-155.75	
		For >250 To 500, Deduct	-254.69	
		For >500 To 1000, Deduct	-353.63	
		For >1000, Deduct	-452.58	
26 56 19 00-0169	EA	40 LEDs, 89 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSXO LED).....	2,238.67	103.61
		For >50 To 100, Deduct	-111.93	
		For >100 To 250, Deduct	-167.90	
		For >250 To 500, Deduct	-274.65	
		For >500 To 1000, Deduct	-381.41	
		For >1000, Deduct	-488.16	
26 56 19 00-0170	EA	80 LEDs, 188 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSX2 LED).....	2,412.17	115.11
		For >50 To 100, Deduct	-120.61	
		For >100 To 250, Deduct	-180.91	
		For >250 To 500, Deduct	-295.77	
		For >500 To 1000, Deduct	-410.62	
		For >1000, Deduct	-525.47	
26 56 19 00-0171	EA	100 LEDs, 218 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSX2 LED).....	2,423.67	120.88
		For >50 To 100, Deduct	-121.18	
		For >100 To 250, Deduct	-181.78	
		For >250 To 500, Deduct	-296.92	
		For >500 To 1000, Deduct	-412.06	
		For >1000, Deduct	-527.20	
26 56 19 00-0172		Arm Mount, Rectangular, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EDG) ^(26 56 19 00-0166)		
		Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type III Medium optic. Excludes sensors. All fixtures without the backlight control shield are DLC qualified		
26 56 19 00-0173	EA	40 LEDs, 47 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG).....	990.16	103.61
		For Backlight Shielding, Add	17.91	
		For Type II Medium Optic, Add	31.86	
		For 347-480 Volt, Add	74.30	
		For Multi-Level Drive Currents, Add	179.10	
		For >50 To 100, Deduct	-49.51	
		For >100 To 250, Deduct	-74.26	
		For >250 To 500, Deduct	-118.59	
		For >500 To 1000, Deduct	-162.92	
		For >1000, Deduct	-207.24	
26 56 19 00-0174	EA	60 LEDs, 68 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG).....	1,189.72	109.36
		For Backlight Shielding, Add	17.91	
		For Type II Medium Optic, Add	32.44	
		For 347-480 Volt, Add	74.30	
		For Multi-Level Drive Currents, Add	179.10	
		For >50 To 100, Deduct	-59.49	
		For >100 To 250, Deduct	-89.23	
		For >250 To 500, Deduct	-143.25	
		For >500 To 1000, Deduct	-197.27	
		For >1000, Deduct	-251.28	
26 56 19 00-0175	EA	80 LEDs, 90 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG).....	1,464.78	115.11
		For Backlight Shielding, Add	17.91	
		For Type II Medium Optic, Add	33.01	
		For 347-480 Volt, Add	74.30	
		For Multi-Level Drive Currents, Add	179.10	
		For >50 To 100, Deduct	-73.24	
		For >100 To 250, Deduct	-109.86	
		For >250 To 500, Deduct	-177.34	
		For >500 To 1000, Deduct	-244.82	
		For >1000, Deduct	-312.31	
26 56 19 00-0176	EA	100 LEDs, 111 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG).....	1,664.34	120.88
		For Backlight Shielding, Add	17.91	
		For Type II Medium Optic, Add	33.59	
		For 347-480 Volt, Add	74.30	
		For Multi-Level Drive Currents, Add	179.10	
		For >50 To 100, Deduct	-83.22	
		For >100 To 250, Deduct	-124.83	
		For >250 To 500, Deduct	-202.00	
		For >500 To 1000, Deduct	-279.17	
		For >1000, Deduct	-356.35	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0177 EA 120 LEDs, 132 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG).....	1,863.92	126.63
For Backlight Shielding, Add	17.91	
For Type II Medium Optic, Add	34.16	
For 347-480 Volt, Add	74.30	
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-93.20	
For >100 To 250, Deduct	-139.79	
For >250 To 500, Deduct	-226.66	
For >500 To 1000, Deduct	-313.52	
For >1000, Deduct	-400.39	
26 56 19 00-0178 EA 140 LEDs, 157 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG).....	2,123.63	132.38
For Backlight Shielding, Add	17.91	
For Type II Medium Optic, Add	34.74	
For 347-480 Volt, Add	74.30	
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-106.18	
For >100 To 250, Deduct	-159.27	
For >250 To 500, Deduct	-258.83	
For >500 To 1000, Deduct	-358.40	
For >1000, Deduct	-457.96	
26 56 19 00-0179 EA 160 LEDs, 179 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG).....	2,323.19	138.15
For Backlight Shielding, Add	17.91	
For Type II Medium Optic, Add	35.31	
For 347-480 Volt, Add	74.30	
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-116.16	
For >100 To 250, Deduct	-174.24	
For >250 To 500, Deduct	-283.49	
For >500 To 1000, Deduct	-392.74	
For >1000, Deduct	-502.00	
26 56 19 00-0180 Direct Or Arm Mount, Rectangular, High Output, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EHO) (26 56 19 00-0166)		
Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 700mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0181 EA 120 LEDs, 267 System Watts, Direct Or Arm Mount, Rectangular, High Output, LED Area Fixture (CREE® BetaLED® Edge® ARE-EHO)	1,725.07	126.63
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Bird Spikes, Add	36.43	
For 5,000K Color Temperature, Add	37.72	
For Fuse, Add	45.26	
For 0 To 10 Volt Dimming, Add	45.26	
For 480 Volt, Add	67.90	
For Multi-Level, Add	98.07	
For 1,000mA Driver, Add	126.76	
For >50 To 100, Deduct	-86.25	
For >100 To 250, Deduct	-129.38	
For >250 To 500, Deduct	-209.30	
For >500 To 1000, Deduct	-289.22	
For >1000, Deduct	-369.15	
26 56 19 00-0182 EA 240 LEDs, 533 System Watts, Direct Or Arm Mount, Rectangular, High Output, LED Area Fixture (CREE® BetaLED® Edge® ARE-EHO)	2,891.64	155.41
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For 5,000K Color Temperature, Add	37.72	
For Fuse, Add	45.26	
For 0 To 10 Volt Dimming, Add	45.26	
For Bird Spikes, Add	53.57	
For Multi-Level, Add	98.07	
For 1,000mA Driver, Add	126.74	
For 480 Volt, Add	135.79	
For >50 To 100, Deduct	-144.58	
For >100 To 250, Deduct	-216.87	
For >250 To 500, Deduct	-353.68	
For >500 To 1000, Deduct	-490.50	
For >1000, Deduct	-627.31	
26 56 19 00-0183 Wall Mount, LED Area Fixtures (26 56 19 00-0165)		
26 56 19 00-0184 Wall Mount, LED Architectural Area Fixtures (Lithonia DSXW) (26 56 19 00-0183)		
Note: UL wet listed. Includes 277 voltage, 700mA remote driver, die-cast extruded aluminum housing assembly and white, black, aluminum or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0185 EA 20 LEDs, 47 Watt, 4000K CCT, Wall Mount, LED Architectural Area Fixture (Lithonia DSXW2 LED).....	919.50	97.85
For >50 To 100, Deduct	-45.98	
For >100 To 250, Deduct	-68.96	
For >250 To 500, Deduct	-110.05	
For >500 To 1000, Deduct	-151.13	
For >1000, Deduct	-192.21	
26 56 19 00-0186 EA 30 LEDs, 71 Watt, 4000K CCT, Wall Mount, LED Architectural Area Fixture (Lithonia DSXW2 LED).....	942.52	109.36
For >50 To 100, Deduct	-47.13	
For >100 To 250, Deduct	-70.69	
For >250 To 500, Deduct	-112.35	
For >500 To 1000, Deduct	-154.01	
For >1000, Deduct	-195.66	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 56 19 00-0187	Surface Mount, LED Parking Structure Fixtures (26 56 19 00-0165)		
26 56 19 00-0188	Surface Mount, Rectangular, LED Parking Structure Fixtures (CREE® BetaLED® Edge® PKG-EDG) (26 56 19 00-0187) Note: Direct or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0189	EA 40 LEDs, 47 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	877.58	103.61
	For Multi-Level Drive Currents, Add	179.10	
	For >50 To 100, Deduct	-43.88	
	For >100 To 250, Deduct	-65.82	
	For >250 To 500, Deduct	-104.52	
	For >500 To 1000, Deduct	-143.22	
	For >1000, Deduct	-181.91	
26 56 19 00-0190	EA 60 LEDs, 68 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,077.14	109.36
	For Multi-Level Drive Currents, Add	179.10	
	For >50 To 100, Deduct	-53.86	
	For >100 To 250, Deduct	-80.79	
	For >250 To 500, Deduct	-129.17	
	For >500 To 1000, Deduct	-177.56	
	For >1000, Deduct	-225.95	
26 56 19 00-0191	EA 80 LEDs, 90 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,276.72	115.11
	For Multi-Level Drive Currents, Add	179.10	
	For >50 To 100, Deduct	-63.84	
	For >100 To 250, Deduct	-95.75	
	For >250 To 500, Deduct	-153.83	
	For >500 To 1000, Deduct	-211.91	
	For >1000, Deduct	-269.99	
26 56 19 00-0192	EA 100 LEDs, 111 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,476.28	120.88
	For Multi-Level Drive Currents, Add	179.10	
	For >50 To 100, Deduct	-73.81	
	For >100 To 250, Deduct	-110.72	
	For >250 To 500, Deduct	-178.49	
	For >500 To 1000, Deduct	-246.26	
	For >1000, Deduct	-314.03	
26 56 19 00-0193	Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® Edge® PKG-304) (26 56 19 00-0187) Note: Direct or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0194	EA 40 LEDs, 47 Watt, Surface Mount, Square, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-304).....	846.88	103.61
	For Multi-Level Drive Currents, Add	179.10	
	For >50 To 100, Deduct	-42.34	
	For >100 To 250, Deduct	-63.52	
	For >250 To 500, Deduct	-100.68	
	For >500 To 1000, Deduct	-137.84	
	For >1000, Deduct	-175.01	
26 56 19 00-0195	EA 60 LEDs, 68 Watt, Surface Mount, Square, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-304).....	933.86	109.36
	For Multi-Level Drive Currents, Add	179.10	
	For >50 To 100, Deduct	-46.69	
	For >100 To 250, Deduct	-70.04	
	For >250 To 500, Deduct	-111.26	
	For >500 To 1000, Deduct	-152.49	
	For >1000, Deduct	-193.71	
26 56 19 00-0196	Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® VG) (26 56 19 00-0187) Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0197	EA 3,700 Lumens, 50 Watt, Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® VGADM5MA40KUL).....	730.29	103.61
	For >50 To 100, Deduct	-36.51	
	For >100 To 250, Deduct	-54.77	
	For >250 To 500, Deduct	-86.11	
	For >500 To 1000, Deduct	-117.44	
	For >1000, Deduct	-148.77	
26 56 19 00-0198	Surface Mount, Rectangular, LED Parking Structure Fixtures (Philips Gardco ELG) (26 56 19 00-0187) Note: Direct or pendant mount. UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and aluminum finish. Excludes sensors.		



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0199 EA 70 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (Philips Gardco ELG).....	1,417.16	109.36
For >50 To 100, Deduct	-70.86	
For >100 To 250, Deduct	-106.29	
For >250 To 500, Deduct	-171.68	
For >500 To 1000, Deduct	-237.07	
For >1000, Deduct	-302.46	
26 56 19 00-0200 EA 110 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (Philips Gardco ELG).....	1,440.18	120.88
For >50 To 100, Deduct	-72.01	
For >100 To 250, Deduct	-108.01	
For >250 To 500, Deduct	-173.98	
For >500 To 1000, Deduct	-239.94	
For >1000, Deduct	-305.91	
26 56 19 00-0201 Surface Mount, LED Canopy Fixtures (26 56 19 00-0165)		
26 56 19 00-0202 Surface Mount, Rectangular, LED Canopy Fixtures (CREE® BetaLED® Edge® CAN-EDG) (26 56 19 00-0201)		
Note: Direct or pendant mount. UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0203 EA 40 LEDs, 47 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,013.19	103.61
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-50.66	
For >100 To 250, Deduct	-75.99	
For >250 To 500, Deduct	-121.47	
For >500 To 1000, Deduct	-166.95	
For >1000, Deduct	-212.43	
26 56 19 00-0204 EA 60 LEDs, 68 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,212.75	109.36
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-60.64	
For >100 To 250, Deduct	-90.96	
For >250 To 500, Deduct	-146.13	
For >500 To 1000, Deduct	-201.30	
For >1000, Deduct	-256.46	
26 56 19 00-0205 EA 80 LEDs, 90 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,412.33	115.11
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-70.62	
For >100 To 250, Deduct	-105.92	
For >250 To 500, Deduct	-170.79	
For >500 To 1000, Deduct	-235.65	
For >1000, Deduct	-300.51	
26 56 19 00-0206 EA 100 LEDs, 111 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,611.89	120.88
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-80.59	
For >100 To 250, Deduct	-120.89	
For >250 To 500, Deduct	-195.44	
For >500 To 1000, Deduct	-269.99	
For >1000, Deduct	-344.54	
26 56 19 00-0207 EA 120 LEDs, 132 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,811.47	126.63
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-90.57	
For >100 To 250, Deduct	-135.86	
For >250 To 500, Deduct	-220.10	
For >500 To 1000, Deduct	-304.34	
For >1000, Deduct	-388.59	
26 56 19 00-0208 EA 140 LEDs, 157 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,086.53	132.38
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-104.33	
For >100 To 250, Deduct	-156.49	
For >250 To 500, Deduct	-254.20	
For >500 To 1000, Deduct	-351.90	
For >1000, Deduct	-449.61	
26 56 19 00-0209 EA 160 LEDs, 179 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,286.09	138.15
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-114.30	
For >100 To 250, Deduct	-171.46	
For >250 To 500, Deduct	-278.85	
For >500 To 1000, Deduct	-386.25	
For >1000, Deduct	-493.65	
26 56 19 00-0210 EA 200 LEDs, 221 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,685.24	149.65
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-134.26	
For >100 To 250, Deduct	-201.39	
For >250 To 500, Deduct	-328.17	
For >500 To 1000, Deduct	-454.95	
For >1000, Deduct	-581.73	
26 56 19 00-0211 EA 240 LEDs, 264 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	3,072.87	155.41
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-153.64	
For >100 To 250, Deduct	-230.47	
For >250 To 500, Deduct	-376.34	
For >500 To 1000, Deduct	-522.21	
For >1000, Deduct	-668.08	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0212			Surface Mount, Square, LED Canopy/Soffit Fixtures (CREE® BetaLED® CPY250) <small>(26 56 19 00-0201)</small> Note: UL wet listed. Includes 5,700K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0213	EA		8,000 Lumens, 82 Watt, Surface Mount, Square, LED Canopy/Soffit Fixture (CREE® BetaLED® CPY250).....	712.54	115.11
			<i>For >50 To 100, Deduct</i>	-35.63	
			<i>For >100 To 250, Deduct</i>	-53.44	
			<i>For >250 To 500, Deduct</i>	-83.31	
			<i>For >500 To 1000, Deduct</i>	-113.18	
			<i>For >1000, Deduct</i>	-143.05	
26 56 19 00-0214			Recessed Mount, LED Soffit Fixtures <small>(26 56 19 00-0165)</small>		
26 56 19 00-0215			Recessed Mount, Square, LED Soffit Fixtures (CREE® BetaLED® SFT-304) <small>(26 56 19 00-0214)</small> Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0216	EA		40 LEDs, 47 Watt, Recessed Mount, Square, LED Soffit Fixture (CREE® BetaLED® SFT-304).....	862.23	103.61
			<i>For >50 To 100, Deduct</i>	-43.11	
			<i>For >100 To 250, Deduct</i>	-64.67	
			<i>For >250 To 500, Deduct</i>	-102.60	
			<i>For >500 To 1000, Deduct</i>	-140.53	
			<i>For >1000, Deduct</i>	-178.46	
26 56 19 00-0217	EA		60 LEDs, 68 Watt, Recessed Mount, Square, LED Soffit Fixture (CREE® BetaLED® SFT-304).....	949.21	109.36
			<i>For >50 To 100, Deduct</i>	-47.46	
			<i>For >100 To 250, Deduct</i>	-71.19	
			<i>For >250 To 500, Deduct</i>	-113.18	
			<i>For >500 To 1000, Deduct</i>	-155.18	
			<i>For >1000, Deduct</i>	-197.17	
26 56 19 00-0218			Surface Mount, LED Area Fixtures <small>(26 56 19 00-0165)</small>		
26 56 19 00-0219			Surface Mount, Square, LED Multi-Purpose Area Fixtures (LSI Industries® Crossover® XPG) <small>(26 56 19 00-0216)</small> Note: UL wet listed. Includes 5,300K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black or silver powder coat finish. Excludes sensors.		
26 56 19 00-0220	EA		50 LEDs, 59 Watt, Surface Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG)	588.59	103.61
			<i>For >50 To 100, Deduct</i>	-29.43	
			<i>For >100 To 250, Deduct</i>	-44.14	
			<i>For >250 To 500, Deduct</i>	-68.39	
			<i>For >500 To 1000, Deduct</i>	-92.64	
			<i>For >1000, Deduct</i>	-116.89	
26 56 19 00-0221	EA		50 LEDs, 59 Watt, Pendant Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG)	1,040.98	103.61
			<i>For >50 To 100, Deduct</i>	-52.05	
			<i>For >100 To 250, Deduct</i>	-78.07	
			<i>For >250 To 500, Deduct</i>	-124.94	
			<i>For >500 To 1000, Deduct</i>	-171.81	
			<i>For >1000, Deduct</i>	-218.68	
26 56 19 00-0222	EA		68 LEDs, 79 Watt, Surface Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG)	875.39	115.11
			<i>For >50 To 100, Deduct</i>	-43.77	
			<i>For >100 To 250, Deduct</i>	-65.65	
			<i>For >250 To 500, Deduct</i>	-103.67	
			<i>For >500 To 1000, Deduct</i>	-141.68	
			<i>For >1000, Deduct</i>	-179.69	
26 56 19 00-0223	EA		68 LEDs, 79 Watt, Pendant Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG)	1,074.48	115.11
			<i>For >50 To 100, Deduct</i>	-53.72	
			<i>For >100 To 250, Deduct</i>	-80.59	
			<i>For >250 To 500, Deduct</i>	-128.55	
			<i>For >500 To 1000, Deduct</i>	-176.52	
			<i>For >1000, Deduct</i>	-224.49	
26 56 19 00-0224			Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour®) <small>(26 56 19 00-0218)</small> Note: Wall, inverted, post, bollard, floodlight trunnion, or floodlight knuckle mount. UL wet listed. Includes 5,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and white or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0225	EA		13 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR1A)	189.23	36.36
			<i>For Knuckle Mount Or Trunnion Mount Base, Add</i>	45.00	
			<i>For >50 To 100, Deduct</i>	-9.46	
			<i>For >100 To 250, Deduct</i>	-14.19	
			<i>For >250 To 500, Deduct</i>	-22.14	
			<i>For >500 To 1000, Deduct</i>	-30.09	
			<i>For >1000, Deduct</i>	-38.03	
26 56 19 00-0226	EA		20 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR2A)	216.51	36.36
			<i>For Knuckle Mount Or Trunnion Mount Base, Add</i>	45.00	
			<i>For >50 To 100, Deduct</i>	-10.83	
			<i>For >100 To 250, Deduct</i>	-16.24	
			<i>For >250 To 500, Deduct</i>	-25.55	
			<i>For >500 To 1000, Deduct</i>	-34.86	
			<i>For >1000, Deduct</i>	-44.17	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0227 EA 30 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR3A) <i>For Knuckle Mount Or Trunnion Mount Base, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	268.49 45.00 -13.42 -20.14 -32.05 -43.96 -55.87	36.36
26 56 19 00-0228 Surface Mount, LED Facade Fixtures <small>(26 56 19 00-0165)</small>		
26 56 19 00-0229 Surface Mount, LED Facade Fixtures (lumenpulse™ lumenfacade™) <small>(26 56 19 00-0228)</small>		
26 56 19 00-0230 EA 12" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	534.44 -26.72 -40.08 -65.19 -90.30 -115.41	42.43
26 56 19 00-0231 EA 24" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	864.07 -43.20 -64.81 -106.63 -148.44 -190.26	38.75
26 56 19 00-0232 EA 36" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	1,100.18 -55.01 -82.51 -136.37 -190.23 -244.08	32.29
26 56 19 00-0233 EA 48" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	1,336.28 -66.81 -100.22 -166.11 -232.00 -297.90	25.83
26 56 19 00-0234 Post Top, LED Area Fixtures <small>(26 56 19 00-0165)</small>		
26 56 19 00-0235 Post Top, LED Area Fixtures (Cooper Lighting Invue® MSA) <small>(26 56 19 00-0234)</small> Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 350mA remote driver, die-cast extruded aluminum housing assembly and white, black, grey, dark platinum, graphite metallic or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0236 EA 1,800 Lumens, 27 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO1) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	1,522.40 -76.12 -114.18 -182.39 -250.59 -318.80	158.29
26 56 19 00-0237 EA 3,400 Lumens, 54 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO2) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	1,676.25 -83.81 -125.72 -201.62 -277.51 -353.41	158.29
26 56 19 00-0238 EA 77 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO3) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	1,797.87 -89.89 -134.84 -216.82 -298.80 -380.78	158.29
26 56 19 00-0239 Post Top, LED Area Fixtures (General Electric EPAS) <small>(26 56 19 00-0234)</small> Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black, green or bronze powder coat finish. Includes photocontrol sensor.		
26 56 19 00-0240 EA 3,200 Lumens, 45 Watt, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 E5/E3) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	1,787.93 -89.40 -134.09 -215.58 -297.06 -378.54	158.29
26 56 19 00-0241 EA 6,515 Lumens, 80 Watt, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 C5/C3) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	1,827.51 -91.38 -137.06 -220.52 -303.99 -387.45	158.29
26 56 19 00-0242 Post Top, LED Area Fixtures (General Electric EPTC) <small>(26 56 19 00-0234)</small> Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black, gray or dark bronze powder coat finish. Includes photocontrol sensor.		

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0243 EA 3,200 Lumens, 45 Watt, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC 0 E5/E3)	1,252.12	158.29
For >50 To 100, Deduct	-62.61	
For >100 To 250, Deduct	-93.91	
For >250 To 500, Deduct	-148.60	
For >500 To 1000, Deduct	-203.29	
For >1000, Deduct	-257.98	
26 56 19 00-0244 EA 6,150 Lumens, 80 Watt, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC 0 C5/C3)	1,311.35	158.29
For >50 To 100, Deduct	-65.57	
For >100 To 250, Deduct	-98.35	
For >250 To 500, Deduct	-156.00	
For >500 To 1000, Deduct	-213.66	
For >1000, Deduct	-271.31	
26 56 19 00-0245 Post Top, LED Area Fixtures (General Electric EPST) (26 56 19 00-0234)		
Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or dark bronze powder coat finish. Includes photocontrol sensor.		
26 56 19 00-0246 EA 3,135 Lumens, 45 Watt, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST 0 E5/E3)	982.90	158.29
For >50 To 100, Deduct	-49.15	
For >100 To 250, Deduct	-73.72	
For >250 To 500, Deduct	-114.95	
For >500 To 1000, Deduct	-156.18	
For >1000, Deduct	-197.41	
26 56 19 00-0247 EA 6,115 Lumens, 80 Watt, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST 0 C5/C3)	1,042.13	158.29
For >50 To 100, Deduct	-52.11	
For >100 To 250, Deduct	-78.16	
For >250 To 500, Deduct	-122.35	
For >500 To 1000, Deduct	-166.54	
For >1000, Deduct	-210.74	
26 56 19 00-0248 Post Top, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EDR) (26 56 19 00-0234)		
Note: UL wet listed. Includes 4,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type V Medium optic. Excludes sensors.		
26 56 19 00-0249 EA 13,800 Lumens, 130 Watt, Post Top Mount, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDR)	2,266.26	158.29
For >50 To 100, Deduct	-113.31	
For >100 To 250, Deduct	-169.97	
For >250 To 500, Deduct	-275.37	
For >500 To 1000, Deduct	-380.77	
For >1000, Deduct	-486.17	
26 56 19 00-0250 LED Retrofit For Post Top, Traditional Area Fixtures (CREE® BetaLED® BXRA) (26 56 19 00-0234)		
Note: Includes 2,700K or 4,000K color temperature and 120/277 voltage retrofit assembly. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0370 for disposal of hazardous lamps.		
26 56 19 00-0251 EA LED Retrofit For Post Top, Holophane® Utility Granville Acorn Area Fixtures (CREE® BetaLED® BXRAH53)	640.05	86.34
For 0 To 10 Volt Dimming, Add	45.26	
For >50 To 100, Deduct	-32.00	
For >100 To 250, Deduct	-48.00	
For >250 To 500, Deduct	-75.69	
For >500 To 1000, Deduct	-103.37	
For >1000, Deduct	-131.06	
26 56 19 00-0252 LED Retrofit For Post Top, Decorative Area Fixtures (CREE® DPT) (26 56 19 00-0234)		
Note: Includes 3,000K color temperature and 120/277 voltage retrofit assembly. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0370 for disposal of hazardous lamps.		
26 56 19 00-0253 EA LED Retrofit For Post Top, Decorative Area Fixtures (CREE® DPT)	396.86	18.42
For Backlight Control Shield, Add	30.61	
For >50 To 100, Deduct	-19.84	
For >100 To 250, Deduct	-29.76	
For >250 To 500, Deduct	-47.77	
For >500 To 1000, Deduct	-65.77	
For >1000, Deduct	-83.77	
26 56 19 00-0254 Surface Mount, LED Strip Fixtures (Sylvania) (26 56 19 00-0165)		
26 56 19 00-0255 EA 4' Long, 5,200 Lumens, 40 Watt, Vapor Tight Dimmable LED Fixture (Sylvania VAPOR1B/040UNVD840/48EC/GR/D)	370.45	33.76
For >50 To 100, Deduct	-18.52	
For >100 To 250, Deduct	-27.78	
For >250 To 500, Deduct	-45.04	
For >500 To 1000, Deduct	-62.29	
For >1000, Deduct	-79.55	

26 56 21 HID Exterior Lighting (26 56)

26 56 21 00-0001 High Mast Fixtures (26 56 21)



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 00-0002 Metal Halide, High Mast Fixtures <small>(26 56 21 00-0001)</small>		
26 56 21 00-0003 EA 400 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	1,566.43	142.44
26 56 21 00-0004 EA 400 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	1,673.79	142.44
26 56 21 00-0005 EA 750 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	1,660.36	162.73
26 56 21 00-0006 EA 750 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	1,724.77	162.73
26 56 21 00-0007 EA 1,000 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	1,746.81	203.41
26 56 21 00-0008 EA 1,000 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	1,811.22	203.41
26 56 21 00-0009 High Pressure Sodium, High Mast Fixtures <small>(26 56 21 00-0001)</small>		
26 56 21 00-0010 EA 400 W High Mast HPS Fixture (VA 25 Type V) As Manufactured By Metrolux	1,619.86	142.44
26 56 21 00-0011 EA 400 W High Mast HPS Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	1,684.28	142.44
26 56 21 00-0012 EA 600 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	1,954.39	150.58
26 56 21 00-0013 EA 750 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,002.88	162.73
26 56 21 00-0014 EA 1,000 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,121.53	203.41
26 56 21 00-0015 HID, Pole Mounted <small>(26 56 21)</small>		
26 56 21 00-0016 Metal Halide, Pole Mounted <small>(26 56 21 00-0015)</small>		
26 56 21 00-0017 EA 175 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	562.02	232.27
26 56 21 00-0018 EA 250 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	631.41	252.12
26 56 21 00-0019 EA 400 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	732.52	271.21
26 56 21 00-0020 EA 1,000 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	935.67	317.86
26 56 21 00-0021 High Pressure Sodium, Pole Mounted <small>(26 56 21 00-0015)</small>		
26 56 21 00-0022 EA 100 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	676.95	271.21
26 56 21 00-0023 EA 150 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	697.20	271.21
26 56 21 00-0024 EA 175 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	729.44	271.21
26 56 21 00-0025 EA 250 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	814.18	271.21
26 56 21 00-0026 EA 400 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	940.63	271.21
26 56 21 00-0027 EA 1,000 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	899.89	271.21
26 56 21 00-0028 Low Pressure Sodium, Pole Mounted <small>(26 56 21 00-0015)</small>		
26 56 21 00-0029 EA 135 Watt Low Pressure Sodium Exterior Roadway Fixture, Enclosed And Gasketed	565.67	147.54
26 56 21 00-0030 EA 135 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed	625.01	216.97
26 56 21 00-0031 EA 180 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed	725.52	216.97
26 56 21 00-0032 Metal Halide, Area Fixtures <small>(26 56 21)</small>		
26 56 21 00-0033 Metal Halide, Pole Mount, Area Fixtures <small>(26 56 21 00-0032)</small>		
Note: Includes pulse start ballast.		
26 56 21 00-0034 EA 150 Watt, Metal Halide Area Fixture, Pole Mount	846.96	144.62
26 56 21 00-0035 EA 175 Watt, Metal Halide Area Fixture, Pole Mount	929.57	159.08
26 56 21 00-0036 EA 250 Watt, Metal Halide Area Fixture, Pole Mount	1,027.34	173.54
26 56 21 00-0037 EA 400 Watt, Metal Halide Area Fixture, Pole Mount	1,092.00	202.46
26 56 21 00-0038 High Pressure Sodium, Area Fixtures <small>(26 56 21)</small>		
26 56 21 00-0039 Pole Mount, High Pressure Sodium Area Fixtures <small>(26 56 21 00-0038)</small>		
26 56 21 00-0040 EA 100 Watt, High Pressure Sodium Area Fixture, Pole Mount	702.35	115.70
26 56 21 00-0041 EA 150 Watt, High Pressure Sodium Area Fixture, Pole Mount	769.81	144.62
26 56 21 00-0042 EA 250 Watt, High Pressure Sodium Area Fixture, Pole Mount	839.83	173.54
26 56 21 00-0043 EA 400 Watt, High Pressure Sodium Area Fixture, Pole Mount	891.06	202.46
26 56 21 00-0044 Surface Mounted, Rectangular Exterior Area Fixture <small>(26 56 21)</small>		
26 56 21 00-0045 Metal Halide, Surface Mounted, Rectangular Exterior Area Fixture <small>(26 56 21 00-0044)</small>		
26 56 21 00-0046 EA 175 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	530.40	216.97
26 56 21 00-0047 EA 250 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	602.13	244.10
26 56 21 00-0048 EA 400 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	716.43	271.21
26 56 21 00-0049 EA 1,000 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	920.70	317.86
26 56 21 00-0050 High Pressure Sodium, Surface Mounted, Rectangular Exterior Area Fixture <small>(26 56 21 00-0044)</small>		
26 56 21 00-0051 EA 70 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro)	505.94	185.51
26 56 21 00-0052 EA 100 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro)	548.73	197.44
26 56 21 00-0053 EA 150 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro)	590.89	208.29
26 56 21 00-0054 EA 175 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	610.97	216.97
26 56 21 00-0055 EA 250 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	677.32	244.10
26 56 21 00-0056 EA 400 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	730.88	271.21

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 00-0057 EA 1,000 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	1,006.63	317.86
26 56 21 00-0058 Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures <small>(26 56 21 00-0058)</small>		
26 56 21 00-0059 High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures <small>(26 56 21 00-0058)</small>		
Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 21 00-0060 EA 35 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	657.68	146.45
26 56 21 00-0061 EA 50 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	682.38	162.73
26 56 21 00-0062 EA 70 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	729.48	185.51
26 56 21 00-0063 EA 100 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	749.54	197.44
26 56 21 00-0064 EA 150 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	770.70	208.29
26 56 21 00-0065 EA 175 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	807.62	216.97
26 56 21 00-0066 EA 250 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	885.26	244.10
26 56 21 00-0067 EA 400 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	1,075.53	271.21
26 56 21 00-0068 Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures <small>(26 56 21 00-0058)</small>		
Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 21 00-0069 EA 50 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	723.32	162.73
26 56 21 00-0070 EA 70 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	764.38	185.51
26 56 21 00-0071 EA 100 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	789.86	197.44
26 56 21 00-0072 EA 150 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	823.74	208.29
26 56 21 00-0073 EA 175 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	842.70	216.97
26 56 21 00-0074 EA 250 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	922.26	244.10
26 56 21 00-0075 EA 400 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	1,173.17	271.21
26 56 21 00-0076 Wall Packs <small>(26 56 21)</small>		
26 56 21 00-0077 Non Cutoff, Polycarbonate Lens, Mini Wall Packs <small>(26 56 21 00-0076)</small>		
Note: Polycarbonate body and aluminum reflector. 11" x 6-1/2" x 5-1/4". Lithonia TWS.		
26 56 21 00-0078 EA 13 Watt Compact Fluorescent, Non Cutoff, Polycarbonate Lens, Mini Wall Pack.....	278.04	50.49
26 56 21 00-0079 EA 50 Watt Metal Halide, Non Cutoff, Polycarbonate Lens, Mini Wall Pack.....	296.63	50.49
26 56 21 00-0080 EA 35 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Mini Wall Pack.....	296.63	50.49
26 56 21 00-0081 EA 70 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Mini Wall Pack.....	386.79	50.49
26 56 21 00-0082 Semi Cutoff, Polycarbonate Lens, Mini Wall Packs <small>(26 56 21 00-0076)</small>		
Note: Polycarbonate body and diffused aluminum reflector. 10" x 11-1/2" x 8-15/16". Lithonia TWA.		
26 56 21 00-0083 EA 42 Watt Compact Fluorescent, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack	532.31	50.49
26 56 21 00-0084 EA 50 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack	538.99	50.49
26 56 21 00-0085 EA 70 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack	544.78	50.49
26 56 21 00-0086 EA 100 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack	534.23	50.49
26 56 21 00-0087 EA 70 Watt High Pressure Sodium, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack	490.84	50.49
26 56 21 00-0088 EA 100 Watt High Pressure Sodium, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack	467.01	50.49
26 56 21 00-0089 Cutoff, Polycarbonate Lens, Mini Wall Packs <small>(26 56 21 00-0076)</small>		
Note: Polycarbonate body and diffused aluminum reflector. 10" x 11-1/2" x 8-15/16". Lithonia TWAC.		
26 56 21 00-0090 EA 50 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack	559.75	50.49
26 56 21 00-0091 EA 70 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack	565.85	50.49
26 56 21 00-0092 EA 100 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack	555.31	50.49
26 56 21 00-0093 EA 70 Watt High Pressure Sodium, Cutoff, Polycarbonate Lens, Mini Wall Pack	563.80	50.49
26 56 21 00-0094 EA 100 Watt High Pressure Sodium, Cutoff, Polycarbonate Lens, Mini Wall Pack	563.80	50.49
26 56 21 00-0095 Non Cutoff, Borosilicate Glass Lens, Small Wall Packs <small>(26 56 21 00-0076)</small>		
Note: Aluminum body and reflector. 9" x 13" x 7-3/8". Lithonia TWR1.		
26 56 21 00-0096 EA 70 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	540.15	67.26
26 56 21 00-0097 EA 100 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	540.15	67.26
26 56 21 00-0098 EA 175 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	507.50	67.26
26 56 21 00-0099 EA 70 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	520.02	67.26
26 56 21 00-0100 EA 100 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	520.02	67.26
26 56 21 00-0101 EA 150 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	483.81	67.26
26 56 21 00-0102 Cutoff, Borosilicate Glass Lens, Small Wall Packs <small>(26 56 21 00-0076)</small>		
Note: Aluminum body and reflector. 10-1/4" x 13" x 8-15/32". Lithonia TWR1C.		
26 56 21 00-0103 EA 70 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack	559.50	67.26
26 56 21 00-0104 EA 100 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack	559.50	67.26
26 56 21 00-0105 EA 175 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack	559.50	67.26
26 56 21 00-0106 EA 70 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack	540.30	67.26
26 56 21 00-0107 EA 100 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack	540.30	67.26
26 56 21 00-0108 EA 150 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack	540.30	67.26
26 56 21 00-0109 Full Cutoff, Tempered Glass Lens, Small Wall Packs <small>(26 56 21 00-0076)</small>		
Note: Aluminum body and reflector. 9-3/8" x 14-3/8" x 8-3/4". Meets Nighttime Friendly criteria. Lithonia TWR1S.		



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 00-0110 EA 175 Watt Metal Halide, Full Cutoff, Tempered Glass Lens, Small Wall Pack.....	715.79	67.26
26 56 21 00-0111 Cutoff, Borosilicate Glass Lens, Medium Wall Packs <small>(26 56 21 00-0076)</small>		
<small>Note: Aluminum body and reflector. Lithonia TWR2.</small>		
26 56 21 00-0112 EA 250 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Medium Wall Pack <small>Note: 9-1/4" x 17-7/8" x 9-3/8".</small>	680.48	83.31
26 56 21 00-0113 EA 400 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Medium Wall Pack <small>Note: 9-1/4" x 17-7/8" x 12-1/2".</small>	724.74	83.31
26 56 21 00-0114 EA 250 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Medium Wall Pack <small>Note: 9-1/4" x 17-7/8" x 9-3/8".</small>	777.52	83.31
26 56 21 00-0115 EA 400 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Medium Wall Pack <small>Note: 9-1/4" x 17-7/8" x 12-1/2".</small>	792.04	83.31
26 56 21 00-0116 Cutoff, Tempered Glass Lens, Medium Wall Packs <small>(26 56 21 00-0076)</small>		
<small>Note: Aluminum body and reflector. 10" x 17-1/8" x 14-1/2". Lithonia TWR2C.</small>		
26 56 21 00-0117 EA 250 Watt Metal Halide, Cutoff, Tempered Glass Lens, Medium Wall Pack.....	737.41	83.31
26 56 21 00-0118 EA 400 Watt Metal Halide, Cutoff, Tempered Glass Lens, Medium Wall Pack.....	787.15	83.31
26 56 21 00-0119 Non Cutoff, Polycarbonate Lens, Large Wall Packs <small>(26 56 21 00-0076)</small>		
<small>Note: Polycarbonate body and powder coated reflector. 15-7/16" x 16-1/8" x 7-3/4". Lithonia TWP.</small>		
26 56 21 00-0120 EA 100 Watt Metal Halide, Non Cutoff, Polycarbonate Lens, Large Wall Pack	689.22	100.98
26 56 21 00-0121 EA 175 Watt Metal Halide, Non Cutoff, Polycarbonate Lens, Large Wall Pack	636.54	100.98
26 56 21 00-0122 EA 70 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Large Wall Pack	677.03	100.98
26 56 21 00-0123 EA 100 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Large Wall Pack	681.06	100.98
26 56 21 00-0124 EA 150 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Large Wall Pack	685.29	100.98
26 56 21 00-0125 Non Cutoff, Borosilicate Glass Lens, Large Wall Packs <small>(26 56 21 00-0076)</small>		
<small>Note: Aluminum body and reflector. 15-3/4" x 16-1/4" x 8". Lithonia TWH.</small>		
26 56 21 00-0126 EA 175 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	689.23	100.98
26 56 21 00-0127 EA 250 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	706.81	100.98
26 56 21 00-0128 EA 400 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	759.49	100.98
26 56 21 00-0129 EA 150 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	724.38	100.98
26 56 21 00-0130 EA 250 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	741.95	100.98
26 56 21 00-0131 EA 400 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	777.04	100.98
26 56 21 00-0132 Semi Cutoff, Induction Wall Packs <small>(26 56 21 00-0076)</small>		
26 56 21 00-0133 Semi Cutoff, Induction Wall Packs (Everlast®) <small>(26 56 21 00-0132)</small>		
<small>Note: UL wet listed. Includes bi-level ballast, die-cast aluminum housing assembly and bronze powder coat finish. Excludes sensors.</small>		
26 56 21 00-0134 EA 70 Watt, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-70)	869.12	97.85
26 56 21 00-0135 EA 80 Watt, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-80)	888.14	103.61
26 56 21 00-0136 EA 100 Watt, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-100)	907.15	109.36
26 56 21 00-0137 EA 120 Watt, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-120)	1,008.71	115.11
26 56 21 00-0138 Induction, Roadway Lighting <small>(26 56 21)</small>		
26 56 21 00-0139 Induction Roadway Lighting (US Lighting Tech) <small>(26 56 21 00-0138)</small>		
<small>Note: Includes gray powder coat finish heavy duty die cast aluminum body and flat glass lens.</small>		
26 56 21 00-0140 EA 40 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	582.71	172.68
26 56 21 00-0141 EA 70 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	640.77	178.43
26 56 21 00-0142 EA 100 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	663.79	189.95
26 56 21 00-0143 EA 150 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	686.81	201.46
26 56 21 00-0144 EA 200 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	805.38	207.22
26 56 21 00-0145 EA 250 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	820.61	212.97
26 56 21 00-0146 EA 40 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	543.62	172.68
26 56 21 00-0147 EA 70 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	607.26	178.43
26 56 21 00-0148 EA 100 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	630.28	189.95
26 56 21 00-0149 EA 150 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	653.30	201.46
26 56 21 00-0150 Induction, Area Fixtures <small>(26 56 21)</small>		
26 56 21 00-0151 Post Top, Induction Area Fixtures <small>(26 56 21 00-0150)</small>		
26 56 21 00-0152 Post Top, Induction Area Fixtures (US Lighting Tech) <small>(26 56 21 00-0151)</small>		
<small>Note: Includes black powder coat finish heavy duty die cast aluminum body and no-lite lid acrylic lens.</small>		
26 56 21 00-0153 EA 40 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	652.61	158.29
26 56 21 00-0154 EA 70 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	706.60	158.29
26 56 21 00-0155 EA 100 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	706.60	158.29
26 56 21 00-0156 EA 150 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	706.60	158.29
26 56 21 00-0157 Surface Mount, Induction Parking Structure Fixtures <small>(26 56 21 00-0150)</small>		
26 56 21 00-0158 Surface Mount, Induction Parking Structure Fixtures (Everlast®) <small>(26 56 21 00-0157)</small>		
26 56 21 00-0159 EA 40 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	586.90	143.90

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 00-0160 EA 55 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	624.30	146.77
26 56 21 00-0161 EA 70 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	633.78	149.65
26 56 21 00-0162 EA 80 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	643.25	152.54
26 56 21 00-0163 EA 100 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	652.74	155.41
26 56 21 00-0164 EA 120 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	665.94	158.29
26 56 21 00-0165 EA 70/28 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	687.77	149.65
26 56 21 00-0166 EA 80/32 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	697.24	152.54
26 56 21 00-0167 EA 100/40 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	706.72	155.41
26 56 21 00-0168 EA 120/48 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	735.76	158.29
26 56 21 00-0169 Pole Mount, Induction Area Fixtures <small>(26 56 21 00-0150)</small>		
26 56 21 00-0170 Pole Mount, Bi-Level Induction Area Fixtures (Everlast® ESB-ED) <small>(26 56 21 00-0169)</small>		
Note: UL wet listed. Includes bi-level ballast, die-cast aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 21 00-0171 EA 70 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-70)	906.64	97.85
26 56 21 00-0172 EA 80 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-80)	933.16	103.61
26 56 21 00-0173 EA 100 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-100)	959.67	109.36

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Building knowledge

Job Order Contract Construction Task Catalog®

Book 2 of 2 CSI Divisions 27 - 50 July 2021

Monterey County
Roads and Bridges



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About the CTC:

- ☑ This Construction Task Catalog® (CTC) was developed and customized by The Gordian Group, Inc. specifically for **Monterey County**, priced locally using current labor, material and equipment costs, and published in July 2021.
- ☑ The Gordian Group, Inc. licenses the use of this CTC and other proprietary information and software for the sole purpose of providing Job Order Contracting services to **Monterey County**. Use of this CTC and other proprietary information and software for any other purpose, or for any other entity, is expressly prohibited without the express written consent of The Gordian Group, Inc.

MasterFormat™

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



The Unit Prices Include:

LABOR COSTS:

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

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EQUIPMENT COSTS:

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

MATERIAL COSTS:

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

The Adjustment Factors Include:

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

BUSINESS COSTS:

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

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

PROJECT RELATED COSTS:

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

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

PRICE VARIATIONS:

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

SUMMARY:

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

Unit Price	X	Quantity	X	Adjustment Factor
------------	---	----------	---	----------------------

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

General Rules:

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

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

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

DEMOLITION:

- ☑ Unit prices for demolition include all labor, equipment and material required for the complete removal of the items; clean-up of the area; and transporting the demolished items up or down 2

stories into a truck, dumpster, or to an Owner designated area, located within 125' of the project site.

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

WORKING HEIGHT:

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

FIELD ENGINEERING:

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

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

ASSEMBLIES:

- ☑ Assembly Tasks take precedence over individual component Tasks.

RESTRICTED AND CONFINED SPACES:

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

Or Equals:

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

Useful Information:

UNIT OF MEASURE DEFINITIONS:

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

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

MATERIAL WEIGHTS:

EARTHEN MATERIAL

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

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

BULK FACTORS FOR DEMOLITION:

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

CONVERSIONS:

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

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

1 Centimeter = 0.3937 Inches = 0.0328 Feet

1 Cubic Foot = 0.03704 Cubic Yards = 0.02832 Cubic Meters

1 Cubic Meter = 1.3080 Cubic Yards = 35.3147 Cubic Feet

1 Cubic Yard = 27 Cubic Feet = 0.7646 Cubic Meters

1 Foot = 12 Inches = 0.3048 Meters

1 Inch = 2.54 Centimeters = 0.0254 Meters

1 Kilogram = 2.2046 Pounds

1 Kilometer = 0.6214 Miles = 3280 Feet

1 Meter = 100 Centimeters = 3.2808 Feet

1 Mile = 5280 Feet = 1.6093 Kilometers

1 Pound = 0.4536 Kilograms

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

1 Square Meter = 1.1960 Square Yards = 10.7639 Square Feet

1 Square Yard = 9 Square Feet = 0.8361 Square Meters

1 Ton = 2000 Pounds = 907.185 Kilograms

1 Yard = 3 Feet = 0.9144 Meters

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

STANDARD GEOMETRY:

Circle

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

Cylinder

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

Sphere

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

$\pi = 3.14159$

United Inch

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

TRADEMARKS

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



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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27 Communications

Note: Termination costs are included with all communication equipment, panel boards, and devices. Terminations are not included with patch panels.

27 05 Common Work Results for Communications ⁽²⁷⁾

27 05 26 Grounding and Bonding for Communications Systems ^(27 05)

27 05 26 00-0001	EA	25 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 720-00) Note: Excludes terminations.	759.98	103.41
27 05 26 00-0002	EA	50 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 820-00) Note: Excludes terminations.	976.75	137.91
27 05 26 00-0003	EA	100 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 630-00) Note: Excludes terminations.	1,540.83	206.81
27 05 26 00-0004	EA	Lucent 3B1-EW, Gas Tube Protector Unit	9.19	1.52
27 05 26 00-0005	EA	44 Terminal Copper Ground Bus Bar (Siemens ECGK)	65.93	27.32
27 05 26 00-0006	EA	2" x 1/4" x 12", TGB Pattern, Grounding Bus Bar	147.87	27.32
27 05 26 00-0007	EA	4" x 1/4" x 12", TMGB Pattern, Grounding Bus Bar	273.11	27.32
27 05 26 00-0008	EA	#6 AWG, Cable Runway Ground Strap.....	54.02	5.06
27 05 26 00-0009	EA	1/4" Screw Size, #6 AWG Compression Lug	19.88	5.06
27 05 26 00-0010	EA	3/8" Screw Size, #6 AWG Compression Lug	21.08	5.06
27 05 26 00-0011	EA	Two Mounting Hole, Ground Terminal Block.....	23.31	5.06

27 05 29 Hangers and Supports for Communications Systems ^(27 05)

See CSI section 26 05 29 00-0000 for hangers and supports.

27 05 29 00-0001 Communications And Low Voltage Cable Hooks (J-Hooks) ^(27 05 29)

27 05 29 00-0002 Screw On Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) ^(27 05 29 00-0001)

Note: Includes screw.

27 05 29 00-0003	EA	3/4" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12)..... <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Installation On Concrete (Includes Drilling And Fastener), Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Painted Powder Coated Finish, Add</i>	7.49 -0.31 -0.63 -1.19 -1.76 1.37 1.52 0.49	2.53
27 05 29 00-0004	EA	1-5/16" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21)..... <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Installation On Concrete (Includes Drilling And Fastener), Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Painted Powder Coated Finish, Add</i> <i>For Low Friction Xylan® Coated Finish, Add</i>	7.86 -0.32 -0.65 -1.22 -1.80 1.37 1.52 1.73 6.16	2.53
27 05 29 00-0005	EA	2" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32)..... <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Installation On Concrete (Includes Drilling And Fastener), Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Painted Powder Coated Finish, Add</i> <i>For Low Friction Xylan® Coated Finish, Add</i>	8.45 -0.34 -0.68 -1.27 -1.86 1.37 1.52 2.12 7.66	2.53
27 05 29 00-0006	EA	4" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64)..... <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Installation On Concrete (Includes Drilling And Fastener), Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Painted Powder Coated Finish, Add</i> <i>For Low Friction Xylan® Coated Finish, Add</i>	13.49 -0.46 -0.93 -1.64 -2.36 1.37 1.52 1.13 6.78	2.53

27 05 29 00-0007 Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) ^(27 05 29 00-0001)

Note: Includes screw.

27 05 29 00-0008	EA	3/4" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-RB)..... <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Installation On Concrete (Includes Drilling And Fastener), Add</i> <i>For Work In Restricted Working Space, Add</i>	8.37 -0.34 -0.67 -1.26 -1.85 1.37 1.52	2.53
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27 Communications**27 05 Common Work Results for Communications****27 05 29 Hangers and Supports for Communications Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 05 29 00-0009 EA 1-5/16" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-RB)	10.64	2.53
For >50 To 100, Deduct	-0.39	
For >100 To 250, Deduct	-0.79	
For >250 To 500, Deduct	-1.43	
For >500, Deduct	-2.08	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.37	
For Work In Restricted Working Space, Add	1.52	
27 05 29 00-0010 EA 2" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-RB)	11.74	2.53
For >50 To 100, Deduct	-0.42	
For >100 To 250, Deduct	-0.84	
For >250 To 500, Deduct	-1.51	
For >500, Deduct	-2.19	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.37	
For Work In Restricted Working Space, Add	1.52	
27 05 29 00-0011 EA 4" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-RB)	15.70	2.53
For >50 To 100, Deduct	-0.52	
For >100 To 250, Deduct	-1.04	
For >250 To 500, Deduct	-1.81	
For >500, Deduct	-2.58	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.37	
For Work In Restricted Working Space, Add	1.52	
27 05 29 00-0012 Strut Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001)		
Note: Excludes strut.		
27 05 29 00-0013 EA 3/4" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-SC4)	8.79	2.53
For >50 To 100, Deduct	-0.35	
For >100 To 250, Deduct	-0.69	
For >250 To 500, Deduct	-1.29	
For >500, Deduct	-1.89	
For Work In Restricted Working Space, Add	1.52	
27 05 29 00-0014 EA 1-5/16" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-SC4)	10.30	2.53
For >50 To 100, Deduct	-0.38	
For >100 To 250, Deduct	-0.77	
For >250 To 500, Deduct	-1.41	
For >500, Deduct	-2.04	
For Work In Restricted Working Space, Add	1.52	
27 05 29 00-0015 EA 2" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-SC4)	11.09	2.53
For >50 To 100, Deduct	-0.40	
For >100 To 250, Deduct	-0.81	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-2.12	
For Work In Restricted Working Space, Add	1.52	
27 05 29 00-0016 EA 4" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-SC4)	14.82	2.53
For >50 To 100, Deduct	-0.50	
For >100 To 250, Deduct	-0.99	
For >250 To 500, Deduct	-1.74	
For >500, Deduct	-2.49	
For Work In Restricted Working Space, Add	1.52	
27 05 29 00-0017 T-Bar Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001)		
Note: Excludes T-Bar.		
27 05 29 00-0018 EA 3/4" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-A28)	10.45	2.53
For >50 To 100, Deduct	-0.39	
For >100 To 250, Deduct	-0.78	
For >250 To 500, Deduct	-1.42	
For >500, Deduct	-2.06	
For Work In Restricted Working Space, Add	1.52	
27 05 29 00-0019 EA 1-5/16" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-A28)	13.01	2.53
For >50 To 100, Deduct	-0.45	
For >100 To 250, Deduct	-0.90	
For >250 To 500, Deduct	-1.61	
For >500, Deduct	-2.31	
For Work In Restricted Working Space, Add	1.52	
27 05 29 00-0020 EA 2" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-A28)	13.68	2.53
For >50 To 100, Deduct	-0.47	
For >100 To 250, Deduct	-0.94	
For >250 To 500, Deduct	-1.66	
For >500, Deduct	-2.38	
For Work In Restricted Working Space, Add	1.52	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 05 29 00-0021			Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) <small>(27 05 29 00-0001)</small> Note: Excludes threaded rod. See CSI section 26 05 29 00-0372 for threaded rod.		
27 05 29 00-0022	EA		3/4" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-W6).....	8.59	2.53
			<i>For >50 To 100, Deduct</i>	-0.34	
			<i>For >100 To 250, Deduct</i>	-0.68	
			<i>For >250 To 500, Deduct</i>	-1.28	
			<i>For >500, Deduct</i>	-1.87	
			<i>For Work In Restricted Working Space, Add</i>	1.52	
27 05 29 00-0023	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-W6).....	8.94	2.53
			<i>For >50 To 100, Deduct</i>	-0.35	
			<i>For >100 To 250, Deduct</i>	-0.70	
			<i>For >250 To 500, Deduct</i>	-1.30	
			<i>For >500, Deduct</i>	-1.91	
			<i>For Work In Restricted Working Space, Add</i>	1.52	
27 05 29 00-0024	EA		2" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-W6).....	10.71	2.53
			<i>For >50 To 100, Deduct</i>	-0.39	
			<i>For >100 To 250, Deduct</i>	-0.79	
			<i>For >250 To 500, Deduct</i>	-1.44	
			<i>For >500, Deduct</i>	-2.08	
			<i>For Work In Restricted Working Space, Add</i>	1.52	
27 05 29 00-0025			Threaded Rod Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) <small>(27 05 29 00-0001)</small> Note: Excludes threaded rod, nuts and washers. See CSI section 26 05 29 00-0372 for threaded rod, nuts and washers.		
27 05 29 00-0026	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-AB).....	10.51	2.53
			<i>For >50 To 100, Deduct</i>	-0.39	
			<i>For >100 To 250, Deduct</i>	-0.78	
			<i>For >250 To 500, Deduct</i>	-1.42	
			<i>For >500, Deduct</i>	-2.06	
			<i>For Work In Restricted Working Space, Add</i>	1.52	
27 05 29 00-0027	EA		2" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-AB).....	11.34	2.53
			<i>For >50 To 100, Deduct</i>	-0.41	
			<i>For >100 To 250, Deduct</i>	-0.82	
			<i>For >250 To 500, Deduct</i>	-1.48	
			<i>For >500, Deduct</i>	-2.15	
			<i>For Work In Restricted Working Space, Add</i>	1.52	
27 05 29 00-0028	EA		4" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-AB).....	15.46	2.53
			<i>For >50 To 100, Deduct</i>	-0.51	
			<i>For >100 To 250, Deduct</i>	-1.03	
			<i>For >250 To 500, Deduct</i>	-1.79	
			<i>For >500, Deduct</i>	-2.56	
			<i>For Work In Restricted Working Space, Add</i>	1.52	
27 05 29 00-0029			Beam Clamp Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) <small>(27 05 29 00-0001)</small>		
27 05 29 00-0030	EA		3/4" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-C442A).....	10.39	2.53
			<i>For >50 To 100, Deduct</i>	-0.39	
			<i>For >100 To 250, Deduct</i>	-0.77	
			<i>For >250 To 500, Deduct</i>	-1.41	
			<i>For >500, Deduct</i>	-2.05	
			<i>For Work In Restricted Working Space, Add</i>	1.52	
27 05 29 00-0031	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-C442A).....	11.87	2.53
			<i>For >50 To 100, Deduct</i>	-0.42	
			<i>For >100 To 250, Deduct</i>	-0.85	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500, Deduct</i>	-2.20	
			<i>For Work In Restricted Working Space, Add</i>	1.52	
27 05 29 00-0032	EA		2" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-C442A).....	12.66	2.53
			<i>For >50 To 100, Deduct</i>	-0.44	
			<i>For >100 To 250, Deduct</i>	-0.89	
			<i>For >250 To 500, Deduct</i>	-1.58	
			<i>For >500, Deduct</i>	-2.28	
			<i>For Work In Restricted Working Space, Add</i>	1.52	
27 05 29 00-0033	EA		4" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-C442A).....	16.96	2.53
			<i>For >50 To 100, Deduct</i>	-0.55	
			<i>For >100 To 250, Deduct</i>	-1.10	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.71	
			<i>For Work In Restricted Working Space, Add</i>	1.52	

27 Communications**27 05 Common Work Results for Communications****27 05 29 Hangers and Supports for Communications Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 05 29 00-0034 Adjustable Cable Supports (Caddy® CableCat CAT425) ^(27 05 29)		
27 05 29 00-0035 EA Wall Mount, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	29.04	3.33
For >50 To 100, Deduct	-0.98	
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-3.44	
For >500, Deduct	-4.92	
For Installation On Concrete (Includes Drilling And Fastener), Add	2.63	
For Work In Restricted Working Space, Add	3.03	
27 05 29 00-0036 EA Threaded Rod Or Horizontal Surface Mount, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	29.59	3.33
For >50 To 100, Deduct	-0.99	
For >100 To 250, Deduct	-1.98	
For >250 To 500, Deduct	-3.48	
For >500, Deduct	-4.98	
For Work In Restricted Working Space, Add	3.03	
27 05 29 00-0037 EA Up To 1/4" Flange, Hammer On Flange Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	32.47	3.33
For >50 To 100, Deduct	-1.06	
For >100 To 250, Deduct	-2.13	
For >250 To 500, Deduct	-3.70	
For >500, Deduct	-5.27	
For Work In Restricted Working Space, Add	3.03	
27 05 29 00-0038 EA >1/4" To 3/4" Flange, Hammer On Flange Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	28.95	3.33
For >50 To 100, Deduct	-0.98	
For >100 To 250, Deduct	-1.95	
For >250 To 500, Deduct	-3.43	
For >500, Deduct	-4.92	
For Work In Restricted Working Space, Add	3.03	
27 05 29 00-0039 EA Up To 1/2" Flange, Beam Clamp, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	30.28	3.33
For >50 To 100, Deduct	-1.01	
For >100 To 250, Deduct	-2.02	
For >250 To 500, Deduct	-3.53	
For >500, Deduct	-5.05	
For Work In Restricted Working Space, Add	3.03	
27 05 29 00-0040 EA >1/2" To 5/8" Flange, Beam Clamp, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	31.60	3.33
For >50 To 100, Deduct	-1.04	
For >100 To 250, Deduct	-2.09	
For >250 To 500, Deduct	-3.63	
For >500, Deduct	-5.18	
For Work In Restricted Working Space, Add	3.03	
27 05 29 00-0041 EA Up To 1/4" Flange, Hammer On Purlin Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	29.83	3.33
For >50 To 100, Deduct	-1.00	
For >100 To 250, Deduct	-2.00	
For >250 To 500, Deduct	-3.50	
For >500, Deduct	-5.00	
For Work In Restricted Working Space, Add	3.03	
27 05 33 Conduits and Backboxes for Communications Systems ^(27 05)		
See CSI section 26 05 33 00-0000 for conduit and boxes.		
27 05 39 Surface Raceways for Communications Systems ^(27 05)		
See CSI section 26 05 33 00-0000 for surface raceways.		
27 05 43 Underground Ducts and Raceways for Communications Systems ^(27 05)		
See CSI section 26 05 43 00-0000 for underground ducts and raceways.		
27 05 46 Utility Poles for Communications Systems ^(27 05)		
See CSI section 26 05 46 00-0000 for utility poles.		
27 05 53 Identification for Communications Systems ^(27 05)		
See CSI section 26 05 53 00-0000 for identification.		
27 10 Structured Cabling ⁽²⁷⁾		
Note: Includes testing.		
27 11 Communications Equipment Room Fittings ^(27 10)		
27 11 16 Communications Cabinets, Racks, Frames, and Enclosures ^(27 11)		
27 11 16 00-0001 3/4" Fire Retardant Plywood Backboards ^(27 11 16)		
27 11 16 00-0002 EA 4' x 4' x 3/4" Fire Retardant Plywood Backboard	133.09	26.26
For Two Coats Of Non-Conductive, Fire Retardant Paint, Add	49.57	
27 11 16 00-0003 EA 4' x 8' x 3/4" Fire Retardant Plywood Backboard	266.18	52.51
For Two Coats Of Non-Conductive, Fire Retardant Paint, Add	99.13	
27 11 16 00-0004 Terminal Cabinets ^(27 11 16)		
27 11 16 00-0005 EA 12" x 12" x 4" Phone Terminal Cabinet With Wood Backboard.....	291.93	75.73



Communications	27
Structured Cabling	27 10
Communications Equipment Room Fittings	27 11

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 16 00-0006 EA 18" x 12" x 4" Phone Terminal Cabinet With Wood Backboard.....	367.27	83.31
27 11 16 00-0007 EA 24" x 12" x 4" Phone Terminal Cabinet With Wood Backboard.....	422.62	95.93
27 11 16 00-0008 EA 18" x 18" x 4" Phone Terminal Cabinet With Wood Backboard.....	438.55	98.46
27 11 16 00-0009 EA 24" x 18" x 4" Phone Terminal Cabinet With Wood Backboard.....	533.93	100.98
27 11 16 00-0010 EA 26" x 36" x 4" Phone Terminal Cabinet With Wood Backboard.....	659.62	113.60
27 11 16 00-0011 EA 24" x 24" x 6" Phone Terminal Cabinet With Wood Backboard.....	674.62	111.07
27 11 16 00-0012 EA 30" x 24" x 6" Phone Terminal Cabinet With Wood Backboard.....	868.58	158.24
27 11 16 00-0013 EA 36" x 24" x 6" Phone Terminal Cabinet With Wood Backboard.....	929.73	173.89
27 11 16 00-0014 EA 42" x 24" x 6" Phone Terminal Cabinet With Wood Backboard.....	1,119.99	183.69
27 11 16 00-0015 EA 30" x 30" x 6" Phone Terminal Cabinet With Wood Backboard.....	925.00	151.47
27 11 16 00-0016 EA 36" x 30" x 6" Phone Terminal Cabinet With Wood Backboard.....	1,000.40	164.10
27 11 16 00-0017 EA 48" x 30" x 6" Phone Terminal Cabinet With Wood Backboard.....	1,247.94	210.35
27 11 16 00-0018 EA 54" x 30" x 6" Phone Terminal Cabinet With Wood Backboard.....	1,499.77	262.96
27 11 16 00-0019 EA 48" x 36" x 6" Phone Terminal Cabinet With Wood Backboard.....	1,696.02	260.03
27 11 16 00-0020 EA 60" x 36" x 6" Phone Terminal Cabinet With Wood Backboard.....	1,950.25	316.37
27 11 16 00-0021 Equipment Racks And Cable Managers (27 11 16)		
27 11 16 00-0022 Equipment Racks (27 11 16 00-0021) Note: Electronics Industries Association EIA-310-D compliant. Includes aluminum construction with clear grained aluminum or black epoxy-polyester hybrid powder coat finish.		
27 11 16 00-0023 Standard Equipment Racks (27 11 16 00-0022)		
27 11 16 00-0024 19" Width, Standard Equipment Racks (27 11 16 00-0023)		
27 11 16 00-0025 EA 84" Height, 19" Width, 3" Depth, 45U, Standard Equipment Rack (Chatsworth 55053-X03).....	500.54	161.57
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	8.87	
27 11 16 00-0026 EA 96" Height, 19" Width, 3" Depth, 51U, Standard Equipment Rack (Chatsworth 55053-X15).....	693.40	171.67
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	17.50	
27 11 16 00-0027 EA 108" Height, 19" Width, 3" Depth, 58U, Standard Equipment Rack (Chatsworth 55053-X08).....	748.96	181.76
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	19.27	
27 11 16 00-0028 Universal Equipment Racks (27 11 16 00-0022)		
27 11 16 00-0029 Universal Equipment Racks (27 11 16 00-0028)		
27 11 16 00-0030 19" Width, EIA Universal Equipment Racks (27 11 16 00-0029)		
27 11 16 00-0031 EA 36" Height, 19" Width, 3" Depth, 17U, EIA Universal Equipment Rack (Chatsworth 46353-X31).....	649.60	141.38
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	18.34	
27 11 16 00-0032 EA 48" Height, 19" Width, 3" Depth, 24U, EIA Universal Equipment Rack (Chatsworth 46353-X20).....	709.61	143.90
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	21.09	
27 11 16 00-0033 EA 60" Height, 19" Width, 3" Depth, 31U, EIA Universal Equipment Rack (Chatsworth 46353-X19).....	708.75	146.42
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	20.80	
27 11 16 00-0034 EA 66" Height, 19" Width, 3" Depth, 34U, EIA Universal Equipment Rack (Chatsworth 46353-X00).....	726.93	148.95
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	21.45	
27 11 16 00-0035 EA 72" Height, 19" Width, 3" Depth, 38U, EIA Universal Equipment Rack (Chatsworth 46353-X01).....	744.90	151.47
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	22.10	
27 11 16 00-0036 EA 78" Height, 19" Width, 3" Depth, 41U, EIA Universal Equipment Rack (Chatsworth 46353-X02).....	764.38	154.00
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	22.82	
27 11 16 00-0037 EA 84" Height, 19" Width, 3" Depth, 45U, EIA Universal Equipment Rack (Chatsworth 46353-X03).....	651.84	156.53
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	16.94	
27 11 16 00-0038 EA 90" Height, 19" Width, 3" Depth, 48U, EIA Universal Equipment Rack (Chatsworth 46353-X05).....	802.19	159.04
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	24.21	
27 11 16 00-0039 EA 96" Height, 19" Width, 3" Depth, 51U, EIA Universal Equipment Rack (Chatsworth 46353-X15).....	830.51	161.57
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	25.37	
27 11 16 00-0040 EA 102" Height, 19" Width, 3" Depth, 55U, EIA Universal Equipment Rack (Chatsworth 46353-X17).....	855.25	164.10
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	26.35	
27 11 16 00-0041 EA 108" Height, 19" Width, 3" Depth, 58U, EIA Universal Equipment Rack (Chatsworth 46353-X08).....	861.29	166.62
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	26.40	
27 11 16 00-0042 23" Width, Universal Equipment Racks (27 11 16 00-0029)		
27 11 16 00-0043 EA 36" Height, 23" Width, 3" Depth, 17U, Universal Equipment Rack (Chatsworth 46383-X31).....	687.25	141.38
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	20.23	
27 11 16 00-0044 EA 48" Height, 23" Width, 3" Depth, 24U, Universal Equipment Rack (Chatsworth 46383-X20).....	711.01	143.90
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	21.16	
27 11 16 00-0045 EA 60" Height, 23" Width, 3" Depth, 31U, Universal Equipment Rack (Chatsworth 46383-X19).....	731.94	146.42
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	21.95	
27 11 16 00-0046 EA 66" Height, 23" Width, 3" Depth, 34U, Universal Equipment Rack (Chatsworth 46383-X00).....	771.01	148.95
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	23.66	
27 11 16 00-0047 EA 72" Height, 23" Width, 3" Depth, 38U, Universal Equipment Rack (Chatsworth 46383-X01).....	790.29	151.47
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	24.37	
27 11 16 00-0048 EA 78" Height, 23" Width, 3" Depth, 41U, Universal Equipment Rack (Chatsworth 46383-X02).....	811.27	154.00
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	25.16	
27 11 16 00-0049 EA 84" Height, 23" Width, 3" Depth, 45U, Universal Equipment Rack (Chatsworth 46383-X03).....	699.27	156.53
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	19.31	
27 11 16 00-0050 EA 90" Height, 23" Width, 3" Depth, 48U, Universal Equipment Rack (Chatsworth 46383-X05).....	851.96	159.04
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	26.69	
27 11 16 00-0051 EA 96" Height, 23" Width, 3" Depth, 51U, Universal Equipment Rack (Chatsworth 46383-X15).....	882.63	161.57
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	27.97	
27 11 16 00-0052 EA 102" Height, 23" Width, 3" Depth, 55U, Universal Equipment Rack (Chatsworth 46383-X17).....	909.43	164.10
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	29.06	

27 Communications**27 10 Structured Cabling****27 11 Communications Equipment Room Fittings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 16 00-0053 EA 108" Height, 23" Width, 3" Depth, 58U, Universal Equipment Rack (Chatsworth 46383-X08)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	915.55 29.12	166.62
27 11 16 00-0054 35" Width, Universal Equipment Racks (27 11 16 00-0029)		
27 11 16 00-0055 EA 72" Height, 35" Width, 3" Depth, 38U, Universal Equipment Rack (Chatsworth 46363-X01)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	854.10 27.56	151.47
27 11 16 00-0056 EA 84" Height, 35" Width, 3" Depth, 45U, Universal Equipment Rack (Chatsworth 46363-X03)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	899.37 29.32	156.53
27 11 16 00-0057 UL Listed Universal Equipment Racks (27 11 16 00-0028) Note: UL listed as a communications circuit accessory.		
27 11 16 00-0058 19" Width, UL Listed Universal Equipment Racks (27 11 16 00-0057)		
27 11 16 00-0059 EA 36" Height, 19" Width, 3" Depth, 17U, UL Listed Universal Equipment Rack (Chatsworth 48353-X31)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	686.30 20.18	141.38
27 11 16 00-0060 EA 48" Height, 19" Width, 3" Depth, 24U, UL Listed Universal Equipment Rack (Chatsworth 48353-X20)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	741.72 22.70	143.90
27 11 16 00-0061 EA 60" Height, 19" Width, 3" Depth, 31U, UL Listed Universal Equipment Rack (Chatsworth 48353-X19)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	753.10 23.01	146.42
27 11 16 00-0062 EA 66" Height, 19" Width, 3" Depth, 34U, UL Listed Universal Equipment Rack (Chatsworth 48353-X00)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	769.86 23.60	148.95
27 11 16 00-0063 EA 72" Height, 19" Width, 3" Depth, 38U, UL Listed Universal Equipment Rack (Chatsworth 48353-X01)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	789.09 24.31	151.47
27 11 16 00-0064 EA 78" Height, 19" Width, 3" Depth, 41U, UL Listed Universal Equipment Rack (Chatsworth 48353-X02)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	810.01 25.10	154.00
27 11 16 00-0065 EA 84" Height, 19" Width, 3" Depth, 45U, UL Listed Universal Equipment Rack (Chatsworth 48353-X03)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	830.08 25.85	156.53
27 11 16 00-0066 EA 90" Height, 19" Width, 3" Depth, 48U, UL Listed Universal Equipment Rack (Chatsworth 48353-X05)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	850.62 26.63	159.04
27 11 16 00-0067 EA 96" Height, 19" Width, 3" Depth, 51U, UL Listed Universal Equipment Rack (Chatsworth 48353-X15)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	881.27 27.91	161.57
27 11 16 00-0068 EA 102" Height, 19" Width, 3" Depth, 55U, UL Listed Universal Equipment Rack (Chatsworth 48353-X17)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	908.00 28.99	164.10
27 11 16 00-0069 EA 108" Height, 19" Width, 3" Depth, 58U, UL Listed Universal Equipment Rack (Chatsworth 48353-X08)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	914.05 29.04	166.62
27 11 16 00-0070 23" Width, UL Listed Universal Equipment Racks (27 11 16 00-0057)		
27 11 16 00-0071 EA 36" Height, 23" Width, 3" Depth, 17U, UL Listed Universal Equipment Rack (Chatsworth 48383-X31)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	727.74 22.25	141.38
27 11 16 00-0072 EA 48" Height, 23" Width, 3" Depth, 24U, UL Listed Universal Equipment Rack (Chatsworth 48383-X20)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	797.92 25.51	143.90
27 11 16 00-0073 EA 60" Height, 23" Width, 3" Depth, 31U, UL Listed Universal Equipment Rack (Chatsworth 48383-X19)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	808.12 25.76	146.42
27 11 16 00-0074 EA 66" Height, 23" Width, 3" Depth, 34U, UL Listed Universal Equipment Rack (Chatsworth 48383-X00)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	818.32 26.02	148.95
27 11 16 00-0075 EA 72" Height, 23" Width, 3" Depth, 38U, UL Listed Universal Equipment Rack (Chatsworth 48383-X01)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	839.02 26.80	151.47
27 11 16 00-0076 EA 78" Height, 23" Width, 3" Depth, 41U, UL Listed Universal Equipment Rack (Chatsworth 48383-X02)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	861.60 27.68	154.00
27 11 16 00-0077 EA 84" Height, 23" Width, 3" Depth, 45U, UL Listed Universal Equipment Rack (Chatsworth 48383-X03)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	883.20 28.51	156.53
27 11 16 00-0078 EA 90" Height, 23" Width, 3" Depth, 48U, UL Listed Universal Equipment Rack (Chatsworth 48383-X05)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	905.32 29.36	159.04
27 11 16 00-0079 EA 96" Height, 23" Width, 3" Depth, 51U, UL Listed Universal Equipment Rack (Chatsworth 48383-X15)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	938.57 30.77	161.57
27 11 16 00-0080 EA 102" Height, 23" Width, 3" Depth, 55U, UL Listed Universal Equipment Rack (Chatsworth 48383-X17)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	967.56 31.97	164.10
27 11 16 00-0081 EA 108" Height, 23" Width, 3" Depth, 58U, UL Listed Universal Equipment Rack (Chatsworth 48383-X08)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	973.87 32.03	166.62
27 11 16 00-0082 4-Post Equipment Racks And Server Frames (27 11 16 00-0022)		
27 11 16 00-0083 4-Post Equipment Racks (27 11 16 00-0082)		
27 11 16 00-0084 EA 19" Width, 29" Depth, 84" Height, 4-Post Equipment Rack (Chatsworth 50120-X03)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,386.53 44.08	252.45
27 11 16 00-0085 EA 19" Width, 29" Depth, 96" Height, 4-Post Equipment Rack (Chatsworth 50120-X15)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,513.72 49.43	262.55
27 11 16 00-0086 EA 19" Width, 29" Depth, 108" Height, 4-Post Equipment Rack (Chatsworth 50120-X08)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,633.71 54.42	272.65
27 11 16 00-0087 4-Post Server Frame (27 11 16 00-0082)		
27 11 16 00-0088 EA 19" Width, 29" Depth, 84" Height, Server Frame (Chatsworth 15053-X03)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,425.31 46.02	252.45
27 11 16 00-0089 Cable Managers (27 11 16 00-0021)		
27 11 16 00-0090 Horizontal Cable Managers (27 11 16 00-0089)		



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 16 00-0091 Single-Sided, Horizontal Cable Managers <small>(27 11 16 00-0090)</small>			
27 11 16 00-0092	EA 1U Height, 19" Width, 4.96" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30139-719).....	80.19	10.10
27 11 16 00-0093	EA 1U Height, 23" Width, 4.96" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30139-723).....	89.29	10.10
27 11 16 00-0094	EA 1U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-701).....	66.96	10.10
27 11 16 00-0095	EA 2U Height, 19" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30130-719).....	81.56	10.10
27 11 16 00-0096	EA 2U Height, 23" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30130-723).....	95.65	10.10
27 11 16 00-0097	EA 2U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-702).....	74.15	10.10
27 11 16 00-0098	EA 3U Height, 19" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30131-719).....	109.94	10.10
27 11 16 00-0099	EA 3U Height, 23" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30131-723).....	125.15	10.10
27 11 16 00-0100	EA 3U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-703).....	88.54	10.10
27 11 16 00-0101 Double-Sided, Horizontal Cable Managers <small>(27 11 16 00-0090)</small>			
27 11 16 00-0102	EA 1U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30529-719).....	99.59	10.10
27 11 16 00-0103	EA 1U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30529-723).....	111.58	10.10
27 11 16 00-0104	EA 2U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30530-719).....	104.78	10.10
27 11 16 00-0105	EA 2U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30530-723).....	121.96	10.10
27 11 16 00-0106	EA 3U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30531-719).....	135.58	10.10
27 11 16 00-0107	EA 3U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30531-723).....	151.82	10.10
27 11 16 00-0108 Vertical Cable Managers <small>(27 11 16 00-0089)</small>			
27 11 16 00-0109 Single-Sided, Vertical Cable Managers <small>(27 11 16 00-0108)</small>			
27 11 16 00-0110	EA 3.6" Width, 9.7" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-701).....	179.58	15.15
27 11 16 00-0111	EA 6" Width, 9.8" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-701).....	253.32	15.15
27 11 16 00-0112	EA 10" Width, 10.3" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-701).....	408.01	15.15
27 11 16 00-0113	EA 12" Width, 10.4" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-701).....	461.97	15.15
27 11 16 00-0114	EA 3.6" Width, 9.7" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-703).....	192.17	15.15
27 11 16 00-0115	EA 6" Width, 9.8" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-703).....	273.11	15.15
27 11 16 00-0116	EA 10" Width, 10.3" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-703).....	443.98	15.15
27 11 16 00-0117	EA 12" Width, 10.4" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-703).....	497.94	15.15
27 11 16 00-0118	EA 3.6" Width, 9.7" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-715).....	217.35	15.15
27 11 16 00-0119	EA 6" Width, 9.8" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-715).....	300.09	15.15
27 11 16 00-0120	EA 10" Width, 10.3" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-715).....	497.94	15.15
27 11 16 00-0121	EA 12" Width, 10.4" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-715).....	551.90	15.15
27 11 16 00-0122 Double-Sided, Vertical Cable Managers <small>(27 11 16 00-0108)</small>			
27 11 16 00-0123	EA 3.6" Width, 16.4" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-701).....	260.52	15.15
27 11 16 00-0124	EA 6" Width, 16.6" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-701).....	307.28	15.15
27 11 16 00-0125	EA 10" Width, 17.5" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-701).....	497.94	15.15
27 11 16 00-0126	EA 12" Width, 17.8" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-701).....	587.88	15.15
27 11 16 00-0127	EA 3.6" Width, 16.4" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-703).....	282.10	15.15
27 11 16 00-0128	EA 6" Width, 16.6" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-703).....	328.87	15.15
27 11 16 00-0129	EA 10" Width, 17.5" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-703).....	533.92	15.15
27 11 16 00-0130	EA 12" Width, 17.8" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-703).....	623.85	15.15
27 11 16 00-0131	EA 3.6" Width, 16.4" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-715).....	310.88	15.15
27 11 16 00-0132	EA 6" Width, 16.6" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-715).....	357.65	15.15
27 11 16 00-0133	EA 10" Width, 17.5" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-715).....	587.88	15.15
27 11 16 00-0134	EA 12" Width, 17.8" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-715).....	677.81	15.15
27 11 16 00-0135 Accessories For Vertical Cable Managers <small>(27 11 16 00-0108)</small>			
27 11 16 00-0136	EA Cable Ring Kit For 3.6" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-716).....	110.12	10.10
27 11 16 00-0137	EA Cable Ring Kit For 3.6" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-717).....	117.32	10.10
27 11 16 00-0138	EA Cable Ring Kit For 3.6" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-718).....	124.51	10.10
27 11 16 00-0139	EA Cable Ring Kit For 6" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-726).....	113.72	10.10
27 11 16 00-0140	EA Cable Ring Kit For 6" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-727).....	124.51	10.10
27 11 16 00-0141	EA Cable Ring Kit For 6" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-728).....	135.30	10.10
27 11 16 00-0142	EA Cable Ring Kit For 10" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-746).....	128.11	10.10
27 11 16 00-0143	EA Cable Ring Kit For 10" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-747).....	138.90	10.10
27 11 16 00-0144	EA Cable Ring Kit For 10" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-748).....	149.69	10.10
27 11 16 00-0145	EA Cable Ring Kit For 12" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-756).....	135.30	10.10
27 11 16 00-0146	EA Cable Ring Kit For 12" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-757).....	149.69	10.10
27 11 16 00-0147	EA Cable Ring Kit For 12" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-758).....	160.49	10.10
27 11 16 00-0148	EA Cable Lashing Bar Kit For Vertical Cable Managers (Chatsworth 13928-001).....	92.14	10.10
27 11 16 00-0149	EA Cable Spool Kit For Vertical Cable Managers (Chatsworth 13935-701).....	106.53	10.10
27 11 16 00-0150	EA Cable Distribution Spools For Vertical Cable Managers (Chatsworth 15008-001).....	111.38	10.10
27 11 16 00-0151	EA Cable Distribution Spool Spacer Kit For Vertical Cable Managers (Chatsworth 35505-001).....	70.55	10.10
27 11 19 Communications Termination Blocks and Patch Panels <small>(27 11)</small>			
Note: The terminating, testing, and labeling of the cables in question should be done according to the task description as well as the current contract specifications. See CSI section 26 05 53 00-0020 for labeling.			
27 11 19 00-0001 Computer Network Components <small>(27 11 19)</small>			
27 11 19 00-0002 Ethernet Patch Panels <small>(27 11 19 00-0001)</small>			
27 11 19 00-0003	EA 12 Port, Category 5E Patch Panel.....	225.89	50.49
27 11 19 00-0004	EA 24 Port, Category 5E Patch Panel.....	332.47	50.49

27	Communications
27 10	Structured Cabling
27 11	Communications Equipment Room Fittings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 19 00-0005 EA 32 Port, Category 5E Patch Panel	433.32	50.49
27 11 19 00-0006 EA 48 Port, Category 5E Patch Panel	527.29	50.49
27 11 19 00-0007 EA 64 Port, Category 5E Patch Panel	632.62	63.12
27 11 19 00-0008 EA 96 Port, Category 5E Patch Panel	972.01	75.73
27 11 19 00-0009 EA 12 Port, Category 6 Patch Panel	277.47	50.49
27 11 19 00-0010 EA 24 Port, Category 6 Patch Panel	339.35	50.49
27 11 19 00-0011 EA 48 Port, Category 6 Patch Panel	577.72	50.49
27 11 19 00-0012 EA 96 Port, Category 6 Patch Panel	1,068.27	75.73
27 11 19 00-0013 EA 16" x 12" x 8" Steel Enclosure, Type 12, Hinged, Lockable (Hoffman A161208LP)	558.26	75.73
27 11 19 00-0014 EA 16" x 16" x 6" Steel Enclosure, Type 12, Hinged, Lockable (Hoffman A161606LP)	588.84	75.73
27 11 19 00-0015 EA 12 Port, Category 6 Modular to 110 Mini Patch Panel (Ortronics-Legrand OR-PMP61289)	236.19	50.49
27 11 19 00-0016 EA Terminate One End Of A 4 Pair Cable To Category "X" Specifications	35.77	
For >5 To 10 Cables, Deduct	-6.44	
For >10 Cables, Deduct	-14.31	
27 11 19 00-0017 EA Terminate One End Of A Twisted Pair Of Wires	9.84	
Note: Per each pair		
For >20 To 40 Pairs, Deduct	-1.57	
For >40 Pairs, Deduct	-3.74	
27 11 19 00-0018 Fiber Optic Cable Patch Panels And Enclosures (27 11 19 00-0001)		
27 11 19 00-0019 Fiber Optic Cable Connector Housings (27 11 19 00-0018)		
27 11 19 00-0020 Wall Mount, Fiber Optic Cable Connector Housings (27 11 19 00-0019)		
Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0021 EA 1-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	122.02	22.72
27 11 19 00-0022 EA 2-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	181.62	22.72
27 11 19 00-0023 EA 4-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	269.80	22.72
27 11 19 00-0024 EA 6-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	398.28	37.87
27 11 19 00-0025 EA 12-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	555.27	37.87
27 11 19 00-0026 Rack Mount, Fiber Optic Cable Connector Housings (27 11 19 00-0019)		
Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0027 EA 2-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	414.37	37.87
27 11 19 00-0028 EA 4-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	474.23	37.87
27 11 19 00-0029 EA 6-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	510.84	37.87
27 11 19 00-0030 EA 12-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	599.31	37.87
27 11 19 00-0031 Rack Mount, Fiber Optic Cable Pretium® Connector Housings (27 11 19 00-0019)		
Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0032 EA 2-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing	516.96	37.87
For Splice Tray Bracket, Add	55.37	
27 11 19 00-0033 EA 4-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing	606.00	37.87
For Splice Tray Bracket, Add	60.55	
27 11 19 00-0034 EA 12-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing	756.05	37.87
For Splice Tray Bracket, Add	220.61	
27 11 19 00-0035 Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housings (27 11 19 00-0019)		
Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0036 EA 8 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing	656.64	37.87
27 11 19 00-0037 EA 12 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing	840.22	37.87
27 11 19 00-0038 EA 24 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing	951.51	37.87
27 11 19 00-0039 EA 48 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing	1,235.34	37.87
27 11 19 00-0040 Wall Mount, Fiber Optic Cable Industrial Connector Housings (27 11 19 00-0019)		
Note: Includes powder-coat finish, pad lockable outer door and mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0041 EA 2-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing	586.96	22.72
27 11 19 00-0042 EA 6-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing	811.53	37.87
27 11 19 00-0043 EA 12-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing	851.73	37.87
27 11 19 00-0044 Wall Mount, Fiber Optic Cable Environmental Connector Housings (27 11 19 00-0019)		
Note: Includes NEMA 4X enclosure, pad lockable outer door and mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0045 EA 2-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing	614.74	22.72
27 11 19 00-0046 EA 6-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing	811.04	37.87
27 11 19 00-0047 EA 12-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing	953.26	37.87
27 11 19 00-0048 Fiber Optic Cable Connector Panels (27 11 19 00-0018)		
27 11 19 00-0049 SC Simplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)		



Communications	27	27
Structured Cabling	27 10	
Communications Equipment Room Fittings	27 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 19 00-0050 EA 6-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel.....	80.67	5.05
27 11 19 00-0051 EA 6-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel.....	87.57	5.05
27 11 19 00-0052 EA 8-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel.....	98.28	5.05
27 11 19 00-0053 EA 8-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel.....	107.48	5.05
27 11 19 00-0054 EA 12-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel.....	133.53	5.05
27 11 19 00-0055 EA 12-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel.....	147.28	5.05
27 11 19 00-0056 SC Duplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)		
27 11 19 00-0057 EA 6-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel.....	77.62	5.05
27 11 19 00-0058 EA 6-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel.....	79.24	5.05
27 11 19 00-0059 EA 8-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel.....	94.24	5.05
27 11 19 00-0060 EA 8-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel.....	96.39	5.05
27 11 19 00-0061 EA 12-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel.....	127.46	5.05
27 11 19 00-0062 EA 12-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel.....	130.67	5.05
27 11 19 00-0063 LC Duplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)		
27 11 19 00-0064 EA 6-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	83.85	5.05
27 11 19 00-0065 EA 6-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	91.98	5.05
27 11 19 00-0066 EA 8-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	102.51	5.05
27 11 19 00-0067 EA 8-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	113.36	5.05
27 11 19 00-0068 EA 12-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	139.88	5.05
27 11 19 00-0069 EA 12-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	156.12	5.05
27 11 19 00-0070 EA 16-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	177.23	5.05
27 11 19 00-0071 EA 16-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	198.88	5.05
27 11 19 00-0072 EA 24-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	251.92	5.05
27 11 19 00-0073 EA 24-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	259.47	5.05
27 11 19 00-0074 ST Simplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)		
27 11 19 00-0075 EA 6-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel.....	67.01	5.05
27 11 19 00-0076 EA 6-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel.....	72.23	5.05
27 11 19 00-0077 EA 8-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel.....	80.08	5.05
27 11 19 00-0078 EA 8-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel.....	87.04	5.05
27 11 19 00-0079 EA 12-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel.....	106.19	5.05
27 11 19 00-0080 EA 12-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel.....	116.64	5.05
27 11 19 00-0081 MT-RJ, Fiber Optic Cable Connector Panels (27 11 19 00-0048)		
27 11 19 00-0082 EA 12-Fiber, Multimode, MT-RJ, Fiber Optic Cable Connector Panel.....	83.36	5.05
27 11 19 00-0083 EA 12-Fiber, Singlemode, MT-RJ, Fiber Optic Cable Connector Panel.....	124.86	5.05
27 11 19 00-0084 Fiber Optic Cable Pretium Edge® Modules (27 11 19 00-0048)		
27 11 19 00-0085 EA 12-Fiber, Singlemode, LC Duplex To MTP, Fiber Optic Cable Pretium Edge® Module.....	719.80	5.05
27 11 19 00-0086 EA 12-Fiber, Multimode, LC Duplex To MTP, Fiber Optic Cable Pretium Edge® Module.....	722.30	5.05
27 11 19 00-0087 Fiber Optic Cable Splice Housings (27 11 19 00-0018)		
27 11 19 00-0088 Wall Mount, Fiber Optic Cable Splice Housings (27 11 19 00-0087)		
Note: Includes mounting hardware. Excludes splice trays.		
27 11 19 00-0089 EA 12 Splice Tray Capacity, Wall Mount, Fiber Optic Splice Housing With Locking Door.....	285.87	50.49
27 11 19 00-0090 Rack Mount, Fiber Optic Cable Splice Housings (27 11 19 00-0087)		
Note: Includes mounting hardware. Excludes splice trays.		
27 11 19 00-0091 EA 12 Splice Tray Capacity, Rack Mount, Fiber Optic Cable Splice Housing.....	429.92	37.87
27 11 19 00-0092 EA 22 Splice Tray Capacity, Rack Mount, Fiber Optic Cable Splice Housing.....	436.40	37.87
27 11 19 00-0093 Fiber Optic Cable Splice Trays (27 11 19 00-0087)		
27 11 19 00-0094 EA Fiber Optic Cable Splice Tray.....	81.83	12.62
27 11 19 00-0095 Fiber Optic Cable Jumper Management Panels (27 11 19 00-0018)		
Note: Includes mounting hardware.		
27 11 19 00-0096 EA Rack Mount, Fiber Optic Cable Jumper Management Panel.....	158.39	37.87
27 11 19 00-0097 Miscellaneous Accessories (27 11 19 00-0001)		
27 11 19 00-0098 EA Wall Mount Bracket For 12 Or 24 Port Patch Panel.....	58.78	
27 11 19 00-0099 EA Wall Mount Bracket For 32 Or 48 Port Patch Panel.....	78.36	
27 11 19 00-0100 EA Wall Mount Bracket For 64 Or 72 Port Patch Panel.....	85.51	
27 11 19 00-0101 EA Wall Mount Bracket For 96 Port Patch Panel.....	95.28	
27 11 19 00-0102 EA Lightning Protection Plus Stainless Steel Modules, Siemon.....	381.98	50.49
27 11 19 00-0103 Telephone Components (27 11 19)		

27	Communications
27 10	Structured Cabling
27 11	Communications Equipment Room Fittings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 19 00-0104	Terminal Blocks With Wide Range Of 22-8 AWG (27 11 19 00-0103)	
27 11 19 00-0105 EA Terminal Block, Circuit Isolation Switch With Wire Range 22-8 AWG.....	28.50	10.12
27 11 19 00-0106 EA Terminal Block, Fuse Holder 600 Volt, 6.3 Amperes With Wire Range 22-8 AWG.....	51.55	10.12
27 11 19 00-0107 EA Terminal Block, Fuse Holder 600 Volt, 10 Amperes With Wire Range 22-8 AWG.....	42.12	10.12
27 11 19 00-0108 EA Terminal Block, Solderless Box With Lugs And Wire Range 22-8 AWG.....	22.44	10.12
27 11 19 00-0109 EA Flat Terminal Block Connection With Wire Range 22-8 AWG.....	15.95	7.08
27 11 19 00-0110 EA Ground Terminal Block With Wire Range 22-8 AWG.....	29.49	10.12
27 11 19 00-0111 EA Terminal Block, Solderless Box With Lug 600 Volt, 60 Amperes With Wire Range 22-8 AWG.....	22.44	10.12
27 11 19 00-0112 EA Terminal Block, Mini Box Lug 300 Volt, 30 Amperes With Wire Range 22-8 AWG.....	15.80	7.08
27 11 19 00-0113 EA Flat Terminal Block Connection 300 Volt, 20 Amperes With Wire Range 22-8 AWG.....	15.70	7.08
27 11 19 00-0114 EA Self Lifting Terminal Block, 300 Volt, 40 Amperes, Wire Connection With Wire Range 22-12 AWG.....	16.15	7.08
27 11 19 00-0115	Terminal Block Mounting Channel (27 11 19 00-0103)	
27 11 19 00-0116 EA Terminal Block Mounting Channel, .5 M Galvanized Steel.....	14.98	5.06
27 11 19 00-0117 EA Terminal Block Mounting Channel, 1 M Galvanized Steel.....	18.94	5.06
27 11 19 00-0118 EA Terminal Block Mounting Channel, 2 M Galvanized Steel.....	25.84	5.06
27 11 19 00-0119 EA Terminal Block Mounting Channel, .5 M Bi-Chrome Zinc.....	18.97	6.07
27 11 19 00-0120 EA Terminal Block Mounting Channel, 1 M Bi-Chrome Zinc.....	25.52	6.07
27 11 19 00-0121 EA Terminal Block Mounting Channel, 2 M Bi-Chrome Zinc.....	36.24	6.07
27 11 19 00-0122	Outlet Termination Hardware (27 11 19 00-0103)	
27 11 19 00-0123 EA Telephone Outlet Blocks.....	27.47	5.06
27 11 19 00-0124 EA Phone Outlet Block For Floor Box.....	83.82	38.37
Note: Excludes box.		
27 11 19 00-0125 EA Fiber Optic "SC" Type Modular Bulkhead.....	70.44	22.72
27 11 19 00-0126 EA Fiber Optic "ST" Type Modular Bulkhead.....	70.44	22.72
27 11 19 00-0127 EA Type "F" Coaxial Connector Male.....	41.76	15.15
27 11 19 00-0128 EA Modular Plate For 3-RJ-45, 4 - "SC" And 1 -"F" Connector.....	103.61	25.25
27 11 19 00-0129 EA Modular Plate For 3-RJ-45, 4 - "ST" And 1 -"F" Connector.....	103.61	25.25
27 11 19 00-0130 EA Access Floor Box With 3-RJ-45, 4 - "SC" And 1 -"F" Connector.....	123.39	25.25
27 11 19 00-0131 EA Access Floor Box With 3-RJ-45, 4 - "ST" And 1 -"F" Connector.....	123.39	25.25
27 11 19 00-0132 EA Access Floor Box With 2-RJ-45, 4 - "SC" And 1 -25 Pin Connector.....	112.98	25.25
27 11 19 00-0133 EA Terminal Type - Punch Down Block 110 Type - 300 Pair Category 5.....	952.31	126.22
27 11 19 00-0134 EA Wiring (Punch Down) Block with Stand-Off Legs, 100 Pair, Category V.....	48.96	10.10
Note: Excludes cable terminations.		
27 11 19 00-0135 EA 5-Pair, Connecting Block.....	3.00	1.01
27 11 19 00-0136 EA 4-Pair, Connecting Block.....	3.22	1.01
27 11 19 00-0137 EA Plastic Label Holder, Transparent.....	12.22	2.53
27 11 19 00-0138 EA Marked Label, White, 5-Pair.....	3.38	
27 11 19 00-0139 EA Marked Label, Blue, 4-Pair.....	3.38	
27 11 19 00-0140	Terminations in Manhole or Junction Box (27 11 19 00-0103)	
27 11 19 00-0141 EA 25 Pair Cable Termination In Manhole Or Junction Box.....	161.57	
27 11 19 00-0142 EA 50 Pair Cable Termination In Manhole Or Junction Box.....	323.14	
27 11 19 00-0143 EA 100 Pair Cable Termination In Manhole Or Junction Box.....	646.27	
27 11 19 00-0144 EA 150 Pair Cable Termination In Manhole Or Junction Box.....	969.42	
27 11 19 00-0145 EA 200 Pair Cable Termination In Manhole Or Junction Box.....	1,134.02	
27 11 19 00-0146 EA 300 Pair Cable Termination In Manhole Or Junction Box.....	1,700.52	
27 11 19 00-0147 EA 400 Pair Cable Termination In Manhole Or Junction Box.....	2,138.77	
27 11 19 00-0148 EA 500 Pair Cable Termination In Manhole Or Junction Box.....	2,673.97	
27 11 19 00-0149 EA 750 Pair Cable Termination In Manhole Or Junction Box.....	4,010.94	
27 11 19 00-0150 EA 1,000 Pair Cable Termination In Manhole Or Junction Box.....	4,864.22	
27 11 19 00-0151 EA 1,200 Pair Cable Termination In Manhole Or Junction Box.....	5,543.91	
27 11 23	Communications Cable Management and Ladder Rack (27 11)	
27 11 23 00-0001	Equipment Supports (27 11 23)	
27 11 23 00-0002 EA Environmental Enclosure, NEMA 4x SS, 6' Free Standing.....	21,184.24	795.70
27 11 23 00-0003 EA DVR Enclosure.....	1,531.67	198.90
27 11 23 00-0004 EA Wall Mount Type 4X Enclosure 24.00x30.00x8.00 Stainless Steel Type 316.....	5,560.33	397.82
27 11 23 00-0005 EA Panel, NEMA 12/27.00x21.00.....	422.33	99.45
27 11 23 00-0006 EA Panel, NEMA 12/8.75x6.88.....	121.21	99.45
27 11 23 00-0007 EA Clamp Assembly, Fast Opening, Stainless Steel Type 304.....	156.04	99.45
27 11 23 00-0008 EA Wall-Mount Type 4x Enclosure 24.00x30.00x8.00 Stainless Steel Type 316.....	4,864.15	99.45
27 11 23 00-0009 EA 12" x 5'-11" Tubular Runway.....	93.37	24.23
27 11 23 00-0010 EA 12" x 9'-11" Tubular Runway.....	161.05	40.40
27 11 23 00-0011 EA Shelf Bracket Support For Tubular Runway.....	29.62	7.57
27 11 23 00-0012 EA Straight Clamp Hardware For Tubular Runway.....	13.09	5.05
27 11 23 00-0013 EA Corner Clamp Hardware For Tubular Runway.....	13.83	5.05
27 11 23 00-0014 EA 90 Degree Edge Clamp Hardware For Tubular Runway.....	31.16	9.08
27 11 23 00-0015 EA Wall Angle Assembly Hardware For 12" Wide Tubular Runway.....	65.37	15.15
27 11 23 00-0016 EA J-Bolt Hardware For Tubular Runway.....	6.12	2.23
27 11 23 00-0017 EA T Bracket Hardware For Tubular Runway.....	34.10	12.62
27 11 23 00-0018 EA 110 Jumper Trough (Commscope 107831133).....	30.26	5.05
27 11 23 00-0019 LF Velcro CMP.....	2.40	1.01



Communications	27	27
Structured Cabling	27 10	
Communications Equipment Room Fittings	27 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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27 13 Communications Backbone Cabling (27 10)

27 13 13 Communications Copper Backbone Cabling (27 13)

27 13 13 13 Communications Copper Cable Splicing and Terminations (27 13 13)

27 13 13 13-0001 Building Entrance Terminals (27 13 13 13)

27 13 13 13-0002	EA	25 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	1,630.04	221.39
27 13 13 13-0003	EA	50 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	2,228.13	368.98
27 13 13 13-0004	EA	100 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	3,207.22	590.84

27 13 13 13-0005 Modular Plugs For Copper Communications Cable (27 13 13 13)

27 13 13 13-0006	EA	Modular Plug For Non-Shielded Copper Communications Cable.....	24.18	
Note: Up to 8-position/8-contact non-shielded modular plug for solid or stranded wire. Includes termination.				
For >5 To 10, Deduct			-3.02	
For >10, Deduct			-6.04	
27 13 13 13-0007	EA	Modular Plug For Shielded Copper Communications Cable.....	27.55	
Note: Up to 8-position/8-contact shielded modular plug for solid or stranded wire. Includes termination.				
For >5 To 10, Deduct			-3.40	
For >10, Deduct			-6.80	

27 13 13 13-0008 Testing And Certification Of Copper Communications Cable (27 13 13 13)

Note: Use for existing systems.				
27 13 13 13-0009	EA	Test 1-Pair Of A Copper Communications Cable For Continuity.....	5.05	
For >25-Pair, Deduct			-2.02	
27 13 13 13-0010	EA	Certify 1-Pair Of A Copper Communications Cable.....	7.57	
For >25-Pair, Deduct			-3.02	
27 13 13 13-0011	EA	Certify And Document 1-Pair Of A Copper Communications Cable.....	12.12	
For >25-Pair, Deduct			-4.84	
27 13 13 13-0012	EA	Test 4-Pair Cat 5-7 Telecommunications Cable For Continuity.....	20.19	
For >25-Pair, Deduct			-8.06	
27 13 13 13-0013	EA	Certify 4-Pair Cat 5-7 Telecommunications Cable.....	30.29	
For >25-Pair, Deduct			-12.08	
27 13 13 13-0014	EA	Certify And Document 4-Pair Cat 5-7 Telecommunications Cable.....	48.47	
For >25-Pair, Deduct			-19.34	

27 13 13 13-0015 Communications Termination Blocks (27 13 13 13)

27 13 13 13-0016	EA	100-Pair, 110 Block With Legs.....	46.75	12.62
27 13 13 13-0017	EA	300-Pair, 110 Block With Legs.....	78.01	12.62
27 13 13 13-0018	EA	Clear Label Holder For 110 Wiring Block.....	10.71	5.05
27 13 13 13-0019	EA	4-Pair, 110C Connecting Block.....	6.00	2.53
27 13 13 13-0020	EA	5-Pair, 110C Connecting Block.....	6.11	2.53
27 13 13 13-0021	EA	100-Pair, 110 Jack Panel System.....	245.72	15.15
Note: Includes twelve 8-pin modular jacks and mounting legs.				
27 13 13 13-0022	EA	300-Pair, 110 Jack Panel System.....	577.69	15.15
Note: Includes twelve 8-pin modular jacks and mounting legs.				

27 13 23 Communications Optical Fiber Backbone Cabling (27 13)

27 13 23 13 Communications Optical Fiber Splicing and Terminations (27 13 23)

27 13 23 13-0001 Fiber Optic Cable Connectors (27 13 23 13)

27 13 23 13-0002	EA	ST Connector For Multimode Fiber Optic Cable.....	28.35	
27 13 23 13-0003	EA	ST Connector For Singlemode Fiber Optic Cable.....	32.40	
27 13 23 13-0004	EA	SC Connector For Multimode Fiber Optic Cable.....	31.35	
27 13 23 13-0005	EA	SC Connector For Singlemode Fiber Optic Cable.....	36.52	
27 13 23 13-0006	EA	LC Connector For Multimode Fiber Optic Cable.....	42.63	
27 13 23 13-0007	EA	LC Connector For Singlemode Fiber Optic Cable.....	43.84	
27 13 23 13-0008	EA	MT-RJ Connector For Multimode Fiber Optic Cable.....	62.52	

27 13 23 13-0009 Fiber Optic Cable Fan Out Kits (27 13 23 13)

27 13 23 13-0010 Buffer Tube Fan Out Kits For Fiber Optic Cable (27 13 23 13-0009)

27 13 23 13-0011	EA	6-Fiber, Indoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	217.80	
27 13 23 13-0012	EA	12-Fiber, Indoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	220.82	
27 13 23 13-0013	EA	6-Fiber, Outdoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	246.36	
27 13 23 13-0014	EA	12-Fiber, Outdoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	265.51	

27 13 23 13-0015 Spider Fan Out Kits For Fiber Optic Cable (27 13 23 13-0009)

Note: For tight buffered or loose tube non-armored cables. Includes aramid yarn strength member, outer protective PVDF jacket and one meter fan out lengths.				
27 13 23 13-0016	EA	6-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	255.05	
27 13 23 13-0017	EA	12-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	275.34	
27 13 23 13-0018	EA	18-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	402.84	
27 13 23 13-0019	EA	24-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	524.11	

27	27 Communications
27 10	Structured Cabling
27 13	Communications Backbone Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 13 23 13-0020 Fiber Optic Cable Splice Closures <small>(27 13 23 13)</small> Note: Includes mounting hardware. Excludes splicing and splice trays.		
27 13 23 13-0021 EA Up To 144-Fiber Capacity, Pedestal Fiber Optic Cable Splice Closure	711.15	100.98
27 13 23 13-0022 EA Up To 144-Fiber Capacity, Underground Fiber Optic Cable Splice Closure	913.10	201.97
27 13 23 13-0023 EA Up To 144-Fiber Capacity, Aerial Fiber Optic Cable Splice Closure	913.10	201.97
27 13 23 13-0024 EA Up To 288-Fiber Capacity, Pedestal Fiber Optic Cable Splice Closure	1,171.88	100.98
27 13 23 13-0025 EA Up To 288-Fiber Capacity, Underground Fiber Optic Cable Splice Closure	1,373.83	201.97
27 13 23 13-0026 EA Up To 288-Fiber Capacity, Aerial Fiber Optic Cable Splice Closure	1,373.83	201.97
27 13 23 13-0027 EA Splice Tray For Fiber Optic Cable Splice Closure	50.92	12.62
Note: Up to 12-fiber, mechanical or fusion splice tray. Excludes splice.		
27 13 23 13-0028 Fiber Optic Cable Splicing <small>(27 13 23 13)</small>		
27 13 23 13-0029 EA Single Strand, Fusion Splice Of Fiber Optic Cable.....	30.29	
27 13 23 13-0030 EA 12-Strand Ribbon, Fusion Splice Of Fiber Optic Cable.....	100.98	
27 13 23 13-0031 Fiber Optic Cable Testing <small>(27 13 23 13)</small> Note: Price based on testing one wavelength.		
27 13 23 13-0032 Fiber Optic Cable Testing Using An OTDR <small>(27 13 23 13-0031)</small> Note: Testing using an optical time domain reflectometer.		
27 13 23 13-0033 EA Test 1-Strand Of Fiber Optic Cable Using A Single Directional OTDR Test	20.19	
For >12 To 48 Strands, Deduct	-1.51	
For >48 Strands, Deduct	-2.02	
27 13 23 13-0034 EA Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional OTDR Test.....	30.29	
For >12 To 48 Strands, Deduct	-2.27	
For >48 Strands, Deduct	-3.03	
27 13 23 13-0035 EA Test 1-Strand Of Fiber Optic Cable Using A Single Directional OTDR Test With Documentation	50.49	
For >12 To 48 Strands, Deduct	-3.79	
For >48 Strands, Deduct	-5.05	
27 13 23 13-0036 EA Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional OTDR Test With Documentation.....	75.73	
For >12 To 48 Strands, Deduct	-5.68	
For >48 Strands, Deduct	-7.57	
27 13 23 13-0037 Fiber Optic Cable Testing Using A Power Meter <small>(27 13 23 13-0031)</small>		
27 13 23 13-0038 EA Test 1-Strand Of Fiber Optic Cable Using A Single Directional Power Meter Test	20.19	
For >12 To 48 Strands, Deduct	-1.51	
For >48 Strands, Deduct	-2.02	
27 13 23 13-0039 EA Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional Power Meter Test	30.29	
For >12 To 48 Strands, Deduct	-2.27	
For >48 Strands, Deduct	-3.03	
27 13 23 13-0040 Fiber Optic Cable Light Source/Continuity Testing <small>(27 13 23 13-0031)</small>		
27 13 23 13-0041 EA Test 1-Strand Of Fiber Optic Cable Using A Light Source/Continuity Test	20.19	
For >12 To 48 Strands, Deduct	-1.51	
For >48 Strands, Deduct	-2.02	
27 13 23 13-0042 Other Fiber Optic Cable Equipment <small>(27 13 23 13)</small>		
27 13 23 13-0043 EA 8 Port Ethernet Switch	775.76	198.67
27 13 23 13-0044 EA 18 dBi Gain, 5.25-5.85 GHz Band, 18 Degree Beamwidth	1,067.25	198.67
Note: Patch antenna with 1 meter 3' SMA-N cable		
27 13 23 13-0045 EA Outdoor Multi Band 5.3 Or 5.8 GHz Wireless Ethernet Bridge.....	24,749.33	198.67
Note: 8 Volt DC input		
27 13 23 13-0046 EA UPS, 500 VA 300 Watt UPS For CCTV, Edco PA400-120U.....	253.84	24.88
27 13 23 13-0047 EA Hardened Ethernet Switch	2,634.42	99.45
27 13 23 13-0048 EA 1,440 Watt, 120 Volt AC Solar Power Station	68,163.77	2,386.89
27 13 23 13-0049 EA 2,880 Watt, 120 Volt AC Solar Power Station.....	84,721.95	3,182.52
27 13 23 13-0050 EA Fiber Break Out Box For 24 Fiber	1,153.72	198.90
27 13 23 13-0051 EA Fiber Optic MM Data (PTZ or SYNC) 1300 Video 850, 1 Fiber, RM	1,287.41	99.45
27 13 23 13-0052 EA Fiber Optic MM Data (PTZ or SYNC) 850 Video 850, 2 Fibers.....	1,083.31	99.45
27 13 23 13-0053 EA Fiber Optic 19" Rack, 115 Volt AC Input.....	1,386.86	149.18
27 13 23 13-0054 EA Commercial Gigabit Media Converter, Ethernet RJ45 to Fiber Optic, Shelf, Wall or Chassis Mount, 100 Volt AC - 260 Volt AC, Power Module Included. Gigabit Ports: 1 x 1000TX And 1 x 1000LX SM 20KM, (Etherwan Systems)	1,042.91	
27 13 23 13-0055 EA Media Converter Chassis (Etherwan Systems), 16 Slots for any Standard Size Media Converter, 19" Rack Mount Redundant Power Supplies, Power Option 100 Volt AC - 260 Volt AC.....	1,042.91	
27 13 23 13-0056 Other Fiber Optic Cable Splicing <small>(27 13 23 13)</small>		
27 13 23 13-0057 EA Fiber Optic Finger Splice.....	35.12	18.98
27 13 23 13-0058 EA Fiber Optic Splice Box - Manholes	5,548.93	

27 15 Communications Horizontal Cabling (27 10)

27 15 13 Communications Copper Horizontal Cabling (27 15)

Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				includes installation on exposed surfaces, uncovered wireways, cable trays, etc.		
27 15 13 00-001				Solid Conductor Low Voltage Cable (27 15 13)		
27 15 13 00-002				Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0001)		
27 15 13 00-003				#12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0002)		
27 15 13 00-004	MLF			1 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,029.77	913.24
				<i>For #10 AWG, Add</i>	471.94	
				<i>For Work In Restricted Working Space, Add</i>	456.66	
27 15 13 00-005	MLF			2 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,512.99	945.52
				<i>For #10 AWG, Add</i>	624.36	
				<i>For Work In Restricted Working Space, Add</i>	472.91	
27 15 13 00-006	MLF			3 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,935.70	978.73
				<i>For #10 AWG, Add</i>	756.78	
				<i>For Work In Restricted Working Space, Add</i>	489.23	
27 15 13 00-007	MLF			4 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,383.48	1,011.94
				<i>For #10 AWG, Add</i>	897.23	
				<i>For Work In Restricted Working Space, Add</i>	506.12	
27 15 13 00-008	MLF			5 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,865.55	1,080.20
				<i>For #10 AWG, Add</i>	1,041.52	
				<i>For Work In Restricted Working Space, Add</i>	540.26	
27 15 13 00-009	MLF			6 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,304.34	1,147.55
				<i>For #10 AWG, Add</i>	1,171.73	
				<i>For Work In Restricted Working Space, Add</i>	573.92	
27 15 13 00-010	MLF			8 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,657.84	1,284.07
				<i>For #10 AWG, Add</i>	1,258.92	
				<i>For Work In Restricted Working Space, Add</i>	641.91	
27 15 13 00-011	MLF			12 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,178.17	1,692.72
				<i>For #10 AWG, Add</i>	1,672.11	
				<i>For Work In Restricted Working Space, Add</i>	846.20	
27 15 13 00-012	MLF			24 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	9,201.66	2,499.88
				<i>For #10 AWG, Add</i>	2,495.05	
				<i>For Work In Restricted Working Space, Add</i>	1,249.62	
27 15 13 00-013				#14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0002)		
27 15 13 00-014	MLF			1 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,816.09	798.86
				<i>For Work In Restricted Working Space, Add</i>	399.34	
27 15 13 00-015	MLF			2 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,274.01	827.45
				<i>For Work In Restricted Working Space, Add</i>	413.72	
27 15 13 00-016	MLF			3 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,673.87	856.05
				<i>For Work In Restricted Working Space, Add</i>	428.12	
27 15 13 00-017	MLF			4 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,096.79	885.57
				<i>For Work In Restricted Working Space, Add</i>	442.78	
27 15 13 00-018	MLF			5 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,548.30	945.52
				<i>For Work In Restricted Working Space, Add</i>	472.67	
27 15 13 00-019	MLF			6 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,958.12	1,004.56
				<i>For Work In Restricted Working Space, Add</i>	502.01	
27 15 13 00-020	MLF			8 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,278.59	1,123.57
				<i>For Work In Restricted Working Space, Add</i>	561.78	
27 15 13 00-021	MLF			12 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,675.58	1,480.55
				<i>For Work In Restricted Working Space, Add</i>	740.28	
27 15 13 00-022	MLF			24 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	8,457.56	2,187.17
				<i>For Work In Restricted Working Space, Add</i>	1,093.67	
27 15 13 00-023				#16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0002)		
27 15 13 00-024	MLF			1 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,616.11	713.06
				<i>For Work In Restricted Working Space, Add</i>	356.72	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0025 MLF 2 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	1,916.77 369.45	738.89
27 15 13 00-0026 MLF 3 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,371.87 382.18	764.72
27 15 13 00-0027 MLF 4 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,745.52 395.46	790.55
27 15 13 00-0028 MLF 5 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	3,143.95 422.03	844.05
27 15 13 00-0029 MLF 6 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	3,506.37 448.32	896.63
27 15 13 00-0030 MLF 7 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	3,648.29 474.89	950.14
27 15 13 00-0031 MLF 8 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	3,791.14 501.73	1,003.64
27 15 13 00-0032 MLF 9 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	4,250.34 533.55	1,067.29
27 15 13 00-0033 MLF 12 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	5,028.26 660.99	1,321.89
27 15 13 00-0034 MLF 24 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	7,492.35 976.48	1,952.86
27 15 13 00-0035 #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0002)		
27 15 13 00-0036 MLF 1 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	1,347.63 313.82	628.20
27 15 13 00-0037 MLF 2 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	1,640.34 325.17	650.34
27 15 13 00-0038 MLF 3 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	1,896.98 336.52	672.48
27 15 13 00-0039 MLF 4 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,167.36 347.86	695.54
27 15 13 00-0040 MLF 5 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,464.55 371.38	742.58
27 15 13 00-0041 MLF 6 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,736.07 394.63	788.70
27 15 13 00-0042 MLF 8 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,967.35 441.40	882.80
27 15 13 00-0043 MLF 12 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	3,933.70 581.71	1,163.23
27 15 13 00-0044 MLF 24 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	5,856.26 859.27	1,718.55
27 15 13 00-0045 #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0002)		
27 15 13 00-0046 MLF 1 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	1,182.79 285.32	571.01
27 15 13 00-0047 MLF 2 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	1,414.08 295.56	591.30
27 15 13 00-0048 MLF 3 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	1,615.10 305.80	612.06
27 15 13 00-0049 MLF 4 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	1,826.73 316.31	632.81
27 15 13 00-0050 MLF 5 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,067.58 337.49	675.25
27 15 13 00-0051 MLF 6 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,287.24 358.65	717.68



Communications	27
Structured Cabling	27 10
Communications Horizontal Cabling	27 15

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0052	MLF		8 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,503.96	802.55
			<i>For Work In Restricted Working Space, Add</i>	401.27	
27 15 13 00-0053	MLF		12 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,295.70	1,058.07
			<i>For Work In Restricted Working Space, Add</i>	528.85	
27 15 13 00-0054	MLF		24 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,903.42	1,562.65
			<i>For Work In Restricted Working Space, Add</i>	781.23	
27 15 13 00-0055	MLF		25 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,224.71	1,599.56
			<i>For Work In Restricted Working Space, Add</i>	799.78	
27 15 13 00-0056	MLF		36 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,239.52	1,862.46
			<i>For Work In Restricted Working Space, Add</i>	931.23	
27 15 13 00-0057	MLF		40 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,695.99	1,993.45
			<i>For Work In Restricted Working Space, Add</i>	996.81	
27 15 13 00-0058	MLF		50 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,972.17	2,491.58
			<i>For Work In Restricted Working Space, Add</i>	1,245.60	
27 15 13 00-0059	MLF		100 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	10,872.40	3,280.29
			<i>For Work In Restricted Working Space, Add</i>	1,639.95	
27 15 13 00-0060			#22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0002)</small>		
27 15 13 00-0061	MLF		1 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	977.28	513.82
			<i>For Work In Restricted Working Space, Add</i>	256.82	
27 15 13 00-0062	MLF		2 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,052.38	532.26
			<i>For Work In Restricted Working Space, Add</i>	265.95	
27 15 13 00-0063	MLF		3 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,145.42	550.71
			<i>For Work In Restricted Working Space, Add</i>	275.36	
27 15 13 00-0064	MLF		4 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,246.95	569.17
			<i>For Work In Restricted Working Space, Add</i>	284.76	
27 15 13 00-0065	MLF		5 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,394.83	607.90
			<i>For Work In Restricted Working Space, Add</i>	303.86	
27 15 13 00-0066	MLF		6 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,544.94	643.88
			<i>For Work In Restricted Working Space, Add</i>	322.13	
27 15 13 00-0067			Triad <small>(27 15 13 00-0002)</small>		
27 15 13 00-0068	MLF		1 Triad #16 AWG, Stranded, Low Voltage, Installed In Conduit.....	1,889.72	764.72
27 15 13 00-0069	MLF		4 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit.....	2,503.35	1,058.07
27 15 13 00-0070	MLF		8 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit.....	3,851.30	1,562.65
27 15 13 00-0071	MLF		12 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit.....	4,741.03	1,862.46
27 15 13 00-0072	MLF		24 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit.....	7,653.96	2,885.47
27 15 13 00-0073	MLF		36 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit.....	8,779.34	3,280.29
27 15 13 00-0074			Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0001)</small>		
27 15 13 00-0075			#12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0074)</small>		
27 15 13 00-0076	MLF		1 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,551.96	1,826.48
			<i>For #10 AWG, Add</i>	776.38	
			<i>For Work In Restricted Working Space, Add</i>	913.32	
27 15 13 00-0077	MLF		2 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,089.33	1,891.06
			<i>For #10 AWG, Add</i>	939.63	
			<i>For Work In Restricted Working Space, Add</i>	945.81	
27 15 13 00-0078	MLF		3 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,566.46	1,957.47
			<i>For #10 AWG, Add</i>	1,082.93	
			<i>For Work In Restricted Working Space, Add</i>	978.46	
27 15 13 00-0079	MLF		4 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,070.58	2,023.89
			<i>For #10 AWG, Add</i>	1,234.65	
			<i>For Work In Restricted Working Space, Add</i>	1,012.25	
27 15 13 00-0080	MLF		5 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,666.43	2,160.42
			<i>For #10 AWG, Add</i>	1,401.69	
			<i>For Work In Restricted Working Space, Add</i>	1,080.53	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0081 MLF 6 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,217.42	2,295.10
For #10 AWG, Add	1,554.35	
For Work In Restricted Working Space, Add	1,147.85	
27 15 13 00-0082 MLF 8 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,797.56	2,568.14
For #10 AWG, Add	1,686.87	
For Work In Restricted Working Space, Add	1,283.83	
27 15 13 00-0083 MLF 12 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	8,998.83	3,385.45
For #10 AWG, Add	2,236.24	
For Work In Restricted Working Space, Add	1,692.40	
27 15 13 00-0084 MLF 24 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	13,367.05	4,999.76
For #10 AWG, Add	3,328.12	
For Work In Restricted Working Space, Add	2,499.24	
27 15 13 00-0085 #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0074)		
27 15 13 00-0086 MLF 1 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,147.21	1,597.71
For Work In Restricted Working Space, Add	798.67	
27 15 13 00-0087 MLF 2 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,653.10	1,654.91
For Work In Restricted Working Space, Add	827.45	
27 15 13 00-0088 MLF 3 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,100.93	1,712.10
For Work In Restricted Working Space, Add	856.23	
27 15 13 00-0089 MLF 4 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,572.74	1,771.13
For Work In Restricted Working Space, Add	885.57	
27 15 13 00-0090 MLF 5 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,123.87	1,891.06
For Work In Restricted Working Space, Add	945.34	
27 15 13 00-0091 MLF 6 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,631.47	2,009.12
For Work In Restricted Working Space, Add	1,004.01	
27 15 13 00-0092 MLF 8 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,151.20	2,247.12
For Work In Restricted Working Space, Add	1,123.56	
27 15 13 00-0093 MLF 12 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	8,143.17	2,961.12
For Work In Restricted Working Space, Add	1,480.55	
27 15 13 00-0094 MLF 24 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	12,103.15	4,374.33
For Work In Restricted Working Space, Add	2,187.35	
27 15 13 00-0095 #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0074)		
27 15 13 00-0096 MLF 1 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,805.18	1,426.13
For Work In Restricted Working Space, Add	713.44	
27 15 13 00-0097 MLF 2 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,148.26	1,477.79
For Work In Restricted Working Space, Add	738.89	
27 15 13 00-0098 MLF 3 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,645.80	1,529.44
For Work In Restricted Working Space, Add	764.36	
27 15 13 00-0099 MLF 4 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,063.73	1,581.11
For Work In Restricted Working Space, Add	790.92	
27 15 13 00-0100 MLF 5 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,550.71	1,688.11
For Work In Restricted Working Space, Add	844.06	
27 15 13 00-0101 MLF 6 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,000.76	1,793.28
For Work In Restricted Working Space, Add	896.64	
27 15 13 00-0102 MLF 7 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,231.24	1,900.28
For Work In Restricted Working Space, Add	949.77	
27 15 13 00-0103 MLF 8 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,463.57	2,007.28
For Work In Restricted Working Space, Add	1,003.46	
27 15 13 00-0104 MLF 9 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,028.85	2,134.59
For Work In Restricted Working Space, Add	1,067.11	
27 15 13 00-0105 MLF 12 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	7,231.56	2,643.79
For Work In Restricted Working Space, Add	1,321.98	
27 15 13 00-0106 MLF 24 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	10,747.27	3,905.72
For Work In Restricted Working Space, Add	1,952.95	



Communications	27
Structured Cabling	27 10
Communications Horizontal Cabling	27 15

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0107 #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0074)</small>		
27 15 13 00-0108 MLF 1 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,393.70	1,256.40
For Work In Restricted Working Space, Add	627.65	
27 15 13 00-0109 MLF 2 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,724.24	1,300.68
For Work In Restricted Working Space, Add	650.34	
27 15 13 00-0110 MLF 3 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,018.70	1,344.95
For Work In Restricted Working Space, Add	673.03	
27 15 13 00-0111 MLF 4 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,326.90	1,391.08
For Work In Restricted Working Space, Add	695.72	
27 15 13 00-0112 MLF 5 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,702.51	1,485.17
For Work In Restricted Working Space, Add	742.77	
27 15 13 00-0113 MLF 6 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,051.50	1,577.42
For Work In Restricted Working Space, Add	789.26	
27 15 13 00-0114 MLF 8 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,438.67	1,765.60
For Work In Restricted Working Space, Add	882.80	
27 15 13 00-0115 MLF 12 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,872.72	2,326.45
For Work In Restricted Working Space, Add	1,163.41	
27 15 13 00-0116 MLF 24 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	8,720.51	3,437.11
For Work In Restricted Working Space, Add	1,718.55	
27 15 13 00-0117 #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0074)</small>		
27 15 13 00-0118 MLF 1 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,133.85	1,142.01
For Work In Restricted Working Space, Add	570.64	
27 15 13 00-0119 MLF 2 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,399.28	1,182.61
For Work In Restricted Working Space, Add	591.12	
27 15 13 00-0120 MLF 3 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,634.42	1,224.11
For Work In Restricted Working Space, Add	611.60	
27 15 13 00-0121 MLF 4 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,881.12	1,265.62
For Work In Restricted Working Space, Add	632.63	
27 15 13 00-0122 MLF 5 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,192.52	1,350.49
For Work In Restricted Working Space, Add	674.97	
27 15 13 00-0123 MLF 6 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,482.76	1,435.36
For Work In Restricted Working Space, Add	717.31	
27 15 13 00-0124 MLF 8 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,841.53	1,605.09
For Work In Restricted Working Space, Add	802.55	
27 15 13 00-0125 MLF 12 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,058.53	2,116.13
For Work In Restricted Working Space, Add	1,057.70	
27 15 13 00-0126 MLF 24 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	7,507.53	3,125.31
For Work In Restricted Working Space, Add	1,562.47	
27 15 13 00-0127 MLF 25 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	7,890.62	3,199.11
For Work In Restricted Working Space, Add	1,599.55	
27 15 13 00-0128 MLF 36 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	9,343.63	3,724.92
For Work In Restricted Working Space, Add	1,862.46	
27 15 13 00-0129 MLF 40 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	10,018.70	3,986.89
For Work In Restricted Working Space, Add	1,993.63	
27 15 13 00-0130 MLF 50 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	12,124.17	4,983.16
For Work In Restricted Working Space, Add	2,491.20	
27 15 13 00-0131 MLF 100 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	16,338.88	6,560.57
For Work In Restricted Working Space, Add	3,279.89	
27 15 13 00-0132 #22 AWG, Shielded, Low Voltage Cable, Installed Exposed <small>(27 15 13 00-0074)</small>		
27 15 13 00-0133 MLF 1 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	1,833.33	1,027.62
For Work In Restricted Working Space, Add	513.63	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0134 MLF 2 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	1,938.87 531.89	1,064.53
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0135 MLF 3 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,063.28 550.71	1,101.43
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0136 MLF 4 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,196.18 569.53	1,138.32
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0137 MLF 5 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,407.70 607.72	1,215.81
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0138 MLF 6 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,618.69 644.25	1,287.77
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0139 Triad, Installed Exposed <small>(27 15 13 00-0074)</small>		
27 15 13 00-0140 MLF 1 Triad, #16 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	1,889.72	764.72
27 15 13 00-0141 MLF 4 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	2,503.35	1,058.07
27 15 13 00-0142 MLF 8 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	3,851.30	1,562.65
27 15 13 00-0143 MLF 12 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	4,741.03	1,862.46
27 15 13 00-0144 MLF 24 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	7,653.96	2,885.47
27 15 13 00-0145 MLF 36 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	8,779.34	3,280.29
27 15 13 00-0146 Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0001)</small>		
27 15 13 00-0147 #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0146)</small>		
27 15 13 00-0148 MLF 1 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,581.07 399.34	798.86
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0149 MLF 2 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,840.33 413.72	827.45
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0150 MLF 3 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,069.66 428.12	856.05
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0151 MLF 4 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,311.33 442.78	885.57
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0152 MLF 5 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,590.47 472.12	944.60
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0153 MLF 6 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,850.00 501.73	1,003.64
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0154 MLF 8 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,112.64 561.78	1,123.57
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0155 MLF 12 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,120.98 740.28	1,480.55
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0156 MLF 24 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,125.67 1,093.67	2,187.17
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0157 #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0146)</small>		
27 15 13 00-0158 MLF 1 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,409.16 356.72	713.06
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0159 MLF 2 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,637.66 369.45	738.89
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0160 MLF 3 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,839.80 382.18	764.72
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0161 MLF 4 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,053.84 395.46	790.55
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0162 MLF 5 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,301.18 421.75	843.13
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0163 MLF 6 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,531.36 448.32	896.63
<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0164 MLF 7 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,647.43 474.89	950.14
<i>For Work In Restricted Working Space, Add</i>		



Communications	27	27
Structured Cabling	27 10	
Communications Horizontal Cabling	27 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0165 MLF 8 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,835.00	1,003.64
<i>For Work In Restricted Working Space, Add</i>	<i>501.73</i>	
27 15 13 00-0166 MLF 9 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,134.75	1,067.29
<i>For Work In Restricted Working Space, Add</i>	<i>533.53</i>	
27 15 13 00-0167 MLF 12 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,659.29	1,321.89
<i>For Work In Restricted Working Space, Add</i>	<i>660.99</i>	
27 15 13 00-0168 MLF 24 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,439.33	1,952.86
<i>For Work In Restricted Working Space, Add</i>	<i>976.61</i>	
27 15 13 00-0169 #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0146)		
27 15 13 00-0170 MLF 1 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,229.78	627.27
<i>For Work In Restricted Working Space, Add</i>	<i>313.82</i>	
27 15 13 00-0171 MLF 2 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,413.28	650.34
<i>For Work In Restricted Working Space, Add</i>	<i>325.17</i>	
27 15 13 00-0172 MLF 3 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,527.13	673.40
<i>For Work In Restricted Working Space, Add</i>	<i>336.52</i>	
27 15 13 00-0173 MLF 4 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,678.97	695.54
<i>For Work In Restricted Working Space, Add</i>	<i>347.86</i>	
27 15 13 00-0174 MLF 5 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,858.72	742.58
<i>For Work In Restricted Working Space, Add</i>	<i>371.38</i>	
27 15 13 00-0175 MLF 6 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,037.57	789.63
<i>For Work In Restricted Working Space, Add</i>	<i>394.63</i>	
27 15 13 00-0176 MLF 8 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,459.53	882.80
<i>For Work In Restricted Working Space, Add</i>	<i>441.40</i>	
27 15 13 00-0177 MLF 12 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,192.50	1,163.23
<i>For Work In Restricted Working Space, Add</i>	<i>581.71</i>	
27 15 13 00-0178 MLF 24 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,233.32	1,718.55
<i>For Work In Restricted Working Space, Add</i>	<i>859.27</i>	
27 15 13 00-0179 #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0146)		
27 15 13 00-0180 MLF 1 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,080.73	571.01
<i>For Work In Restricted Working Space, Add</i>	<i>285.32</i>	
27 15 13 00-0181 MLF 2 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,206.24	591.30
<i>For Work In Restricted Working Space, Add</i>	<i>295.56</i>	
27 15 13 00-0182 MLF 3 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,428.78	673.40
<i>For Work In Restricted Working Space, Add</i>	<i>336.52</i>	
27 15 13 00-0183 MLF 4 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,577.91	707.90
<i>For Work In Restricted Working Space, Add</i>	<i>353.95</i>	
27 15 13 00-0184 MLF 5 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,723.77	742.58
<i>For Work In Restricted Working Space, Add</i>	<i>371.38</i>	
27 15 13 00-0185 MLF 6 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,878.11	789.63
<i>For Work In Restricted Working Space, Add</i>	<i>394.63</i>	
27 15 13 00-0186 MLF 8 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,066.03	878.74
<i>For Work In Restricted Working Space, Add</i>	<i>439.46</i>	
27 15 13 00-0187 MLF 12 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,552.87	1,058.07
<i>For Work In Restricted Working Space, Add</i>	<i>528.85</i>	
27 15 13 00-0188 MLF 24 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,789.17	1,562.65
<i>For Work In Restricted Working Space, Add</i>	<i>781.23</i>	
27 15 13 00-0189 MLF 25 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,984.72	1,599.56
<i>For Work In Restricted Working Space, Add</i>	<i>799.78</i>	
27 15 13 00-0190 MLF 36 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,720.09	1,862.46
<i>For Work In Restricted Working Space, Add</i>	<i>931.23</i>	
27 15 13 00-0191 MLF 40 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,061.29	1,993.45
<i>For Work In Restricted Working Space, Add</i>	<i>996.81</i>	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0192 MLF 50 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,120.90	2,491.58
<i>For Work In Restricted Working Space, Add</i>	1,245.60	
27 15 13 00-0193 MLF 100 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	8,252.69	3,280.29
<i>For Work In Restricted Working Space, Add</i>	1,639.95	
27 15 13 00-0194 #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0146)		
27 15 13 00-0195 MLF 1 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	942.02	513.82
<i>For Work In Restricted Working Space, Add</i>	256.82	
27 15 13 00-0196 MLF 2 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,004.13	532.26
<i>For Work In Restricted Working Space, Add</i>	265.95	
27 15 13 00-0197 MLF 3 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,085.12	550.71
<i>For Work In Restricted Working Space, Add</i>	275.36	
27 15 13 00-0198 MLF 4 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,173.46	569.17
<i>For Work In Restricted Working Space, Add</i>	284.76	
27 15 13 00-0199 MLF 5 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,290.42	607.90
<i>For Work In Restricted Working Space, Add</i>	303.86	
27 15 13 00-0200 MLF 6 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,416.14	643.88
<i>For Work In Restricted Working Space, Add</i>	322.13	
27 15 13 00-0201 Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0001)		
27 15 13 00-0202 #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0201)		
27 15 13 00-0203 MLF 1 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,912.19	1,597.71
<i>For Work In Restricted Working Space, Add</i>	798.67	
27 15 13 00-0204 MLF 2 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,219.42	1,654.91
<i>For Work In Restricted Working Space, Add</i>	827.45	
27 15 13 00-0205 MLF 3 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,496.72	1,712.10
<i>For Work In Restricted Working Space, Add</i>	856.23	
27 15 13 00-0206 MLF 4 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,787.28	1,771.13
<i>For Work In Restricted Working Space, Add</i>	885.57	
27 15 13 00-0207 MLF 5 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,164.20	1,889.21
<i>For Work In Restricted Working Space, Add</i>	944.24	
27 15 13 00-0208 MLF 6 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,522.43	2,007.28
<i>For Work In Restricted Working Space, Add</i>	1,003.46	
27 15 13 00-0209 MLF 8 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,985.25	2,247.12
<i>For Work In Restricted Working Space, Add</i>	1,123.56	
27 15 13 00-0210 MLF 12 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,588.57	2,961.12
<i>For Work In Restricted Working Space, Add</i>	1,480.55	
27 15 13 00-0211 MLF 24 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	9,771.26	4,374.33
<i>For Work In Restricted Working Space, Add</i>	2,187.35	
27 15 13 00-0212 #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0201)		
27 15 13 00-0213 MLF 1 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,598.23	1,426.13
<i>For Work In Restricted Working Space, Add</i>	713.44	
27 15 13 00-0214 MLF 2 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,869.15	1,477.79
<i>For Work In Restricted Working Space, Add</i>	738.89	
27 15 13 00-0215 MLF 3 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,113.73	1,529.44
<i>For Work In Restricted Working Space, Add</i>	764.36	
27 15 13 00-0216 MLF 4 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,372.05	1,581.11
<i>For Work In Restricted Working Space, Add</i>	790.92	
27 15 13 00-0217 MLF 5 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,707.01	1,686.27
<i>For Work In Restricted Working Space, Add</i>	843.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0218 MLF 6 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,025.75 896.64	1,793.28
27 15 13 00-0219 MLF 7 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,230.38 949.77	1,900.28
27 15 13 00-0220 MLF 8 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,507.43 1,003.46	2,007.28
27 15 13 00-0221 MLF 9 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,913.17 1,067.05	2,134.59
27 15 13 00-0222 MLF 12 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,862.59 1,321.98	2,643.79
27 15 13 00-0223 MLF 24 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	8,694.70 1,953.22	3,905.72
27 15 13 00-0224 #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0201)</small>		
27 15 13 00-0225 MLF 1 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,275.85 627.65	1,254.55
27 15 13 00-0226 MLF 2 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,497.18 650.34	1,300.68
27 15 13 00-0227 MLF 3 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,648.85 673.03	1,346.80
27 15 13 00-0228 MLF 4 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,838.51 695.72	1,391.08
27 15 13 00-0229 MLF 5 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,096.68 742.77	1,485.17
27 15 13 00-0230 MLF 6 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,353.00 789.26	1,579.26
27 15 13 00-0231 MLF 8 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,930.85 882.80	1,765.60
27 15 13 00-0232 MLF 12 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,131.52 1,163.41	2,326.45
27 15 13 00-0233 MLF 24 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	7,097.57 1,718.55	3,437.11
27 15 13 00-0234 #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0201)</small>		
27 15 13 00-0235 MLF 1 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,031.79 570.64	1,142.01
27 15 13 00-0236 MLF 2 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,191.44 591.12	1,182.61
27 15 13 00-0237 MLF 3 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,550.50 673.03	1,346.80
27 15 13 00-0238 MLF 4 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,757.73 707.90	1,415.80
27 15 13 00-0239 MLF 5 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,961.73 742.77	1,485.17
27 15 13 00-0240 MLF 6 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,193.54 789.26	1,579.26
27 15 13 00-0241 MLF 8 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,530.90 878.93	1,757.48
27 15 13 00-0242 MLF 12 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,315.70 1,057.70	2,116.13
27 15 13 00-0243 MLF 24 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,393.28 1,562.47	3,125.31
27 15 13 00-0244 MLF 25 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,650.63 1,599.55	3,199.11

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0245 MLF 36 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	7,824.20	3,724.92
<i>For Work In Restricted Working Space, Add</i>	1,862.46	
27 15 13 00-0246 MLF 40 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	8,384.00	3,986.89
<i>For Work In Restricted Working Space, Add</i>	1,993.63	
27 15 13 00-0247 MLF 50 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	10,272.90	4,983.16
<i>For Work In Restricted Working Space, Add</i>	2,491.20	
27 15 13 00-0248 MLF 100 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	13,719.17	6,560.57
<i>For Work In Restricted Working Space, Add</i>	3,279.89	
27 15 13 00-0249 #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0201)		
27 15 13 00-0250 MLF 1 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	1,798.07	1,027.62
<i>For Work In Restricted Working Space, Add</i>	513.63	
27 15 13 00-0251 MLF 2 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	1,890.62	1,064.53
<i>For Work In Restricted Working Space, Add</i>	531.89	
27 15 13 00-0252 MLF 3 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,002.98	1,101.43
<i>For Work In Restricted Working Space, Add</i>	550.71	
27 15 13 00-0253 MLF 4 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,122.69	1,138.32
<i>For Work In Restricted Working Space, Add</i>	569.53	
27 15 13 00-0254 MLF 5 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,303.29	1,215.81
<i>For Work In Restricted Working Space, Add</i>	607.72	
27 15 13 00-0255 MLF 6 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,489.89	1,287.77
<i>For Work In Restricted Working Space, Add</i>	644.25	
27 15 13 00-0256 Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench (27 15 13 00-0001)		
<i>Note: Excludes excavation.</i>		
27 15 13 00-0257 MLF 1 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench.....	1,737.92	
27 15 13 00-0258 MLF 2 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench.....	2,191.84	
27 15 13 00-0259 MLF 3 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench.....	2,588.86	
27 15 13 00-0260 MLF 4 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench.....	3,009.60	
27 15 13 00-0261 MLF 5 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench.....	3,454.76	
27 15 13 00-0262 MLF 6 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench.....	3,859.34	
27 15 13 00-0263 Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial) (27 15 13 00-0001)		
27 15 13 00-0264 MLF 1 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial).....	1,822.11	506.30
27 15 13 00-0265 MLF 2 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial).....	2,327.58	542.43
27 15 13 00-0266 MLF 3 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial).....	3,057.84	685.74
27 15 13 00-0267 MLF 4 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial).....	3,715.58	793.14
27 15 13 00-0268 MLF 5 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial).....	6,081.14	904.01
27 15 13 00-0269 MLF 6 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial).....	7,328.09	1,154.94
27 15 13 00-0270 Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0001)		
27 15 13 00-0271 MLF 1 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,371.98	713.06
27 15 13 00-0272 MLF 2 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,663.06	738.89
27 15 13 00-0273 MLF 3 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,867.76	764.72
27 15 13 00-0274 MLF 4 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,976.78	790.55
27 15 13 00-0275 MLF 5 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,377.80	843.13
27 15 13 00-0276 MLF 6 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,573.33	896.63
27 15 13 00-0277 MLF 8 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,226.09	1,003.64
27 15 13 00-0278 MLF 12 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,004.25	1,321.89
27 15 13 00-0279 MLF 24 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,082.17	1,952.86
27 15 13 00-0280 MLF 1 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,184.80	627.27
27 15 13 00-0281 MLF 2 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,423.72	650.34



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0282 MLF 3 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,621.23	673.40
27 15 13 00-0283 MLF 4 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,718.60	695.54
27 15 13 00-0284 MLF 5 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,061.09	742.58
27 15 13 00-0285 MLF 6 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,316.62	789.63
27 15 13 00-0286 MLF 8 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,617.09	882.80
27 15 13 00-0287 MLF 12 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,380.54	1,163.23
27 15 13 00-0288 MLF 24 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,407.18	1,718.55
27 15 13 00-0289 MLF 1 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,046.01	571.01
27 15 13 00-0290 MLF 2 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,197.52	591.30
27 15 13 00-0291 MLF 3 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,344.35	611.59
27 15 13 00-0292 MLF 4 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,436.74	632.81
27 15 13 00-0293 MLF 5 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,565.14	675.25
27 15 13 00-0294 MLF 6 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,709.83	717.68
27 15 13 00-0295 MLF 8 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,915.02	802.55
27 15 13 00-0296 MLF 12 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,643.24	1,058.07
27 15 13 00-0297 MLF 24 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,018.36	1,562.65
27 15 13 00-0298 MLF 25 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,239.66	1,599.56
27 15 13 00-0299 MLF 36 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,005.88	1,862.46
27 15 13 00-0300 MLF 40 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,397.55	1,993.45
27 15 13 00-0301 MLF 50 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,501.70	2,491.58
27 15 13 00-0302 MLF 100 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	8,791.55	3,280.29
27 15 13 00-0303 MLF 250 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	17,006.47	6,042.15
27 15 13 00-0304 MLF 500 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	25,717.51	7,995.93
27 15 13 00-0305 MLF 750 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	34,459.03	10,076.09
27 15 13 00-0306 MLF 1200 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	48,542.52	13,821.30
27 15 13 00-0307 MLF 1 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,011.80	571.01
27 15 13 00-0308 MLF 2 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,121.01	591.30
27 15 13 00-0309 MLF 3 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,227.24	611.59
27 15 13 00-0310 MLF 4 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,298.96	632.81
27 15 13 00-0311 MLF 5 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,406.70	675.25
27 15 13 00-0312 MLF 6 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,524.51	717.68
27 15 13 00-0313 MLF 8 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,706.95	802.55
27 15 13 00-0314 MLF 12 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,326.01	1,058.07
27 15 13 00-0315 MLF 24 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,508.77	1,562.65
27 15 13 00-0316 MLF 25 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,672.61	1,599.56
27 15 13 00-0317 MLF 36 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,337.74	1,862.46
27 15 13 00-0318 MLF 40 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,649.93	1,993.45
27 15 13 00-0319 MLF 50 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,655.04	2,491.58
27 15 13 00-0320 MLF 100 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	7,593.46	3,280.29
27 15 13 00-0321 MLF 250 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	14,471.00	6,042.15
27 15 13 00-0322 MLF 500 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	21,241.10	7,995.93
27 15 13 00-0323 MLF 750 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	28,078.38	10,076.09

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0324 MLF 1200 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	39,330.90	13,821.30
27 15 13 00-0325 Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0001)</small>		
27 15 13 00-0326 MLF 1 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,454.75	713.06
27 15 13 00-0327 MLF 2 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,707.92	738.89
27 15 13 00-0328 MLF 3 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,860.30	764.72
27 15 13 00-0329 MLF 4 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,068.57	790.55
27 15 13 00-0330 MLF 5 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,304.65	843.13
27 15 13 00-0331 MLF 6 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,538.88	896.63
27 15 13 00-0332 MLF 8 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,101.72	1,003.64
27 15 13 00-0333 MLF 12 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,017.87	1,321.89
27 15 13 00-0334 MLF 24 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,004.00	1,952.86
27 15 13 00-0335 MLF 1 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,271.93	627.27
27 15 13 00-0336 MLF 2 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,488.85	650.34
27 15 13 00-0337 MLF 3 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,620.14	673.40
27 15 13 00-0338 MLF 4 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,798.15	695.54
27 15 13 00-0339 MLF 5 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,001.15	742.58
27 15 13 00-0340 MLF 6 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,203.26	789.63
27 15 13 00-0341 MLF 8 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,686.24	882.80
27 15 13 00-0342 MLF 12 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,481.01	1,163.23
27 15 13 00-0343 MLF 24 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,200.58	1,718.55
27 15 13 00-0344 MLF 1 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,110.48	571.01
27 15 13 00-0345 MLF 2 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,296.70	591.30
27 15 13 00-0346 MLF 3 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,424.29	611.59
27 15 13 00-0347 MLF 4 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,663.45	632.81
27 15 13 00-0348 MLF 5 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,862.04	675.25
27 15 13 00-0349 MLF 6 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,262.71	717.68
27 15 13 00-0350 MLF 8 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,528.65	802.55
27 15 13 00-0351 MLF 12 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,173.79	1,058.07
27 15 13 00-0352 MLF 24 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,803.02	1,562.65
27 15 13 00-0353 MLF 25 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,111.52	1,599.56
27 15 13 00-0354 MLF 36 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,101.05	1,862.46
27 15 13 00-0355 MLF 40 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,547.02	1,993.45
27 15 13 00-0356 MLF 50 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	7,803.43	2,491.58
27 15 13 00-0357 MLF 100 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	10,633.64	3,280.29
27 15 13 00-0358 MLF 250 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	20,905.27	6,042.15
27 15 13 00-0359 MLF 500 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	32,600.76	7,995.93
27 15 13 00-0360 MLF 750 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	44,269.28	10,076.09
27 15 13 00-0361 MLF 1200 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	62,705.74	13,820.37
27 15 13 00-0362 MLF 1 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,053.03	571.01
27 15 13 00-0363 MLF 2 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,184.46	591.30
27 15 13 00-0364 MLF 3 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,278.39	611.59



Communications	27	
Structured Cabling	27 10	27
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0365 MLF 4 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,443.98	632.81
27 15 13 00-0366 MLF 5 Pair #22 AWG, Solid, Low Voltage, Plenum Rated, Non-Shielded, Installed In Conduit.....	1,596.62	675.25
27 15 13 00-0367 MLF 6 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,878.18	717.68
27 15 13 00-0368 MLF 8 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,099.49	802.55
27 15 13 00-0369 MLF 12 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,665.40	1,058.07
27 15 13 00-0370 MLF 24 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,010.70	1,562.65
27 15 13 00-0371 MLF 25 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,230.32	1,599.56
27 15 13 00-0372 MLF 36 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,021.17	1,862.46
27 15 13 00-0373 MLF 40 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,385.23	1,993.45
27 15 13 00-0374 MLF 50 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,487.73	2,491.58
27 15 13 00-0375 MLF 100 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	8,771.81	3,280.29
27 15 13 00-0376 MLF 250 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	16,964.76	6,042.15
27 15 13 00-0377 MLF 500 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	25,644.09	7,995.93
27 15 13 00-0378 MLF 750 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	34,353.99	10,076.09
27 15 13 00-0379 MLF 1200 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	48,391.50	13,821.30
27 15 13 00-0380 Copper Telecommunications Cable (27 15 13)		
27 15 13 00-0381 Indoor Telecommunications Cable (27 15 13 00-0380)		
Note: Shielded twisted pair cables (STP) include a metallic foil wrap. Un-shielded twisted pair cables (UTP) exclude any shielding.		
27 15 13 00-0382 Category 3, Indoor Telecommunications Cable (27 15 13 00-0381)		
Note: Un-shielded twisted pair cables (UTP).		
27 15 13 00-0383 Category 3, Indoor Telecommunications Riser Cable (27 15 13 00-0382)		
27 15 13 00-0384 24 AWG, Category 3, Indoor Telecommunications Riser Cable (27 15 13 00-0383)		
27 15 13 00-0385 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit (27 15 13 00-0384)		
27 15 13 00-0386 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	781.18	424.13
27 15 13 00-0387 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	812.90	424.13
27 15 13 00-0388 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	824.10	424.13
27 15 13 00-0389 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	988.19	484.71
27 15 13 00-0390 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,221.64	484.71
27 15 13 00-0391 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,592.33	484.71
27 15 13 00-0392 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	2,495.15	605.89
27 15 13 00-0393 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	4,479.49	969.42
27 15 13 00-0394 MLF 150-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	6,007.32	1,090.59
27 15 13 00-0395 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	7,919.61	1,211.78
27 15 13 00-0396 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	11,563.67	1,696.48
27 15 13 00-0397 MLF 400-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	15,123.25	2,096.37
27 15 13 00-0398 MLF 600-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	23,856.21	2,908.26
27 15 13 00-0399 MLF 900-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	39,034.33	5,816.51
27 15 13 00-0400 MLF 1,200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	53,282.62	8,724.77
27 15 13 00-0401 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed (27 15 13 00-0384)		
27 15 13 00-0402 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	1,488.04	848.24
<i>For Work In Restricted Working Space, Add</i>		
	424.12	
27 15 13 00-0403 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	1,519.76	848.24
<i>For Work In Restricted Working Space, Add</i>		
	424.12	
27 15 13 00-0404 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	1,530.96	848.24
<i>For Work In Restricted Working Space, Add</i>		
	424.12	
27 15 13 00-0405 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	1,594.07	848.24
<i>For Work In Restricted Working Space, Add</i>		
	424.12	
27 15 13 00-0406 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	1,827.52	848.24
<i>For Work In Restricted Working Space, Add</i>		
	424.12	
27 15 13 00-0407 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	2,400.18	969.42
<i>For Work In Restricted Working Space, Add</i>		
	484.71	
27 15 13 00-0408 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	3,504.96	1,211.78
<i>For Work In Restricted Working Space, Add</i>		
	605.89	
27 15 13 00-0409 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	5,287.34	1,454.13
<i>For Work In Restricted Working Space, Add</i>		
	727.07	
27 15 13 00-0410 MLF 150-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	6,916.15	1,635.89
<i>For Work In Restricted Working Space, Add</i>		
	817.95	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0411 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	8,929.43	1,817.66
<i>For Work In Restricted Working Space, Add</i>	908.83	
27 15 13 00-0412 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	12,977.40	2,544.72
<i>For Work In Restricted Working Space, Add</i>	1,272.36	
27 15 13 00-0413 MLF 400-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	16,880.32	3,150.61
<i>For Work In Restricted Working Space, Add</i>	1,575.31	
27 15 13 00-0414 MLF 600-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	26,279.76	4,362.38
<i>For Work In Restricted Working Space, Add</i>	2,181.19	
27 15 13 00-0415 MLF 900-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	43,881.42	8,724.77
<i>For Work In Restricted Working Space, Add</i>	4,362.38	
27 15 13 00-0416 MLF 1,200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	60,553.27	13,087.15
<i>For Work In Restricted Working Space, Add</i>	6,543.58	
27 15 13 00-0417 22 AWG, Category 3, Indoor Telecommunications Riser Cable (27 15 13 00-0383)		
27 15 13 00-0418 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit (27 15 13 00-0417)		
27 15 13 00-0419 MLF 25-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	2,515.61	484.71
27 15 13 00-0420 MLF 50-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	3,720.66	605.89
27 15 13 00-0421 MLF 100-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	6,763.98	969.42
27 15 13 00-0422 MLF 200-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	11,898.75	1,211.78
27 15 13 00-0423 MLF 300-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	17,481.25	1,696.48
27 15 13 00-0424 MLF 400-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	22,744.96	2,096.37
27 15 13 00-0425 MLF 600-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	33,677.92	2,908.26
27 15 13 00-0426 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed (27 15 13 00-0417)		
27 15 13 00-0427 MLF 25-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	3,323.46	969.42
<i>For Work In Restricted Working Space, Add</i>	484.71	
27 15 13 00-0428 MLF 50-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	4,730.47	1,211.78
<i>For Work In Restricted Working Space, Add</i>	605.89	
27 15 13 00-0429 MLF 100-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	7,571.83	1,454.13
<i>For Work In Restricted Working Space, Add</i>	727.07	
27 15 13 00-0430 MLF 200-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	12,908.57	1,817.66
<i>For Work In Restricted Working Space, Add</i>	908.83	
27 15 13 00-0431 MLF 300-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	18,894.98	2,544.72
<i>For Work In Restricted Working Space, Add</i>	1,272.36	
27 15 13 00-0432 MLF 400-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	24,502.03	3,150.61
<i>For Work In Restricted Working Space, Add</i>	1,575.31	
27 15 13 00-0433 MLF 600-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	36,101.47	4,362.38
<i>For Work In Restricted Working Space, Add</i>	2,181.19	
27 15 13 00-0434 Category 3, Indoor Telecommunications Plenum Cable (27 15 13 00-0382)		
27 15 13 00-0435 24 AWG, Category 3, Indoor Telecommunications Plenum Cable (27 15 13 00-0434)		
27 15 13 00-0436 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit (27 15 13 00-0435)		
27 15 13 00-0437 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	806.83	424.13
27 15 13 00-0438 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	838.42	424.13
27 15 13 00-0439 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	862.04	424.13
27 15 13 00-0440 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,030.78	484.71
27 15 13 00-0441 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,285.27	484.71
27 15 13 00-0442 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,975.08	484.71
27 15 13 00-0443 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	3,274.41	605.89
27 15 13 00-0444 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	6,112.24	969.42
27 15 13 00-0445 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	10,478.23	1,211.78
27 15 13 00-0446 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	15,675.74	1,696.48
27 15 13 00-0447 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed (27 15 13 00-0435)		
27 15 13 00-0448 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	1,513.69	848.24
<i>For Work In Restricted Working Space, Add</i>	424.12	
27 15 13 00-0449 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	1,545.28	848.24
<i>For Work In Restricted Working Space, Add</i>	424.12	
27 15 13 00-0450 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	1,568.90	848.24
<i>For Work In Restricted Working Space, Add</i>	424.12	
27 15 13 00-0451 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	1,636.66	848.24
<i>For Work In Restricted Working Space, Add</i>	424.12	
27 15 13 00-0452 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	1,891.15	848.24
<i>For Work In Restricted Working Space, Add</i>	424.12	
27 15 13 00-0453 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	2,782.93	969.42
<i>For Work In Restricted Working Space, Add</i>	484.71	
27 15 13 00-0454 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	4,284.22	1,211.78
<i>For Work In Restricted Working Space, Add</i>	605.89	
27 15 13 00-0455 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	6,920.09	1,454.13
<i>For Work In Restricted Working Space, Add</i>	727.07	



Communications	27	27
Structured Cabling	27 10	
Communications Horizontal Cabling	27 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0456 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	11,488.05 908.83	1,817.66
27 15 13 00-0457 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	17,089.47 1,272.36	2,544.72
27 15 13 00-0458 Category 5E, Indoor Telecommunications Cable <small>(27 15 13 00-0381)</small>		
27 15 13 00-0459 Category 5E, Indoor Telecommunications Riser Cable <small>(27 15 13 00-0458)</small>		
27 15 13 00-0460 Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit <small>(27 15 13 00-0459)</small>		
27 15 13 00-0461 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	881.01	424.13
27 15 13 00-0462 MLF 4-Pair Stranded UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	921.80	424.13
27 15 13 00-0463 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,023.56	484.71
27 15 13 00-0464 MLF 4-Pair Stranded STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,064.34	484.71
27 15 13 00-0465 Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed <small>(27 15 13 00-0459)</small>		
27 15 13 00-0466 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,587.87 424.12	848.24
27 15 13 00-0467 MLF 4-Pair Stranded UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,628.66 424.12	848.24
27 15 13 00-0468 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,831.41 484.71	969.42
27 15 13 00-0469 MLF 4-Pair Stranded STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,872.19 484.71	969.42
27 15 13 00-0470 Category 5E, Indoor Telecommunications Plenum Cable <small>(27 15 13 00-0458)</small>		
27 15 13 00-0471 Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit <small>(27 15 13 00-0470)</small>		
27 15 13 00-0472 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,031.01	424.13
27 15 13 00-0473 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,450.71	484.71
27 15 13 00-0474 Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed <small>(27 15 13 00-0470)</small>		
27 15 13 00-0475 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,737.87 424.12	848.24
27 15 13 00-0476 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,258.56 484.71	969.42
27 15 13 00-0477 Category 6, Indoor Telecommunications Cable <small>(27 15 13 00-0381)</small>		
27 15 13 00-0478 Category 6, Indoor Telecommunications Riser Cable <small>(27 15 13 00-0477)</small>		
27 15 13 00-0479 Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit <small>(27 15 13 00-0478)</small>		
27 15 13 00-0480 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,285.73	424.13
27 15 13 00-0481 MLF 4-Pair Stranded UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,350.45	424.13
27 15 13 00-0482 Category 6, Indoor Telecommunications Riser Cable, Installed Exposed <small>(27 15 13 00-0479)</small>		
27 15 13 00-0483 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,992.59 424.12	848.24
27 15 13 00-0484 MLF 4-Pair Stranded UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,057.31 424.12	848.24
27 15 13 00-0485 Category 6, Indoor Telecommunications Plenum Cable <small>(27 15 13 00-0477)</small>		
27 15 13 00-0486 Category 6, Indoor Telecommunications Plenum Cable, Installed In Conduit <small>(27 15 13 00-0485)</small>		
27 15 13 00-0487 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,884.57	424.13
27 15 13 00-0488 Category 6, Indoor Telecommunications Plenum Cable, Installed Exposed <small>(27 15 13 00-0485)</small>		
27 15 13 00-0489 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,591.43 424.12	848.24
27 15 13 00-0490 Category 6a, Indoor Telecommunications Cable <small>(27 15 13 00-0381)</small>		
27 15 13 00-0491 Category 6a, Indoor Telecommunications Riser Cable <small>(27 15 13 00-0490)</small>		
27 15 13 00-0492 Category 6a Indoor Telecommunications Riser Cable, Installed In Conduit <small>(27 15 13 00-0491)</small>		
27 15 13 00-0493 MLF 4-Pair Solid UTP, 23 AWG, Category 6a, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,389.15	424.13

27	Communications
27 10	Structured Cabling
27 15	Communications Horizontal Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0494 Category 6a, Indoor Telecommunications Riser Cable, Installed Exposed ^(27 15 13 00-0491)		
27 15 13 00-0495 MLF 4-Pair Solid UTP, 23 AWG, Category 6a, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,096.01 424.12	848.24
27 15 13 00-0496 Category 6a, Indoor Telecommunications Plenum Cable ^(27 15 13 00-0490)		
27 15 13 00-0497 Category 6a, Indoor Telecommunications Plenum Cable, Installed In Conduit ^(27 15 13 00-0496)		
27 15 13 00-0498 MLF 4-Pair Solid UTP, 23 AWG, Category 6a, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	2,190.66	424.13
27 15 13 00-0499 Category 6a, Indoor Telecommunications Plenum Cable, Installed Exposed ^(27 15 13 00-0496)		
27 15 13 00-0500 MLF 4-Pair Solid UTP, 23 AWG, Category 6a, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,897.52 424.12	848.24
27 15 13 00-0501 Category 7, Indoor Telecommunications Cable ^(27 15 13 00-0381)		
27 15 13 00-0502 Category 7, Indoor Telecommunications Cable, Installed In Conduit ^(27 15 13 00-0501)		
27 15 13 00-0503 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Riser Cable, Installed In Conduit.....	3,438.06	484.71
27 15 13 00-0504 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	7,228.35	484.71
27 15 13 00-0505 Category 7, Indoor Telecommunications Cable, Installed Exposed ^(27 15 13 00-0501)		
27 15 13 00-0506 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	4,245.91 484.71	969.42
27 15 13 00-0507 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	8,036.20 484.71	969.42
27 15 13 00-0508 Outdoor Telecommunications Cable ^(27 15 13 00-0380)		
Note: Cable buried in trench excludes excavation.		
27 15 13 00-0509 PE-89 Outdoor Telecommunications Cable ^(27 15 13 00-0508)		
Note: Includes foam-skin polyolefin insulated conductors.		
27 15 13 00-0510 24 AWG, PE-89 Outdoor Telecommunications Cable ^(27 15 13 00-0509)		
27 15 13 00-0511 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit ^(27 15 13 00-0510)		
27 15 13 00-0512 MLF 6-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	1,427.34	484.71
27 15 13 00-0513 MLF 12-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	1,689.36	848.24
27 15 13 00-0514 MLF 25-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	2,354.79	545.30
27 15 13 00-0515 MLF 50-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	3,531.08	605.89
27 15 13 00-0516 MLF 75-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	5,003.79	848.24
27 15 13 00-0517 MLF 100-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	6,277.05	969.42
27 15 13 00-0518 MLF 200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	10,662.87	1,090.59
27 15 13 00-0519 MLF 300-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	15,669.20	1,575.31
27 15 13 00-0520 MLF 400-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	20,756.95	2,060.02
27 15 13 00-0521 MLF 600-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	28,187.84	2,787.07
27 15 13 00-0522 MLF 900-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	44,751.02	5,574.16
27 15 13 00-0523 MLF 1,200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	61,291.39	8,240.06
27 15 13 00-0524 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench ^(27 15 13 00-0510)		
27 15 13 00-0525 MLF 6-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	1,275.87	
27 15 13 00-0526 MLF 12-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	1,537.89	
27 15 13 00-0527 MLF 25-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	2,152.83	
27 15 13 00-0528 MLF 50-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	3,329.12	
27 15 13 00-0529 MLF 75-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	4,700.86	
27 15 13 00-0530 MLF 100-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	5,772.15	
27 15 13 00-0531 MLF 200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	10,460.91	
27 15 13 00-0532 MLF 300-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	15,063.31	
27 15 13 00-0533 MLF 400-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	19,494.68	
27 15 13 00-0534 MLF 600-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	25,966.26	
27 15 13 00-0535 MLF 900-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	38,692.14	
27 15 13 00-0536 MLF 1,200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	52,405.04	
27 15 13 00-0537 22 AWG, PE-89 Outdoor Telecommunications Cable ^(27 15 13 00-0509)		
27 15 13 00-0538 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit ^(27 15 13 00-0537)		
27 15 13 00-0539 MLF 6-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	1,593.91	484.71
27 15 13 00-0540 MLF 12-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	2,000.57	484.71
27 15 13 00-0541 MLF 25-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	2,991.82	545.30
27 15 13 00-0542 MLF 50-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	4,664.93	605.89
27 15 13 00-0543 MLF 75-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	6,775.69	848.24
27 15 13 00-0544 MLF 100-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	8,685.89	969.42
27 15 13 00-0545 MLF 200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	15,309.87	1,090.59



Communications	27	27
Structured Cabling	27 10	
Communications Horizontal Cabling	27 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0546 MLF 300-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	22,296.74	1,575.31
27 15 13 00-0547 MLF 400-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	29,691.45	2,060.02
27 15 13 00-0548 MLF 600-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	43,790.30	2,787.07
27 15 13 00-0549 MLF 900-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	64,455.63	5,574.16
27 15 13 00-0550 MLF 1,200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	90,771.31	8,240.06
27 15 13 00-0551 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench ^(27 15 13 00-0537)		
27 15 13 00-0552 MLF 6-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	1,442.44	
27 15 13 00-0553 MLF 12-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	1,849.10	
27 15 13 00-0554 MLF 25-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	2,789.86	
27 15 13 00-0555 MLF 50-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	4,462.97	
27 15 13 00-0556 MLF 75-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	6,472.76	
27 15 13 00-0557 MLF 100-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	8,382.94	
27 15 13 00-0558 MLF 200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	15,107.91	
27 15 13 00-0559 MLF 300-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	21,690.85	
27 15 13 00-0560 MLF 400-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	28,429.18	
27 15 13 00-0561 MLF 600-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	41,568.72	
27 15 13 00-0562 MLF 900-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	58,396.75	
27 15 13 00-0563 MLF 1,200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	81,884.96	
27 15 13 00-0564 19 AWG, PE-89 Outdoor Telecommunications Cable ^(27 15 13 00-0509)		
27 15 13 00-0565 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit ^(27 15 13 00-0564)		
27 15 13 00-0566 MLF 25-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	4,955.67	545.30
27 15 13 00-0567 MLF 50-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	8,503.62	605.89
27 15 13 00-0568 MLF 75-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	13,604.00	848.24
27 15 13 00-0569 MLF 100-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	16,289.22	969.42
27 15 13 00-0570 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench ^(27 15 13 00-0564)		
27 15 13 00-0571 MLF 25-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	4,753.71	
27 15 13 00-0572 MLF 50-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	8,301.66	
27 15 13 00-0573 MLF 75-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	13,301.07	
27 15 13 00-0574 MLF 100-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	15,986.27	
27 15 13 00-0575 PE-39 Outdoor Telecommunications Cable ^(27 15 13 00-0508)		
Note: Includes solid polyolefin insulated conductors.		
27 15 13 00-0576 24 AWG, PE-39 Outdoor Telecommunications Cable ^(27 15 13 00-0575)		
27 15 13 00-0577 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit ^(27 15 13 00-0576)		
27 15 13 00-0578 MLF 6-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	2,056.64	848.24
27 15 13 00-0579 MLF 12-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	2,377.20	848.24
27 15 13 00-0580 MLF 25-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	3,023.91	848.24
27 15 13 00-0581 MLF 50-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	4,188.52	848.24
27 15 13 00-0582 MLF 100-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	6,550.52	848.24
27 15 13 00-0583 MLF 200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	11,750.19	1,090.59
27 15 13 00-0584 MLF 300-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	17,152.35	1,575.31
27 15 13 00-0585 MLF 400-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	22,564.15	2,060.02
27 15 13 00-0586 MLF 600-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	30,826.50	2,787.07
27 15 13 00-0587 MLF 900-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	48,163.45	5,574.16
27 15 13 00-0588 MLF 1,200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	70,141.87	8,240.06
27 15 13 00-0589 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench ^(27 15 13 00-0576)		
27 15 13 00-0590 MLF 6-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	1,753.71	
27 15 13 00-0591 MLF 12-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	2,074.27	
27 15 13 00-0592 MLF 25-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	2,720.98	
27 15 13 00-0593 MLF 50-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	3,885.59	
27 15 13 00-0594 MLF 100-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	6,247.59	
27 15 13 00-0595 MLF 200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	11,548.23	
27 15 13 00-0596 MLF 300-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	16,546.46	
27 15 13 00-0597 MLF 400-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	21,301.88	
27 15 13 00-0598 MLF 600-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	28,604.92	
27 15 13 00-0599 MLF 900-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	42,104.57	
27 15 13 00-0600 MLF 1,200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	61,255.52	
27 15 13 00-0601 22 AWG, PE-39 Outdoor Telecommunications Cable ^(27 15 13 00-0575)		
27 15 13 00-0602 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit ^(27 15 13 00-0601)		
27 15 13 00-0603 MLF 6-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	2,241.96	848.24
27 15 13 00-0604 MLF 12-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	2,713.01	848.24
27 15 13 00-0605 MLF 25-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	3,715.43	848.24
27 15 13 00-0606 MLF 50-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	5,559.51	848.24
27 15 13 00-0607 MLF 100-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	9,407.88	848.24

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0608 MLF 200-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	17,249.12	1,090.59
27 15 13 00-0609 MLF 300-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	25,269.45	1,575.31
27 15 13 00-0610 MLF 400-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	32,381.62	2,060.02
27 15 13 00-0611 MLF 600-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	45,211.35	2,787.07
27 15 13 00-0612 MLF 900-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	71,455.87	5,574.16
27 15 13 00-0613 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0601)		
27 15 13 00-0614 MLF 6-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	1,939.03	
27 15 13 00-0615 MLF 12-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	2,410.08	
27 15 13 00-0616 MLF 25-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	3,412.50	
27 15 13 00-0617 MLF 50-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	5,256.58	
27 15 13 00-0618 MLF 100-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	9,104.95	
27 15 13 00-0619 MLF 200-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	17,047.16	
27 15 13 00-0620 MLF 300-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	24,663.56	
27 15 13 00-0621 MLF 400-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	31,119.35	
27 15 13 00-0622 MLF 600-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	42,989.77	
27 15 13 00-0623 MLF 900-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	65,396.99	
27 15 13 00-0624 19 AWG, PE-39 Outdoor Telecommunications Cable (27 15 13 00-0575)		
27 15 13 00-0625 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0624)		
27 15 13 00-0626 MLF 25-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	5,936.01	848.24
27 15 13 00-0627 MLF 50-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	9,676.06	848.24
27 15 13 00-0628 MLF 100-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	17,431.60	848.24
27 15 13 00-0629 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0624)		
27 15 13 00-0630 MLF 25-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	5,633.08	
27 15 13 00-0631 MLF 50-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	9,373.13	
27 15 13 00-0632 MLF 100-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	17,128.67	
27 15 13 00-0633 (Aerial) Outdoor Telecommunications Cable (27 15 13 00-0508)		
Note: Includes support wire.		
27 15 13 00-0634 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles (27 15 13 00-0633)		
27 15 13 00-0635 MLF 6-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	6,136.40	1,735.77
27 15 13 00-0636 MLF 12-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	6,403.12	1,735.77
27 15 13 00-0637 MLF 25-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	7,065.34	1,735.77
27 15 13 00-0638 MLF 50-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	8,291.41	1,735.77
27 15 13 00-0639 MLF 100-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	10,659.57	1,735.77
27 15 13 00-0640 MLF 200-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	15,779.64	1,909.35
27 15 13 00-0641 MLF 300-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	20,929.00	2,082.93
27 15 13 00-0642 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles (27 15 13 00-0633)		
27 15 13 00-0643 MLF 6-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	6,455.50	1,735.77
27 15 13 00-0644 MLF 12-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	6,849.57	1,735.77
27 15 13 00-0645 MLF 25-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	7,798.71	1,735.77
27 15 13 00-0646 MLF 50-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	9,673.83	1,735.77
27 15 13 00-0647 MLF 100-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	13,936.14	1,735.77
27 15 13 00-0648 MLF 200-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	21,562.26	1,909.35
27 15 13 00-0649 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles (27 15 13 00-0633)		
27 15 13 00-0650 MLF 6-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	6,877.38	1,735.77
27 15 13 00-0651 MLF 12-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	7,768.55	1,735.77
27 15 13 00-0652 MLF 25-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	9,520.71	1,735.77
27 15 13 00-0653 MLF 50-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	13,025.07	1,735.77
27 15 13 00-0654 MLF 100-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles.....	20,202.11	1,735.77
27 15 13 00-0655 Sound System Cables (27 15 13)		
Note: Cables shall be type CL2 or CM and as manufactured by West Penn Wire, Belden or approved equal.		
27 15 13 00-0656 Speaker/Communications And Control Cable, Installed Exposed (27 15 13 00-0655)		
27 15 13 00-0657 Non-Plenum Rated Speaker/Communications And Control Cable, Installed Exposed (27 15 13 00-0656)		
27 15 13 00-0658 MLF 2 Conductor, #16 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,521.71	645.73
For Work In Restricted Working Space, Add 387.44		
27 15 13 00-0659 MLF 2 Conductor, #18 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,444.05	645.73
For Work In Restricted Working Space, Add 387.44		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0660 MLF 2 Conductor, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,384.14 387.44	645.73
For Work In Restricted Working Space, Add		
27 15 13 00-0661 MLF 4 Conductor, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,449.65 387.44	645.73
For Work In Restricted Working Space, Add		
27 15 13 00-0662 MLF 4 Conductor, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,660.21 387.44	645.73
For Work In Restricted Working Space, Add		
27 15 13 00-0663 MLF 6 Conductor, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,870.07 387.44	645.73
For Work In Restricted Working Space, Add		
27 15 13 00-0664 MLF 4 Conductor, #20 AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,661.09 387.44	645.73
For Work In Restricted Working Space, Add		
27 15 13 00-0665 MLF 4 Conductor, #22 AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,559.99 387.44	645.73
For Work In Restricted Working Space, Add		
27 15 13 00-0666 Plenum Rated Speaker/Communications And Control Cable, Installed Exposed <small>(27 15 13 00-0666)</small>		
27 15 13 00-0667 MLF 2 Conductor, #16 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,553.80 387.44	645.73
For Work In Restricted Working Space, Add		
27 15 13 00-0668 MLF 2 Conductor, #18 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,464.46 387.44	645.73
For Work In Restricted Working Space, Add		
27 15 13 00-0669 MLF 2 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,413.89 387.44	645.73
For Work In Restricted Working Space, Add		
27 15 13 00-0670 MLF 4 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,498.27 387.44	645.73
For Work In Restricted Working Space, Add		
27 15 13 00-0671 MLF 8 Conductors, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,676.54 387.44	645.73
For Work In Restricted Working Space, Add		
27 15 13 00-0672 MLF 2 Conductors, #16 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,656.87 387.44	645.73
For Work In Restricted Working Space, Add		
27 15 13 00-0673 MLF 2 Conductors, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,533.30 387.44	645.73
For Work In Restricted Working Space, Add		
27 15 13 00-0674 MLF 4 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,743.36 387.44	645.73
For Work In Restricted Working Space, Add		
27 15 13 00-0675 MLF 6 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,952.84 387.44	645.73
For Work In Restricted Working Space, Add		
27 15 13 00-0676 MLF 2 Conductor, #22 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,439.24 387.44	645.73
For Work In Restricted Working Space, Add		
27 15 13 00-0677 MLF 2 Conductor, #20 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed.....	1,480.98 387.44	645.73
For Work In Restricted Working Space, Add		
27 15 13 00-0678 Speaker/Communications And Control Cable, Installed In Conduit <small>(27 15 13 00-0655)</small>		
27 15 13 00-0679 Non-Plenum Rated Speaker/Communications And Control Cable, Installed In Conduit <small>(27 15 13 00-0678)</small>		
27 15 13 00-0680 MLF 2 Conductors, #16 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	875.99	322.86
27 15 13 00-0681 MLF 2 Conductors, #18 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	798.33	322.86
27 15 13 00-0682 MLF 2 Conductors, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	738.42	322.86
27 15 13 00-0683 MLF 4 Conductors, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	803.93	322.86
27 15 13 00-0684 MLF 4 Conductors, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,014.49	322.86
27 15 13 00-0685 MLF 6 Conductors, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,224.35	322.86
27 15 13 00-0686 MLF 4 Conductors (2 Shielded, 2 Unshielded), #20 AWG, Stranded, Non-Plenum Rated, Microphone/Communications Cable, Installed In Conduit.....	1,015.37	322.86
27 15 13 00-0687 MLF 4 Conductors (2 Shielded, 2 Unshielded), #22 AWG, Stranded, Non-Plenum Rated, Microphone/Communications Cable, Installed In Conduit.....	914.27	322.86
27 15 13 00-0688 Plenum Rated Speaker/Communications And Control Cable, Installed In Conduit <small>(27 15 13 00-0678)</small>		
27 15 13 00-0689 MLF 2 Conductor, #6 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	908.08	322.86

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0690 MLF 2 Conductor, #18 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	818.74	322.86
27 15 13 00-0691 MLF 2 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	768.17	322.86
27 15 13 00-0692 MLF 4 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	852.55	322.86
27 15 13 00-0693 MLF 8 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,030.82	322.86
27 15 13 00-0694 MLF 2 Conductor, #16 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,011.15	322.86
27 15 13 00-0695 MLF 2 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	887.58	322.86
27 15 13 00-0696 MLF 4 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,097.64	322.86
27 15 13 00-0697 MLF 6 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,307.12	322.86
27 15 13 00-0698 MLF 2 Conductor, #20 AWG, Stranded, Shielded, Plenum Rated, Microphone/Communications And Control Cable, Installed In Conduit	835.26	322.86
27 15 13 00-0699 MLF 2 Conductor, #22 AWG, Stranded, Shielded, Plenum Rated, Microphone/Communications And Control Cable, Installed In Conduit	793.52	322.86

27 15 23 Communications Optical Fiber Horizontal Cabling (27 15)

Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.

27 15 23 00-0001 Indoor Fiber Optic Cable (27 15 23)

Note: Distribution cables contain multiple tight-buffered fibers bundled under the same jacket with Kevlar strength members. Break-out cables contain multiple individually reinforced and jacketed simplex cables bundled together.

27 15 23 00-0002 Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0001)

Note: Excludes conduit or innerduct.

27 15 23 00-0003 Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0002)**27 15 23 00-0004 Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0003)****27 15 23 00-0005 Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0004)**

27 15 23 00-0006 MLF 1-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	895.49	363.53
27 15 23 00-0007 MLF 2-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	982.77	363.53
27 15 23 00-0008 MLF 4-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,011.91	363.53
27 15 23 00-0009 MLF 6-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,115.69	363.53
<i>For Aluminum Armored Cable, Add</i>	869.75	
<i>For Steel Armored Cable, Add</i>	3,498.54	
27 15 23 00-0010 MLF 8-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,145.45	363.53
27 15 23 00-0011 MLF 12-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,325.31	363.53
<i>For Aluminum Armored Cable, Add</i>	930.46	
<i>For Steel Armored Cable, Add</i>	3,852.43	
27 15 23 00-0012 MLF 18-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,296.85	424.13
27 15 23 00-0013 MLF 24-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,257.63	424.13
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	850.14	
<i>For Steel Armored Cable, Add</i>	6,756.16	
27 15 23 00-0014 MLF 36-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,987.83	424.13
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	783.62	
<i>For Steel Armored Cable, Add</i>	7,102.90	
27 15 23 00-0015 MLF 48-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,129.45	424.13
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	825.94	
<i>For Steel Armored Cable, Add</i>	7,425.53	
27 15 23 00-0016 MLF 60-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,022.53	424.13
27 15 23 00-0017 MLF 72-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,260.03	424.13
27 15 23 00-0018 MLF 96-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,509.27	424.13
27 15 23 00-0019 MLF 120-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,757.75	484.71
27 15 23 00-0020 MLF 144-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	10,461.30	484.71

27 15 23 00-0021 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0004)

27 15 23 00-0022 MLF 1-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	920.63	363.53
27 15 23 00-0023 MLF 2-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	957.89	363.53
27 15 23 00-0024 MLF 4-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,166.89	363.53
27 15 23 00-0025 MLF 6-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,386.89	363.53
<i>For Aluminum Armored Cable, Add</i>	1,002.05	
<i>For Steel Armored Cable, Add</i>	1,274.94	
27 15 23 00-0026 MLF 8-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,595.89	363.53



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0027 MLF 12-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,024.89	363.53
<i>For Aluminum Armored Cable, Add</i>	1,102.25	
<i>For Steel Armored Cable, Add</i>	1,457.82	
27 15 23 00-0028 MLF 18-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,235.87	424.13
27 15 23 00-0029 MLF 24-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,786.87	424.13
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	829.93	
<i>For Steel Armored Cable, Add</i>	829.93	
27 15 23 00-0030 MLF 36-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,326.87	424.13
27 15 23 00-0031 MLF 48-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,866.87	424.13
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	1,502.57	
27 15 23 00-0032 MLF 60-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,406.87	424.13
27 15 23 00-0033 MLF 72-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,946.87	424.13
27 15 23 00-0034 MLF 96-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	13,037.87	424.13
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	6,010.56	
27 15 23 00-0035 MLF 120-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	16,218.85	484.71
27 15 23 00-0036 MLF 144-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	19,298.85	484.71
27 15 23 00-0037 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0004)</small>		
27 15 23 00-0038 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	936.36	363.53
27 15 23 00-0039 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	975.49	363.53
27 15 23 00-0040 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,194.94	363.53
27 15 23 00-0041 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,425.94	363.53
27 15 23 00-0042 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,645.39	363.53
27 15 23 00-0043 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,095.84	363.53
27 15 23 00-0044 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,312.32	424.13
27 15 23 00-0045 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,940.87	424.13
27 15 23 00-0046 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,557.87	424.13
27 15 23 00-0047 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,174.87	424.13
27 15 23 00-0048 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,791.87	424.13
27 15 23 00-0049 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	10,408.87	424.13
27 15 23 00-0050 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	13,654.42	424.13
27 15 23 00-0051 MLF 120-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	16,989.40	484.71
27 15 23 00-0052 MLF 144-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	20,223.40	484.71
27 15 23 00-0053 Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0003)</small>		
27 15 23 00-0054 Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0053)</small>		
27 15 23 00-0055 MLF 2-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,704.42	363.53
27 15 23 00-0056 MLF 4-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,029.92	363.53
27 15 23 00-0057 MLF 6-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,746.01	363.53
27 15 23 00-0058 MLF 8-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,087.76	363.53
27 15 23 00-0059 MLF 12-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,415.95	363.53
27 15 23 00-0060 MLF 18-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,711.33	424.13
27 15 23 00-0061 MLF 24-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,211.32	424.13
27 15 23 00-0062 MLF 36-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	10,186.85	424.13
27 15 23 00-0063 MLF 48-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	12,506.01	424.13
27 15 23 00-0064 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0053)</small>		
27 15 23 00-0065 MLF 2-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,797.51	363.53
27 15 23 00-0066 MLF 4-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,173.23	363.53

27 Communications

27 10 Structured Cabling

27 15 Communications Horizontal Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0067 MLF 6-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,792.69	363.53
27 15 23 00-0068 MLF 8-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,713.39	363.53
27 15 23 00-0069 MLF 12-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,208.99	363.53
27 15 23 00-0070 MLF 18-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,465.47	424.13
27 15 23 00-0071 MLF 24-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,044.51	424.13
27 15 23 00-0072 MLF 36-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,788.67	424.13
27 15 23 00-0073 MLF 48-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	11,838.87	424.13
27 15 23 00-0074 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0053)		
27 15 23 00-0075 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,857.09	363.53
27 15 23 00-0076 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,251.59	363.53
27 15 23 00-0077 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,902.03	363.53
27 15 23 00-0078 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,868.77	363.53
27 15 23 00-0079 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,389.14	363.53
27 15 23 00-0080 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,703.40	424.13
27 15 23 00-0081 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,361.39	424.13
27 15 23 00-0082 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,142.76	424.13
27 15 23 00-0083 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	12,395.47	424.13
27 15 23 00-0084 Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0002)		
27 15 23 00-0085 Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0084)		
27 15 23 00-0086 Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0085)		
27 15 23 00-0087 MLF 1-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	925.49	363.53
27 15 23 00-0088 MLF 2-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	930.32	363.53
27 15 23 00-0089 MLF 4-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,183.50	363.53
27 15 23 00-0090 MLF 6-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,213.13	363.53
<i>For Aluminum Armored Cable, Add</i>	851.78	
<i>For Steel Armored Cable, Add</i>	5,172.73	
27 15 23 00-0091 MLF 8-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,362.27	363.53
27 15 23 00-0092 MLF 12-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,390.17	363.53
<i>For Aluminum Armored Cable, Add</i>	877.95	
<i>For Steel Armored Cable, Add</i>	5,544.37	
27 15 23 00-0093 MLF 18-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,263.67	424.13
27 15 23 00-0094 MLF 24-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,222.47	424.13
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	-218.87	
<i>For Steel Armored Cable, Add</i>	5,660.23	
27 15 23 00-0095 MLF 36-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,760.30	424.13
27 15 23 00-0096 MLF 48-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,939.07	424.13
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	-556.89	
<i>For Steel Armored Cable, Add</i>	6,969.56	
27 15 23 00-0097 MLF 60-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,393.89	424.13
27 15 23 00-0098 MLF 72-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,947.18	424.13
27 15 23 00-0099 MLF 96-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	13,175.22	424.13
27 15 23 00-0100 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0085)		
27 15 23 00-0101 MLF 1-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	918.93	363.53
27 15 23 00-0102 MLF 2-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,033.22	363.53
27 15 23 00-0103 MLF 4-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,295.01	363.53
27 15 23 00-0104 MLF 6-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,562.05	363.53
<i>For Aluminum Armored Cable, Add</i>	829.48	
<i>For Steel Armored Cable, Add</i>	1,162.73	
27 15 23 00-0105 MLF 8-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,817.92	363.53



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0106 MLF 12-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,040.23	363.53
<i>For Aluminum Armored Cable, Add</i>	1,064.20	
<i>For Steel Armored Cable, Add</i>	1,442.48	
27 15 23 00-0107 MLF 18-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,578.78	424.13
27 15 23 00-0108 MLF 24-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,477.63	424.13
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	1,612.46	
<i>For Steel Armored Cable, Add</i>	1,612.46	
27 15 23 00-0109 MLF 36-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,363.01	424.13
27 15 23 00-0110 MLF 48-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,248.39	424.13
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	1,623.58	
27 15 23 00-0111 MLF 60-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	10,133.77	424.13
27 15 23 00-0112 MLF 72-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	12,019.15	424.13
27 15 23 00-0113 MLF 96-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	15,803.38	424.13
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	3,245.05	
27 15 23 00-0114 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0085)</small>		
27 15 23 00-0115 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	934.59	363.53
27 15 23 00-0116 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,054.59	363.53
27 15 23 00-0117 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,329.47	363.53
27 15 23 00-0118 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,609.85	363.53
27 15 23 00-0119 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,878.52	363.53
27 15 23 00-0120 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,111.95	363.53
27 15 23 00-0121 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,672.38	424.13
27 15 23 00-0122 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,666.17	424.13
27 15 23 00-0123 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,645.82	424.13
27 15 23 00-0124 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,625.47	424.13
27 15 23 00-0125 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	10,605.11	424.13
27 15 23 00-0126 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	12,584.76	424.13
27 15 23 00-0127 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	16,558.20	424.13
27 15 23 00-0128 Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0084)</small>		
27 15 23 00-0129 Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0128)</small>		
27 15 23 00-0130 MLF 2-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,699.88	363.53
27 15 23 00-0131 MLF 4-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,095.91	363.53
27 15 23 00-0132 MLF 6-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,047.98	363.53
27 15 23 00-0133 MLF 8-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,981.04	363.53
27 15 23 00-0134 MLF 12-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,470.18	363.53
27 15 23 00-0135 MLF 18-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,234.78	424.13
27 15 23 00-0136 MLF 24-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	13,335.49	424.13
27 15 23 00-0137 MLF 36-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	16,140.69	424.13
27 15 23 00-0138 MLF 48-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	20,149.69	424.13
27 15 23 00-0139 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0128)</small>		
27 15 23 00-0140 MLF 2-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,021.45	363.53
27 15 23 00-0141 MLF 4-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,726.87	363.53
27 15 23 00-0142 MLF 6-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,986.00	363.53
27 15 23 00-0143 MLF 8-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,627.73	363.53
27 15 23 00-0144 MLF 12-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,680.46	363.53

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0145 MLF 18-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,029.48	424.13
27 15 23 00-0146 MLF 24-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,024.07	424.13
27 15 23 00-0147 MLF 36-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	11,638.42	424.13
27 15 23 00-0148 MLF 48-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	18,483.31	424.13
27 15 23 00-0149 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0128)</small>		
27 15 23 00-0150 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,142.23	363.53
27 15 23 00-0151 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,882.92	363.53
27 15 23 00-0152 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,205.01	363.53
27 15 23 00-0153 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,878.83	363.53
27 15 23 00-0154 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,934.19	363.53
27 15 23 00-0155 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,445.61	424.13
27 15 23 00-0156 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,439.93	424.13
27 15 23 00-0157 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	12,185.00	424.13
27 15 23 00-0158 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	19,372.13	424.13
27 15 23 00-0159 Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0001)</small> Note: For non-conduit installations such as cable trays, surface runways, etc.		
27 15 23 00-0160 Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0159)</small>		
27 15 23 00-0161 Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0160)</small>		
27 15 23 00-0162 Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0161)</small>		
27 15 23 00-0163 MLF 1-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,097.45	484.71
<i>For Work In Restricted Working Space, Add</i>	242.36	
27 15 23 00-0164 MLF 2-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,184.73	484.71
<i>For Work In Restricted Working Space, Add</i>	242.36	
27 15 23 00-0165 MLF 4-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,213.87	484.71
<i>For Work In Restricted Working Space, Add</i>	242.36	
27 15 23 00-0166 MLF 6-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,317.65	484.71
<i>For Aluminum Armored Cable, Add</i>	869.75	
<i>For Steel Armored Cable, Add</i>	3,498.54	
<i>For Work In Restricted Working Space, Add</i>	242.36	
27 15 23 00-0167 MLF 8-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,347.41	484.71
<i>For Work In Restricted Working Space, Add</i>	242.36	
27 15 23 00-0168 MLF 12-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,527.27	484.71
<i>For Aluminum Armored Cable, Add</i>	930.46	
<i>For Steel Armored Cable, Add</i>	3,852.43	
<i>For Work In Restricted Working Space, Add</i>	242.36	
27 15 23 00-0169 MLF 18-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,498.81	545.30
<i>For Work In Restricted Working Space, Add</i>	272.65	
27 15 23 00-0170 MLF 24-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,459.59	545.30
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	850.14	
<i>For Steel Armored Cable, Add</i>	6,756.16	
<i>For Work In Restricted Working Space, Add</i>	272.65	
27 15 23 00-0171 MLF 36-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,189.79	545.30
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	783.62	
<i>For Steel Armored Cable, Add</i>	7,102.90	
<i>For Work In Restricted Working Space, Add</i>	272.65	
27 15 23 00-0172 MLF 48-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,331.41	545.30
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	825.94	
<i>For Steel Armored Cable, Add</i>	7,425.53	
<i>For Work In Restricted Working Space, Add</i>	272.65	
27 15 23 00-0173 MLF 60-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,224.49	545.30
<i>For Work In Restricted Working Space, Add</i>	272.65	
27 15 23 00-0174 MLF 72-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,461.99	545.30
<i>For Work In Restricted Working Space, Add</i>	272.65	
27 15 23 00-0175 MLF 96-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	6,711.23	545.30
<i>For Work In Restricted Working Space, Add</i>	272.65	
27 15 23 00-0176 MLF 120-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	8,959.71	605.89
<i>For Work In Restricted Working Space, Add</i>	302.94	
27 15 23 00-0177 MLF 144-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	10,663.26	605.89
<i>For Work In Restricted Working Space, Add</i>	302.94	



Communications	27	27
Structured Cabling	27 10	
Communications Horizontal Cabling	27 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0178 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0161)</small>		
27 15 23 00-0179 MLF 1-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 1,122.59	1,122.59	484.71
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0180 MLF 2-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 1,159.85	1,159.85	484.71
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0181 MLF 4-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 1,368.85	1,368.85	484.71
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0182 MLF 6-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 1,588.85	1,588.85	484.71
For Aluminum Armored Cable, Add	1,002.05	
For Steel Armored Cable, Add	1,274.94	
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0183 MLF 8-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 1,797.85	1,797.85	484.71
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0184 MLF 12-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 2,226.85	2,226.85	484.71
For Aluminum Armored Cable, Add	1,102.25	
For Steel Armored Cable, Add	1,457.82	
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0185 MLF 18-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 2,437.83	2,437.83	545.30
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0186 MLF 24-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 3,988.83	3,988.83	545.30
For Aluminum Armored Cable With Sub-Units, Add	829.93	
For Steel Armored Cable, Add	829.93	
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0187 MLF 36-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 5,528.83	5,528.83	545.30
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0188 MLF 48-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 7,068.83	7,068.83	545.30
For Aluminum Armored Cable With Sub-Units, Add	1,502.57	
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0189 MLF 60-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 8,608.83	8,608.83	545.30
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0190 MLF 72-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 10,148.83	10,148.83	545.30
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0191 MLF 96-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 13,239.83	13,239.83	545.30
For Aluminum Armored Cable With Sub-Units, Add	6,010.56	
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0192 MLF 120-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 16,420.81	16,420.81	605.89
For Work In Restricted Working Space, Add	302.94	
27 15 23 00-0193 MLF 144-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 19,500.81	19,500.81	605.89
For Work In Restricted Working Space, Add	302.94	
27 15 23 00-0194 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0161)</small>		
27 15 23 00-0195 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 1,138.32	1,138.32	484.71
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0196 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 1,177.45	1,177.45	484.71
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0197 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 1,396.90	1,396.90	484.71
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0198 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 1,627.90	1,627.90	484.71
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0199 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 1,847.35	1,847.35	484.71
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0200 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 2,297.80	2,297.80	484.71
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0201 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 2,514.28	2,514.28	545.30
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0202 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 4,142.83	4,142.83	545.30
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0203 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 5,759.83	5,759.83	545.30
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0204 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 7,376.83	7,376.83	545.30
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0205 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 8,993.83	8,993.83	545.30
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0206 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 10,610.83	10,610.83	545.30
For Work In Restricted Working Space, Add	272.65	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0207 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....13,856.38 <i>For Work In Restricted Working Space, Add</i> .....272.65	13,856.38 272.65	545.30
27 15 23 00-0208 MLF 120-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....17,191.36 <i>For Work In Restricted Working Space, Add</i> .....302.94	17,191.36 302.94	605.89
27 15 23 00-0209 MLF 144-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....20,425.36 <i>For Work In Restricted Working Space, Add</i> .....302.94	20,425.36 302.94	605.89
27 15 23 00-0210 Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0160)		
27 15 23 00-0211 Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0210)		
27 15 23 00-0212 MLF 2-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....1,906.38 <i>For Work In Restricted Working Space, Add</i> .....242.36	1,906.38 242.36	484.71
27 15 23 00-0213 MLF 4-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....2,231.88 <i>For Work In Restricted Working Space, Add</i> .....242.36	2,231.88 242.36	484.71
27 15 23 00-0214 MLF 6-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....2,947.97 <i>For Work In Restricted Working Space, Add</i> .....242.36	2,947.97 242.36	484.71
27 15 23 00-0215 MLF 8-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....3,289.72 <i>For Work In Restricted Working Space, Add</i> .....242.36	3,289.72 242.36	484.71
27 15 23 00-0216 MLF 12-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....5,617.91 <i>For Work In Restricted Working Space, Add</i> .....242.36	5,617.91 242.36	484.71
27 15 23 00-0217 MLF 18-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....5,913.29 <i>For Work In Restricted Working Space, Add</i> .....272.65	5,913.29 272.65	545.30
27 15 23 00-0218 MLF 24-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....7,413.28 <i>For Work In Restricted Working Space, Add</i> .....272.65	7,413.28 272.65	545.30
27 15 23 00-0219 MLF 36-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....10,388.81 <i>For Work In Restricted Working Space, Add</i> .....272.65	10,388.81 272.65	545.30
27 15 23 00-0220 MLF 48-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....12,707.97 <i>For Work In Restricted Working Space, Add</i> .....272.65	12,707.97 272.65	545.30
27 15 23 00-0221 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0210)		
27 15 23 00-0222 MLF 2-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....1,999.47 <i>For Work In Restricted Working Space, Add</i> .....242.36	1,999.47 242.36	484.71
27 15 23 00-0223 MLF 4-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....2,375.19 <i>For Work In Restricted Working Space, Add</i> .....242.36	2,375.19 242.36	484.71
27 15 23 00-0224 MLF 6-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....2,994.65 <i>For Work In Restricted Working Space, Add</i> .....242.36	2,994.65 242.36	484.71
27 15 23 00-0225 MLF 8-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....3,915.35 <i>For Work In Restricted Working Space, Add</i> .....242.36	3,915.35 242.36	484.71
27 15 23 00-0226 MLF 12-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....4,410.95 <i>For Work In Restricted Working Space, Add</i> .....242.36	4,410.95 242.36	484.71
27 15 23 00-0227 MLF 18-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....5,667.43 <i>For Work In Restricted Working Space, Add</i> .....272.65	5,667.43 272.65	545.30
27 15 23 00-0228 MLF 24-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....7,246.47 <i>For Work In Restricted Working Space, Add</i> .....272.65	7,246.47 272.65	545.30
27 15 23 00-0229 MLF 36-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....7,990.63 <i>For Work In Restricted Working Space, Add</i> .....272.65	7,990.63 272.65	545.30
27 15 23 00-0230 MLF 48-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....12,040.83 <i>For Work In Restricted Working Space, Add</i> .....272.65	12,040.83 272.65	545.30
27 15 23 00-0231 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0210)		
27 15 23 00-0232 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....2,059.05 <i>For Work In Restricted Working Space, Add</i> .....242.36	2,059.05 242.36	484.71
27 15 23 00-0233 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....2,453.55 <i>For Work In Restricted Working Space, Add</i> .....242.36	2,453.55 242.36	484.71
27 15 23 00-0234 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....3,103.99 <i>For Work In Restricted Working Space, Add</i> .....242.36	3,103.99 242.36	484.71
27 15 23 00-0235 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....4,070.73 <i>For Work In Restricted Working Space, Add</i> .....242.36	4,070.73 242.36	484.71
27 15 23 00-0236 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....4,591.10 <i>For Work In Restricted Working Space, Add</i> .....242.36	4,591.10 242.36	484.71
27 15 23 00-0237 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....5,905.36 <i>For Work In Restricted Working Space, Add</i> .....272.65	5,905.36 272.65	545.30
27 15 23 00-0238 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....7,563.35 <i>For Work In Restricted Working Space, Add</i> .....272.65	7,563.35 272.65	545.30
27 15 23 00-0239 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed .....8,344.72 <i>For Work In Restricted Working Space, Add</i> .....272.65	8,344.72 272.65	545.30
27 15 23 00-0240 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed12,597.43 <i>For Work In Restricted Working Space, Add</i>272.65	12,597.43 272.65	545.30



Communications	27	27
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Communications Horizontal Cabling	27 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0241 Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ^(27 15 23 00-0159)		
27 15 23 00-0242 Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ^(27 15 23 00-0241)		
27 15 23 00-0243 Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ^(27 15 23 00-0242)		
27 15 23 00-0244 MLF 1-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,127.45	484.71
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0245 MLF 2-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,132.28	484.71
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0246 MLF 4-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,385.46	484.71
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0247 MLF 6-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,415.09	484.71
For Aluminum Armored Cable, Add	851.78	
For Steel Armored Cable, Add	5,172.73	
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0248 MLF 8-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,564.23	484.71
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0249 MLF 12-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,592.13	484.71
For Aluminum Armored Cable, Add	877.95	
For Steel Armored Cable, Add	5,544.37	
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0250 MLF 18-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,465.63	545.30
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0251 MLF 24-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,424.43	545.30
For Aluminum Armored Cable With Sub-Units, Add	-218.87	
For Steel Armored Cable, Add	5,660.23	
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0252 MLF 36-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	6,962.26	545.30
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0253 MLF 48-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	7,141.03	545.30
For Aluminum Armored Cable With Sub-Units, Add	-556.89	
For Steel Armored Cable, Add	6,969.56	
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0254 MLF 60-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	8,595.85	545.30
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0255 MLF 72-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	10,149.14	545.30
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0256 MLF 96-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	13,377.18	545.30
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0257 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ^(27 15 23 00-0242)		
27 15 23 00-0258 MLF 1-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,120.89	484.71
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0259 MLF 2-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,235.18	484.71
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0260 MLF 4-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,496.97	484.71
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0261 MLF 6-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,764.01	484.71
For Aluminum Armored Cable, Add	829.48	
For Steel Armored Cable, Add	1,162.73	
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0262 MLF 8-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,019.88	484.71
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0263 MLF 12-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,242.19	484.71
For Aluminum Armored Cable, Add	1,064.20	
For Steel Armored Cable, Add	1,442.48	
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0264 MLF 18-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,780.74	545.30
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0265 MLF 24-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,679.59	545.30
For Aluminum Armored Cable With Sub-Units, Add	1,612.46	
For Steel Armored Cable, Add	1,612.46	
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0266 MLF 36-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	6,564.97	545.30
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0267 MLF 48-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	8,450.35	545.30
For Aluminum Armored Cable With Sub-Units, Add	1,623.58	
For Work In Restricted Working Space, Add	272.65	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0268 MLF 60-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	10,335.73	545.30
<i>For Work In Restricted Working Space, Add</i>	272.65	
27 15 23 00-0269 MLF 72-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	12,221.11	545.30
<i>For Work In Restricted Working Space, Add</i>	272.65	
<i>For Work In Restricted Working Space, Add</i>	272.65	
27 15 23 00-0270 MLF 96-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	16,005.34	545.30
<i>For Work In Restricted Working Space, Add</i>	272.65	
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	3,245.05	
<i>For Work In Restricted Working Space, Add</i>	272.65	
27 15 23 00-0271 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0242)</small>		
27 15 23 00-0272 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,136.55	484.71
<i>For Work In Restricted Working Space, Add</i>	242.36	
27 15 23 00-0273 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,256.55	484.71
<i>For Work In Restricted Working Space, Add</i>	242.36	
27 15 23 00-0274 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,531.43	484.71
<i>For Work In Restricted Working Space, Add</i>	242.36	
27 15 23 00-0275 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,811.81	484.71
<i>For Work In Restricted Working Space, Add</i>	242.36	
27 15 23 00-0276 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	2,080.48	484.71
<i>For Work In Restricted Working Space, Add</i>	242.36	
27 15 23 00-0277 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	2,313.91	484.71
<i>For Work In Restricted Working Space, Add</i>	242.36	
27 15 23 00-0278 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	2,874.34	545.30
<i>For Work In Restricted Working Space, Add</i>	272.65	
27 15 23 00-0279 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	4,868.13	545.30
<i>For Work In Restricted Working Space, Add</i>	272.65	
27 15 23 00-0280 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	6,847.78	545.30
<i>For Work In Restricted Working Space, Add</i>	272.65	
27 15 23 00-0281 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	8,827.43	545.30
<i>For Work In Restricted Working Space, Add</i>	272.65	
27 15 23 00-0282 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	10,807.07	545.30
<i>For Work In Restricted Working Space, Add</i>	272.65	
27 15 23 00-0283 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	12,786.72	545.30
<i>For Work In Restricted Working Space, Add</i>	272.65	
27 15 23 00-0284 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	16,760.16	545.30
<i>For Work In Restricted Working Space, Add</i>	272.65	
27 15 23 00-0285 Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0241)</small>		
27 15 23 00-0286 Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0285)</small>		
27 15 23 00-0287 MLF 2-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	2,901.84	484.71
<i>For Work In Restricted Working Space, Add</i>	242.36	
27 15 23 00-0288 MLF 4-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	3,297.87	484.71
<i>For Work In Restricted Working Space, Add</i>	242.36	
27 15 23 00-0289 MLF 6-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	4,249.94	484.71
<i>For Work In Restricted Working Space, Add</i>	242.36	
27 15 23 00-0290 MLF 8-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	5,183.00	484.71
<i>For Work In Restricted Working Space, Add</i>	242.36	
27 15 23 00-0291 MLF 12-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	6,672.14	484.71
<i>For Work In Restricted Working Space, Add</i>	242.36	
27 15 23 00-0292 MLF 18-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	9,436.74	545.30
<i>For Work In Restricted Working Space, Add</i>	272.65	
27 15 23 00-0293 MLF 24-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	13,537.45	545.30
<i>For Work In Restricted Working Space, Add</i>	272.65	
27 15 23 00-0294 MLF 36-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	16,342.65	545.30
<i>For Work In Restricted Working Space, Add</i>	272.65	
27 15 23 00-0295 MLF 48-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	20,351.65	545.30
<i>For Work In Restricted Working Space, Add</i>	272.65	



Communications	27	27
Structured Cabling	27 10	
Communications Horizontal Cabling	27 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0296 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0285)</small>		
27 15 23 00-0297 MLF 2-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,223.41	484.71
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0298 MLF 4-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,928.83	484.71
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0299 MLF 6-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,187.96	484.71
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0300 MLF 8-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,829.69	484.71
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0301 MLF 12-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,882.42	484.71
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0302 MLF 18-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	9,231.44	545.30
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0303 MLF 24-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	9,226.03	545.30
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0304 MLF 36-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	11,840.38	545.30
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0305 MLF 48-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	18,685.27	545.30
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0306 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0285)</small>		
27 15 23 00-0307 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,344.19	484.71
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0308 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,084.88	484.71
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0309 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,406.97	484.71
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0310 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	6,080.79	484.71
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0311 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	6,136.15	484.71
For Work In Restricted Working Space, Add	242.36	
27 15 23 00-0312 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	9,647.57	545.30
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0313 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	9,641.89	545.30
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0314 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	12,386.96	545.30
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0315 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	19,574.09	545.30
For Work In Restricted Working Space, Add	272.65	
27 15 23 00-0316 Hybrid, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0001)</small> Note: Singlemode and multimode combination cable. Excludes conduit or innerduct.		
27 15 23 00-0317 Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0316)</small>		
27 15 23 00-0318 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	1,315.20	363.53
27 15 23 00-0319 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	2,274.52	363.53
27 15 23 00-0320 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	5,329.35	424.13
27 15 23 00-0321 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	8,446.90	424.13
27 15 23 00-0322 Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0316)</small>		
27 15 23 00-0323 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	1,580.59	363.53
27 15 23 00-0324 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	2,311.86	363.53
27 15 23 00-0325 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	6,340.31	424.13
27 15 23 00-0326 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	10,994.37	424.13

27 Communications
27 10 Structured Cabling
 27 15 Communications Horizontal Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0327 Hybrid, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0001)</small> Note: Singlemode and multimode combination cable. For non-conduit installations such as cable trays, surface runways, etc.		
27 15 23 00-0328 Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0327)</small>		
27 15 23 00-0329 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,517.16 242.36	484.71
27 15 23 00-0330 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,476.48 242.36	484.71
27 15 23 00-0331 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,531.31 272.65	545.30
27 15 23 00-0332 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	8,648.86 272.65	545.30
27 15 23 00-0333 Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0327)</small>		
27 15 23 00-0334 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,782.55 242.36	484.71
27 15 23 00-0335 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,513.82 242.36	484.71
27 15 23 00-0336 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,542.27 272.65	545.30
27 15 23 00-0337 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	11,196.33 272.65	545.30
27 15 23 00-0338 Outdoor Fiber Optic Cable <small>(27 15 23)</small> Note: Cable buried in trench excludes excavation.		
27 15 23 00-0339 Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0338)</small> Note: Excludes conduit or innerduct.		
27 15 23 00-0340 Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0339)</small>		
27 15 23 00-0341 Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0340)</small>		
27 15 23 00-0342 MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,731.54 253.89	727.07
27 15 23 00-0343 MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,763.15 255.99	727.07
27 15 23 00-0344 MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,794.80 258.02	727.07
27 15 23 00-0345 MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,826.43 260.50	727.07
27 15 23 00-0346 MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,889.28 235.71	727.07
27 15 23 00-0347 MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,017.84 262.62	727.07
27 15 23 00-0348 MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,083.93 206.74	727.07
27 15 23 00-0349 MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,104.32 241.65	727.07
27 15 23 00-0350 MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,482.53 265.86	727.07
27 15 23 00-0351 MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,691.04 265.83	727.07
27 15 23 00-0352 MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,961.58 314.19	727.07
27 15 23 00-0353 MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,437.84 301.65	727.07
27 15 23 00-0354 MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,958.23 366.30	727.07
27 15 23 00-0355 MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,502.87 245.20	727.07
27 15 23 00-0356 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0340)</small>		
27 15 23 00-0357 MLF 2-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,025.78 44.00	727.07
27 15 23 00-0358 MLF 4-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,071.98 74.80	727.07



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0359 MLF 6-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,168.78 121.00	727.07
27 15 23 00-0360 MLF 8-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,300.78 22.00	727.07
27 15 23 00-0361 MLF 12-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,355.78 44.00	727.07
27 15 23 00-0362 MLF 18-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,542.78 66.00	727.07
27 15 23 00-0363 MLF 24-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,938.78 44.00	727.07
27 15 23 00-0364 MLF 36-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,521.78 132.00	727.07
27 15 23 00-0365 MLF 48-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,170.78 44.00	727.07
27 15 23 00-0366 MLF 60-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,621.78 132.00	727.07
27 15 23 00-0367 MLF 72-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,204.78 517.00	727.07
27 15 23 00-0368 MLF 96-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,557.78 176.00	727.07
27 15 23 00-0369 MLF 120-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,899.78 209.00	727.07
27 15 23 00-0370 MLF 144-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,241.78 253.00	727.07
27 15 23 00-0371 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0340)</small>		
27 15 23 00-0372 MLF 2-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,512.23 108.57	727.07
27 15 23 00-0373 MLF 4-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,616.61 116.43	727.07
27 15 23 00-0374 MLF 6-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,720.83 124.10	727.07
27 15 23 00-0375 MLF 8-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,849.59 141.28	727.07
27 15 23 00-0376 MLF 12-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,033.98 147.32	727.07
27 15 23 00-0377 MLF 18-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,359.98 157.01	727.07
27 15 23 00-0378 MLF 24-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,668.79 180.56	727.07
27 15 23 00-0379 MLF 36-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,259.82 200.65	727.07
27 15 23 00-0380 MLF 48-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,951.10 230.71	727.07
27 15 23 00-0381 MLF 60-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,589.59 248.25	727.07
27 15 23 00-0382 MLF 72-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,263.49 280.98	727.07
27 15 23 00-0383 MLF 96-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,626.47 315.93	727.07
27 15 23 00-0384 MLF 120-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,011.33 358.54	727.07
27 15 23 00-0385 MLF 144-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,417.56 329.34	727.07
27 15 23 00-0386 Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0339)</small>		
27 15 23 00-0387 Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0386)</small>		
27 15 23 00-0388 MLF 2-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,912.55 200.63	727.07
27 15 23 00-0389 MLF 4-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,974.19 287.97	727.07
27 15 23 00-0390 MLF 6-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,992.69 275.98	727.07
27 15 23 00-0391 MLF 8-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,066.52 229.74	727.07
27 15 23 00-0392 MLF 12-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,089.56 274.58	727.07
27 15 23 00-0393 MLF 18-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,193.04 260.42	727.07
27 15 23 00-0394 MLF 24-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,285.81 263.51	727.07
27 15 23 00-0395 MLF 36-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,433.82 334.16	727.07
27 15 23 00-0396 MLF 48-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,642.33 338.52	727.07
27 15 23 00-0397 MLF 60-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,850.04 350.70	727.07

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0398 MLF 72-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,131.64 301.66	727.07
27 15 23 00-0399 MLF 96-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,587.13 393.42	727.07
27 15 23 00-0400 MLF 120-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,183.04 387.39	727.07
27 15 23 00-0401 MLF 144-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,670.69 309.44	727.07
27 15 23 00-0402 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0386)</small>		
27 15 23 00-0403 MLF 2-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,120.34 283.92	727.07
27 15 23 00-0404 MLF 4-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,336.12 159.00	727.07
27 15 23 00-0405 MLF 6-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,620.05 34.07	727.07
27 15 23 00-0406 MLF 8-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,756.33 56.78	727.07
27 15 23 00-0407 MLF 12-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,892.62 56.78	727.07
27 15 23 00-0408 MLF 18-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,210.61 68.14	727.07
27 15 23 00-0409 MLF 24-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,494.54 261.21	727.07
27 15 23 00-0410 MLF 36-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,107.82 511.06	727.07
27 15 23 00-0411 MLF 48-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,721.09 851.78	727.07
27 15 23 00-0412 MLF 60-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,232.16 936.95	727.07
27 15 23 00-0413 MLF 72-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,902.22 1,192.48	727.07
27 15 23 00-0414 MLF 96-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,299.13 1,760.34	727.07
27 15 23 00-0415 MLF 120-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,003.27 1,328.77	727.07
27 15 23 00-0416 MLF 144-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,809.03 3,236.74	727.07
27 15 23 00-0417 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0386)</small>		
27 15 23 00-0418 MLF 2-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,582.71 136.28	727.07
27 15 23 00-0419 MLF 4-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,684.93 147.32	727.07
27 15 23 00-0420 MLF 6-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,786.97 158.35	727.07
27 15 23 00-0421 MLF 8-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,889.18 169.36	727.07
27 15 23 00-0422 MLF 12-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,153.96 182.17	727.07
27 15 23 00-0423 MLF 18-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,413.59 213.47	727.07
27 15 23 00-0424 MLF 24-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,731.73 231.86	727.07
27 15 23 00-0425 MLF 36-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,347.52 286.48	727.07
27 15 23 00-0426 MLF 48-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,974.82 328.23	727.07
27 15 23 00-0427 MLF 60-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,604.29 365.50	727.07
27 15 23 00-0428 MLF 72-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,266.16 407.59	727.07
27 15 23 00-0429 MLF 96-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,609.27 480.60	727.07
27 15 23 00-0430 MLF 120-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,342.84 496.83	727.07
27 15 23 00-0431 MLF 144-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,358.78 512.88	727.07
27 15 23 00-0432 Outdoor Fiber Optic Cable, Buried In Trench <small>(27 15 23 00-0338)</small> Note: Excludes trenching.		
27 15 23 00-0433 Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <small>(27 15 23 00-0432)</small>		
27 15 23 00-0434 Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <small>(27 15 23 00-0433)</small>		
27 15 23 00-0435 MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,630.56 253.89	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0436 MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,662.17 255.99	
27 15 23 00-0437 MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,693.82 258.02	
27 15 23 00-0438 MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,725.45 260.50	
27 15 23 00-0439 MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,788.30 235.71	
27 15 23 00-0440 MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,916.86 262.62	
27 15 23 00-0441 MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,982.95 206.74	
27 15 23 00-0442 MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,003.34 241.65	
27 15 23 00-0443 MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,381.55 265.86	
27 15 23 00-0444 MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,855.89 265.83	
27 15 23 00-0445 MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,174.79 314.19	
27 15 23 00-0446 MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,336.86 301.65	
27 15 23 00-0447 MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,857.25 366.30	
27 15 23 00-0448 MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,401.89 245.20	
27 15 23 00-0449 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <small>(27 15 23 00-0433)</small>		
27 15 23 00-0450 MLF 2-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,924.80 44.00	
27 15 23 00-0451 MLF 4-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,971.00 74.80	
27 15 23 00-0452 MLF 6-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,067.80 121.00	
27 15 23 00-0453 MLF 8-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,199.80 22.00	
27 15 23 00-0454 MLF 12-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,254.80 44.00	
27 15 23 00-0455 MLF 18-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,441.80 66.00	
27 15 23 00-0456 MLF 24-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,837.80 44.00	
27 15 23 00-0457 MLF 36-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,420.80 132.00	
27 15 23 00-0458 MLF 48-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,069.80 44.00	
27 15 23 00-0459 MLF 60-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,520.80 132.00	
27 15 23 00-0460 MLF 72-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,103.80 517.00	
27 15 23 00-0461 MLF 96-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,456.80 176.00	
27 15 23 00-0462 MLF 120-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,798.80 209.00	
27 15 23 00-0463 MLF 144-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,140.80 253.00	
27 15 23 00-0464 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <small>(27 15 23 00-0433)</small>		
27 15 23 00-0465 MLF 2-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,411.25 108.57	
27 15 23 00-0466 MLF 4-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,515.63 116.43	
27 15 23 00-0467 MLF 6-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,619.85 124.10	
27 15 23 00-0468 MLF 8-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,748.61 141.28	
27 15 23 00-0469 MLF 12-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,933.00 147.32	
27 15 23 00-0470 MLF 18-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,259.00 157.01	
27 15 23 00-0471 MLF 24-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,567.81 180.56	
27 15 23 00-0472 MLF 36-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,158.84 200.65	
27 15 23 00-0473 MLF 48-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,850.12 230.71	
27 15 23 00-0474 MLF 60-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,488.61 248.25	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0475 MLF 72-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,162.51 280.98	
27 15 23 00-0476 MLF 96-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,525.49 315.93	
27 15 23 00-0477 MLF 120-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,910.35 358.54	
27 15 23 00-0478 MLF 144-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,316.58 329.34	
27 15 23 00-0479 Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <small>(27 15 23 00-0432)</small>		
27 15 23 00-0480 Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <small>(27 15 23 00-0479)</small>		
27 15 23 00-0481 MLF 2-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,811.57 200.63	
27 15 23 00-0482 MLF 4-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,873.21 287.97	
27 15 23 00-0483 MLF 6-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,891.71 275.98	
27 15 23 00-0484 MLF 8-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,965.54 229.74	
27 15 23 00-0485 MLF 12-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,988.58 274.58	
27 15 23 00-0486 MLF 18-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,092.06 260.42	
27 15 23 00-0487 MLF 24-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,184.83 263.51	
27 15 23 00-0488 MLF 36-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,332.84 334.16	
27 15 23 00-0489 MLF 48-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,541.35 338.52	
27 15 23 00-0490 MLF 60-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,749.06 350.70	
27 15 23 00-0491 MLF 72-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,030.66 301.66	
27 15 23 00-0492 MLF 96-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,486.15 393.42	
27 15 23 00-0493 MLF 120-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,082.06 387.39	
27 15 23 00-0494 MLF 144-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,569.71 309.44	
27 15 23 00-0495 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <small>(27 15 23 00-0479)</small>		
27 15 23 00-0496 MLF 2-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,019.36 283.92	
27 15 23 00-0497 MLF 4-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,235.14 159.00	
27 15 23 00-0498 MLF 6-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,519.07 34.07	
27 15 23 00-0499 MLF 8-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,655.35 56.78	
27 15 23 00-0500 MLF 12-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,791.64 56.78	
27 15 23 00-0501 MLF 18-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,109.63 68.14	
27 15 23 00-0502 MLF 24-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,393.56 261.21	
27 15 23 00-0503 MLF 36-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,006.84 511.06	
27 15 23 00-0504 MLF 48-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,620.11 851.78	
27 15 23 00-0505 MLF 60-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,131.18 936.95	
27 15 23 00-0506 MLF 72-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,801.24 1,192.48	
27 15 23 00-0507 MLF 96-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,198.15 1,760.34	
27 15 23 00-0508 MLF 120-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,902.29 1,328.77	
27 15 23 00-0509 MLF 144-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,708.05 3,236.74	
27 15 23 00-0510 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <small>(27 15 23 00-0479)</small>		
27 15 23 00-0511 MLF 2-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,481.73 136.28	
27 15 23 00-0512 MLF 4-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,583.95 147.32	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0513 MLF 6-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,685.99 158.35	
27 15 23 00-0514 MLF 8-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,788.20 169.36	
27 15 23 00-0515 MLF 12-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,052.98 182.17	
27 15 23 00-0516 MLF 18-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,312.61 213.47	
27 15 23 00-0517 MLF 24-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,630.75 231.86	
27 15 23 00-0518 MLF 36-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,246.54 286.48	
27 15 23 00-0519 MLF 48-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,873.84 328.23	
27 15 23 00-0520 MLF 60-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,503.31 365.50	
27 15 23 00-0521 MLF 72-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,165.18 407.59	
27 15 23 00-0522 MLF 96-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,508.29 480.60	
27 15 23 00-0523 MLF 120-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,939.24 496.83	
27 15 23 00-0524 MLF 144-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,257.80 512.88	
27 15 23 00-0525 (Aerial) Outdoor Fiber Optic Cable, Installed On Poles (27 15 23 00-0338)		
27 15 23 00-0526 Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles (27 15 23 00-0525)		
27 15 23 00-0527 Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles (27 15 23 00-0526)		
27 15 23 00-0528 MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,162.03 169.81	2,776.63
27 15 23 00-0529 MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,193.43 174.20	2,776.63
27 15 23 00-0530 MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,225.25 178.49	2,776.63
27 15 23 00-0531 MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,256.67 175.07	2,776.63
27 15 23 00-0532 MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,319.50 204.10	2,776.63
27 15 23 00-0533 MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,443.59 212.18	2,776.63
27 15 23 00-0534 MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,538.23 234.52	2,776.63
27 15 23 00-0535 MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,763.23 224.87	2,776.63
27 15 23 00-0536 MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,960.00 261.25	2,776.63
27 15 23 00-0537 MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,122.67 250.51	2,776.63
27 15 23 00-0538 MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,325.59 286.41	2,776.63
27 15 23 00-0539 MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,858.15 290.90	2,776.63
27 15 23 00-0540 MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,429.53 347.12	2,776.63
27 15 23 00-0541 MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,566.51 372.73	2,776.63
27 15 23 00-0542 Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0338) Note: Singlemode and multimode combination cable. Excludes conduit or innerduct.		
27 15 23 00-0543 Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0542)		
27 15 23 00-0544 MLF 12-Fiber, 6 Singlemode/6 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit.....	3,405.66	605.89
27 15 23 00-0545 MLF 24-Fiber, 12 Singlemode/12 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	4,325.13	605.89
27 15 23 00-0546 MLF 48-Fiber, 24 Singlemode/24 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	6,373.40	605.89
27 15 23 00-0547 Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0542)		
27 15 23 00-0548 MLF 12-Fiber, 6 Singlemode/6 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	4,578.40	605.89
27 15 23 00-0549 MLF 24-Fiber, 12 Singlemode/12 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	5,100.93	605.89
27 15 23 00-0550 MLF 48-Fiber, 24 Singlemode/24 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	7,386.59	605.89

27 Communications
27 10 Structured Cabling
27 15 Communications Horizontal Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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27 15 23 00-0551	Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0338) Note: Singlemode and multimode combination cable. Excludes trenching.		
27 15 23 00-0552	Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0551)		
27 15 23 00-0553	MLF 12-Fiber, 6 Singlemode/6 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	3,304.68	555.39
27 15 23 00-0554	MLF 24-Fiber, 12 Singlemode/12 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	4,224.15	555.39
27 15 23 00-0555	MLF 48-Fiber, 24 Singlemode/24 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	6,272.42	555.39
27 15 23 00-0556	Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0551)		
27 15 23 00-0557	MLF 12-Fiber, 6 Singlemode/6 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	4,477.42	555.39
27 15 23 00-0558	MLF 24-Fiber, 12 Singlemode/12 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	4,999.95	555.39
27 15 23 00-0559	MLF 48-Fiber, 24 Singlemode/24 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	7,285.61	555.39
27 15 23 00-0560	Network Communications Cabling And Related Products ^(27 15 23)		
27 15 23 00-0561	EA AC Surge Suppression Assembly Note: Liebert AccuVar Transient Voltage Surge Protection (TVSS) device or Atlantic Scientific Zone Defender Pro Model # 16100. Includes testing.	352.47	12.62
27 15 23 00-0562	EA Single Mode Fiber Optic To Ethernet Media Converter..... Note: Transition Networks part no. J/E-PSW-FX-02(SM). Includes testing.	593.11	15.15
27 15 23 00-0563	EA 6' Long Single Mode Patch Cord With SC duplex Connectors At Both Ends..... Note: Includes testing.	31.60	1.62
27 15 23 00-0564	EA KVM (Keyboard, Video, Mouse) Cable Note: Raritan CCP40. Includes testing.	71.84	2.02
27 15 23 00-0565	EA 6' Long USB (Universal Serial Bus) Cable Note: Includes testing.	11.00	1.62
27 15 23 00-0566	EA 10' Long USB (Universal Serial Bus) Cable Note: Includes testing.	13.03	2.02
27 15 23 00-0567	EA 6' Long Category 6 Patch Cables With A RJ-45 Connectors At Each End..... Note: Includes testing.	14.14	1.62
27 15 23 00-0568	EA 10' Long Category 6 Patch Cables With A RJ-45 Connectors At Each End..... Note: Includes testing.	16.17	2.02
27 15 23 00-0569	EA 6' Long Single Mode Patch Cord With SC Connectors At Both Ends Note: Includes testing.	23.35	1.62
27 15 23 00-0570	EA 20' Long Single Mode Patch Cord With SC Duplex Connectors At Both Ends Note: Includes testing.	50.55	2.02
27 15 23 00-0571	EA 6' Long Single Mode Patch Cord With SC Duplex Connector At One End And SC Connectors At The Other..... Note: Includes testing.	40.07	1.62
27 15 23 00-0572	EA 20' Long Single Mode Patch Cord With SC Duplex Connector At One End And SC Connectors At The Other..... Note: Includes testing.	50.55	2.02
27 15 23 00-0573	EA 6' Long Single Mode Patch Cord With SC Duplex Connector At One End And FC Connectors At The Other..... Note: Includes testing.	74.81	1.62
27 15 23 00-0574	EA 6' Long Single Mode Patch Cord With SC Connectors At One End And FC Connectors At The Other Note: Includes testing.	74.81	1.62
27 15 23 00-0575	LF 6 Strand Dielectric Indoor / Outdoor Fiber Optic Cable..... Note: Corning part no. 006ESF-T41O1D20. Includes testing.	0.81	
27 15 23 00-0576	LF 12 Strand Dielectric Indoor / Outdoor Fiber Optic Cable Note: Corning part no. 012ESF-T41O1D20. Includes testing.	6.07	
27 15 23 00-0577	LF 24 Strand Dielectric Indoor / Outdoor Fiber Optic Cable Note: Corning part no. 024EW4-T41O1D20. Includes testing.	7.42	
27 15 23 00-0578	LF 72 Strand Dielectric Indoor / Outdoor Fiber Optic Cable Note: Corning part no. 072EW4-T41O1D20. Includes testing.	12.11	
27 15 23 00-0579	LF 144 Strand Dielectric Indoor / Outdoor Fiber Optic Cable Note: Corning part no. 144EW4-T41O1D20. Includes testing.	18.97	
27 15 23 00-0580	LF 36 Strand Dielectric Indoor Plenum Rated Fiber Optic Cable Note: Corning part no. 036E81-61131-24. Includes testing.	11.85	
27 15 23 00-0581	LF 72 Strand Dielectric Indoor Plenum Rated Fiber Optic Cable Note: Corning part no. 072E81-T3131-24. Includes testing.	18.34	
27 15 23 00-0582	EA Aerial Storage Unit Note: Alcola part no. FSU-16. Includes testing.	95.61	10.10
27 15 23 00-0583	EA Spider Fan-Out Kits With SC Connectors Note: Corning part no. SFK-P-12-900-S.	116.27	10.10
27 15 23 00-0584	LF Ultraviolet Resistant Rated Category 6 Cable..... Note: Includes RJ 45 connectors at both ends. CommScope part no. 6NF4+. Includes testing.	1.09	0.18
27 15 23 00-0585	LF RG11 Coaxial Cable NEC CMR..... Note: Corning part no. SFK-P-12-900-S.	3.98	1.89
27 15 23 00-0586	LF Outdoor Rated UL Type CL2 Note: Aluminum foil-polyester tape 100% shield coverage twisted (6 twists per foot) single pair 19 X 27 stranding tin copper coated #14 AWG conductor Audio, Control, and Instrumentation Cable with polyethylene insulation and PVC jacket. Belden 8720. Includes testing.	3.97	
27 15 23 00-0587	LF Indoor Plenum Rated UL Type CMP Note: 100% aluminum foil shield coverage twisted (6 twists per foot) 4 pairs 7X32 stranding tin copper coated #24 AWG conductor Computer Cable with Fluorinated Ethylene Propylene insulation and plenum rated jacket. Belden 82504. Includes testing.	5.67	1.89

27 15 33 Communications Coaxial Horizontal Cabling ^(27 15)
 Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
includes installation on exposed surfaces, uncovered wireways, cable trays, etc.		
27 15 33 00-0001 Indoor Coaxial Cable <small>(27 15 33)</small>		
27 15 33 00-0002 Coaxial, Indoor Telecommunications Cable <small>(27 15 33 00-0001)</small>		
27 15 33 00-0003 Coaxial, Indoor Telecommunications Cable, Installed In Conduit <small>(27 15 33 00-0002)</small>		
27 15 33 00-0004 MLF RG 59/U Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 9108).....	1,180.64	424.13
27 15 33 00-0005 MLF RG 59/U Plenum Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 82108).....	2,531.97	424.13
27 15 33 00-0006 MLF RG 6/U Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 9114).....	1,035.99	484.71
27 15 33 00-0007 MLF RG 6/U Plenum Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 82120).....	3,165.28	484.71
27 15 33 00-0008 Coaxial, Indoor Telecommunications Cable, Installed Exposed <small>(27 15 33 00-0002)</small>		
27 15 33 00-0009 MLF RG 59/U Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 9108).....	1,887.50	848.24
<i>For Work In Restricted Working Space, Add</i>	424.12	
27 15 33 00-0010 MLF RG 59/U Plenum Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 82108).....	3,238.83	848.24
<i>For Work In Restricted Working Space, Add</i>	424.12	
27 15 33 00-0011 MLF RG 6/U Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 9114).....	1,843.84	969.42
<i>For Work In Restricted Working Space, Add</i>	484.71	
27 15 33 00-0012 MLF RG 6/U Plenum Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 82120).....	3,973.13	969.42
<i>For Work In Restricted Working Space, Add</i>	484.71	
27 15 33 00-0013 Coaxial Distribution Cable <small>(27 15 33 00-0001)</small>		
Note: Cables shall be as Belden, Times Fiber, West Penn or approved equal		
27 15 33 00-0014 MLF RG-6/U Coaxial Distribution Cable, In Conduit.....	1,831.13	295.19
27 15 33 00-0015 MLF RG-6A/U Coaxial Distribution Cable, In Conduit.....	6,376.86	295.19
27 15 33 00-0016 MLF RG-8/U Coaxial Distribution Cable, In Conduit.....	3,437.80	311.79
27 15 33 00-0017 MLF RG-8A/U Coaxial Distribution Cable, In Conduit.....	4,291.68	311.79
27 15 33 00-0018 MLF RG-11/U Coaxial Distribution Cable, In Conduit.....	3,862.78	368.98
27 15 33 00-0019 MLF RG-11A/U Coaxial Distribution Cable, In Conduit.....	5,514.12	368.98
27 15 33 00-0020 MLF RG-11/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	11,776.94	516.58
27 15 33 00-0021 MLF RG-58/U Coaxial Distribution Cable, In Conduit.....	1,370.71	258.29
27 15 33 00-0022 MLF RG-58A/U Coaxial Distribution Cable, In Conduit.....	1,539.92	258.29
27 15 33 00-0023 MLF RG-58C/U Coaxial Distribution Cable, In Conduit.....	1,837.98	258.29
27 15 33 00-0024 MLF RG-58/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	4,430.59	516.58
27 15 33 00-0025 MLF RG-59/U Coaxial Distribution Cable, In Conduit.....	2,161.21	258.29
27 15 33 00-0026 MLF RG-59/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	5,317.44	516.58
27 15 33 00-0027 MLF 1/2" Hard Line Coaxial, In Conduit.....	1,886.02	368.98
27 15 33 00-0028 Outdoor Coaxial Cable <small>(27 15 33)</small>		
27 15 33 00-0029 Coaxial Cables "Television" Copper Covered Aluminum Center Core <small>(27 15 33 00-0028)</small>		
Note: Corrugated steel armor jacket.		
27 15 33 00-0030 MLF TV Coaxial Trunk Cable 3/4" Diameter, Direct Burial.....	5,334.22	1,381.11
27 15 33 00-0031 MLF TV Coaxial Distribution Cable 1/2" Diameter, Direct Burial.....	3,393.75	971.45
27 15 33 00-0032 MLF TV Coaxial Distribution Cable 3/8" Diameter, Direct Burial.....	2,792.08	573.13
27 15 33 00-0033 MLF TV Coaxial Cable Drop 1/4" Diameter, Direct Burial.....	1,606.83	573.13
27 15 33 00-0034 MLF 1/4" Diameter, TV Coaxial Cable Drop, Installed In Conduit.....	2,412.83	895.53
27 15 43 Communications Faceplates and Connectors <small>(27 15)</small>		
27 15 43 00-0001 Wall Mounted Telephone Faceplates <small>(27 15 43)</small>		
Note: Includes standard telephone mounting studs.		
27 15 43 00-0002 Plastic Faceplates For Wall Mounted Telephones <small>(27 15 43 00-0001)</small>		
27 15 43 00-0003 EA Single Gang, 6-Position RJ25 Jack, Flush, Plastic Faceplate For Wall Mounted Telephones.....	34.27	12.62
27 15 43 00-0004 Stainless Steel Faceplates For Wall Mounted Telephones <small>(27 15 43 00-0001)</small>		
27 15 43 00-0005 EA Single Gang, Keystone Opening, Flush, Stainless Steel Faceplate For Wall Mounted Telephones.....	26.98	5.05
Note: Requires one snap-in modular jack.		
27 15 43 00-0006 EA Single Gang, 6-Position RJ25 Jack, Flush, Stainless Steel Faceplate For Wall Mounted Telephones.....	48.05	12.62
27 15 43 00-0007 EA Single Gang, 8-Position RJ45 Jack, Flush, Stainless Steel Faceplate For Wall Mounted Telephones.....	56.05	15.15
27 15 43 00-0008 EA Single Gang, Keystone Opening, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones.....	25.99	5.05
Note: Requires one snap-in modular jack.		
27 15 43 00-0009 EA Single Gang, 6-Position RJ25 Jack, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones.....	43.88	12.62
27 15 43 00-0010 EA Single Gang, 8-Position RJ45 Jack, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones.....	51.99	15.15
27 15 43 00-0011 Plastic Communications Faceplates <small>(27 15 43)</small>		
Note: Excludes modular jacks. See CSI section 27 15 43 00-0051 for modular jacks.		
27 15 43 00-0012 EA One Port, Single Gang, Plastic Communication Faceplate With Station ID.....	7.77	2.53
27 15 43 00-0013 EA Two Port, Single Gang, Plastic Communication Faceplate With Station ID.....	7.77	2.53
27 15 43 00-0014 EA Three Port, Single Gang, Plastic Communication Faceplate With Station ID.....	7.77	2.53
27 15 43 00-0015 EA Four Port, Single Gang, Plastic Communication Faceplate With Station ID.....	7.77	2.53
27 15 43 00-0016 EA Six Port, Single Gang, Plastic Communication Faceplate With Station ID.....	7.77	2.53
27 15 43 00-0017 EA Four Port, Double Gang, Plastic Communications Faceplate With Station ID.....	12.62	2.53
27 15 43 00-0018 EA Six Port, Double Gang, Plastic Communication Faceplate With Station ID.....	12.62	2.53

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 43 00-0019 EA Eight Port, Double Gang, Plastic Communication Faceplate With Station ID	12.62	2.53
27 15 43 00-0020 EA Nine Port, Double Gang, Plastic Communication Faceplate With Station ID	12.62	2.53
27 15 43 00-0021 EA Twelve Port, Double Gang, Plastic Communication Faceplate With Station ID	12.62	2.53
27 15 43 00-0022 Stainless Steel Communications Faceplates <small>(27 15 43)</small>		
Note: Excludes modular jacks. See CSI section 27 15 43 00-0051 for modular jacks.		
27 15 43 00-0023 Stainless Steel Communications Faceplates <small>(27 15 43 00-0022)</small>		
27 15 43 00-0024 EA One Port, Single Gang, Stainless Steel Communications Faceplate	14.34	2.53
27 15 43 00-0025 EA Two Port, Single Gang, Stainless Steel Communications Faceplate	14.34	2.53
27 15 43 00-0026 EA Three Port, Single Gang, Stainless Steel Communications Faceplate	14.34	2.53
27 15 43 00-0027 EA Four Port, Single Gang, Stainless Steel Communications Faceplate	15.31	2.53
27 15 43 00-0028 EA Six Port, Single Gang, Stainless Steel Communications Faceplate	15.31	2.53
27 15 43 00-0029 EA Four Port, Double Gang, Stainless Steel Communications Faceplate	20.49	2.53
27 15 43 00-0030 EA Six Port, Double Gang, Stainless Steel Communications Faceplate	21.10	2.53
27 15 43 00-0031 EA Eight Port, Double Gang, Stainless Steel Communications Faceplate	24.35	2.53
27 15 43 00-0032 EA Nine Port, Double Gang, Stainless Steel Communication Faceplate	24.35	2.53
27 15 43 00-0033 EA Twelve Port, Double Gang, Stainless Steel Communications Faceplate	24.35	2.53
27 15 43 00-0034 Stainless Steel Communications Faceplates With Station ID <small>(27 15 43 00-0022)</small>		
27 15 43 00-0035 EA One Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	20.37	2.53
27 15 43 00-0036 EA Two Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	20.37	2.53
27 15 43 00-0037 EA Three Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	20.37	2.53
27 15 43 00-0038 EA Four Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	20.37	2.53
27 15 43 00-0039 EA Six Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	20.37	2.53
27 15 43 00-0040 EA Four Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	43.40	2.53
27 15 43 00-0041 EA Six Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	43.40	2.53
27 15 43 00-0042 EA Eight Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	43.40	2.53
27 15 43 00-0043 EA Nine Port, Double Gang, Stainless Steel Communication Faceplate With Station ID	43.40	2.53
27 15 43 00-0044 EA Twelve Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	43.40	2.53
27 15 43 00-0045 Surface Mount Plastic Communication Boxes <small>(27 15 43)</small>		
Note: Excludes modular jacks. See CSI section 27 15 43 00-0051 for modular jacks.		
27 15 43 00-0046 EA One Port, Surface Mount Plastic Communication Box With Station ID	28.74	12.65
27 15 43 00-0047 EA Two Port, Surface Mount Plastic Communication Box With Station ID	29.34	12.65
27 15 43 00-0048 EA Four Port, Surface Mount Plastic Communication Box With Station ID	33.50	12.65
27 15 43 00-0049 EA Six Port, Surface Mount Plastic Communication Box With Station ID	38.44	12.65
27 15 43 00-0050 EA Twelve Port, Surface Mount Plastic Communication Box With Station ID	43.63	12.65
27 15 43 00-0051 Snap-In Modular Jacks <small>(27 15 43)</small>		
Note: Includes termination.		
27 15 43 00-0052 EA Cat 3, Snap-In Modular Jack	27.10	10.12
27 15 43 00-0053 EA Cat 5E, Snap-In Modular Jack	28.43	10.12
27 15 43 00-0054 EA Cat 5E Shielded, Snap-In Modular Jack	32.41	10.12
27 15 43 00-0055 EA Cat 6, Snap-In Modular Jack	32.41	10.12
27 15 43 00-0056 EA Cat 6 Shielded, Snap-In Modular Jack	36.87	10.12
27 15 43 00-0057 EA Cat 6A, Snap-In Modular Jack	37.54	10.12
27 15 43 00-0058 EA Voice, RJ-11, Snap-In Modular Jack	18.79	5.06
27 15 43 00-0059 EA SC Type Fiber Optic, Snap-In Modular Jack	30.12	10.12
27 15 43 00-0060 EA ST Type Fiber Optic, Snap-In Modular Jack	33.49	10.12
27 15 43 00-0061 EA LC Type Fiber Optic, Snap-In Modular Jack	40.12	10.12
27 15 43 00-0062 EA Blank Fill In, Snap-In Modular Jack	5.69	2.53
27 15 43 00-0063 EA Open Cable Pass Through Insert, Snap-In Modular Jack	6.59	2.53
27 15 43 00-0064 EA Coaxial F-Type Coupler, Snap-In Modular Jack	22.53	7.58
Note: Includes female to female connection.		
<i>For Gold Bulkhead, Add</i>	1.29	
27 15 43 00-0065 EA RCA Jack Pass-Through Coupler, Snap-In Modular Jack	22.78	7.58
Note: Includes female to female connection.		
27 15 43 00-0066 EA RCA Solder Coupler, Snap-In Modular Jack	46.15	10.12
27 15 43 00-0067 EA RCA Jack With 110 Punch Down, Snap-In Modular Jack	55.91	10.12
27 15 43 00-0068 EA 3.5 m Mini Stereo Jack, Snap-In Modular Jack	28.07	10.12
27 15 43 00-0069 EA MT-RJ Pass-Through Coupler, Snap-In Modular Jack	28.78	5.06
27 15 43 00-0070 EA BNC Connector, Snap-In Modular Jack	32.05	10.12
27 15 43 00-0071 EA S-Video With 110 Punch Down, Snap-In Modular Jack	35.66	10.12
27 15 43 00-0072 PR Speaker Connectors, Snap-In Modular Jack	48.79	15.18
Note: Includes a pair of binding posts, banana jacks or spring clip connectors. Requires two open ports.		
27 15 43 00-0073 EA USB Audio Video Connector, Snap-In Modular Jack	52.30	10.12
27 15 53 Communications Cable Innerduct <small>(27 15)</small>		
Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.		
27 15 53 00-0001 Indoor Innerduct <small>(27 15 53)</small>		
27 15 53 00-0002 Indoor Innerduct, Installed In Conduit <small>(27 15 53 00-0001)</small>		
27 15 53 00-0003 Riser Rated, Indoor Innerduct, Installed In Conduit <small>(27 15 53 00-0002)</small>		
27 15 53 00-0004 MLF 1" Riser Rated, Indoor Innerduct, Installed In Conduit	3,855.32	1,514.72



Communications	27	27
Structured Cabling	27 10	
Communications Horizontal Cabling	27 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 53 00-0005 MLF 1-1/4" Riser Rated, Indoor Innerduct, Installed In Conduit	5,005.71	2,019.62
27 15 53 00-0006 MLF 1-1/2" Riser Rated, Indoor Innerduct, Installed In Conduit	6,612.97	2,524.53
27 15 53 00-0007 MLF 2" Riser Rated, Indoor Innerduct, Installed In Conduit	7,745.78	3,029.44
27 15 53 00-0008 Plenum Rated, Indoor Innerduct, Installed In Conduit (27 15 53 00-0002)		
27 15 53 00-0009 MLF 3/4" Plenum Rated, Indoor Innerduct, Installed In Conduit	5,450.09	1,009.81
27 15 53 00-0010 MLF 1" Plenum Rated, Indoor Innerduct, Installed In Conduit	6,116.78	1,514.72
27 15 53 00-0011 MLF 1-1/4" Plenum Rated, Indoor Innerduct, Installed In Conduit	7,757.19	2,019.62
27 15 53 00-0012 MLF 1-1/2" Plenum Rated, Indoor Innerduct, Installed In Conduit	9,949.38	2,524.53
27 15 53 00-0013 MLF 2" Plenum Rated, Indoor Innerduct, Installed In Conduit	11,970.79	3,029.44
27 15 53 00-0014 Indoor Innerduct, Installed Exposed (27 15 53 00-0001)		
27 15 53 00-0015 Riser Rated, Indoor Innerduct, Installed Exposed (27 15 53 00-0014)		
27 15 53 00-0016 MLF 1" Riser Rated, Indoor Innerduct, Installed Exposed	4,865.13	2,019.62
For Work In Restricted Working Space, Add	1,211.78	
27 15 53 00-0017 MLF 1-1/4" Riser Rated, Indoor Innerduct, Installed Exposed	6,015.52	2,524.53
For Work In Restricted Working Space, Add	1,514.72	
27 15 53 00-0018 MLF 1-1/2" Riser Rated, Indoor Innerduct, Installed Exposed	7,622.78	3,029.44
For Work In Restricted Working Space, Add	1,817.66	
27 15 53 00-0019 MLF 2" Riser Rated, Indoor Innerduct, Installed Exposed	8,755.58	3,534.34
For Work In Restricted Working Space, Add	2,120.60	
27 15 53 00-0020 Plenum Rated, Indoor Innerduct, Installed Exposed (27 15 53 00-0014)		
27 15 53 00-0021 MLF 3/4" Plenum Rated, Indoor Innerduct, Installed Exposed	6,459.91	1,514.72
27 15 53 00-0022 MLF 1" Plenum Rated, Indoor Innerduct, Installed Exposed	7,126.59	2,019.62
For Work In Restricted Working Space, Add	1,211.78	
27 15 53 00-0023 MLF 1-1/4" Plenum Rated, Indoor Innerduct, Installed Exposed	8,767.00	2,524.53
For Work In Restricted Working Space, Add	1,514.72	
27 15 53 00-0024 MLF 1-1/2" Plenum Rated, Indoor Innerduct, Installed Exposed	10,959.19	3,029.44
For Work In Restricted Working Space, Add	1,817.66	
27 15 53 00-0025 MLF 2" Plenum Rated, Indoor Innerduct, Installed Exposed	12,980.59	3,534.34
For Work In Restricted Working Space, Add	2,120.60	
27 15 53 00-0026 Outdoor Innerduct (27 15 53)		
27 15 53 00-0027 Outdoor Innerduct, Installed In Conduit (27 15 53 00-0026)		
27 15 53 00-0028 MLF 1" Outdoor Innerduct, Installed In Conduit	3,644.46	1,514.72
27 15 53 00-0029 MLF 1-1/4" Outdoor Innerduct, Installed In Conduit	4,694.76	2,019.62
27 15 53 00-0030 MLF 1-1/2" Outdoor Innerduct, Installed In Conduit	5,984.24	2,524.53
27 15 53 00-0031 MLF 2" Outdoor Innerduct, Installed In Conduit	7,150.79	3,029.44
27 15 53 00-0032 Outdoor Innerduct, Buried In Trench (27 15 53 00-0026)		
27 15 53 00-0033 MLF 1" Outdoor Innerduct, Buried In Trench	2,634.64	
27 15 53 00-0034 MLF 1-1/4" Outdoor Innerduct, Buried In Trench	3,684.95	
27 15 53 00-0035 MLF 1-1/2" Outdoor Innerduct, Buried In Trench	4,974.43	
27 15 53 00-0036 MLF 2" Outdoor Innerduct, Buried In Trench	6,140.98	
27 16 Communications Connecting Cords, Devices, and Adapters (27 10)		
27 16 16 Communications Media Converters, Adapters, and Transceivers (27 16)		
27 16 16 00-0001 Fiber Optic Receivers (27 16 16)		
27 16 16 00-0002 EA Fiber Optic Receiver, Range 6.2 Miles	782.52	50.49
27 16 16 00-0003 EA Fiber Optic MM Dual Video Receiver, Manual Gain	811.20	99.45
Note: With video presence Ind, RM.		
27 16 16 00-0004 Fiber Optic Transmitters (27 16 16)		
27 16 16 00-0005 EA Fiber Optic Transmitter, Range 6.2 Miles	782.51	50.49
27 16 16 00-0006 EA Fiber Optic MM Dual Video Transmitter Video Presence Indicator	811.20	99.45
27 16 16 00-0007 Fiber Optic Repeaters (27 16 16)		
Note: Consist of transmitter and receiver, back-to-back. Excludes power source.		
27 16 16 00-0008 EA Fiber Optic Repeater, 6.2 Miles Transmitter And Receiver Back-Back, No Power	883.50	100.98
27 16 16 00-0009 EA Fiber Optic Digital Repeater, 2,000 Miles Transmitter And Receiver Back-Back, No Power	1,386.84	201.97
27 16 16 00-0010 Fiber Optic Transceivers (27 16 16)		
27 16 16 00-0011 EA Fiber Optic Transceivers, 3,000 Miles Range	924.53	201.97
27 16 16 00-0012 EA Fiber Optic Transceivers, Digital 2,000 Miles Range	924.53	201.97
27 16 16 00-0013 EA Fiber Optic Ethernet Transceiver	1,214.39	302.94
27 16 16 00-0014 EA Transceiver (Low Cost Bi- Directional)	440.74	75.73

27 Communications**27 10 Structured Cabling****27 16 Communications Connecting Cords, Devices, and Adapters**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST
27 16 19 Communications Patch Cords, Station Cords, and Cross Connect Wire (27 16)**27 16 19 00-0001 Cross Connect Wire (27 16 19)**

Note: Up to 20' length.

27 16 19 00-0002	EA	2-Pair Cross Connect Wire	16.15	
27 16 19 00-0003	EA	3-Pair Cross Connect Wire	21.62	
27 16 19 00-0004	EA	4-Pair Cross Connect Wire	27.05	

27 16 19 00-0005 Fiber Optic Patch Cords (27 16 19)**27 16 19 00-0006 Simplex Fiber Optic Patch Cables (27 16 19 00-0005)****27 16 19 00-0007 Singlemode, Simplex Fiber Optic Patch Cables (27 16 19 00-0006)**

27 16 19 00-0008	EA	ST To ST Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	40.24	
		<i>For Each Additional Meter In Length, Add</i>	0.26	
27 16 19 00-0009	EA	ST To SC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	32.96	
		<i>For Each Additional Meter In Length, Add</i>	0.26	
27 16 19 00-0010	EA	ST To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	42.42	
		<i>For Each Additional Meter In Length, Add</i>	0.26	
27 16 19 00-0011	EA	SC To SC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	34.62	
		<i>For Each Additional Meter In Length, Add</i>	0.26	
27 16 19 00-0012	EA	SC To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	39.93	
		<i>For Each Additional Meter In Length, Add</i>	0.26	
27 16 19 00-0013	EA	LC To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	39.35	
		<i>For Each Additional Meter In Length, Add</i>	0.26	

27 16 19 00-0014 Duplex Fiber Optic Patch Cables (27 16 19 00-0005)**27 16 19 00-0015 Singlemode, Duplex Fiber Optic Patch Cables (27 16 19 00-0014)**

27 16 19 00-0016	EA	ST To ST Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	69.50	
		<i>For Each Additional Meter In Length, Add</i>	0.51	
27 16 19 00-0017	EA	ST To SC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	67.45	
		<i>For Each Additional Meter In Length, Add</i>	0.51	
27 16 19 00-0018	EA	ST To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	74.74	
		<i>For Each Additional Meter In Length, Add</i>	0.51	
27 16 19 00-0019	EA	SC To SC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	58.29	
		<i>For Each Additional Meter In Length, Add</i>	0.51	
27 16 19 00-0020	EA	SC To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	68.89	
		<i>For Each Additional Meter In Length, Add</i>	0.51	
27 16 19 00-0021	EA	LC To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	67.73	
		<i>For Each Additional Meter In Length, Add</i>	0.51	

27 16 19 00-0022 Multimode, Duplex Fiber Optic Patch Cables (27 16 19 00-0014)

27 16 19 00-0023	EA	ST To ST Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	52.67	
		<i>For Each Additional Meter In Length, Add</i>	1.48	
27 16 19 00-0024	EA	ST To SC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	57.43	
		<i>For Each Additional Meter In Length, Add</i>	1.48	
27 16 19 00-0025	EA	ST To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	57.92	
		<i>For Each Additional Meter In Length, Add</i>	1.48	
27 16 19 00-0026	EA	ST To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	59.45	
		<i>For Each Additional Meter In Length, Add</i>	1.48	
27 16 19 00-0027	EA	SC To SC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	52.88	
		<i>For Each Additional Meter In Length, Add</i>	1.48	
27 16 19 00-0028	EA	SC To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	59.72	
		<i>For Each Additional Meter In Length, Add</i>	1.48	
27 16 19 00-0029	EA	SC To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	70.04	
		<i>For Each Additional Meter In Length, Add</i>	1.48	
27 16 19 00-0030	EA	MTRJ To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	48.49	
		<i>For Each Additional Meter In Length, Add</i>	1.48	
27 16 19 00-0031	EA	LC To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	58.83	
		<i>For Each Additional Meter In Length, Add</i>	1.48	

27 16 19 00-0032 Fiber Optic Cable Pig Tail (27 16 19)

27 16 19 00-0033	EA	Simplex Fiber Optic Cable Pig Tail	67.18	35.34
27 16 19 00-0034	EA	Duplex Fiber Optic Cable Pig Tail	84.44	35.34

27 16 19 00-0035 Ethernet Patch Cords (27 16 19)

27 16 19 00-0036	EA	3' Category 5E Patch Cables With Boots	13.83	
27 16 19 00-0037	EA	5' Category 5E Patch Cables With Boots	15.12	
27 16 19 00-0038	EA	7' Category 5E Patch Cables With Boots	16.44	
27 16 19 00-0039	EA	10' Category 5E Patch Cables With Boots	23.89	
27 16 19 00-0040	EA	15' Category 5E Patch Cables With Boots	29.96	
27 16 19 00-0041	EA	25' Category 5E Patch Cables With Boots	39.86	
27 16 19 00-0042	EA	3' Category 6 Patch Cables With Boots	15.37	
27 16 19 00-0043	EA	5' Category 6 Patch Cables With Boots	18.67	
27 16 19 00-0044	EA	7' Category 6 Patch Cables With Boots	18.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 16 19 00-0045 EA 10' Category 6 Patch Cables With Boots	22.32	
27 16 19 00-0046 EA 15' Category 6 Patch Cables With Boots	29.47	
27 16 19 00-0047 EA 25' Category 6 Patch Cables With Boots	37.18	
27 16 19 00-0048 EA 50' Category 6 Patch Cables With Boots	58.89	
27 16 19 00-0049 EA 100' Category 6 Patch Cables With Boots	102.91	
27 16 19 00-0050 EA 3' Category 6A Patch Cables With Boots	28.79	
27 16 19 00-0051 EA 5' Category 6A Patch Cables With Boots	30.75	
27 16 19 00-0052 EA 7' Category 6A Patch Cables With Boots	32.22	
27 16 19 00-0053 EA 10' Category 6A Patch Cables With Boots	36.93	
27 16 19 00-0054 EA 15' Category 6A Patch Cables With Boots	44.83	
27 16 19 00-0055 EA 25' Category 6A Patch Cables With Boots	57.47	
27 16 19 00-0056 EA 50' Category 6A Patch Cables With Boots	85.83	
27 16 19 00-0057 EA 100' Category 6A Patch Cables With Boots	151.93	
27 16 19 00-0058 EA 3' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E03-06)	13.83	
27 16 19 00-0059 EA 5' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E05-06)	15.12	
27 16 19 00-0060 EA 7' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E07-06)	16.44	
27 16 19 00-0061 EA 10' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E10-06)	23.89	
27 16 19 00-0062 EA 15' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E15-06)	29.96	
27 16 19 00-0063 EA 25' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E25-06)	39.86	
27 16 19 00-0064 EA 3' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC603-06)	15.37	
27 16 19 00-0065 EA 5' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC605-06)	18.67	
27 16 19 00-0066 EA 7' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC607-06)	18.74	
27 16 19 00-0067 EA 10' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC610-06)	22.32	
27 16 19 00-0068 EA 15' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC615-06)	29.47	
27 16 19 00-0069 EA 25' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC625-06)	37.18	
27 16 19 00-0070 EA 3' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A03-09)	28.79	
27 16 19 00-0071 EA 5' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A05-09)	30.75	
27 16 19 00-0072 EA 7' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A07-09)	32.22	
27 16 19 00-0073 EA 10' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A10-09)	36.93	
27 16 19 00-0074 EA 15' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A15-09)	44.83	
27 16 19 00-0075 EA 25' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A25-09)	57.47	

27 20 Data Communications ⁽²⁷⁾

27 21 Data Communications Network Equipment ⁽²⁷²⁰⁾

Note: Includes testing of new devices and certification.

27 21 16 Data Communications Routers, CSU/DSU, Multiplexers, Codecs, and Modems

^(27 21)

27 21 16 00-0001 Fiber Optic Modems ^(27 21 16)

27 21 16 00-0002 EA Fiber Optic Modems, Range 6.2 Miles	1,539.80	201.97
27 21 16 00-0003 EA Fiber Optic Modem, Range 3.1 Miles, 12 Channel	2,959.66	201.97

27 21 16 00-0004 Ethernet Hubs and Switches ^(27 21 16)

27 21 16 00-0005 EA 16 Port Managed Hub With Fiberport And Standard Management	2,885.49	151.77
27 21 16 00-0006 EA 16 Port Unmanaged Hub	481.85	101.18
27 21 16 00-0007 EA 12 Port, Industrial Ethernet Switch (Cisco IE-4000-4GC4GP4G-E)	3,962.20	101.18
27 21 16 00-0008 EA Power Supply (Cisco PWR-IE170W-PC-AC)	1,178.88	50.59

27 21 16 00-0009 Network Equipment ^(27 21 16)

27 21 16 00-0010 Communications Entrance Protection ^(27 21 16 00-0009)

27 21 16 00-0011 EA 100-Pair, 5 Pin Configuration, 110 Termination, Building Entrance Terminal With Cover (Porta 24100-110-M110C)	831.69	75.88
Note: Excludes terminations.		
27 21 16 00-0012 EA Solid State Protector Module With 4 OHM Heat Coils (CommScope 4C1S)	10.05	1.01

27 21 16 00-0013 Communications Cabinets, Racks, Frames And Enclosures ^(27 21 16 00-0009)

27 21 16 00-0014 EA 19" Width x 36" Height x 24" Depth, Wall Mounted Telecommunications Enclosure (Chatsworth 11840-736)	1,005.78	75.88
<i>For Fan Kit (Chatsworth 12804-701), Add 137.19</i>		
27 21 16 00-0015 EA 10 Outlet, 125 Volt, 20 Amperes, Telecommunications Cabinet Power Strip (Chatsworth 13239-757)	901.67	5.06

27 21 16 00-0016 Communications Termination Blocks And Patch Panels ^(27 21 16 00-0009)

27 21 16 00-0017 Communications Termination Blocks ^(27 21 16 00-0016)

27 21 16 00-0018 EA 4-Pair, 300-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058810)	318.18	15.15
27 21 16 00-0019 EA 5-Pair, 300-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058802)	295.89	15.15
27 21 16 00-0020 EA 4-Pair, 900-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058869)	713.77	15.15
27 21 16 00-0021 EA 5-Pair, 900-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058851)	663.63	15.15
27 21 16 00-0022 EA 110 Connector System Mounting Brackets (CommScope 107535593)	97.52	15.15
27 21 16 00-0023 EA 110 Connector System Mounting Brackets (CommScope 107535585)	105.62	15.15
27 21 16 00-0024 EA 110 Connector System Mounting Brackets (CommScope 107098816)	120.78	15.15

27 21 16 00-0025 Communications Copper Patch Panels ^(27 21 16 00-0016)

Note: Excludes cabinet and terminations.

27 21 16 00-0026 EA 24 Port, Category 5E Patch Panel (CommScope 108208919)	310.55	32.88
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27	Communications
27 20	Data Communications
27 21	Data Communications Network Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 16 00-0027 EA 48 Port, Category 5E Patch Panel (CommScope 108208935)	570.52	40.48
27 21 16 00-0028 EA 24 Port, Category 6 Patch Panel (CommScope 760062372)	463.27	32.88
27 21 16 00-0029 EA 48 Port, Category 6 Patch Panel (CommScope 760062380)	869.60	40.48
27 21 16 00-0030 Communications Optical Fiber Patch Panels (27 21 16 00-0016)		
27 21 16 00-0031 Closet Connector Housings (27 21 16 00-0030)		
27 21 16 00-0032 EA 48 Fiber Total Capacity, Closet Connector Housing (Corning CCH-01U)	360.34	20.23
Note: Accepts up to 2 closet connector housing panels. Excludes panels.		
27 21 16 00-0033 EA 96 Fiber Total Capacity, Closet Connector Housing (Corning CCH-02U)	420.84	20.23
Note: Accepts up to 4 closet connector housing panels. Excludes panels.		
27 21 16 00-0034 EA 288 Fiber Total Capacity, Closet Connector Housing (Corning CCH-04U)	525.15	20.23
Note: Accepts up to 12 closet connector housing panels. Excludes panels.		
27 21 16 00-0035 EA SC Duplex Multimode, 62.5 Micron, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-91)	111.93	10.12
27 21 16 00-0036 EA SC Duplex Singlemode, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-59)	152.96	10.12
27 21 16 00-0037 EA SC Simplex Multimode, 62.5 Micron, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-56)	126.42	10.12
27 21 16 00-0038 EA SC Simplex Singlemode, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-3C)	166.22	10.12
27 21 16 00-0039 Communications Cable Management (27 21 16 00-0009)		
27 21 16 00-0040 Horizontal Communication Cable Management (27 21 16 00-0039)		
27 21 16 00-0041 EA 1.7" Height, 19" Width, 3.7" Depth, 1 RU, Front Only, Horizontal Cable Manager (Panduit WMPFSE)	117.10	20.23
27 21 16 00-0042 EA 3-1/2" Height, 19" Width, 3.7" Depth, Horizontal Cable Manager (Panduit WMPF1E)	121.07	20.23
27 21 16 00-0043 Vertical Communication Cable Management (27 21 16 00-0039)		
27 21 16 00-0044 EA 6" Width x 84" Height, Double-Sided Vertical Cabling Section (Chatsworth 11729-703)	703.90	50.59
27 21 16 00-0045 EA 19" Width x 84" Height, Universal Rack (Chatsworth 48353-703)	729.61	50.59
27 21 16 00-0046 EA 23" Width x 84" Height, Universal Rack (Chatsworth 48383-703)	787.45	50.59
27 21 16 00-0047 Communications Patch Cords, Station Cords, And Cross Connect Wire (27 21 16 00-0009)		
27 21 16 00-0048 Premise Cross-Connect Wire (27 21 16 00-0047)		
27 21 16 00-0049 LF 1-Pair, 22 AWG Premise Cross-Connect Wire (General Cable 7041973)	1.05	0.50
27 21 16 00-0050 Pathways For Communications Systems (27 21 16 00-0009)		
27 21 16 00-0051 Conduits And Backboxes For Communication Systems (27 21 16 00-0050)		
27 21 16 00-0052 Flexible Conduit For Communication Systems (27 21 16 00-0051)		
27 21 16 00-0053 CLF 1" Diameter, Riser Rated, Non-Metallic Flexible Conduit With Pull Tape (Carlton DF4X1C)	430.08	181.76
27 21 16 00-0054 CLF 1" Diameter, Plenum Rated, Non-Metallic Flexible Conduit With Pull Tape (Carlton CF4X1C)	637.77	181.76
27 21 16 00-0055 Tube Cables For Communication Systems (27 21 16 00-0051)		
27 21 16 00-0056 Outdoor/All-Dielectric Tube Cables (27 21 16 00-0055)		
27 21 16 00-0057 CLF Two Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC02TOX)	376.77	121.18
27 21 16 00-0058 CLF Seven Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC07TOX)	570.12	151.47
27 21 16 00-0059 CLF Nineteen Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC19TOX)	966.86	181.76
27 21 16 00-0060 Indoor/Riser Rated Tube Cables (27 21 16 00-0055)		
27 21 16 00-0061 CLF Two Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC02TRX)	437.28	121.18
27 21 16 00-0062 CLF Four Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC04TRX)	538.15	136.32
27 21 16 00-0063 CLF Seven Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC07TRX)	612.14	151.47
27 21 16 00-0064 CLF Nineteen Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC19TRX)	1,156.79	181.76
27 21 16 00-0065 Indoor/Plenum Rated Tube Cables (27 21 16 00-0055)		
27 21 16 00-0066 CLF Single Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC01TPX)	311.22	121.18
27 21 16 00-0067 CLF Two Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC02TP2)	465.86	121.18
27 21 16 00-0068 CLF Four Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC04TP2)	733.12	136.32
27 21 16 00-0069 CLF Seven Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC07TP2)	1,081.08	151.47
27 21 16 00-0070 CLF Nineteen Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC19TP2)	3,451.08	181.76
27 21 16 00-0071 Unjacketed Single Tube Cables (27 21 16 00-0055)		
27 21 16 00-0072 CLF Single Tube, Unjacketed Single Tube Cable (Sumitomo TC01TGX)	264.16	121.18
27 21 16 00-0073 Multimode Fiber Bundles (27 21 16 00-0055)		
Note: Includes optical fiber cables.		
27 21 16 00-0074 CLF 2-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FR02M6)	117.74	36.36
27 21 16 00-0075 CLF 4-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB04M6)	183.29	36.36
27 21 16 00-0076 CLF 6-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB06M6)	253.88	36.36
27 21 16 00-0077 CLF 12-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB12M6)	469.02	36.36



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 16 00-0078 CLF 18-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB18M6)	682.50	42.41
27 21 16 00-0079 CLF 24-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB24M6)	897.64	42.41
27 21 16 00-0080 Singlemode Fiber Bundles <small>(27 21 16 00-0055)</small>		
<small>Note: Includes optical fiber cables.</small>		
27 21 16 00-0081 CLF 2-Fiber, Singlemode Fiber Bundle (Sumitomo FR02SX).....	104.29	36.36
27 21 16 00-0082 CLF 4-Fiber, Singlemode Fiber Bundle (Sumitomo FB04SX).....	132.86	36.36
27 21 16 00-0083 CLF 6-Fiber, Singlemode Fiber Bundle (Sumitomo FB06SX).....	156.40	36.36
27 21 16 00-0084 CLF 12-Fiber, Singlemode Fiber Bundle (Sumitomo FB12SX).....	201.78	36.36
27 21 16 00-0085 CLF 18-Fiber, Singlemode Fiber Bundle (Sumitomo FB18SX).....	312.73	42.41
27 21 16 00-0086 CLF 24-Fiber, Singlemode Fiber Bundle (Sumitomo FB24SX).....	415.25	42.41
27 21 16 00-0087 Tube Distribution Cabinets <small>(27 21 16 00-0055)</small>		
27 21 16 00-0088 EA Modular Tube Distribution Cabinet (Sumitomo DE06MDU)	231.89	50.59
<small>Note: Up to six 7-tube cables or two 19-tube cables.</small>		
27 21 16 00-0089 Modular Fiber Termination Cabinets <small>(27 21 16 00-0055)</small>		
27 21 16 00-0090 EA 24-Fiber Capacity, Wall Mount, Modular Fiber Termination Cabinet (Sumitomo FT24WFM)	297.80	50.59
27 21 16 00-0091 EA 48-Fiber Capacity, Wall Mount, Modular Fiber Termination Cabinet (Sumitomo FT48WFM)	318.64	50.59
27 21 16 00-0092 Tube Distribution Accessories <small>(27 21 16 00-0055)</small>		
27 21 16 00-0093 EA Plastic Push/Pull Quick Release Pneumatic Cap For 8 mm Tube (Sumitomo DE08MA)	12.46	5.06
27 21 16 00-0094 EA Plastic Push/Pull Quick Release Pneumatic Coupling For 8 mm Tube (Sumitomo DE08MC2).....	13.92	5.06
27 21 16 00-0095 EA Brass Push/Pull Quick Release Pneumatic Coupling For 8 mm Bulkhead Tube (Sumitomo DE08MB)	17.68	5.06
27 21 16 00-0096 Communications Optical Fiber Cabling <small>(27 21 16 00-0009)</small>		
27 21 16 00-0097 Communications Optical Fiber Cable Splicing And Terminations <small>(27 21 16 00-0096)</small>		
27 21 16 00-0098 Field Installed Fiber Connectors <small>(27 21 16 00-0097)</small>		
27 21 16 00-0099 EA SC Type, Singlemode, Field Installed Fiber Connector (Corning 95-200-42)	38.85	7.58
27 21 16 00-0100 EA SC Type, 62.5 Micron Multimode, Field Installed Fiber Connector (Corning 95-000-41).....	34.02	7.58
27 21 16 00-0101 Buffer Tube Fan-Out Kits <small>(27 21 16 00-0097)</small>		
27 21 16 00-0102 Buffer Tube Breakout Kits (Sumitomo) <small>(27 21 16 00-0101)</small>		
<small>Note: Includes 900 micron tubing.</small>		
27 21 16 00-0103 EA 2-Fiber Breakout Kit (Sumitomo FTFLD02).....	222.14	100.98
27 21 16 00-0104 EA 4-Fiber Breakout Kit (Sumitomo FTFLD04).....	227.18	100.98
27 21 16 00-0105 EA 6-Fiber Breakout Kit (Sumitomo FTFLD06).....	231.64	100.98
27 21 16 00-0106 EA 12-Fiber Breakout Kit (Sumitomo FTFLD12).....	245.47	100.98
27 21 16 00-0107 EA 18-Fiber Breakout Kit (Sumitomo FTFLD18).....	264.39	100.98
27 21 16 00-0108 EA 24-Fiber Breakout Kit (Sumitomo FTFLD24).....	278.45	100.98
27 21 16 00-0109 Buffer Tube Fan-Out Kits (Corning) <small>(27 21 16 00-0101)</small>		
27 21 16 00-0110 EA 12 Fiber, 25" Tube Length, Indoor Buffer Tube Fan-Out Kit (Corning Fan-BT25-12).....	224.48	100.98
27 21 16 00-0111 EA 12 Fiber, 25" Tube Length, Outdoor Buffer Tube Fan-Out Kit (Corning Fan-OD25-12).....	274.41	100.98
27 21 16 00-0112 Communications Copper Cabling <small>(27 21 16 00-0009)</small>		
27 21 16 00-0113 Copper Communications Cable Splicing And Terminations <small>(27 21 16 00-0112)</small>		
27 21 16 00-0114 Copper Communications Cable Splice Cases <small>(27 21 16 00-0113)</small>		
27 21 16 00-0115 EA 6.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8000626)	910.61	201.97
27 21 16 00-0116 EA 9.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8000630)	1,055.43	201.97
27 21 16 00-0117 EA 12.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8006219)	1,536.64	201.97
27 21 16 00-0118 Modular Splice Connectors <small>(27 21 16 00-0113)</small>		
27 21 16 00-0119 EA 25-Pair, Straight Body Only, 26-24 Gauge Cable, Filled Modular Splice Connector (3M 710-SC1-25)	108.01	50.49
27 21 16 00-0120 EA 25-Pair, Straight/Half Tap Body, 26-24 Gauge Cable, Dry Modular Splice Connector (3M 710-SD1-25).....	106.44	50.49
27 21 16 00-0121 EA 25-Pair, Straight/Half Tap Body, 26-24 Gauge Cable, Filled Modular Splice Connector (3M 710-TC1-25)	108.04	50.49
27 21 16 00-0122 EA 25-Pair, Bridge Body, 26-22 Gauge Cable, Filled Modular Splice Connector (3M 710-BC1-25).....	107.82	50.49
27 21 26 Data Communications Network Management <small>(27 21)</small>		
27 21 26 00-0001 Data Communications Network Management <small>(27 21 26)</small>		
27 21 26 00-0002 EA 3 Port, Terminal/Serial Device Server (Comtrol 99560-9).....	449.64	25.25
27 21 26 00-0003 EA 2 Port, Terminal/Serial Device Server (Comtrol 99550-0).....	347.95	25.25
27 21 26 00-0004 EA 4 Port, DB9 Terminal/Serial Device Server (Comtrol 99445-9).....	482.29	25.25
27 21 26 00-0005 EA 4 Port, DB9 Terminal/Serial Device Server (Comtrol 99448-0).....	751.66	25.25
27 21 26 00-0006 EA 24 Watt, Din Rail Mountable, Power Adapter (Comtrol PS1020)	70.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 26 00-0007 EA Remote Data Port, Spectra Positioning System (Pelco IPS_RDPE_2).....	333.45	15.15
27 21 26 00-0008 EA Sennetech Code Translator (Pelco SCT_100_AD232).....	566.11	25.25
27 21 26 00-0009 EA VPN Router (Cisco 819HG).....	3,764.87	323.77
27 21 26 00-0010 EA Cisco Catalyst 3000 Series Switches (Cisco IE-3000 - 8TC).....	2,663.62	323.77
27 21 26 00-0011 EA WS-C4507R+E Chassis, Two WS-X4648-RJ45V+E, Sup7L-E, LAN Base (Cisco WS-C4507RE+96V+).....	12,613.55	121.18
27 21 26 00-0012 EA SMARTnet Extended Service Agreement, SNTC-8X5XNBD WS-C4507R+E Chassis, 2 WS-X4648-RJ45V+E (Cisco CON-SNT-C4507REV).....	380.00	
27 21 26 00-0013 EA Sup8-E And WS-X4748-RJ45V+E Upgrade For Bundle (Cisco C4500E-S7L-S8).....	8,441.77	121.18
27 21 26 00-0014 EA Catalyst 4500 E-Series Redundant Supervisor 8-E (Cisco WS-X45-SUP8-E/2).....	18,053.84	121.18
27 21 26 00-0015 EA Catalyst 4500 2GB SD Memory Card (Cisco SD-X45-2GB-E).....	423.52	10.12
27 21 26 00-0016 EA Catalyst 4500 4200W AC Dual Input Power Supply (Data + PoE) (Cisco PWR-C45-4200ACV).....	3,391.87	12.62
27 21 26 00-0017 EA Catalyst 4500 4200W AC Dual Input Power Supply (Data + PoE) (Cisco PWR-C45-4200ACV/2).....	2,685.24	12.62
27 21 26 00-0018 EA 13', NEMA 6-20 To IEC-C19 Power Cable (Cisco CAB-US620P-C19-US).....	50.12	5.06
27 21 26 00-0019 EA 1000BASE-SX SFP Transceiver Module, MMF, 850nm, DOM (Cisco GLC-SX-MMD=).....	175.98	50.49
27 21 26 00-0020 EA Cisco Catalyst 3850 24 Port Data IP Base (Cisco WS-C3850-24TS).....	2,565.42	121.18
27 21 26 00-0021 EA SMARTnet Extended Service Agreement, 8X5XNBD Cisco Catalyst 3850 24 Port Data IP Base (Cisco CON-SNT-WSC384TS).....	499.99	
27 21 26 00-0022 EA North America AC Type A Power Cable (Cisco CAB-TA-NA).....	18.18	5.06
27 21 26 00-0023 EA 350 Watt AC Power Supply (Cisco PWR-C1-350WAC).....	214.25	12.62
27 21 26 00-0024 EA Cisco Catalyst 3850 4x1GE Network Module (Cisco C3850-NM-4-1G).....	525.30	12.65
27 21 26 00-0025 EA 1', Catalyst 3750X and 3850 Stack Power Cable (Cisco CAB-SPWR-30CM).....	102.11	5.06
27 21 26 00-0026 EA Rack Mount Switch 16 100 SFP 8 10/100 PoE 2 Geuplinks (Cisco IE-3010-16S-8PC).....	2,962.85	121.18
27 21 26 00-0027 EA SMARTnet Extended Service Agreement, 8X5XNBD IA Rack Mount Switch 16 100 SFP 8 10/10 (Cisco CON-SNT-301016S8).....	501.99	
27 21 26 00-0028 EA IE 3010 Power Supply (Cisco PWR-RGD-AC-DC/IA).....	450.25	12.62
27 21 26 00-0029 EA IE 3010 AC-DC Redundant Power Supply (Cisco PWR-RGD-AC-DC/IAR).....	457.25	12.62
27 21 26 00-0030 EA 4 Ethernet 10/100 Ports And 2 Dual-Purpose Uplinks, Industrial Ethernet Switch (Cisco IE-3000-4TC).....	1,049.67	121.18
27 21 26 00-0031 EA Expansion Power Module For Cisco IE-3000-4TC (Cisco PWR-IE50W-AC-IEC).....	250.30	12.65
27 21 26 00-0032 EA 4 Port, Expansion SFP Module for IE-3000-4TC (Cisco IEM-3000-4SM).....	1,155.30	12.65
27 21 26 00-0033 EA Router (CISCO IR829).....	1,051.18	50.59

27 21 29 Data Communications Switches and Hubs (27 21)

27 21 29 00-0001 Data Communications Multimedia Modular Patch Panels (27 21 29)

Note: Unloaded multimedia patch panels that accept modular jacks for category 3, 5e, 6, fiber optic, etc. Excludes rack, modular jacks and terminations. See CSI section 27 15 43 00-0051 for modular jacks.

27 21 29 00-0002 EA 12 Port, Wall Mount Multimedia Modular Patch Panel, Unloaded.....	99.24	5.05
27 21 29 00-0003 EA 16 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	109.58	5.05
27 21 29 00-0004 EA 24 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	129.60	5.05
27 21 29 00-0005 EA 36 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	135.74	5.05
27 21 29 00-0006 EA 48 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	148.39	6.31
27 21 29 00-0007 EA 24 Port, Rack Mount Multimedia Modular Angled Patch Panel, Unloaded.....	140.84	5.05
27 21 29 00-0008 EA 48 Port, Rack Mount Multimedia Modular Angled Patch Panel, Unloaded.....	176.75	6.31
27 21 29 00-0009 EA Rack Mount Rear Cable Management Bar.....	48.32	6.31

27 21 33 Data Communications Wireless Access Points (27 21)

27 21 33 00-0001 Data Communications Wireless Access Points (27 21 33)

27 21 33 00-0002 EA Base Station Unit, 300 Mbps, MIMO 2x2, Type-N Connectors US PoE (Proxim Wireless MP-8200-BSU).....	3,224.29	151.47
27 21 33 00-0003 EA Base Station Unit, 300 Mbps, MIMO 2x2, 23 dBi, 10° Panel Antenna - US PoE (Proxim Wireless MP-8250-BS1).....	7,651.89	151.47
27 21 33 00-0004 EA Base Station Unit, 300 Mbps, MIMO 2x2, 16 dBi, 90 Degree Sector Antenna US PoE (Proxim Wireless MP-8250-BS9).....	7,651.89	151.47
27 21 33 00-0005 EA Subscriber Unit, 300 Mbps, MIMO 2x2, Type-N Connectors US PoE (Proxim Wireless MP-8200-SUA).....	1,302.70	151.47
27 21 33 00-0006 EA Subscriber Unit, 300 Mbps, MIMO 2x2, 23 dBi, Panel Antenna US PoE (Proxim Wireless MP-8250-SUR).....	1,531.07	172.68
27 21 33 00-0007 EA Base Station Unit, 300 Mbps, MIMO 3x3, GPS Sync Ready, Type-N Connectors - US PoE (Proxim Wireless MP-8200-BSU-G).....	4,139.63	172.68
27 21 33 00-0008 EA Base Station Unit, 300 Mbps, MIMO 2x2, GPS Sync Ready, 23 dBi, 10° Panel Antenna - US PoE (Proxim Wireless MP-8250-BS1-G).....	6,248.03	172.68
27 21 33 00-0009 EA Base Station Unit, 300 Mbps, MIMO 2x2, GPS Sync Ready, 16 dBi, 90° Sector Antenna - US PoE (Proxim Wireless MP-8250-BS9-G).....	6,248.03	172.68
27 21 33 00-0010 EA 50 Mbps (upgradable to 100 Mbps), MIMO 2x2, 15 dBi integrated antenna - US PoE (Proxim Wireless QB-825-LNK-50).....	1,291.98	57.56
27 21 33 00-0011 EA 100 Mbps, MIMO 2x2, 15 dBi integrated antenna - US PoE (Proxim Wireless QB-825-LNK-100).....	1,309.68	57.56
27 21 33 00-0012 EA Surge, Gigabit Surge Protector With Shielded RJ45 (Proxim Wireless ETH-SURGE-1G).....	132.83	28.78
27 21 33 00-0013 EA FlexPort uWave AdaptRate And Modulation Feature Upgrade (BridgeWave Communications FPUWAVE-UPG-ARM).....	1,100.00	
27 21 33 00-0014 EA 1' High Performance Dish Antenna, Low Profile, 21.2-23.6 GHz, WR42 Flange, SOI (Radio Waves HPLP1-23RR).....	414.98	50.49
27 21 33 00-0015 EA Cellular Phone / Wi-Fi Antenna (Sierra Wireless AP-CWG-Q-S22-WH).....	347.73	50.49
27 21 33 00-0016 EA Cell LTE MIMO Antenna (Sierra Wireless 1810075).....	66.60	20.19
27 21 33 00-0017 EA AirLink GX400 Power Adapter (Sierra Wireless 2700384).....	53.10	
27 21 33 00-0018 EA AirLink GX400 Power Cable (Sierra Wireless 2000380).....	31.91	
27 21 33 00-0019 EA Cellular/PCS/LTE, Hockey Puck Antenna (Sierra Wireless AP-C-Q-S2-BL).....	230.92	50.49
27 21 33 00-0020 EA Cellular/PCS/LTE/GPS, Multi-Band Antenna (Sierra Wireless AP-CG-Q-S22-BL).....	232.22	50.49
27 21 33 00-0021 EA 2 Way, RF Power Divider, 790-920 MHz (Telewave ANTPD28D).....	308.98	50.59
27 21 33 00-0022 EA Wireless Cellular Modem (Sierra Wireless AirLink GX400 EVDO/GPS).....	757.98	75.88
27 21 33 00-0023 EA Wireless Cellular Modem (Sierra Wireless AirLink GX450 Rugged).....	960.39	75.88
27 21 33 00-0024 EA Magnetic Mount Cellular Antenna (Wilson Electronics 301125).....	58.64	15.15
27 21 33 00-0025 EA Yagi Antenna, 890-960 MHz, 10 dBd Gain (PCTEL Bluewave Antennas BGYD890K).....	223.57	57.56
27 21 33 00-0026 EA Andrew® Omni Antenna, 890-960 MHz, 360° Horizontal Beamwidth, Fixed Electrical Tilt, Fits On 38-51 mm (1-1/2 to 2 in) OD Pipe (Commscope DB583-Y).....	671.96	57.56



Communications	27	27
Data Communications	27 20	
Data Communications Network Equipment	27 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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27 21 33 00-0027 EA Single Channel Bluetooth Sensor With Bluetooth Module And Antenna (DeepBlue SC).....	3,196.18	50.59
27 21 33 00-0028 EA Point-to-Point Wireless Bridge (Proxim Tsunami® QB-10150).....	1,634.05	50.49

27 22 Data Communications Hardware (27 20)

27 22 19 Data Communications Servers (27 22)

27 22 19 00-0001 Network Communications Frames And Enclosures (27 22 19)

27 22 19 00-0002 EA Communications Equipment Enclosure.....	15,037.90	303.54
Note: APX Enclosures, Inc. part number TCDD727236 or an approved equivalent. UL listed, 72"Hx72"Wx36"D, .0125 5052 aluminum construction, polyester powder finish, ANSI 61 grey out/white in, dual swing rack 19"/23", standard EIA spacing, tapped 12-24 adjustable channels on side, thermostat kit, fluorescent light kit, 3PT, latch on main door with pad lock provisions, plywood back panels, and insulation thru-out) with a 12,000 BTU air conditioning unit housed in a stainless steel enclosure.		
27 22 19 00-0003 EA Wall Mounted Equipment Cabinet.....	1,013.14	101.18
Note: Mid-Atlantic DWR-24-22 PD.		
27 22 19 00-0004 EA APX 2 Bay Communications Equipment Enclosure, 72" High x 72" Wide x 36" Deep, 14 Ga. Type 304 Stainless Steel.....	7,844.54	
Note: UI 508A Listed Enclosure, NEMA 4x (Two Bay) APX Double Door Front Style, Stainless Steel construction with a natural mill finish. Includes Three Point Door Latching on (1) Door with Stainless Steel Pad Lockable Handle, Sloped Lid Toward Rear of Cabinet, Door Wind Stay Brackets and Bars on Both Doors, R-4 Insulation Package on inside enclosure and doors, 3/4" Plywood Back panels on Rear Wall, (1) 19" Swing Out Rack in each bay with 12-24 Tapped Holes, Lifting Ears, Door Gasket Seals, Removable Center Post, Continuous Stile Hinges/Hardware, (2) Fluorescent Light Fixtures with door activated switches, (12,000 BTU) Air Conditioner (230 Volt) with Stainless Steel Shell Mounted to Sied Wall, (4) Three Prong Duplex Receptacles, Power Distribution Panel with 100 Amp Load Center, 100 AMP Main Breaker, Equipment Circuit Breakers, Surge Suppression, includes Fiber Storage Reels.		
27 22 19 00-0005 APX 3 Bay Communications Equipment Enclosure, 72" High x 108" Wide x 36" Deep, 14 Ga. Type 304 Stainless Steel.....	27,273.61	
Note: UI 508A Listed Enclosure, NEMA 4x (Three Bay) APX Three Door Front Style, Stainless Steel construction with a natural mill finish. Includes Three Point Door Latching on (3) Doors with Stainless Steel Pad Lockable Handle, Sloped Lid Toward Rear of Cabinet, Door Wind Stay Brackets and Bars on all three Doors, R-4 Insulation Package on inside enclosure and doors, 3/4" Plywood Back panels on Rear Wall, (1) 19" Swing Out Rack in each bay with 12-24 Tapped Holes, Two 33 RU Racks positioned inside left and right bays, Lifting Ears Door Gasket Seals, (2) Fixed Center Posts, Continuous Stile Hinges/Hardware, (3) Fluorescent Light Fixtures with door activated switches, (19,000 BTU) Air Conditioner (230 Volt) with Stainless Steel Shell Mounted to Sied Wall, (4) Three Prong Duplex Receptacles, Power Distribution Panel with 100 Amp Load Center, 100 AMP Main Breaker, Equipment Circuit Breakers, Surge Suppression, includes Fiber Storage Reels.		

27 24 Data Communications Peripheral Data Equipment (27 20)

27 24 19 External Drives (27 24)

27 24 19 00-0001 Network Equipment (27 24 19)

27 24 19 00-0002 EA 19" Rack Mountable 110-24T Ethernet Switch.....	443.51	33.63
Note: 24 x 10/100Base-TX LAN with SFP (miniGBic) port, Nortel Networks Limited 110-24T Managed Business Ethernet Switch - 24 x 10/100Base-TX LAN model #NT5S01AEE5. Includes testing.		
27 24 19 00-0003 EA 19" Rack Mountable Station Access Router.....	2,294.18	176.72
Note: Nortel Network part number SR2101031E5. Includes testing.		
27 24 19 00-0004 EA 19" Rack Mount LCD Monitor.....	1,096.04	80.78
Note: Nortel Network part number SR2101031E5. Includes testing.		
27 24 19 00-0005 EA 1000VA UPS (Uninterruptible Power Supply).....	1,048.69	92.25
Note: APC SUA1000RM2U. Includes testing.		
27 24 19 00-0006 EA 1000VA UPS (Uninterruptible Power Supply).....	440.61	92.25
Note: APC BR1000. Includes testing.		
27 24 19 00-0007 EA 1200VA UPS (Uninterruptible Power Supply).....	451.60	92.25
Note: APC BR1200. Includes testing.		

27 30 Voice Communications (27)

27 31 Voice Communications Switching and Routing Equipment (27 30)

Note: Includes testing of new devices and certification.

27 31 13 PBX/Key Systems (27 31)

27 31 13 00-0001 Interior PBX Telephone System (27 31 13)

Note: Includes telephone instruments cabling and solid state switching.

27 31 13 00-0002 Interior PBX Telephone System (27 31 13 00-0001)

Note: Cost is for each line up to 1000 lines.

27 31 13 00-0003 EA 1 Line PBX Connection, Cost Per Each Line Up To 1,000.....	1,461.70	526.35
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27 31 13 00-0004 Additional Telephones Less Solid State Switching (PBX) (27 31 13 00-0001)

27 31 13 00-0005 EA Add For Each Additional PBX Phone Line Less Solid State Switching.....	463.55	41.40
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27 31 13 00-0006 Telephones (27 31 13 00-0001)

27 31 13 00-0007 EA Telephones, Desk Type Intercommunication Equipment.....	186.69	39.38
27 31 13 00-0008 EA Telephones, Wall Type Intercommunication Equipment.....	213.23	52.51

27	Communications
27 30	Voice Communications
27 31	Voice Communications Switching and Routing Equipment



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

27 32 Voice Communications Terminal Equipment (27 30)

Note: Includes testing of new devices and certification.

27 32 13 Telephone Sets (27 32)

27 32 13 00-0001 Interior Telephone Components (27 32 13)

27 32 13 00-0002	EA	Solid State Exchange Unit With Power Supply	5,555.17	922.77
27 32 13 00-0003	EA	Dial Telephone - Handset In Cabinet	659.17	75.43
27 32 13 00-0004	EA	Elevator Cab Telephone With Trailer Cable	343.99	80.88
27 32 13 00-0005	EA	Loud Ring Bell, 6"	272.48	75.03
27 32 13 00-0006	EA	Audio/Visual Indicator	341.67	70.69
27 32 13 00-0007	EA	Administrative Telephone With Digital Display	353.63	63.42
27 32 13 00-0008	EA	Processing Unit For 16 Station System	1,797.35	517.32
27 32 13 00-0009	EA	Handset For 16 Station System	250.84	51.50
27 32 13 00-0010	EA	Handset In Cabinet, For 16 Station System	339.72	69.47
27 32 13 00-0011	MLF	20 Conductor Unshielded Cable, #22	2,414.12	1,113.51
27 32 13 00-0012	EA	Power Supply For 16 Station System	331.55	137.43
27 32 13 00-0013	EA	Intercom Terminal Board	300.40	154.70
27 32 13 00-0014	EA	Power Supply For Five Station System, 24 Volt DC	343.45	137.43
27 32 13 00-0015	EA	Telephone Communication Board, Insulated Blueboard 24" x 24" x 1/2" Thick	165.15	56.45
27 32 13 00-0016	EA	Telephone Cabinet With Backboard 24" High x 24" Wide x 6" Deep	504.96	124.26
27 32 13 00-0017	EA	Telephone Cabinet With Backboard 30" High x 24" Wide x 6" Deep	595.12	141.23
27 32 13 00-0018	EA	Telephone Cabinet With Backboard 30" High x 30" Wide x 6" Deep	720.87	167.15
27 32 13 00-0019	EA	Telephone Cabinet With Backboard 36" High x 30" Wide x 6" Deep	847.15	180.71
27 32 13 00-0020	EA	Telephone Cabinet With Backboard 48" High x 30" Wide x 6" Deep	1,304.32	205.62
27 32 13 00-0021	EA	Ring Rung 3"	10.67	5.63
27 32 13 00-0022	EA	G66B50 Telephone Blocks Including 50 Terminators, Exterior Ring, Marking, ID	26.28	10.00
27 32 13 00-0023	EA	G110 Data Blocks Including Terminator, Exterior Ring, Marking, ID And Testing	48.36	20.49

27 32 13 00-0024 Interior Telephone Accessories (27 32 13)

27 32 13 00-0025	EA	Blank Telephone Receptacle, Exposed Devices - Complete	11.27	5.45
27 32 13 00-0026	EA	4-Pin Telephone Receptacle, Exposed Devices - Complete	24.31	21.01
27 32 13 00-0027	EA	Dual Flush Mounted, Level 5, RJ-45 Jack, Complete	59.70	23.06
27 32 13 00-0028	EA	Wall Mount, Level 5, RJ-45 Jack, Complete	56.68	23.06
27 32 13 00-0029	EA	Terminating Strips, Inside	114.88	46.12
27 32 13 00-0030	EA	Dual Outlet, 4-Pin Telephone Receptacle, Concealed Type RJ-45 - Complete	50.95	23.73
27 32 13 00-0031	EA	Ready Access Closure 3 To 25 Pair	138.84	55.64
27 32 13 00-0032	EA	Ready Access Closure 25 To 100 Pair	161.98	62.20
27 32 13 00-0033	EA	Termination Block With Bracket 25 Pair	52.19	18.68
27 32 13 00-0034	EA	RJ-11 Telephone Receptacle, Concealed Devices - Complete	50.02	23.43
27 32 13 00-0035	EA	Interior Protected Terminal 25 Pair	583.96	134.91
27 32 13 00-0036	EA	Interior Protected Terminal 50 Pair	689.23	137.03
27 32 13 00-0037	EA	Pedestal 6" x 6" x 50" 3 To 100 Pair	232.83	56.15
27 32 13 00-0038	EA	Pedestal 8" x 8" x 50" 100 To 300 Pair	240.07	56.15
27 32 13 00-0039	EA	Pedestal 10" x 10" x 43" 300 To 600 Pair	316.72	71.80
27 32 13 00-0040	EA	Pedestal 10" x 16" x 439 600 Pair	654.65	129.35
27 32 13 00-0041	EA	Entrance Protector Terminal 100 Pair	901.69	147.63
27 32 13 00-0042	EA	Gas Protection Module	14.33	5.05
27 32 13 00-0043	EA	Terminating Boxes, Outside With 3 Element Protectors, Per Pair	24.32	4.61

27 32 26 Ring-Down Emergency Telephones (27 32)

27 32 26 00-0001 Emergency Telephone (27 32 26)

Note: Standard features include: CB3000 speakerphone, 3 auxiliary inputs, 2 auxiliary outputs, phone line surge suppressor, analog telephone connection, 70w area light with blue beacon, high power strobe, lighted faceplate, 110VAC power, ultra weather resistant finish, vandal resistant hardware, UV resistant lens, dome vent; flat area for directory, access control or other options; 12.75" diameter/8'-6" height, 1/4" thick steel construction, foundation anchor kit, ADA compliant.

27 32 26 00-0002	EA	Code Blue 1-Standard Emergency Telephone Pedestal Unit (CB 1-s)	8,273.47	416.39
27 32 26 00-0003	EA	Code Blue 1-Dual Emergency Telephone Pedestal Unit (CB 1-d)	8,686.69	416.39
27 32 26 00-0004	EA	Analog Speakerphone With Black "Info" Button And Red "Push For Help" Button Code Blue Option (Code Blue IA4100 FP2)	137.74	
27 32 26 00-0005	EA	Analog Speakerphone With Black "Call" Button, Keypad And Red "Push For Help" Button Code Blue Option (Code Blue IA4100 FP2-K)	206.61	
27 32 26 00-0006	EA	IP Speakerphone With Single Red "Push For Help" Button Code Blue Option (Code Blue IP5000 FP1)	516.53	
27 32 26 00-0007	EA	IP Speakerphone With Back "Info" Button And Red "Push For Help" Button Code Blue Option (Code Blue IP5000 FP2)	702.49	
27 32 26 00-0008	EA	IP Speakerphone With Black "Call" Button, Keypad And Red "Push For Help" Button Code Blue Option (Code Blue IP5000 FP2-K)	771.36	
27 32 26 00-0009	EA	EMERGENCY (Raised Letters With Braille) Main Bezel Code Blue Option	13.77	
27 32 26 00-0010	EA	EMERGENCIA/EMERGENCIA (Raised Letters With Braille) Main Bezel Code Blue Option	13.77	
27 32 26 00-0011	EA	Directory, Second Opening Code Blue Option	123.97	
27 32 26 00-0012	EA	Camera Enclosure With Color IP Camera, Second Opening Code Blue Option	1,308.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 32 26 00-0013 EA HID Card Reader, Second Opening Code Blue Option	606.07	
27 32 26 00-0014 EA HID Card Reader And Color IP Camera, Second Opening Code Blue Option	1,962.83	
27 32 26 00-0015 EA IP Wireless Communication Code Blue Option	4,125.38	
Note: 802.11g or secure mesh 5.8. (system UPS backup or unit Night Charge recommended). IP5000 VoIP Speakerphone option must be ordered when selecting IP Wireless Communications. Requires Base Unit(s) and site survey.		
27 32 26 00-0016 EA Active Venting Code Blue Option	220.39	
27 32 26 00-0017 EA Night Charge Power Code Blue Option	1,921.51	
Note: Requires 120V AC external power supplied to Code Blue unit.		
27 32 26 00-0018 EA Power Transformer Kit, Alternate Incoming Power Code Blue Option	482.10	
27 32 26 00-0019 EA Overhead Camera Mount Code Blue Option	1,095.05	
Note: Excludes camera.		
27 32 26 00-0020 EA Custom Color For Overhead Camera Mount Code Blue Option	48.21	
27 32 26 00-0021	City Police Call System (27 32 26)	
27 32 26 00-0022	Components (27 32 26 00-0021)	
27 32 26 00-0023 EA City Police Call System	648.51	117.74
27 32 26 00-0024 EA Concrete Foundation For Police Department Telephone Post	594.15	170.55

27 40 Audio-Video Communications (27)

27 41 Audio-Video Systems (27 40)

27 41 16 Integrated Audio-Video Systems and Equipment (27 41)

Note: Includes testing of new devices and certification.

27 41 16 00-0001	Television Distribution System (27 41 16)		
See CSI section 26 05 13 16-0001 for basic wiring, 26 05 19 16-0012 for basic wiring.			
27 41 16 00-0002	Mounted Television Support (27 41 16 00-0001)		
27 41 16 00-0003 EA	Ceiling Mounted Television Support, 19" To 20"	375.96	113.32
27 41 16 00-0004 EA	Ceiling Mounted Television Support, 19" To 20" With Rack	480.22	126.47
27 41 16 00-0005 EA	Ceiling Mounted Television Support, 25" To 27"	391.25	113.32
27 41 16 00-0006 EA	Ceiling Mounted Television Support, 25" To 27" With Rack	495.51	126.47
27 41 16 00-0007 EA	Wall Mounted Television Support, 13"	297.46	91.06
27 41 16 00-0008 EA	Wall Mounted Television Support, 13" With Rack	401.73	101.18
27 41 16 00-0009 EA	Wall Mounted Television Support, 19" To 20"	317.53	91.06
27 41 16 00-0010 EA	Wall Mounted Television Support, 19" To 20" With Rack	421.79	101.18
27 41 16 00-0011 EA	Wall Mounted Television Support, 25" To 27"	337.60	91.06
27 41 16 00-0012 EA	Wall Mounted Television Support, 25" To 27" With Rack	441.86	101.18
27 41 16 00-0013	Distribution System (27 41 16 00-0001)		
See CSI section 26 05 13 16-0001 for wire and cabling.			
27 41 16 00-0014	TV Distribution Rack (27 41 16 00-0013)		
27 41 16 00-0015 EA	Steel Rack Cabinet With Shelves	1,255.79	185.70
27 41 16 00-0016 EA	Switch And Pilot Light	206.18	82.50
27 41 16 00-0017 LF	Surface Raceway With Outlets	24.95	11.21
27 41 16 00-0018 EA	Service Label	30.03	15.45
27 41 16 00-0019	Head End Amplifier (27 41 16 00-0013)		
27 41 16 00-0020 EA	Head End Amplifier	837.79	123.60
27 41 16 00-0021	UHF In-Line Booster Amplifier And Power Supply (27 41 16 00-0013)		
27 41 16 00-0022 EA	UHF In-Line Booster	499.64	123.60
27 41 16 00-0023	Preamplifiers (27 41 16 00-0013)		
27 41 16 00-0024 EA	VHF Preamplifier	618.71	123.60
27 41 16 00-0025 EA	UHF Preamplifier	499.64	123.60
27 41 16 00-0026	Power Supplies (27 41 16 00-0013)		
27 41 16 00-0027 EA	Common Power Supply	883.86	176.62
27 41 16 00-0028	Line Splitter And Mixer (27 41 16 00-0013)		
27 41 16 00-0029 EA	Line Splitter	81.65	41.20
27 41 16 00-0030 EA	Two-Way Splitter	91.13	41.20
27 41 16 00-0031 EA	Frequency Filter	196.29	61.90
27 41 16 00-0032 EA	Line Splitter And Mixer	248.84	90.88
27 41 16 00-0033	Power Line Filters (27 41 16 00-0013)		
27 41 16 00-0034 EA	120-Volt Power Supply Line Filter	372.87	82.50

27 Communications
27 40 Audio-Video Communications
27 41 Audio-Video Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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27 41 16 00-0035 Wall Box And Receiver Outlets (27 41 16 00-0013)

27 41 16 00-0036	EA		Wall Box With Lockable Cover, Excluding Outlet Plug.....	196.29	61.90
27 41 16 00-0037	EA		TV Receiver Outlet Plug.....	91.13	41.20
27 41 16 00-0038	EA		TV Camera Outlet Plug.....	91.13	41.20
27 41 16 00-0039	EA		Audio Outlet Plug.....	79.26	41.20
27 41 16 00-0040	EA		12 Ft RG 6U Cable With G-59 And TV Set Fittings.....	164.50	82.50
27 41 16 00-0041	EA		Male Plug PL-259.....	91.13	41.20
27 41 16 00-0042	EA		Wall Box And Receiver Outlet Television Outlets.....	109.57	43.22

27 41 33 Master Antenna Television Systems (27 41)

27 41 33 00-0001 Antenna Systems (27 41 33)

27 41 33 00-0002 Antenna (27 41 33 00-0001)

27 41 33 00-0003	EA		Amateur Radio Antenna.....	793.95	151.47
27 41 33 00-0004	EA		Multi-Band Radio Antenna.....	623.38	151.47

27 41 33 00-0005 Receptacles (27 41 33 00-0001)

27 41 33 00-0006	EA		Amateur Radio Antenna System Receptacle With Mating Plugs And Adapter.....	184.39	61.90
27 41 33 00-0007	EA		Multi-Band Radio Antenna System Receptacle With Mating Plugs.....	184.39	61.90

27 50 Distributed Communications and Monitoring Systems (27)

27 51 Distributed Audio-Video Communications Systems (27 50)

27 51 17 Video Intercom and Exterior Gate Control System (27 51)

27 51 17 00-0001 Video Intercom And Exterior Gate Control System (27 51 17)

27 51 17 00-0002	EA		Audio Video Master Control Station (Aiphone AX-8MV).....	1,106.72	126.47
27 51 17 00-0003	EA		16-call Add-on Selector For AX Masters (Aiphone AX-16SW).....	446.12	126.47
27 51 17 00-0004	EA		Central Exchange Unit (Aiphone AX-084C).....	1,334.19	63.24
27 51 17 00-0005	EA		Central Exchange Unit (Aiphone AX-248C).....	1,824.56	63.24
27 51 17 00-0006	EA		Touch Tone Programmable Dialer (Viking K-1900-5).....	136.41	25.30
27 51 17 00-0007	EA		Surface Mount Audio/Video Door Station (Aiphone AX-DV).....	427.50	25.30
27 51 17 00-0008	EA		Flush Mount Audio/Video Door Station (Aiphone AX-DVF).....	482.88	25.30
27 51 17 00-0009	EA		12 Volt, 2.5 Amp, DC Power Supply (Aiphone PS-1225UL).....	129.32	12.65
			Note: UL Listed		
27 51 17 00-0010	EA		24 Volt, 2 Amp, DC Power Supply (Aiphone PS-2420UL).....	141.48	12.65
			Note: UL Listed		
27 51 17 00-0011	EA		IP Video Master Station (Aiphone IX-MV).....	1,412.03	126.47
27 51 17 00-0012	EA		Handset Only For IX-MV (Aiphone 285999).....	60.34	5.06
27 51 17 00-0013	EA		Hands Free Sub Master Video Monitor (Aiphone JF-2HD).....	701.44	126.47
27 51 17 00-0014	EA		Stainless Steel Video Door Station With HID ProxPoint Plus Reader, Flush Mount (Aiphone AX-DVF-P).....	648.08	25.30
27 51 17 00-0015	EA		Stainless Steel Surface Mount Box For IS-SS, IS-DVF, IS-IPDVF, IX-DF(SS) (Aiphone SBX-IDVF).....	204.60	25.30
27 51 17 00-0016	EA		Stainless Steel Surface Mount Box, IS-DVF, IS-IPDVF And IS-SS Compatible (Aiphone SBX-ISDVF).....	222.58	25.30
27 51 17 00-0017	EA		Stainless Steel Surface Mount Box For AX-DVF (Aiphone SBX-AXDVF).....	228.91	25.30
27 51 17 00-0018	EA		Stainless Steel Security Lock Box For IS-DV, IS-DVF, IX-DF, IX-SS, IX-DF-HID, And IX-DF-RP10 (Aiphone LB-SDVF/A).....	269.06	37.94
27 51 17 00-0019	EA		Front Case With Lens Cover For AX-DV And AX-DVF Cameras (Aiphone 240880).....	62.87	12.65

27 51 23 Intercommunications and Program Systems (27 51)

27 51 23 20 Commercial Intercommunications and Program Systems (27 51 23)

27 51 23 20-0001 Intercom (27 51 23 20)

27 51 23 20-0002	EA		Aiphone Intercom, Master.....	1,474.96	
27 51 23 20-0003	EA		Aiphone Intercom, Remotes.....	542.65	

27 51 43 Sound Reinforcement (27 51)

Note: Includes testing of new devices and certification.

27 51 43 00-0001 Amplifiers (27 51 43)

27 51 43 00-0002	EA		10 Watt PA/Paging System Amplifier, 70 Volt (Bogen C10).....	418.46	101.18
27 51 43 00-0003	EA		35 Watt PA/Paging System Amplifier, 70 Volt (Bogen C35).....	580.46	101.18
27 51 43 00-0004	EA		60 Watt PA/Paging System Amplifier, 70 Volt (Bogen C60).....	684.45	101.18
27 51 43 00-0005	EA		100 Watt PA/Paging System Amplifier, 70 Volt (Bogen 100).....	758.63	101.18
27 51 43 00-0006	EA		150 Watt PA/Paging System Amplifier, 70 Volt (Bogen GS150).....	938.40	101.18
27 51 43 00-0007	EA		250 Watt PA/Paging System Amplifier, 70 Volt (Bogen GS250).....	1,207.23	101.18
27 51 43 00-0008	EA		Rack Mount Kit For PA/Paging System Amplifiers (Bogen GSRPK).....	48.17	5.06

27 51 43 00-0009 Splitters (27 51 43)

27 51 43 00-0010	EA		24 Watt, 5 Output, Isolated Splitter (Doug Fleenor 125EE).....	2,376.10	75.73
27 51 43 00-0011	EA		1-in/11-out Splitter (Doug Fleenor DMX).....	2,145.47	75.73



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 51 43 00-0012 Speakers <small>(27 51 43)</small>		
27 51 43 00-0013 EA 8", 5 Watt Recessed Ceiling Mounted Speaker With Transformer And Baffle (Atlas Sound FD72W).....	171.43	27.06
27 51 43 00-0014 EA 8" Steel Baffle (Atlas Sound 51-8).....	52.31	5.05
27 51 43 00-0015 EA T-Bar Support (Atlas Sound EZ95-8).....	57.97	5.05
27 51 43 00-0016 EA 8" Cylindrical Enclosure With Undercoating (Atlas Sound Q408).....	88.29	5.05
27 51 43 00-0017 EA Plate Mounted 10 Watt Attenuator With Priority Relay (Atlas Sound AT10-PA).....	85.02	9.08
27 51 43 00-0018 Accessories <small>(27 51 43)</small>		
27 51 43 00-0019 EA Microphone And Stand For Audio/Video System (Bogen MBS-1000A).....	231.02	12.65
27 51 43 00-0020 EA 5 Disk CD Player For Audio/Video System (Bogen DCM290-P).....	514.62	12.65
27 51 43 00-0021 EA Weather Proof Horn For Audio/Video System (Bogen SPT5A).....	136.66	25.30
27 51 43 00-0022 EA Trumpet Driver And Line Matching Transformer For Audio/Video System (Atlas PD-60A).....	246.98	25.30
27 51 43 00-0023 EA Headset Microphone For Audio/Video System (Audio Technica Pro8Hex).....	182.45	25.25
27 51 43 00-0024 EA Microphone Jack For Audio/Video System.....	88.32	25.30
27 51 43 00-0025 EA Terminal Cabinet For Audio/Video System (Atlas 121-18).....	714.68	101.18
27 51 43 00-0026 EA Volume Control For Audio/Video System (Bogen AT10A).....	84.75	25.30
27 51 43 00-0027 EA Round Bridge for 8" (S86/S810) Recessed Speakers (Bogen Communications TB8).....	61.63	25.30
27 51 43 00-0028 Removal And Reinstallation Of Speakers <small>(27 51 43)</small>		
Note: Includes storage, cleaning and supply materials.		
27 51 43 00-0029 EA Removal And Reinstallation Of Ceiling Mounted Speaker.....	141.38	
27 53 Distributed Systems <small>(27 53)</small>		
27 53 13 Clock Systems <small>(27 53)</small>		
27 53 13 16 Wired Clock Systems <small>(27 53 13)</small>		
27 53 13 16-0001 Wired Self-Corrective Clock Systems <small>(27 53 13 16)</small>		
27 53 13 16-0002 Wired Self-Corrective Clocks <small>(27 53 13 16-0001)</small>		
27 53 13 16-0003 Analog, Wired Self-Corrective Clocks (Telecor) <small>(27 53 13 16-0002)</small>		
27 53 13 16-0004 24 Volt AC, Analog, Wired Self-Corrective Clocks <small>(27 53 13 16-0003)</small>		
27 53 13 16-0005 EA 12", Single Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount.....	202.73	25.25
For >50 To 100, Deduct	-13.64	
For >100, Deduct	-19.73	
27 53 13 16-0006 EA 12", Dual Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	474.44	25.25
For >50 To 100, Deduct	-24.51	
For >100, Deduct	-41.47	
27 53 13 16-0007 EA 16", Single Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount.....	252.83	25.25
For >50 To 100, Deduct	-17.67	
For >100, Deduct	-25.76	
27 53 13 16-0008 EA 16", Dual Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	624.75	25.25
For >50 To 100, Deduct	-64.98	
For >100, Deduct	-87.95	
27 53 13 16-0009 120 Volt AC, Analog, Wired Self-Corrective Clocks <small>(27 53 13 16-0003)</small>		
27 53 13 16-0010 EA 12", Single Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount.....	202.73	25.25
For >50 To 100, Deduct	-13.64	
For >100, Deduct	-19.73	
27 53 13 16-0011 EA 12", Dual Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	474.44	25.25
For >50 To 100, Deduct	-24.51	
For >100, Deduct	-41.47	
27 53 13 16-0012 EA 16", Single Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount.....	252.83	25.25
For >50 To 100, Deduct	-17.67	
For >100, Deduct	-25.76	
27 53 13 16-0013 EA 16", Dual Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	624.75	25.25
For >50 To 100, Deduct	-64.98	
For >100, Deduct	-87.95	
27 53 13 16-0014 Accessories For Analog Wired Self-Corrective Clocks <small>(27 53 13 16-0003)</small>		
27 53 13 16-0015 EA Wire Guards For 12", 15" Or 16" Analog Wired Self-Corrective Clocks.....	164.96	12.62
27 53 13 16-0016 EA Back Box For 10", 12" Or 15" Flush Mount Analog Wired Self-Corrective Clocks.....	44.52	12.62
27 53 13 16-0017 EA Surface Mounting Rings For 12" Analog Wired Self-Corrective Clocks.....	55.61	12.62
27 53 13 16-0018 EA Surface Mounting Rings For 15" Analog Wired Self-Corrective Clocks.....	67.17	12.62
27 53 13 16-0019 EA Combination Back Box For Speaker And Clock.....	115.93	20.19
27 53 13 16-0020 Digital, Wired Self-Corrective Clocks (Telecor) <small>(27 53 13 16-0002)</small>		
27 53 13 16-0021 24 Volt AC, Digital, Wired Self-Corrective Clocks <small>(27 53 13 16-0020)</small>		

27 Communications**27 50 Distributed Communications and Monitoring Systems****27 53 Distributed Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 53 13 16-0022 EA 2.5", 24 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount	248.97	25.25
For Surface Mount, Add	39.70	
For >50 To 100, Deduct	-11.91	
For >100, Deduct	-19.85	
27 53 13 16-0023 EA 4", 24 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount	380.01	25.25
For Surface Mount, Add	65.90	
For >50 To 100, Deduct	-19.77	
For >100, Deduct	-32.95	
27 53 13 16-0024 120 Volt AC, Digital, Wired Self-Corrective Clocks (27 53 13 16-0020)		
27 53 13 16-0025 EA 2.5", 120 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount	248.97	25.25
For Surface Mount, Add	39.70	
For >50 To 100, Deduct	-11.91	
For >100, Deduct	-19.85	
27 53 13 16-0026 EA 4", 120 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount	380.01	25.25
For Surface Mount, Add	65.90	
For >50 To 100, Deduct	-19.77	
For >100, Deduct	-32.95	
27 53 13 16-0027 Replacement Modules For 24 Volt AC, Digital, Wired Self-Corrective Clocks		
(27 53 13 16-0020)		
27 53 13 16-0028 EA 2.5", Replacement Module For 24 Volt AC, Digital, Wired Self-Corrective Clocks	213.81	25.25
For >50 To 100, Deduct	-9.80	
For >100, Deduct	-16.33	
27 53 13 16-0029 EA 4" Replacement Module For 24 Volt AC, Digital, Wired Self-Corrective Clocks	348.22	25.25
For >50 To 100, Deduct	-17.86	
For >100, Deduct	-29.77	
27 53 13 16-0030 Replacement Modules For 120 Volt AC, Digital, Wired Self-Corrective Clocks		
(27 53 13 16-0020)		
27 53 13 16-0031 EA 2.5", Replacement Module For 120 Volt AC, Digital, Wired Self-Corrective Clocks	213.81	25.25
For >50 To 100, Deduct	-9.80	
For >100, Deduct	-16.33	
27 53 13 16-0032 EA 4" Replacement Module For 120 Volt AC, Digital, Wired Self-Corrective Clocks	348.22	25.25
For >50 To 100, Deduct	-17.86	
For >100, Deduct	-29.77	
27 53 13 16-0033 Accessories For Digital Wired Self-Corrective Clocks (27 53 13 16-0020)		
27 53 13 16-0034 EA Wire Guard For 4" Surface Mount Analog Wired Self-Corrective Clocks	223.73	12.62
27 53 13 16-0035 EA 2.5", Recessed Back Box For Flush Mount Digital Wired Self-Corrective Clocks	56.08	12.62
27 53 13 16-0036 EA 4", Recessed Back Box For Flush Mount Digital Wired Self-Corrective Clocks	76.32	12.62
27 53 13 16-0037 EA Dual Mounting Kit For Surface Mount Digital Wired Self-Corrective Clocks.....	195.79	12.62
27 53 13 16-0038 EA 4 Gang Extension Ring For Surface Mount Digital Wired Self-Corrective Clocks	57.53	12.62
27 53 13 16-0039 Wired Self-Corrective Master Clocks (27 53 13 16-0001)		
27 53 13 16-0040 Wired Self-Corrective Master Clocks (27 53 13 16-0039)		
27 53 13 16-0041 EA 24 Volt AC, Wired Self-Corrective Master Clock, Surface Mount (Telecor 2400-S-24)	2,327.10	201.97
27 53 13 16-0042 EA 120 Volt AC, Wired Self-Corrective Master Clock, Surface Mount (Telecor 2400-S-120).....	2,471.63	201.97
27 53 13 16-0043 Accessories For Wired Self-Corrective Master Clocks (27 53 13 16-0039)		
27 53 13 16-0044 EA 5 Amp Power Transformer For 24 Volt AC, Wired Self-Corrective Clock Systems (Telecor 2405).....	246.96	50.49
27 53 13 16-0045 EA 10 Amp Power Transformer For 24 Volt AC, Wired Self-Corrective Clock Systems (Telecor 2406).....	277.30	50.49
27 53 13 16-0046 Other Clock And Program Systems (27 53 13 16)		
27 53 13 16-0047 EA 4 Circuit Master Clock And Signal Control (Lathem LTR4-512)	1,403.41	100.98
27 53 13 16-0048 EA 8 Circuit Master Clock And Signal Control (Lathem LTR8-512)	1,719.27	201.97
27 53 13 16-0049 EA Program Bell (Lathem 906-6).....	216.67	50.49
27 53 13 16-0050 EA Combination Clock And Speaker	495.17	126.22

END OF SECTION 27



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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28 Electronic Safety and Security

Note: Termination costs are included with all safety and security equipment, panel boards, and devices. Terminations are not included with patch panels.

28 40 Life Safety ⁽²⁸⁾

Note: Includes testing of new devices and certification. See CSI section 26 05 19 16-0011 for electrical connections and termination.

28 42 Gas Detection and Alarm ^(28 40)

28 42 11 Gas Detection and Alarm Control, GUI, and Logic Systems ^(28 42)

28 42 11 00-0001 Monitoring System For Underground Tanks ^(28 42 11)

28 42 11 00-0002 Continuous Leak Detection System ^(28 42 11 00-0001)

Note: Includes calibration, electronic control module and probes. Excludes sample wells, electrical power supply and sensor cable.

28 42 11 00-0003	EA	Single Channel Underground Tank Monitoring System	4,737.82		414.02
28 42 11 00-0004	EA	2 Channel Underground Tank Monitoring System	6,387.36		552.37
28 42 11 00-0005	EA	3 Channel Underground Tank Monitoring System	8,891.32		591.75
28 42 11 00-0006	EA	4 Channel Underground Tank Monitoring System	9,686.45		828.05
28 42 11 00-0007	EA	Control Panel, 1-8 Tanks, Single Wall Tank Monitoring System	6,412.41		70.69
28 42 11 00-0008	EA	Control Panel, 1-4 Tanks, Double Wall Tank Monitoring System	5,782.21		63.12
28 42 11 00-0009	EA	Control Panel, 1-8 Tanks, Double Wall Tank Monitoring System	7,593.94		70.69
28 42 11 00-0010	EA	Tank Leak Detection Probe	2,345.49		15.15
28 42 11 00-0011	EA	Secondary Containment Collar Probe	289.57		6.06
28 42 11 00-0012	EA	Interstitial Leak Detection Probe	531.92		12.62
28 42 11 00-0013	EA	Liquid Phase Detection	1,752.49		37.87
28 42 11 00-0014	EA	Hydrocarbon Vapor, Fixed	1,619.87		37.87
28 42 11 00-0015	EA	Hydrocarbon Vapor, Float Mounted	1,889.90		42.91
28 42 11 00-0016	EA	Liquid And Vapor Hydrocarbon	2,155.14		42.91

28 42 15 Gas Detection Sensors ^(28 42)

28 42 15 00-0001 Hydrogen Gas Detection ^(28 42 15)

28 42 15 00-0002	EA	Hydrogen Gas Detector Sensor, 1% Fan Relay, 2% Alarm (SBS HGDI-DR)	1,401.46		37.94
28 42 15 00-0003	EA	Hydrogen Gas Detector Junction Box (SBS HGDI-JB)	77.14		12.65
28 42 15 00-0004	EA	Remote Display With 25' Cable For Hydrogen Gas Detector (SBS HGDI-REM)	364.69		37.94

28 43 Fuel Oil Detection and Alarm ^(28 40)

See CSI section 28 42 00 00-0000 for detection and alarms.

28 46 Fire Detection and Alarm ^(28 40)

28 46 11 Fire Sensors and Detectors ^(28 46)

28 46 11 11 Linear Heat Detection Sensors ^(28 46 11)

28 46 11 11-0001 Protectowire Fire Alarm ^(28 46 11 11)

28 46 11 11-0002 Linear Heat Detector Cable ^(28 46 11 11-0001)

28 46 11 11-0003	LF	Multi-Purpose Linear Heat Detector, EPC Type, 155 To 220 Degree F (Protectowire PHSC-EPC)	4.17		
28 46 11 11-0004	LF	Multi-Purpose Linear Heat Detector With Messenger Wire, EPC Type, 155 To 220 Degree F (Protectowire PHSC-EPC-M)	4.51		4.51
28 46 11 11-0005	LF	High Performance Linear Heat Detector, XCR Type, 155 To 220 Degree F (Protectowire PHSC-XCR)	4.51		4.51
28 46 11 11-0006	LF	High Performance Linear Heat Detector With Messenger Wire, XCR Type, 155 To 220 Degree F (Protectowire PHSC-XCR-M)	4.84		4.84
28 46 11 11-0007	LF	Multi-Purpose Linear Heat Detector, XLT Type, 135 Degree F (Protectowire PHSC-XLT)	5.42		5.42
28 46 11 11-0008	LF	Multi-Purpose Linear Heat Detector With Messenger Wire, XLT Type, 135 Degree F (Protectowire PHSC-XLT-M)	5.75		5.75
28 46 11 11-0009	EA	Flexible Lead Connector For Linear Heat Detector (Protectowire PFL)	55.43		55.43
28 46 11 11-0010	EA	Splicing Connector For Linear Heat Detector (Protectowire PWSC)	20.97		20.97
28 46 11 11-0011	EA	Cable Tray Clip For Linear Heat Detector (Protectowire CC-2N And CC-2W)	7.39		7.39
28 46 11 11-0012	EA	Cable Tray Spring Clip For Linear Heat Detector (Protectowire HPC-2)	7.39		7.39
28 46 11 11-0013	EA	Adhesive Cable Mount For Linear Heat Detector (Protectowire EMS-A-CO)	8.36		8.36
28 46 11 11-0014	EA	Beam Clamp For Linear Heat Detector (Protectowire BC-2)	13.00		13.00
28 46 11 11-0015	EA	Beam Clamp With Polypropylene Clip For Linear Heat Detector (Protectowire BC-3P)	13.45		13.45
28 46 11 11-0016	EA	Pipe Mounting Straps Nylon (3/4" to 2" Pipe) (Protectowire PM-3A)	1.15		1.15
28 46 11 11-0017	EA	Pipe Mounting Straps Nylon (2-1/2" to 3-1/2" Pipe) (Protectowire PM-3B)	1.57		1.57
28 46 11 11-0018	EA	Pipe Mounting Straps Nylon (4" to 6" Pipe) (Protectowire PM-3C)	6.84		6.84

28 46 20 Fire Alarm ^(28 46)

28 46 21 17 Proprietary Systems ^(28 46 20)

Note: Includes programming of equipment, testing and certification of new devices.

28 46 21 17-0001 Edwards Fire Alarm ^(28 46 21 17)

28 46 21 17-0002 EST3 Life Safety And Security Control ^(28 46 21 17-0001)

28 46 21 17-0003 EST3 Network ^(28 46 21 17-0002)

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0004 Remote Annunciators <small>(28 46 21 17-0003)</small>		
28 46 21 17-0005 EA Remote LCD Command Module Annunciator (EST3 3-LCDANN).....	1,145.40	75.88
Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.		
28 46 21 17-0006 EA Six Position Base Annunciator (EST3 3-6ANN).....	937.54	75.88
Note: Includes door, CPU card, two annunciator support modules and five blank filler plates. Space provided for up to four Control/Display Modules and one 3-LCD Liquid Crystal Display Module.		
28 46 21 17-0007 EA Ten Position Base Annunciator (EST3 3-10ANN).....	1,179.91	75.88
Note: Includes door, CPU card, two annunciator support modules and nine blank filler plates. Space provided for up to eight Control/Display Modules and one 3-LCD Liquid Crystal Display Module.		
28 46 21 17-0008 EA Annunciator CPU (EST3 3-ANNCPU3).....	760.11	75.88
Note: One Required per graphic annunciator.		
28 46 21 17-0009 EA Annunciator Support Module (EST3 3-ANNSM).....	143.16	25.30
Note: Takes one space in Annunciator box. Supports one Control/Display module.		
28 46 21 17-0010 EA Liquid Crystal Display Module (EST3 3-LCD).....	496.60	75.88
Note: Mounts over 3-CPU(1).		
28 46 21 17-0011 EA Liquid Crystal Display Module (EST3 3-LCDXL).....	665.10	75.88
Note: Mounts over 3-ANNCPU plus two spaces.		
28 46 21 17-0012 EA LED/SWITCH Driver Module Assembly For Third Part Graphics (EST3 3-EVDVRA).....	557.36	75.88
Note: Assembled version of 3-EVDVR, comes packaged with cables, mounting hardware installation instructions used for third party graphics. Mounts in 3-EVDVRX.		
28 46 21 17-0013 EA Power Supply Assembly With 19" Rail Mounting Chassis Assembly (EST3 3-EVPWRA).....	638.57	50.59
Note: Assembled version of 3-EVPWR, comes packaged with cables, mounting hardware and mounting plate for 3-ANNCPU1. Used for third party graphics.		
28 46 21 17-0014 EA Plastic Mounting Extrusion 19" Mounting (EST3 3-EVDVRX).....	101.90	25.30
Note: Mounts up to three 3-EVDVRA modules.		
28 46 21 17-0015 EA Central Processor Unit Module (EST3 3-CPU3).....	1,352.37	75.88
Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.		
28 46 21 17-0016 EA 120 Volt AC, 50/60 Hertz, Primary Power Supply With Local Rail Module (EST3 3-CPU3).....	1,182.40	25.30
Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.		
28 46 21 17-0017 Remote Annunciators Cabinets <small>(28 46 21 17-0003)</small>		
28 46 21 17-0018 EA Remote LCD Command Module Flush Mount LCD Wallbox (EST3 RLCMB/B).....	109.28	25.30
28 46 21 17-0019 EA Remote LCD Command Module Surface Mount LCD Wallbox (EST3 RLCMB/B-S).....	99.17	20.23
28 46 21 17-0020 EA Six Position LED/LCD Flush Wallbox (EST3 6ANN/B).....	122.30	25.30
28 46 21 17-0021 EA Six Position LED/LCD Surface Wallbox (EST3 6ANN/B-S).....	112.19	20.23
28 46 21 17-0022 EA Ten Position LED/LCD Flush Wallbox (EST3 10ANN/B).....	134.52	25.30
28 46 21 17-0023 EA Ten Position LED/LCD Surface Wallbox (EST3 10ANN/B-S).....	124.41	20.23
28 46 21 17-0024 Audio And Telephone Masters <small>(28 46 21 17-0003)</small>		
28 46 21 17-0025 EA Audio Source Unit With Local Microphone And Firefighters' Telephone (EST3 3-ASU/FT).....	3,690.14	101.18
28 46 21 17-0026 EA Audio Source Unit With Local Microphone (Provides Four Local Rail Spaces) (EST3 3-ASU/4).....	2,067.96	101.18
28 46 21 17-0027 EA Audio Source Unit With Local Microphone And Inner Door Filler Plate (EST3 3-ASU).....	1,886.69	101.18
28 46 21 17-0028 EA Fire Fighters Telephone Control Unit With Inner Door Filler Plate (EST3 3-FTCU).....	1,956.43	101.18
28 46 21 17-0029 EA Audio Source Unit Memory Expansion, 100 Minutes (EST3 3-ASUMX/100).....	2,230.13	101.18
28 46 21 17-0030 EA Zoned Amplifier, 95 Watt, Class B. 95 Watt Selectable For 25 Or 70 Vrms Class B Output. Mounts In 2 LRM Spaces (EST3 3-ZA95).....	1,873.29	50.59
28 46 21 17-0031 Battery Distribution Unit <small>(28 46 21 17-0003)</small>		
28 46 21 17-0032 EA Battery Distribution Unit (EST3 3-BTSEN).....	433.54	332.36
28 46 21 17-0033 Remote Booster Power Supply <small>(28 46 21 17-0003)</small>		
28 46 21 17-0034 EA 6.5 Amperes, 120 Volt AC, Booster Power Supply (EST3 BPS6A).....	658.77	75.88
28 46 21 17-0035 EA 10 Amperes, 110 Volt AC Booster Power Supply (EST3 BPS10).....	748.98	75.88
28 46 21 17-0036 EA 6.5 Amperes, 220 Volt AC Booster Power Supply (EST3 BPS10220).....	815.45	75.88
28 46 21 17-0037 EA Tamper Switch - For CAB7, 14 And 21 Series Cabinets (EST3 3-TAMP).....	111.46	25.30
28 46 21 17-0038 Batteries And Battery Cabinets <small>(28 46 21 17-0003)</small>		
28 46 21 17-0039 EA 1.2 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V1A2 (1.2 Ampere Hours)).....	86.69	25.30
28 46 21 17-0040 EA 4 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V4A (4.5 Ampere Hours)).....	106.29	25.30
28 46 21 17-0041 EA 24 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V24A (26 Ampere Hours)).....	241.49	25.30
28 46 21 17-0042 EA 6.5 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V6A5 (7.2 Ampere Hours)).....	114.13	25.30
28 46 21 17-0043 EA 40 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V40A (40 Ampere Hours)).....	304.26	25.30
28 46 21 17-0044 EA 10 Amperes Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V10A (11 Ampere Hours)).....	174.33	25.30
28 46 21 17-0045 EA 50 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V50A (50 Ampere Hours)).....	610.06	25.30
28 46 21 17-0046 EA 17 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V17A (18 Ampere Hours)).....	178.37	25.30
28 46 21 17-0047 EA 65 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V65A (65 Amp Hours)).....	733.02	25.30
28 46 21 17-0048 EA 8 Ampere Hours, 6 Volt DC, Sealed Lead Acid Battery (EST3 6V8A (8 Amp Hours)).....	102.47	25.30
28 46 21 17-0049 EA 10 Ampere Hours, 6 Volt DC, Sealed Lead Acid Battery (EST3 6V10A (12 Amp Hours)).....	92.68	25.30
28 46 21 17-0050 EA 14" x 18-1/4" x 7-1/4" Free Standing Battery Cabinet With Key Lock (EST3 BC-1).....	319.82	50.59
Note: Supports up to 40 Ah batteries will hold up to two 12V24A batteries.		
28 46 21 17-0051 EA 22" x 15" x 3-3/4" Grey Battery Cabinet (EST3 BC-2).....	267.04	50.59
Note: Holds up to two 12V17A batteries.		
28 46 21 17-0052 EA Remote Closet Enclosure (EST3 3-RCC7R).....	891.88	101.18
28 46 21 17-0053 EA Remote Closet Enclosure (EST3 3-RCC14R).....	1,099.68	101.18
28 46 21 17-0054 EA Remote Closet Enclosure (EST3 3-RCC21R).....	1,530.58	101.18



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0055 Serial Printer <small>(28 46 21 17-0003)</small>		
28 46 21 17-0056 EA System Printer - Desk Top Style (EST3 PT-1S).....	979.48	25.30
28 46 21 17-0057 Intelligent Analog Initiating Devices <small>(28 46 21 17-0002)</small>		
28 46 21 17-0058 Detectors, Signature <small>(28 46 21 17-0057)</small>		
28 46 21 17-0059 EA Intelligent 4D Multisensor Detector For Ionization, Photoelectric, And Heat (EST3 SIGA-IPHS).....	194.08	37.94
28 46 21 17-0060 EA Black, Intelligent 4D Multisensor Detector For Ionization, Photoelectric, And Heat (EST3 SIGA-IPHSB).....	216.90	37.94
28 46 21 17-0061 EA Intelligent 3D Multisensor Detector For Photoelectric And Heat (EST3 SIGA-PHS).....	187.29	37.94
28 46 21 17-0062 EA Intelligent Photoelectric Smoke Detector (EST3 SIGA-PS).....	166.90	37.94
28 46 21 17-0063 EA Intelligent Ionization Smoke Detector (EST3 SIGA-IS).....	173.69	37.94
28 46 21 17-0064 EA 135 Degrees Fahrenheit, 15 Degrees Fahrenheit Per Minute, Intelligent Fixed Temperature/Rate-of-Rise Heat Detector (EST3 SIGA-HRS).....	144.16	37.94
28 46 21 17-0065 EA 135 Degree Fahrenheit, Intelligent Fixed Temperature Heat Detector (EST3 SIGA-HFS).....	144.16	37.94
28 46 21 17-0066 EA Passive Infrared Motion Detector (EST3 SIGA-MD).....	222.97	37.94
28 46 21 17-0067 EA Passive Infrared Motion Detector With Swivel Mount For Single Gang Boxes (EST3 SIGA-MDS).....	245.23	37.94
28 46 21 17-0068 EA Intelligent Photoelectric Smoke Detector (EST3 SIGA2-PS).....	208.51	37.94
28 46 21 17-0069 EA Intelligent Combination Photo Electric And CO Sensor (EST3 SIGA2-PCOS).....	296.98	37.94
28 46 21 17-0070 EA 135 Degree Fahrenheit, Intelligent Fixed Temperature Heat Detector (EST3 SIGA2-HFS).....	175.50	37.94
28 46 21 17-0071 EA 135 Degrees Fahrenheit, 15 Degrees Fahrenheit Per Minute, Intelligent Fixed Temperature/Rate-of-Rise Heat Detector (EST3 SIGA2-HRS).....	175.50	37.94
28 46 21 17-0072 EA Photoelectric, Heat, Intelligent 3D Multisensor Detector (EST3 SIGA2-PHS).....	238.24	37.94
28 46 21 17-0073 Detectors, Duct Housings and Accessories, Signature <small>(28 46 21 17-0057)</small>		
28 46 21 17-0074 EA Superduct, Signature Duct Smoke Detector (EST3 SIGA-SD).....	389.09	63.24
28 46 21 17-0075 EA Superduct, Test Magnet Kit (EST3 SD-MAG).....	18.14	
28 46 21 17-0076 EA Superduct, 120" Air Sample Tube (EST3 SD-T120).....	52.97	15.18
28 46 21 17-0077 EA Superduct, Remote Test Station, Keyed, 2-Wire And SIGA (EST3 SD-TRK).....	102.62	20.23
28 46 21 17-0078 EA Duct Smoke Detector Test Station, 2-Gang Plastic Plate With Key Switch, 2 Keys, Use With Duct Detector Only (EST3 SIGA-DTS).....	137.11	20.23
28 46 21 17-0079 EA High Temp Heat Detector, 194 Degree F, Combination Rate-Of-Rise And Fixed Temperature (EST3 282B-PL).....	63.28	20.23
28 46 21 17-0080 Detectors, Smoke, Beam <small>(28 46 21 17-0057)</small>		
28 46 21 17-0081 EA Fireray 2000 Beam Alignment Aid, For Quick Alignment Of Beam Detector Transmitter And Receiver Heads (EST3 0201-01-A).....	131.80	
28 46 21 17-0082 EA Fireray 2000 Beam Smoke Detector (By Fire Fighting Enterprises) (EST3 22310-18-01).....	1,545.92	37.94
Note: Includes controller and remote mount transmitter and receiver head.		
28 46 21 17-0083 EA Fireray 2000 Beam Detector Prism, Use To Reflect Beam When Mounting Transmitter And Receiver Heads On Same Wall (EST3 23901-00).....	95.32	12.65
28 46 21 17-0084 EA Reflector, For EC-50R/-100R Reflective Beam Detectors (EST3 23901-01).....	112.77	12.65
28 46 21 17-0085 EA 160 - 330' Reflective Beam Detector (EST3 EC-100R).....	1,591.67	37.94
28 46 21 17-0086 EA 15 - 160' Reflective Beam Detector (EST3 EC-50R).....	1,358.47	37.94
28 46 21 17-0087 EA Remote Test Station, For EC-50R/-100R Reflective Beam Detectors (EST3 EC-LLT).....	316.87	12.65
28 46 21 17-0088 EA 160 - 330' Self Adjusting Reflective Beam Detector (EST3 EC-5000R).....	1,677.62	37.94
28 46 21 17-0089 Modules, Signature <small>(28 46 21 17-0057)</small>		
28 46 21 17-0090 EA Universal Class A/B Module - UIO Mount (EST3 SIGA-MAB).....	180.14	25.30
28 46 21 17-0091 EA Class B Single Input Module (One Gang Standard Mount) (EST3 SIGA-CT1).....	107.13	25.30
28 46 21 17-0092 EA Class B Dual Input Module (One Gang Standard Mount) (EST3 SIGA-CT2).....	146.56	25.30
28 46 21 17-0093 EA Class B Dual Input UIO (Plug In) Module (EST3 SIGA-MCT2).....	161.95	25.30
28 46 21 17-0094 EA Single Input (Riser) Module, Features A Built-In Ring Tone Generator, Use For Switching A Single Signal Or Audio Circuit (EST3 SIGA-CC1).....	161.44	25.30
28 46 21 17-0095 EA Dual Input (Riser) Module, Use For Switching (Selecting) Either Of Two Signal Or Audio Input Circuits To One Signal Output Circuit (EST3 SIGA-CC2).....	169.62	25.30
28 46 21 17-0096 EA Control Relay Module (One Gang Standard Mount) (EST3 SIGA-CR).....	127.96	25.30
Note: Select for either N.O. or N.C. operation. Rated at 2 amperes (24 Volt DC).		
28 46 21 17-0097 EA Control Relay UIO (Plug In) Module (EST3 SIGA-MCR).....	141.61	25.30
28 46 21 17-0098 EA Single Input (Riser) Module With Strobe Synchronization Output (EST3 SIGA-CC1S).....	187.04	25.30
28 46 21 17-0099 EA Universal Input/Output Module - Input With Programmable Output (EST3 SIGA-IO).....	182.48	25.30
28 46 21 17-0100 EA Input/Output Module - UIO Mount, Multifunction Module With Input And Program (EST3 SIGA-MIO).....	175.69	25.30
28 46 21 17-0101 EA Waterflow/Tamper Module (One Gang Standard Mount) (EST3 SIGA-WTM).....	161.59	136.30
28 46 21 17-0102 EA Monitor Module (One Gang Standard Mount) (EST3 SIGA-MM1).....	119.94	25.30
Note: Factory programmed for non-latching monitor operation.		
28 46 21 17-0103 EA Single Input (Riser) Module, With Synchronization Output (EST3 SIGA-MCC1S).....	187.92	25.30
28 46 21 17-0104 Module Accessories, Signature <small>(28 46 21 17-0057)</small>		
Note: Universal I/O motherboards are required for UIO plug-in modules. Module mounting plates can be used to mount multiple 1 and 2-gang modules.		
28 46 21 17-0105 EA Module Mounting Bracket - For 4" Square Box, Mounting Kit Allows Installing 2 Single Gang Signature Modules Into A Single 4" Square Box (EST3 SIGA-MB4).....	48.13	12.65
28 46 21 17-0106 EA Universal Input/Output Module Motherboard - 6 Position, Use For M Series Modules (EST3 SIGA-UIO6).....	159.75	25.30
28 46 21 17-0107 EA Transient Protector - For Bell And Horn Circuits, Provides Transient Protection To -CC1, -MCC1, -CC2, -MCC2, -UM And -MAB Modules (EST3 235196P).....	18.58	7.58

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0108 EA Signature Module Mounting Plate, 1 Footprint, Space For Up To Four 2-Gang Signature Modules Or Eight 1-Gang Signature Modules (EST3 SIGA-MP1).....	56.00	12.65
28 46 21 17-0109 EA Signature Module Mounting Plate, 1/2 Footprint, Space For Up To Two 2-Gang Signature Modules Or Four 1-Gang Signature Modules (EST3 SIGA-MP2).....	50.35	12.65
28 46 21 17-0110 EA Signature Module Mounting Plate, 1/2 Extended Footprint, Space For Up To Three 2-Gang Signature Modules Or Six 1-Gang Signature Modules (EST3 SIGA-MP2L).....	52.58	12.65
28 46 21 17-0111 Single Action Pull Stations, Signature (28 46 21 17-0057)		
28 46 21 17-0112 EA One Stage Fire Alarm Station, English Markings (EST3 SIGA-270).....	203.54	52.61
28 46 21 17-0113 EA Two Stage (Pre Signal) Fire Alarm Station, English Markings (EST3 SIGA-270P).....	237.63	52.61
28 46 21 17-0114 EA GA Key - For Pre Signal Station (EST3 276-K2).....	27.43	22.37
28 46 21 17-0115 EA 20 Glass Rods For SIGA-270 Series Stations (EST3 270-GLR).....	34.00	28.94
28 46 21 17-0116 EA Surface Mount Box, Red - For SIGA-270 Series (EST3 276B-RSB).....	55.20	34.95
28 46 21 17-0117 Double Action Pull Stations, Signature (28 46 21 17-0057)		
28 46 21 17-0118 EA Double Action (One Stage) Fire Alarm Station, English Markings (EST3 SIGA-278).....	189.71	52.61
28 46 21 17-0119 EA 12 Glass Rods For SIGA-278 Series (EST3 276-GLR).....	34.49	5.06
28 46 21 17-0120 Detector Bases and Accessories, Signature (28 46 21 17-0057)		
Note: For raised floor and plenum applications. Order detector mounting base and detector separately. Compatible with -PS, and -PHS detectors and -SB, -RB and -IB bases.		
28 46 21 17-0121 EA Audible (Sounder) Base (EST3 SIGA-AB4G).....	98.57	12.65
28 46 21 17-0122 EA Surface Box - For Sounder Base, Use With -AB4G Models Only (EST3 AB4G-SB).....	39.01	12.65
28 46 21 17-0123 EA Audible (Sounder) Base, Mounts To 4" Square, 2-1/8" Deep Box (EST3 SIGA-AB4).....	122.22	12.65
28 46 21 17-0124 EA Detector (Smoke) Guard, Covers Detectors Mounted To Flush Boxes, Compatible With -IPHS And -PS Signature Detectors (EST3 SIGA-DG).....	70.85	12.65
28 46 21 17-0125 EA Detector (Smoke) Guard Surface Box - For SIGA-DG (EST3 SIGA-DGSB).....	82.21	12.65
28 46 21 17-0126 EA Detector Mounting Plate (EST3 SIGA-DMP).....	127.66	12.65
Note: For raised floor and plenum applications. Order detector mounting base and detector separately. Compatible with -PS, -PHS and -IPHS detectors and -SB, -RB and -IB bases. SIGA-IPHS 4D detector is limited to operation in air velocities less than 500 feet per minute.		
28 46 21 17-0127 EA Remote Alarm LED, Use With -SB And -SB4 Standard Base Only (EST3 SIGA-LED).....	48.13	12.65
28 46 21 17-0128 EA Trim Skirt/Ring - For Octagon Box (EST3 SIGA-TS).....	18.68	7.58
28 46 21 17-0129 EA Trim Skirt/Ring - For 4" Square Box, Use To Hide Imperfections Around Electric Boxes Not Completely Hidden By Standard Bases, With All 4" Bases (EST3 SIGA-TS4).....	18.68	7.58
28 46 21 17-0130 EA Detector (Smoke) Guard Mounting Flange, Provides Secure Mounting While Offering Easy Guard Removal, With Tamper Hardware (EST3 SIGA-DGMF).....	49.37	7.58
28 46 21 17-0131 EA Detector Base With Isolator (EST3 SIGA-IB).....	81.06	12.65
28 46 21 17-0132 EA Detector Base With Isolator - For 4" Square Box, With TS4 Skirt (EST3 SIGA-IB4).....	85.93	12.65
28 46 21 17-0133 EA Detector Base With Form 'C' Relay (EST3 SIGA-RB).....	63.99	12.65
28 46 21 17-0134 EA Detector Base With Form 'C' Relay - For 4" Square Box, With TS4 Skirt (EST3 SIGA-RB4).....	72.56	12.65
28 46 21 17-0135 EA Detector Base - Standard, For 4" Square Box, With TS4 Skirt (EST3 SIGA-SB4).....	37.95	12.65
28 46 21 17-0136 Controllers, Signature (28 46 21 17-0057)		
28 46 21 17-0137 EA Signature Dual Driver Controller (EST3 3-SDDC1).....	2,649.75	75.88
28 46 21 17-0138 EA Single Signature Loop Controller (EST3 3-SSDC1).....	1,528.35	75.88
28 46 21 17-0139 EA Signature Loop Controller (EST3 3-SDC1).....	1,375.28	75.88
28 46 21 17-0140 EA Analog Addressable Loop Controller (EST3 3-AADC1).....	2,190.95	75.88
28 46 21 17-0141 Relays And Accessories (28 46 21 17-0057)		
28 46 21 17-0142 EA Multi Voltage Relay (EST3 MR101).....	146.88	25.30
28 46 21 17-0143 EA Single SPDT Auxiliary Relay With LED Track Mounting (EST3 MR101/T).....	45.25	12.65
28 46 21 17-0144 Notification Appliances (28 46 21 17-0002)		
28 46 21 17-0145 Wall Strobes, Horns And Chimes (28 46 21 17-0144)		
28 46 21 17-0146 EA Strobe (15, 30, 75, Or 110 cd Output), White (EST3 G1-VM).....	124.47	37.94
28 46 21 17-0147 EA Strobe (15, 30, 75, Or 110 cd Output), Red (EST3 G1R-VM).....	124.47	37.94
28 46 21 17-0148 EA Horn-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), White (EST3 G1-HDVM).....	140.30	37.94
28 46 21 17-0149 EA Temporal Horn (Selectable High Or Low dB Output), White (EST3 G1-HD).....	106.64	37.94
28 46 21 17-0150 EA Temporal Horn (Selectable High Or Low dB Output), Red (EST3 G1R-HD).....	106.64	37.94
28 46 21 17-0151 EA Temporal Horn, Hi/Lo dB Output, 24 Volt DC, White, With The Word "FIRE" On Housing (EST3 G1F-HD).....	106.64	37.94
28 46 21 17-0152 EA Temporal Horn, Hi/Lo dB Output, 24 Volt DC, Red, With The Word "FIRE" On Housing (EST3 G1RF-HD).....	106.64	37.94
28 46 21 17-0153 EA Horn (Steady Tone), 24 Volt DC, White, Not Compatible With Signal Master (EST3 G1-P).....	91.66	37.94
28 46 21 17-0154 EA Horn (Steady Tone) - 24 Volt DC, Red, Not Compatible With Signal Master (EST3 G1R-P).....	91.66	37.94
28 46 21 17-0155 EA Horn (Steady Tone), 24 Volt DC, Red, With The Word "FIRE" On Housing, Not Compatible With Signal Master (EST3 G1RF-P).....	91.66	37.94
28 46 21 17-0156 EA Genesis Chime-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), White (EST3 G1-CVM).....	204.89	37.94
28 46 21 17-0157 EA Genesis Chime-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), Red (EST3 G1R-CVM).....	204.89	37.94
28 46 21 17-0158 EA Genesis Chime (Selectable High Or Low dB Output), White (EST3 G1-C).....	138.37	37.94
28 46 21 17-0159 EA Genesis Chime (Selectable High Or Low dB Output), Red (EST3 G1R-C).....	138.37	37.94
28 46 21 17-0160 EA Wall Strobe, 15/75 cd, White, With The Word "FIRE" On Housing (EST3 G1F-V1575).....	124.47	37.94
28 46 21 17-0161 EA Multi-cd Strobe, 24 Volt DC, White, With The Word "FIRE" On Housing (EST3 G1F-VM).....	124.47	37.94
28 46 21 17-0162 EA Multi-Candela Strobe, 24 Volt DC, Red, With The Word "FIRE" On Housing (EST3 G1RF-VM).....	124.47	37.94
28 46 21 17-0163 EA Wall Strobe, 15/75 cd, Red, With The Word "FIRE" On Housing (EST3 G1RF-V1575).....	124.47	37.94



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0164 EA Genesis Ceiling Strobe, 15-95 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST3 GCF-VM).....	128.92	37.94
28 46 21 17-0165 EA Genesis Ceiling Strobe, 15-95 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST3 GCFR-VM).....	128.92	37.94
28 46 21 17-0166 EA Genesis Ceiling Strobe, 95-177 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST GCF-VMH).....	139.33	37.94
28 46 21 17-0167 EA Genesis Ceiling Strobe, 15-95 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-VM).....	128.92	37.94
28 46 21 17-0168 EA Genesis Ceiling Strobe, 95-177 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-VMH).....	128.92	37.94
28 46 21 17-0169 EA Genesis Trim Plate (For Two-Gang Or 4" Square Boxes) With "FIRE" Markings, White (EST3 G1T-FIRE).....	81.92	37.94
28 46 21 17-0170 EA Genesis Trim Plate (For Two-Gang Or 4" Square Boxes) With "FIRE" Markings, Red (EST3 G1RT-FIRE).....	81.92	37.94
28 46 21 17-0171 Wall Speakers And Speaker Strobes <small>(28 46 21 17-0144)</small>		
28 46 21 17-0172 EA Multi-Wattage 25 VRMS Speaker (EST3 G4-S2).....	105.30	37.94
28 46 21 17-0173 EA Multi-Candela/Wattage 25 VRMS Speaker-Strobe (EST3 G4-S2VM).....	155.49	37.94
28 46 21 17-0174 EA Multi-Wattage 70 VRMS Speaker (EST3 G4-S7).....	105.30	37.94
28 46 21 17-0175 EA Multi-Candela/Wattage 70 VRMS Speaker-Strobe (EST3 G4-S7VM).....	155.49	37.94
28 46 21 17-0176 EA Surface Box, White, For Genesis Speaker (EST3 G4B).....	52.71	20.23
28 46 21 17-0177 EA Surface Box, Red, For Genesis Speaker (EST3 G4RB).....	52.71	20.23
28 46 21 17-0178 Ceiling Speakers And Speaker Strobes <small>(28 46 21 17-0144)</small>		
28 46 21 17-0179 EA Genesis Ceiling Speaker, 70 VRMS, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7).....	123.50	37.94
28 46 21 17-0180 EA Genesis Ceiling Speaker/Strobe, 70 VRMS, 15-95 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7VM).....	155.49	37.94
28 46 21 17-0181 EA Genesis Ceiling Speaker/Strobe, 70 VRMS, 95-177 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7VMH).....	165.62	37.94
28 46 21 17-0182 Harsh Environment Signals <small>(28 46 21 17-0144)</small>		
28 46 21 17-0183 EA Temporal Horn, Self-Synchronized, 24 Volt DC (EST3 757-1A-T).....	111.04	37.94
28 46 21 17-0184 EA 15/75 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-7A-T).....	150.99	37.94
28 46 21 17-0185 EA 110 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-8A-T).....	150.99	37.94
28 46 21 17-0186 EA 15 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-5A-T).....	139.12	37.94
28 46 21 17-0187 EA 15/75 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-7A-T).....	131.22	37.94
28 46 21 17-0188 EA 30 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-3A-T).....	139.12	37.94
28 46 21 17-0189 EA 60 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-6A-T).....	139.12	37.94
28 46 21 17-0190 EA 110 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-8A-T).....	139.12	37.94
28 46 21 17-0191 EA 15/75 Candela Synchronized, 24 Volt DC, Red, Outdoor Listed, Strobe (EST3 CS405-7A-T).....	154.15	43.00
28 46 21 17-0192 EA 110 Candela Synchronized, 24 Volt DC, Red, Outdoor Listed, Strobe (EST3 CS405-8A-T).....	154.15	43.00
28 46 21 17-0193 EA 15 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-5A-T).....	115.90	37.94
28 46 21 17-0194 EA 30 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-3A-T).....	147.27	37.94
28 46 21 17-0195 Fire Alarm Bells <small>(28 46 21 17-0144)</small>		
28 46 21 17-0196 EA 10" Single Stroke Fire Alarm Bells, 24 Volt DC (EST3 323D-10AW).....	162.08	37.94
28 46 21 17-0197 EA 6" Vibrating Fire Alarm Bells, 24 Volt DC (EST3 439D-6AW).....	132.24	37.94
28 46 21 17-0198 EA 10" Vibrating Fire Alarm Bells, 24 Volt DC (EST3 439D-10AW).....	144.97	37.94
28 46 21 17-0199 Multiple Tone Signal <small>(28 46 21 17-0144)</small>		
28 46 21 17-0200 EA 27 Tone Selectable Signal, 24 Volt DC (EST3 5530MD-24AW).....	971.17	933.23
28 46 21 17-0201 Multi-Purpose Loudspeaker <small>(28 46 21 17-0144)</small>		
28 46 21 17-0202 EA 15 Watt Loudspeaker, Gray (EST3 HPSA15G2570).....	209.66	37.94
28 46 21 17-0203 EA 15 Watt Loudspeaker, Red (EST3 HPSA15R2570).....	209.66	37.94
28 46 21 17-0204 Bell/Strobe Plate <small>(28 46 21 17-0144)</small>		
28 46 21 17-0205 EA Bell/Strobe Plate - 15cd (EST3 403-5A-R).....	106.42	20.23
28 46 21 17-0206 Mounting Accessories <small>(28 46 21 17-0144)</small>		
28 46 21 17-0207 EA Surface Mount Box - Indoor, Red, 1-Gang (EST3 27193-11).....	53.64	20.23
28 46 21 17-0208 EA One Gang Surface Mount Box, Red, No Bottom KO (EST3 27193-11-NY).....	53.64	20.23
28 46 21 17-0209 EA Surface Mount Box - Indoor, White, 1-Gang (EST3 27193-16).....	53.64	20.23
28 46 21 17-0210 EA Surface Mount Box - Indoor, Red, 2-Gang (EST3 27193-21).....	53.64	20.23
28 46 21 17-0211 EA Surface Mount Box - Indoor, White, 2-Gang (EST3 27193-26).....	53.64	20.23
28 46 21 17-0212 Firefighters' Telephones <small>(28 46 21 17-0144)</small>		
28 46 21 17-0213 EA Remote Telephone Warden Station - Flush, Red, 5' Armored Cable, Hinged Door With Magnetic Latch, 4-State (EST3 6830-NY-F4).....	879.55	63.24
28 46 21 17-0214 EA Four State Remote Telephone Warden Station - Surface, Armored Cord (EST3 6830-NY-S4).....	503.02	63.24
28 46 21 17-0215 EA Remote Telephone Warden Station - Flush, Armored Cord (EST3 6830-NY-F).....	367.42	63.24
28 46 21 17-0216 EA Telephone Handset Assembly - Red c/w 60" Coiled Cord (EST3 6830-1).....	272.89	63.24
28 46 21 17-0217 EA Remote Telephone Handset Station - 4-State, Red, 5' Coiled Cord (EST3 6830-4).....	486.14	63.24
28 46 21 17-0218 EA Three State Telephone Handset Assembly - Red, 60" Coiled Cord, Push To Talk Button (EST3 6830-5A).....	306.63	63.24
28 46 21 17-0219 EA Remote Telephone Handset Station - 4-State, Red, 'Push To Talk' Button, 5' Coiled Cord (EST3 6830-5A-4).....	545.90	63.24
28 46 21 17-0220 EA Three State Telephone Handset Assembly - Red, 60" Armored Cord, Push To Talk Button (EST3 6830-6A).....	317.87	63.24
28 46 21 17-0221 EA Remote Telephone Handset Station - 4-State, Red, 'Push To Talk' Button, 5' Armored Cable (EST3 6830-6A-4).....	622.42	63.24
28 46 21 17-0222 EA Portable Handset Receptacle, 1 Gang Stainless Steel Faceplate (EST3 6833-1).....	72.03	20.23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0223 EA Portable Telephone Receptacle - 1-Gang, SS, 4-State (EST3 6833-4)	81.82	20.23
28 46 21 17-0224 EA Portable Telephone Handset - Black, Coiled Cord (EST3 6830-3)	107.50	
28 46 21 17-0225 EA Portable Telephone Handset - Red, Coiled Cord (EST3 6700-0061).....	107.50	
28 46 21 17-0226 EA Frontplate - Flush Mount, Red Finish, Break Glass Type, With Two Keys (EST3 6831-1)	168.06	25.30
28 46 21 17-0227 EA Frontplate - Flush Mount, Red Finish, Non Break Glass Type With Two Keys (EST3 6831-2).....	207.03	25.30
28 46 21 17-0228 EA Frontplate - Surface Mount, Red Finish, Break Glass Type, With Two Keys (EST3 6831-3).....	148.58	25.30
28 46 21 17-0229 EA Frontplate - Surface Mount, Red Finish, Non Break Glass Type, With Two Keys (EST3 6831-4)	142.85	25.30
28 46 21 17-0230 EA Wallbox - Flush Or Surface Mount, Red Finish, 14" x 8-1/2" x 3-1/2" (EST3 6832-1).....	111.48	37.94
28 46 21 17-0231 EA Portable Handset Storage Cabinet, Surface Mount, With Keylock, Red Finish (EST3 TCS-6).....	903.45	50.59
28 46 21 17-0232 Mass Notification EC Appliances (28 46 21 17-0144)		
28 46 21 17-0233 EA G1 Wall, Strobe, White Housing, Alert Markings, Amber Lens (EST3 G1WA-VMA).....	128.95	37.94
28 46 21 17-0234 EA G1 Wall, Strobe, White Housing, Alert Markings, Clear Lens (EST3 G1WA-VMC).....	124.91	37.94
28 46 21 17-0235 EA G1 Wall, Strobe, White Housing, No Markings, Amber Lens (EST3 G1WN-VMA)	128.95	37.94
28 46 21 17-0236 EA G1 Wall, Strobe, White Housing, No Markings, Clear Lens (EST3 G1WN-VMC)	124.91	37.94
28 46 21 17-0237 EA G1 Wall, White Trim Ring, Alert Marking (EST3 G1WT-ALERT)	20.02	7.58
28 46 21 17-0238 Hazardous Location Devices (28 46 21 17-0002)		
28 46 21 17-0239 Detectors, Rate Compensation Heat, For Explosion/Weather/Moisture Proof And Ordinary Location (28 46 21 17-0238)		
28 46 21 17-0240 EA Heat Detector, Rate Compensation, Interior Vertical Surface Mount FM And UL, 135 Degree F (EST3 302-135).....	112.45	37.94
28 46 21 17-0241 EA Heat Detector, Rate Compensation, Interior Vertical Surface Mount FM And UL, 194 Degree F (EST3 302-194).....	112.45	37.94
28 46 21 17-0242 EA Heat Detector - Rate Compensation, All-Weather Vertical Mounting, FM And UL, 135 Degree F (EST3 302-AW-135).....	116.39	37.94
28 46 21 17-0243 EA Heat Detector - Rate Compensation, All-Weather Vertical Mounting, FM And UL, 194 Degree F (EST3 302-AW-194).....	116.39	37.94
28 46 21 17-0244 EA Heat Detector, Rate Compensation, Explosion Proof Mounting, Interior Vertical Surface Mount FM And UL, 135 Degree F, Requires JALX-11 Or Equal (EST3 302-EPM-135).....	152.81	37.94
28 46 21 17-0245 EA Heat Detector, Rate Compensation, Explosion Proof Mounting, Interior Vertical Surface Mount FM And UL, 194 Degree F, Requires JALX-11 Or Equal (EST3 302-EPM-194).....	152.81	37.94
28 46 21 17-0246 EA Heat Detector, Rate Compensation, All-Weather Vertical, Box Mount (1/2" NPT), FM And UL, 135 Degree F, Requires STONCO27 Or Equal (EST3 302-ET-135)	116.39	37.94
28 46 21 17-0247 EA Heat Detector, Rate Compensation, All-Weather Vertical, Box Mount (1/2" NPT), FM And UL, 194 Degree F, Requires STONCO27 Or Equal (EST3 302-ET-194)	116.39	37.94
28 46 21 17-0248 Hazardous Locations Fire Alarm Station (28 46 21 17-0238)		
28 46 21 17-0249 EA Hazardous Location Fire Alarm Station (EST3 XAL53).....	930.60	63.24
28 46 21 17-0250 EA Explosion Proof, Weatherproof, Fire Alarm Station, Single Action, Cat 45 Key Reset, Terminal Connections, DPDT (EST3 MPSR1-D45WX-GE).....	886.91	63.24
28 46 21 17-0251 Hazardous Location Strobes (28 46 21 17-0238)		
28 46 21 17-0252 EA Explosion Proof Strobe (EST3 116DEXSTC-FJ).....	1,365.10	37.94
28 46 21 17-0253 EA Wall Bracket Mounting Elbow (EST3 116EX-B).....	256.58	12.65
28 46 21 17-0254 EA Ceiling / Wall Mounting Module (EST3 116EX-C).....	335.22	15.18
28 46 21 17-0255 EA Pendant Mounting Module (EST3 116EX-P).....	247.29	15.18
28 46 21 17-0256 Hazardous Location Bells (28 46 21 17-0238)		
28 46 21 17-0257 EA 6" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-6AW)	988.49	37.94
28 46 21 17-0258 EA 8" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-8AW)	1,013.78	37.94
28 46 21 17-0259 EA 10" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-10AW)	1,022.89	37.94
28 46 21 17-0260 Hazardous Location Horns (28 46 21 17-0238)		
28 46 21 17-0261 EA Hazardous Location Horns (EST3 888D-N5)	966.69	37.94
28 46 21 17-0262 EA Explosion Proof Horn, Diode Polarized, 24 Volt DC (EST3 889D-AW).....	791.68	37.94
28 46 21 17-0263 Door Holders And Relays (28 46 21 17-0002)		
28 46 21 17-0264 Electromagnetic Door Holders (28 46 21 17-0263)		
28 46 21 17-0265 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Single, Floor Mount (EST3 1501-AQN5)	182.92	37.94
28 46 21 17-0266 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Double, Floor Mount (EST3 1502-AQN5).....	233.68	37.94
28 46 21 17-0267 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Flush, Wall Mount (EST3 1504-AQN5).....	157.00	37.94
28 46 21 17-0268 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Flush, Wall Mount, Short Catch Plate (EST3 1505-AQN5).....	157.00	37.94
28 46 21 17-0269 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Surface, Wall Mount (EST3 1508-AQN5).....	159.34	37.94
28 46 21 17-0270 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Completely Flush, Wall Mount (EST3 1509-AQN5).....	161.57	37.94
28 46 21 17-0271 Control Relays, Multi-Voltage (28 46 21 17-0263)		
28 46 21 17-0272 EA Single SPDT With LED, Adhesive Tape Mounting (EST3 PAM1).....	36.96	7.58
28 46 21 17-0273 FireShield Plus (28 46 21 17-0002)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0274				3 Zone System <small>(28 46 21 17-0273)</small>		
	EA			Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP302R)	1,021.72	303.54
	EA			Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP302RD)	1,476.91	404.71
	EA			Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP302G)	1,021.72	303.54
	EA			Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP302GD)	1,476.91	404.71
	EA			Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Gray (EST3 F-TRIM35G)	69.04	12.65
	EA			Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Red (EST3 F-TRIM35R)	69.04	12.65
28 46 21 17-0281				5 Zone System <small>(28 46 21 17-0273)</small>		
	EA			Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP502R)	1,092.51	303.54
	EA			Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP502RD)	1,543.65	404.71
	EA			Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP502G)	1,092.51	303.54
	EA			Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP502GD)	1,543.65	404.71
	EA			Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Gray (EST3 F-TRIM35G)	69.04	12.65
	EA			Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Red (EST3 F-TRIM35R)	69.04	12.65
28 46 21 17-0288				10 Zone System <small>(28 46 21 17-0273)</small>		
	EA			Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries (EST3 FSP1004R)	1,567.92	404.71
	EA			Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP1004RD)	2,023.10	505.90
	EA			Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries (EST3 FSP1004G)	1,537.58	404.71
	EA			Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP1004GD)	2,023.10	505.90
	EA			Semi Flush Trim Kit For 10 Zone Enclosures, Gray (EST3 F-TRIM10G)	79.99	12.65
	EA			NAC Power Expansion Transformer, 120 Volt AC, Increases 10 Zone FACP NAC (EST3 F-XTR120)	146.90	25.30
28 46 21 17-0295				FireShield Plus Off Premise Communication Options <small>(28 46 21 17-0273)</small>		
	EA			F-Series Upload/Download DACT And Modem, Dual Line, With 2x16 LCD (EST3 F-DACT)	313.53	25.30
28 46 21 17-0297				FireShield Plus Remote LED Annunciators <small>(28 46 21 17-0273)</small>		
	EA			Remote System Indicator, Power, Alarm, Supervisory, Trouble And Ground Fault LED's With Local Buzzer, Single Gang, And White Trim Plate (EST3 FSRSI)	141.51	37.94
	EA			Remote Zone Indicator, Contains 5 Red LED's For Alarm Zone Indication, With Jumper Selectable Zone Settings, Single Gang, And White Trim Plate (EST3 FSRZI-A)	141.51	37.94
	EA			Remote Zone Indicator, Contains 5 Bi-Color LED's (Red/Yellow) For Alarm Or Supervisory Zone Indication, With Jumper Selectable Zone Settings, Single Gang, And White Trim Plate (EST3 FSRZI-SA)	146.67	37.94
	EA			Remote Annunciator Trim Plate - 2 Gang - White (EST3 FSAT2)	28.34	7.58
	EA			Remote Annunciator Trim Plate - 3 Gang - White (EST3 FSAT3)	34.94	7.58
	EA			Remote Annunciator Trim Plate - 4 Gang - White (EST3 FSAT4)	50.79	7.58
28 46 21 17-0304				FireShield Plus Remote 10 Zone LED Annunciators <small>(28 46 21 17-0273)</small>		
	EA			Remote LED Annunciator, With Common System Indicators, 10 Zone Indicators, White Housing, Mounts To 4" Electrical Box, For Use With 10 Zone Panels Only (EST3 FSRA10)	419.73	37.94
	EA			Remote LED Annunciator, With Common System Indicators, 10 Zone Indicators And Common Control Switches, White Housing, Mounts To 4" Electrical Box, For Use With 10 Zone Panels Only (EST3 FSRA10C)	460.18	37.94
	EA			Single Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Gray (EST3 RA-ENC1)	151.72	25.30
28 46 21 17-0308				FireShield Plus Remote Relays And Interfaces <small>(28 46 21 17-0273)</small>		
	EA			Remote Relay Module, 5 Form C Contacts, Jumper Selectable Operation, With Mounting Track (EST3 FSRRM24)	159.97	25.30
	EA			11" Snap Track Holds 2-4 RRM's, Used To Mount FSRRMs In MFC-A Or Other Listed Enclosure, MFC-A Will Hold Two FSRRM-11S (EST3 FSRRM-S11)	67.61	15.18
	EA			Common Function Graphic Driver/Interface - 9 Relays And 5 Switch Inputs For Common System Indicators And Controls (EST3 FSUIM)	250.83	25.30
28 46 21 17-0312				FireShield Plus Accessories <small>(28 46 21 17-0273)</small>		
	EA			Resistor Kit With 1-3.6K And 1-1.1K (46071-0409) (EST3 EOL3.6-1.1)	15.31	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0314 EA 4.7k UL End Of Line Resistor With Fireshield Panels (EST3 EOL47PK7).....	9.78	
28 46 21 17-0315 iO Series Fire Control Panels (28 46 21 17-0002)		
28 46 21 17-0316 Intelligent Analog Control Panels (28 46 21 17-0315)		
28 46 21 17-0317 EA FACP, 1 Intelligent Loop Supporting 125 Detectors/125 Modules, 2nd Loop Optional, 4 Class B NAC's, 6.5 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 18a/h Batteries, English (EST3 iO500G)	3,091.53	505.90
28 46 21 17-0318 EA FACP, 1 Intelligent Loop Supporting 125 Detectors/125 Modules, 2nd Loop Optional, 4 Class B NAC's, 6.5 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 18 Amp/hour Batteries, With Dual Line Dialer/Modem, English (EST3 iO500GD).....	3,287.72	505.90
28 46 21 17-0319 EA FACP, 1 Loop, 64 Intelligent Devices Max, 2 Class B NAC's, 4.25 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 10 Amp/hour Batteries, English (EST3 iO64G).....	2,468.37	404.71
28 46 21 17-0320 EA FACP, 1 Loop, 64 Intelligent Devices Max, 2 Class B NAC's, 4.25 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 10 Amp/hour Batteries, With Dual Line Dialer/Modem, English (EST3 iO64GD).....	2,559.39	404.71
28 46 21 17-0321 Option Modules And Accessories For iO Series (28 46 21 17-0315)		
28 46 21 17-0322 EA 16 Zone LED Annunciator, 2 LED's Per Zone, Customizable Insert Labels, Left Side Mounting, Zones 1-16 (EST3 D16L-iO-1)	278.14	37.94
28 46 21 17-0323 EA 16 Zone LED Annunciator, 2 LED's Per Zone, Customizable Insert Labels, Right Side Mounting, Zones 17-32, Requires D16L-iO-1 (EST3 D16L-iO-2)	177.01	37.94
28 46 21 17-0324 EA Serial Interface, RS232, 4 Terminal Connections For Supervised/Unsupervised Printers And Connection To PC's (EST3 SA-232).....	177.01	37.94
28 46 21 17-0325 EA Class A NAC Module, For 64 Point Systems Only, Mounts To Main Board (EST3 SA-CLA).....	151.72	25.30
28 46 21 17-0326 EA Dialer/Modem, Two Telephone Line Connections, RJ31, Mounts To Base Plate (EST3 SA-DACT)	303.42	20.23
28 46 21 17-0327 EA Ethernet Port Interface, RJ45, Mounts To Base Plate (EST3 SA-ETH)	546.14	20.23
28 46 21 17-0328 EA Trim Kit For Semi-Flush Mounting 64 Point Systems (EST3 SA-TRIM1).....	67.78	12.65
28 46 21 17-0329 EA Trim Kit For Semi-Flush Mounting 500 Point Systems (EST3 SA-TRIM2).....	77.89	12.65
28 46 21 17-0330 EA Expansion Loop For iO500 Systems, 125 Detectors/125 Modules, Mounts On Main Board (EST3 XAL250)	1,011.36	50.59
28 46 21 17-0331 Remote Annunciators For iO Series (28 46 21 17-0315)		
28 46 21 17-0332 EA Remote Annunciator, 80 Character LCD, Common System Indicators, Beige Housing, Mounts To 4" Box With Supplied Ring (EST3 RLCD)	556.25	37.94
28 46 21 17-0333 EA Remote Annunciator, 80 Character LCD, Common System Indicators And Controls, Beige Housing, Mounts To 4" Box With Supplied Ring (EST3 RLCD-C)	581.54	37.94
28 46 21 17-0334 Remote Annunciator Accessories (28 46 21 17-0315)		
28 46 21 17-0335 EA 24 Expander Cable Assembly, With Cable And Hardware (EST3 730073)	65.75	12.65
28 46 21 17-0336 EA 12 Expander Cable (Cable Only) (EST3 7120313-01).....	45.53	12.65
28 46 21 17-0337 EA 24 Expander Cable (Cable Only) (EST3 7120313-02).....	60.69	12.65
28 46 21 17-0338 EA Single Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC1)	177.01	37.94
28 46 21 17-0339 EA Dual Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC2).....	202.29	37.94
28 46 21 17-0340 EA Three Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC3)	227.58	37.94
28 46 21 17-0341 EA Blank Zone Card Insert For RLEDx Controllers (EST3 RA-LED16ZC)	45.53	12.65
28 46 21 17-0342 EA Blank Zone Card Insert For RLED24x Controllers (EST3 RA-LED24ZC)	45.53	12.65
28 46 21 17-0343 EA Remote Key Switch, Single Gang Mount, Provides Keyed Control To Enable/Disable Common Control Switches On Remote Annunciators (EST3 RKEY).....	89.72	12.65
28 46 21 17-0344 System Accessories (28 46 21 17-0315)		
28 46 21 17-0345 EA Battery Cabinet, 14" x 18.25" x 7.25" Free Standing Cabinet With Key Lock, Supports Up To 40 Amp Hours Batteries, Will Hold Up To Two 12 Volt DC, 24 Ampere Batteries (EST3 BC-1).....	319.82	50.59
28 46 21 17-0346 EA Isolator Module - RS232, For Use With Short Haul Modems, VDU-3, CCA Series, CGP Series And FCOM-232, Requires 1/2 Size Cabinet Footprint (EST3 IOP3A)	1,499.56	404.71
28 46 21 17-0347 Conventional Initiating Devices (28 46 21 17-0002)		
28 46 21 17-0348 Detectors, Heat, Double Pole (28 46 21 17-0347)		
Note: WARNING, Heat detectors are not Life Safety Devices, use for property protection only.		
28 46 21 17-0349 EA Heat Detector, 135 Degree F Fixed Temperature (CF135-2).....	130.38	37.94
28 46 21 17-0350 EA Heat Detector, 200 Degree F Fixed Temperature (CF200-2).....	130.38	37.94
28 46 21 17-0351 EA Heat Detector, 135 Degree F ROR/Fixed Temperature (CR135-2).....	130.38	37.94
28 46 21 17-0352 EA Heat Detector, 200 Degree F ROR/Fixed Temperature (CR200-2).....	130.38	37.94
28 46 21 17-0353 Detectors, Rate Compensation Heat, Accessories (28 46 21 17-0347)		
28 46 21 17-0354 EA Heat Detector, Rate Compensation, Adapter Plate For Mounting 302 And 302-AW To Any 3 Outlet Box Or 4" Octagon Outlet Box (GE AP-P).....	84.02	37.94
28 46 21 17-0355 EA Explosion Proof Outlet Body With Cover, 1/2" Threaded Hubs On Back, Four Sides And Cover (GE JALX11).....	205.80	20.23
28 46 21 17-0356 EA 4" Weatherproof, Octagon Backbox And Cover, 1/2" Threaded Hubs On Back, Four Sides And Cover (GE STONCO27)	70.30	25.30
28 46 21 17-0357 Detectors, Heat, Fire-Lite (28 46 21 17-0347)		
Note: WARNING, Heat detectors are not Life Safety Devices, use for property protection only.		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0358	EA			Explosion Heat Detector, 135 Degree F Fixed Temperature, Rate-Anticipation Heat Detector, All-Weather Vertical Mounting (302-EPM-135).....	122.64	37.94
28 46 21 17-0359	EA			Explosion Heat Detector, 194 Degree F Fixed Temperature, Rate-Anticipation Heat Detector, All-Weather Vertical Mounting (302-EPM-194).....	122.64	37.94
28 46 21 17-0360				Audio Notification Systems (Standalone Voice Evacuation) (28 46 21 17-0002)		
28 46 21 17-0361				Audio Notification Panels (28 46 21 17-0360)		
28 46 21 17-0362	EA			Audio Notification Panel, 100 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS100MDG).....	4,015.39	505.90
28 46 21 17-0363	EA			Audio Notification Panel, 100 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS100MDR).....	4,015.39	505.90
28 46 21 17-0364	EA			Audio Notification Panel, 25 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS25MDG).....	3,034.41	505.90
28 46 21 17-0365	EA			Audio Notification Panel, 25 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS25MDR).....	3,034.41	505.90
28 46 21 17-0366	EA			Audio Notification Panel, 50 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS50MDG).....	3,519.85	505.90
28 46 21 17-0367	EA			Audio Notification Panel, 50 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS50MDR).....	3,519.85	505.90
28 46 21 17-0368				Audio Notification Expander Panels (28 46 21 17-0360)		
28 46 21 17-0369	EA			Audio Expander Panel, 100W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS100XG).....	3,115.32	505.90
28 46 21 17-0370	EA			Audio Expander Panel, 100W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS100XR).....	3,115.32	505.90
28 46 21 17-0371	EA			Audio Expander Panel, 25 Watt Without DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS25XG).....	2,164.69	505.90
28 46 21 17-0372	EA			Audio Expander Panel, 25 Watt Without DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS25XR).....	2,164.69	505.90
28 46 21 17-0373	EA			Audio Expander Panel, 50W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS50XG).....	2,720.91	505.90
28 46 21 17-0374	EA			Audio Expander Panel, 50W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS50XR).....	2,720.91	505.90
28 46 21 17-0375				Audio Notification Output Accessories (28 46 21 17-0360)		
28 46 21 17-0376	EA			Zone Adapter, 1 Circuit To 2 Circuit's (GE ANSZC2B).....	116.32	12.65
28 46 21 17-0377	EA			Zone Splitter, 2 Class A Circuits With Zone Selection Switches And All-Call Switch (GE ANSZS2A).....	505.68	25.30
28 46 21 17-0378	EA			Zone Splitter, 4 Class B Circuits With Zone Selection Switches And All-Call Switch (GE ANSZS4B).....	505.68	25.30
28 46 21 17-0379	EA			Class A Converter (GE ANSZSC4A).....	364.10	25.30
28 46 21 17-0380				Audio Notification Remote Microphone (28 46 21 17-0360)		
28 46 21 17-0381	EA			Microphone (GE ANSMIKE).....	141.61	25.30
28 46 21 17-0382	EA			Remote Microphone, Supervised In Surface/Semi-Flush Gray Cabinet, Requires EVX-SC Card In Evacuation Panel (GE ANSREMG).....	556.25	25.30
28 46 21 17-0383	EA			Remote Microphone, Supervised In Surface/Semi-Flush Red Cabinet, Requires EVX-SC Card In Evacuation Panel (GE ANSREMR).....	556.25	25.30
28 46 21 17-0384	EA			Remote Microphone Supervisory Card, One Per System, Supervises Up To 5 Remote Microphones (GE ANSREMSUP).....	126.43	12.65
28 46 21 17-0385	EA			Relay Card For Supervision/Zone Splitter To Remote Microphone (GE ANSZSR).....	70.80	12.65
28 46 21 17-0386				Audio Notification Accessories (28 46 21 17-0360)		
28 46 21 17-0387	EA			Audio Matching - Line Input/Output Card (GE ANSAUX).....	232.63	25.30
28 46 21 17-0388	EA			Class B Backup Amplifier Switching Module (GE ANSBKUP).....	232.63	25.30
28 46 21 17-0389	EA			Class A Backup Amplifier Switching Module (GE ANSBKUPA).....	232.63	25.30
28 46 21 17-0390	EA			Eight Input Remote Serial Interface Module, Accepts Dry Contact Interface To Control Up To 8 Messages, Message Recording Included With Module, For Industrial Signaling Only, Not UL Listed For Fire Alarm / Life Safety Applications (GE ANSRSI8).....	505.68	25.30
28 46 21 17-0391				Audio Notification Modules, Without Cabinet And Transformer (28 46 21 17-0360)		
28 46 21 17-0392	EA			100W Expander Module (No Microphone OR DMR), Requires Transformer Ordered Separately (GE ANS100A).....	1,830.52	50.59
28 46 21 17-0393	EA			100W Expander Module With Microphone (No DMR), Requires Transformer Ordered Separately (GE ANS100AM).....	1,921.54	50.59
28 46 21 17-0394	EA			100W Audio Notification Module With DMR And Microphone, Requires Transformer Ordered Separately (GE ANS100AMD).....	2,649.69	50.59
28 46 21 17-0395	EA			25 Watt Expander Module (No Microphone Or DMR), Requires Transformer Ordered Separately (GE ANS25A).....	1,011.36	50.59
28 46 21 17-0396	EA			25 Watt Expander Module With Microphone (No DMR), Requires Transformer (GE ANS25AM).....	1,011.36	50.59
28 46 21 17-0397	EA			25 Watt Audio Notification Module With DMR And Microphone, Requires Transformer Ordered Separately (GE ANS25AMD).....	1,830.52	50.59
28 46 21 17-0398	EA			50W Expander Module (No Microphone Or DMR) (GE ANS50A).....	1,466.45	50.59

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0399 EA 50W Expander Module With Microphone (No DMR) (GE ANS50AM).....	1,557.47	50.59
Note: Excludes cabinet.		
28 46 21 17-0400 EA 50W Audio Notification Module With DMR And Microphone (GE ANS50AMD).....	2,285.62	50.59
Note: Excludes cabinet.		
28 46 21 17-0401 EA Power Transformer, Open Frame, 28 Volt AC At 180 VA (EVAX 50/100) (GE ANST28180).....	116.32	12.65
28 46 21 17-0402 EA Power Transformer, Open Frame, 28 Volt AC At 100 VA (EVAX 25) (GE ANST2885).....	87.03	12.65
28 46 21 17-0403 Simplex Fire Alarm (28 46 21 17)		
28 46 21 17-0404 4100 Fire Alarm Control Panel (28 46 21 17-0403)		
28 46 21 17-0405 EA 4100U Master Controller Assembly With LCD And Operator Interface, 9 Amperes System Power Supply/Battery Charger (SPS), 250 Point IDNet Interface, 3 NACs, Auxiliary Relay And External RUI Communications Interface, 120 Volt AC Input (Simplex 4100-9111).....	5,086.47	504.91
28 46 21 17-0406 EA 4100ES NDU With Master Controller, LCD And Operator Interface, Network Interface Module (Select Media Card Separately), 9 Amperes System Power Supply/Battery Charger, And External RUI Communications Interface (Power Supply/Battery Charger Is An SPS With Its IDNet Channel And NACs Disabled), 120 Volt AC Input (Simplex 4100-9141).....	5,525.80	504.91
28 46 21 17-0407 EA 4100ES NDU With VCC Includes The First Bay Equipment Described For The NDU And A Second Bay Assembly With Separate: Master Controller For Voice Functions, Network Interface (Select Media Card Separately), And A Standard SPS With 250 Point IDNet Channel; And 3, 3 A Class A/B NACs Capable Of SmartSync Two-Wire Operation, 120 V Input (Simplex 4100-9142).....	7,826.75	504.91
28 46 21 17-0408 EA Up To 127 Points, IDNet Module, (Simplex 4100-3104).....	3,360.03	504.91
Note: Add-on module.		
28 46 21 17-0409 EA Up To 64 Points, IDNet Module, (Simplex 4100-3105).....	2,690.04	504.91
Note: Add-on module.		
28 46 21 17-0410 EA Expansion Power Supply, 3 NACs, 120 Volt AC (Simplex 4100-5101).....	1,567.25	126.22
Note: Add-on module.		
28 46 21 17-0411 EA Alarm Relay, 3 Form C Relays, 2 Amperes At 32 Volt DC, For SPS Or RPS (Simplex 4100-6033).....	327.53	25.25
Note: Add-on module.		
28 46 21 17-0412 EA Dual Port RS-232 Interface Card (Simplex 4100-6038).....	927.03	25.25
Note: Add-on module.		
28 46 21 17-0413 4100U Backbox (28 46 21 17-0403)		
28 46 21 17-0414 EA 2 Bay Backbox With Glass Door And Dress Panel (Simplex 2975-9425).....	1,623.49	100.98
Note: 24" x 40" beige backbox.		
28 46 21 17-0415 EA 3 Bay Backbox With Glass Door And Dress Panel (Simplex 2975-9443).....	2,275.30	100.98
Note: 24" x 56" beige backbox.		
28 46 21 17-0416 DACT (Digital Alarm Communicator Transmitter) (28 46 21 17-0403)		
28 46 21 17-0417 EA 6 Zone Fire Control Communicator (Silent Knight SK-5104).....	887.59	50.49
28 46 21 17-0418 4010 Fire Alarm Control Panel (28 46 21 17-0403)		
28 46 21 17-0419 EA 120 Volt AC Fire Alarm Control Panel With Door, Cabinet, Power Supply/Battery Charger, IDNet Interface, 4 NACs, 2 Programmable Auxiliary Relays, External N2 Communications Interface, And Internal Common Event Reporting DACT (Simplex 4010-9101).....	4,817.13	504.91
28 46 21 17-0420 EA 240 Volt AC Fire Alarm Control Panel With Door, Cabinet, Power Supply/Battery Charger, IDNet Interface, 4 NACs, 2 Programmable Auxiliary Relays, And External N2 Communications Interface (Simplex 4010-9201).....	4,683.62	504.91
28 46 21 17-0421 EA Dual Circuit Class A NAC Adapter Module (Simplex 4010-9806).....	171.80	25.25
28 46 21 17-0422 EA Dual RS-232 Interface Module Expansion Slot Option (Simplex 4010-9811).....	723.62	25.25
28 46 21 17-0423 EA Single RS-232 Interface Module With Service Modem Connection Expansion Slot Option (Simplex 4010-9812).....	992.40	25.25
28 46 21 17-0424 EA 120 Volt AC, 4 Amperes, Expansion Power Supply Expansion Module (Simplex 4010-9813).....	513.13	25.25
28 46 21 17-0425 EA 240 Volt AC, 4 Amperes, Expansion Power Supply Expansion Module (Simplex 4010-9823).....	554.74	25.25
28 46 21 17-0426 EA Battery Meter Module Expansion Module (Simplex 4010-9820).....	212.23	25.25
28 46 21 17-0427 Printer (28 46 21 17-0403)		
28 46 21 17-0428 EA 24 Pin Dot Matrix Printer (Simplex 4190-9013).....	1,594.24	25.25
28 46 21 17-0429 NAC Panel / Power Booster (28 46 21 17-0403)		
28 46 21 17-0430 EA 120 Volt AC, IDNet NAC Extender With 4, Class B (Style Y) NACs And 8 Amperes Power Supply (Simplex 4009- 9201).....	1,059.66	126.22
Note: Power supply for horns and strobes.		
28 46 21 17-0431 Battery (28 46 21 17-0403)		
28 46 21 17-0432 EA 50 Amp Hours Sealed Lead Acid Battery (Simplex 2081-9296).....	648.62	25.25
Note: Two required for 24 volt DC.		
28 46 21 17-0433 EA 33 Amp Hours Sealed Lead Acid Battery (Simplex 2081-9276).....	433.07	25.25
Note: Two required for 24 volt DC.		
28 46 21 17-0434 EA 6.2 Amp Hours Sealed Lead Acid Battery (Simplex 2081-9272).....	160.06	25.25
Note: Two required for 24 volt DC.		
28 46 21 17-0435 Interface Modules (28 46 21 17-0403)		
28 46 21 17-0436 EA Supervised Individual Addressable Modules (Simplex 4090-9001).....	130.44	25.25
Note: Monitor modules for waterflow/tamper, etc.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0437 EA Relay Individual Addressable Modules (Simplex 4090-9002).....	263.49	25.25
Note: Control modules for gas shutdown, door holders, etc.		
28 46 21 17-0438 EA Relay SPDT With LED MR-801/T (Simplex 2088-9032).....	67.76	25.25
Note: Interface relay for 120VAC		
28 46 21 17-0439 EA SmartSync™ Adapter Module For Non-Addressable Notification Appliance Circuits (NACs) (Simplex 4905-9815).....	131.91	25.25
28 46 21 17-0440 EA Surface Mount Cover Plate For SmartSync Adapter Module (Simplex 4905-9817).....	59.05	12.62
28 46 21 17-0441 EA Flush Mount Cover Plate For SmartSync Adapter Module (Simplex 4905-9818).....	56.23	12.62
28 46 21 17-0442 Pull Stations <small>(28 46 21 17-0403)</small>		
28 46 21 17-0443 EA Addressable Single Action Manual Pull Station (Simplex 4099-9001).....	158.98	25.25
28 46 21 17-0444 EA N.O. Contacts, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9101).....	115.29	25.25
28 46 21 17-0445 EA N.C. Contacts, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9102).....	123.73	25.25
28 46 21 17-0446 EA Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9103).....	111.48	25.25
28 46 21 17-0447 EA N.O. Contacts, Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9104).....	129.37	25.25
28 46 21 17-0448 EA N.C. Contacts, Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9105).....	193.65	25.25
28 46 21 17-0449 EA Single Action, Pre-Signal, N.O. Contacts, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9107).....	163.17	25.25
28 46 21 17-0450 EA Break-Glass, Pre-Signal, N.O. Contacts, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9108).....	191.34	25.25
28 46 21 17-0451 EA Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9754).....	91.81	25.25
28 46 21 17-0452 EA Local Alarm Cover, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9755).....	96.97	25.25
28 46 21 17-0453 EA Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9756).....	113.57	25.25
28 46 21 17-0454 EA N.C. Contacts, Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9758).....	173.91	25.25
28 46 21 17-0455 EA Pre-Signal, N.O. Contacts, Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9759).....	297.32	25.25
28 46 21 17-0456 EA Institutional Cover, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9762).....	101.20	25.25
28 46 21 17-0457 EA Surface Mount Steel Box For Manual Pull Station (Simplex 2975-9178).....	61.88	12.62
28 46 21 17-0458 Weatherproof Pull Stations <small>(28 46 21 17-0403)</small>		
28 46 21 17-0459 EA Weather Proof Single Action Pull Station, Cast Metal, B Lock, SPST (Simplex 2099-9138).....	156.39	30.29
28 46 21 17-0460 EA Surface Mount Cast Aluminum Box For Exterior Pull Station (Simplex 2975-9211).....	99.31	12.62
28 46 21 17-0461 Heat / Smoke Sensor <small>(28 46 21 17-0403)</small>		
28 46 21 17-0462 EA 32 To 122 Degree F Heat Sensor (Simplex 4098-9733).....	158.72	37.87
28 46 21 17-0463 EA Photoelectric Smoke Sensor (Simplex 4098-9714).....	227.87	37.87
28 46 21 17-0464 EA Sensor Base With Relay Driver (Simplex 4098-9791).....	432.27	12.62
28 46 21 17-0465 EA Standard Sensor Base (Simplex 4098-9792).....	220.87	12.62
28 46 21 17-0466 EA Remote Supervised Relay Accessory For Sensor Base With Relay Driver (Simplex 2098-9737).....	130.96	25.25
Note: Relay for 4098-9791		
28 46 21 17-0467 Explosion Proof Heat Detector <small>(28 46 21 17-0403)</small>		
28 46 21 17-0468 EA 135 Degree F Explosion Proof Heat Detector (Simplex 2098-9488).....	167.56	37.87
28 46 21 17-0469 EA Explosion Proof Backbox (Killark JLX-21).....	106.96	12.62
28 46 21 17-0470 EA Explosion Proof Backbox Plugs (Killark CUP-2).....	10.04	2.53
28 46 21 17-0471 Weatherproof Heat Detector <small>(28 46 21 17-0403)</small>		
28 46 21 17-0472 EA 194 Degree F Fixed Hardwired Weatherproof Heat Detector (Simplex 2098-9490).....	123.13	37.87
28 46 21 17-0473 200 Degree F Heat Detector <small>(28 46 21 17-0403)</small>		
28 46 21 17-0474 EA 194 Degree F Heat Detector, ROR/Fixed Temperature (Simplex 5604).....	103.26	37.87
Note: Used in kiln rooms and kitchens.		
28 46 21 17-0475 Duct Smoke Sensor <small>(28 46 21 17-0403)</small>		
28 46 21 17-0476 EA Duct Sensor Housing (Simplex 4098-9755).....	351.46	20.19
28 46 21 17-0477 EA Duct Sensor Housing With Supervised Output For Multiple Remote Relays, 4-Wire (Simplex 4098-9756).....	477.51	45.44
Note: Relay output for AHU shutdown.		
28 46 21 17-0478 EA 46" To 71" Duct Sampling Tube (Simplex 2098-9798).....	54.63	12.62
Note: 25", 49", 73" or 97" sampling tube length.		
28 46 21 17-0479 EA Remote Duct Test Station With Key Switch And Red LED Status Indicator (Simplex 2098-9806).....	131.51	37.87
28 46 21 17-0480 Interior Horn <small>(28 46 21 17-0403)</small>		
28 46 21 17-0481 EA Red With White "FIRE" Lettering, TrueAlert Addressable Electronic Horn (Simplex 4901-9850).....	122.27	37.87
28 46 21 17-0482 EA White With Red "FIRE" Lettering, TrueAlert Addressable Electronic Horn (Simplex 4901-9853).....	122.27	37.87
28 46 21 17-0483 Interior Horn Strobe <small>(28 46 21 17-0403)</small>		
28 46 21 17-0484 EA 75Cd, Wall Mounted Horn Strobe, Red (Simplex 4903-9426).....	166.21	37.87
28 46 21 17-0485 EA 110Cd, Wall Mounted Horn Strobe, Red (Simplex 4903-9427).....	166.21	37.87
28 46 21 17-0486 EA Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9127).....	156.18	37.87

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0487	EA	Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9128).....	156.18	37.87
28 46 21 17-0488	EA	Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9129).....	156.18	37.87
28 46 21 17-0489	EA	Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9130).....	156.18	37.87
28 46 21 17-0490	EA	Weatherproof, Red Housing, White Lettering, Horn And Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9131).....	159.55	37.87
28 46 21 17-0491	EA	Weatherproof, White Housing, Red Lettering, Horn And Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9132).....	159.55	37.87
28 46 21 17-0492	EA	Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9139).....	165.45	37.87
28 46 21 17-0493	EA	Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9140).....	162.73	37.87
28 46 21 17-0494	EA	Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9141).....	165.45	37.87
28 46 21 17-0495	EA	Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9142).....	162.73	37.87
28 46 21 17-0496	EA	Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9227).....	156.18	37.87
28 46 21 17-0497	EA	Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9228).....	156.18	37.87
28 46 21 17-0498	EA	Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9229).....	156.18	37.87
28 46 21 17-0499	EA	Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9230).....	156.18	37.87
28 46 21 17-0500		Interior Strobe <small>(28 46 21 17-0403)</small>		
28 46 21 17-0501	EA	Wall Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9101).....	134.89	37.87
28 46 21 17-0502	EA	Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9102).....	134.89	37.87
28 46 21 17-0503	EA	Wall Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9103).....	134.84	37.87
28 46 21 17-0504	EA	Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9104).....	134.89	37.87
28 46 21 17-0505	EA	Weatherproof, Red Housing, White Lettering, Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9105).....	147.62	37.87
28 46 21 17-0506	EA	Weatherproof, White Housing, Red Lettering, Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9106).....	147.62	37.87
28 46 21 17-0507	EA	Wall Mount, Red Housing, White Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9109).....	148.44	37.87
28 46 21 17-0508	EA	Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9110).....	150.66	37.87
28 46 21 17-0509	EA	Wall Mount, White Housing, Red Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9111).....	150.66	37.87
28 46 21 17-0510	EA	Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9112).....	150.66	37.87
28 46 21 17-0511	EA	Wall Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9201).....	134.89	37.87
28 46 21 17-0512	EA	Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9202).....	134.89	37.87
28 46 21 17-0513	EA	Wall Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9203).....	134.89	37.87
28 46 21 17-0514	EA	Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9204).....	134.89	37.87
28 46 21 17-0515		Interior Speakers <small>(28 46 21 17-0403)</small>		
28 46 21 17-0516	EA	Red With White "FIRE" Lettering, Wall Mount Speaker, Rectangular Housing (Simplex 4902-9716).....	111.48	37.87
28 46 21 17-0517	EA	White With Red "FIRE" Lettering, Wall Mount Speaker, Rectangular Housing (Simplex 4902-9717).....	111.48	37.87
28 46 21 17-0518	EA	Ceiling Or Wall Mount, Round Housing Speaker (Simplex 4902-9721).....	111.48	37.87
28 46 21 17-0519		Interior Speaker Strobe <small>(28 46 21 17-0403)</small>		
28 46 21 17-0520	EA	Red Housing, White Lettering, Multi-Tapped Speaker And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9151).....	176.13	37.87
28 46 21 17-0521	EA	White Housing, Red Lettering, Multi-Tapped Speaker And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9153).....	176.13	37.87
28 46 21 17-0522		Surge Suppressors <small>(28 46 21 17-0403)</small>		
28 46 21 17-0523	EA	Overvoltage Suppressor (Simplex 2081-9044).....	109.98	7.57
28 46 21 17-0524	EA	Isolated Loop Circuit Protector (Simplex 2081-9028).....	70.96	7.57
28 46 21 17-0525	EA	120 Volt AC, 20 Amperes, Multi Stage Hybrid Surge Protector With EMI/RFI Filtering (Ditek 120S20A).....	233.59	7.57
28 46 21 17-0526	EA	24 Volt AC, Data And Loop Circuit Surge Protector (Ditek DTK-2MHL24B).....	81.01	7.57
28 46 21 17-0527	EA	Mounting Base For Two DTK-2MHL (Ditek DTK-2MB).....	122.34	12.62
28 46 21 17-0528	EA	120 Volt AC, 22,500 Amperes, Equipment Panel/Dedicated Circuit Surge Protector (Ditek DTK-120HW).....	83.01	7.57
28 46 21 17-0529	EA	<105 Volt AC, 9,000 Amperes, RJ31 Connection, Alarm Dialer Surge Protection (Ditek DTK-MRJ31SCWP).....	62.90	7.57



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST	
28 46 21 17-0530	Boxes And Adapters <small>(28 46 21 17-0403)</small>		
28 46 21 17-0531 EA	Semi-Flush Mount Modular Adapter Using Standard 4" Square Electrical Box (Simplex 4905-9921).....	56.23	12.62
28 46 21 17-0532 EA	Surface Mount Modular Adapter Using Simplex Box (Simplex 4905-9925).....	53.42	12.62
28 46 21 17-0533 EA	Red, Surface Mount Adapter Skirt (Simplex 4905-9937).....	47.90	12.62
28 46 21 17-0534 EA	White, Surface Mount Adapter Skirt (Simplex 4905-9940).....	40.06	12.62
28 46 21 17-0535	Accessories <small>(28 46 21 17-0403)</small>		
28 46 21 17-0536 EA	End-Of-Line Resistor Harness, 10 k Ohms, 1/2 Watt, Two Required, One Each For Audible And Visible Output (Simplex 4081-9008).....	28.52	12.62
28 46 21 17-0537	Siemens Fire Alarm <small>(28 46 21 17)</small>		
28 46 21 17-0538	Conventional Control Panels <small>(28 46 21 17-0537)</small>		
28 46 21 17-0539	SXL Batteries And Power Supplies <small>(28 46 21 17-0538)</small>		
28 46 21 17-0540 EA	6 Amp Notification Appliance Circuit Expander With Built-In Auxiliary Power Output (Siemens PAD-3).....	926.21	50.49
28 46 21 17-0541 EA	Main Board Only For PAD-3 (Siemens PAD-3-MB).....	748.22	50.49
28 46 21 17-0542	Digital Fire Communicators <small>(28 46 21 17-0538)</small>		
28 46 21 17-0543 EA	Four Channel Digital Slave Fire Communicator (Siemens 5129).....	724.76	50.49
28 46 21 17-0544	Addressable Control Panels <small>(28 46 21 17-0537)</small>		
28 46 21 17-0545	Fireseeker Equipment <small>(28 46 21 17-0544)</small>		
28 46 21 17-0546	FS-250 System Panels <small>(28 46 21 17-0545)</small>		
28 46 21 17-0547 EA	FS-250 Electronics Package Including One FS-250-CON And Two FS-NPE, Excludes Enclosure (Siemens FS-250-EKIT).....	2,317.23	504.91
Note: FS-250-CON is an electronics package for releasing water or agent. FS-NPE is a system transformer.			
28 46 21 17-0548 EA	FS-250 Electronics Package Including One FS-250-CON, Two FS-NPE, One FS-RPT And One FS-REL, Excludes Enclosure (Siemens FS-250-REL-EKIT).....	2,860.92	504.91
Note: FS-250-CON is an electronics package for releasing water or agent. FS-NPE is a system transformer. FS-RPT is a releasing power transformer. FS-REL is a Releasing Module.			
28 46 21 17-0549 EA	FS-250-SRX Releasing Electronics Package Including One FS-250-CON2-SRX, Two FS-NPE, One FS-RPT And One FS-REL, Excludes Enclosure (Siemens FS-250-SRX-EKIT).....	1,730.17	403.92
Note: FS-250-CON2-SRX is an electronics package for releasing water or agent. FS-NPE is a system transformer. FS-RPT is a releasing power transformer. FS-REL is a Releasing Module.			
28 46 21 17-0550 EA	Electronics Package For Releasing Water Or Agent (Siemens FS-250-CON).....	2,320.47	504.91
28 46 21 17-0551	FS-250 Optional Modules <small>(28 46 21 17-0545)</small>		
28 46 21 17-0552 EA	Main Board Module (Siemens FS-MB2).....	932.68	50.49
28 46 21 17-0553 EA	Display Board Module (Siemens FS-DB2).....	723.62	25.25
28 46 21 17-0554 EA	Device Loop Card (Siemens FS-DLC).....	594.17	25.25
28 46 21 17-0555 EA	Releasing Module (Siemens FS-REL).....	267.32	25.25
28 46 21 17-0556 EA	Remote LCD Annunciator (Siemens FS-RD2).....	590.13	25.25
28 46 21 17-0557 EA	Relay Processor Card (Siemens FS-RU2).....	513.27	25.25
28 46 21 17-0558 EA	Relay Expander Board (Siemens FS-RE8).....	438.83	25.25
28 46 21 17-0559 EA	Serial Annunciator Processor Card (Siemens FS-SAU2).....	590.13	25.25
28 46 21 17-0560 EA	16 Output Annunciator Extender (Siemens FS-SAE16).....	461.49	25.25
28 46 21 17-0561 EA	Digital Alarm Communication Transmitter (Siemens FS-DACT).....	420.23	25.25
28 46 21 17-0562 EA	Municipal Tie Module (Siemens FS-MT).....	357.93	25.25
28 46 21 17-0563 EA	Configuration Tool Including Laptop To FS-250 Cable And Software (Siemens FS-CT2).....	333.18	25.25
28 46 21 17-0564 EA	Programming Cable Kit (Siemens CBL-UD).....	87.55	12.62
28 46 21 17-0565 EA	Notification Appliance Circuit Power Expander Transformer (Siemens FS-NPE).....	158.09	25.25
28 46 21 17-0566 EA	Releasing Power Transformer (Siemens FS-RPT-A).....	160.52	25.25
28 46 21 17-0567 EA	Surface Mounted Box For Remote LCD Annunciator (Siemens FS-RD-SB).....	179.56	20.19
28 46 21 17-0568 EA	Cabinet Trim Kit (Siemens RD-CAB-TK).....	287.38	12.62
28 46 21 17-0569	Firefinder Systems <small>(28 46 21 17-0544)</small>		
28 46 21 17-0570	XLS Basic Fire System Packages Without Backbox <small>(28 46 21 17-0569)</small>		
28 46 21 17-0571 EA	500 Point Firefinder Package Including Two DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-500-ID-SP).....	7,968.56	504.91
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.			
28 46 21 17-0572 EA	250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-250-ID-SP).....	7,044.63	504.91
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.			
28 46 21 17-0573 EA	250 Point Firefinder Package Including One DLC, One PMI-INT, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-250-INT-ID-SP).....	7,044.63	504.91
Note: DLC is a device loop card. PMI-INT is a person machine interface with multilingual overlays. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.			

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0574 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12, One CAB2-BD And One OD-LP (Siemens XLS-250-CAB2-BD).....	11,636.80	504.91
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. CAB2-BD is a two row inner and outer door set. OD-LP is an outer door clear plastic lens plate.		
28 46 21 17-0575 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12, One CAB3-BD, One BCL, One ID-SP And One OD-LP (Siemens XLS-250-CAB3-BD).....	12,020.29	504.91
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. CAB3-BD is a three row inner and outer door set. ID-SP is an inner door blank single plate. OD-LP is an outer door clear plastic lens plate.		
28 46 21 17-0576 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC4A-EP).....	6,951.59	504.91
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
28 46 21 17-0577 EA 250 Point Firefinder Package Including One DLC, One PMI-INT, One ZIC-4A, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC4A-INT-EP).....	6,951.59	504.91
Note: DLC is a device loop card. PMI-INT is a person machine interface with multilingual overlays. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
28 46 21 17-0578 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-8B, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC8B-EP).....	8,032.48	504.91
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-8B is an eight circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
28 46 21 17-0579 Firefinder - XLS Basic System Equipment (28 46 21 17-0569)		
28 46 21 17-0580 EA Person Machine Interface With Central Processor (Siemens PMI).....	3,706.37	504.91
Note: Includes inner door.		
28 46 21 17-0581 EA Person Machine Interface With Central Processor, DE-2 And DPU (Siemens PMI-DPU-ENC).....	6,093.88	504.91
Note: Includes inner door.		
28 46 21 17-0582 EA Person Machine Interface With Multilingual Overlays And Central Processor (Siemens PMI-INT).....	3,706.37	504.91
Note: Includes inner door.		
28 46 21 17-0583 EA Two Slot Card Cage (Siemens CC-2).....	451.78	25.25
28 46 21 17-0584 EA Five Slot Card Cage (Siemens CC-5).....	760.03	25.25
28 46 21 17-0585 EA Four Circuit Zone Indicating Card (Siemens ZIC-4A).....	1,083.65	25.25
28 46 21 17-0586 EA Eight Circuit Zone Indicating Card (Siemens ZIC-8B).....	1,131.38	25.25
28 46 21 17-0587 EA Two Channel Adapter Card For ZIC-8B (Siemens ZIC-2C).....	361.17	25.25
28 46 21 17-0588 EA Device Loop Card (Siemens DLC).....	1,283.48	25.25
Note: Interfaces with up to 252 detectors and devices.		
28 46 21 17-0589 EA Controllable Relay Card (Siemens CRC-6).....	729.28	25.25
Note: Provides six programmable relays.		
28 46 21 17-0590 EA 12 Amp Power Supply Charger Module (Siemens PSC-12).....	2,747.05	25.25
28 46 21 17-0591 EA Person Machine Interface With Central Processor And GPMI-UK Software Upgrade Kit (Siemens GPMI).....	4,785.65	504.91
Note: Software kit provides interface with multiple FireFinder XLS and MXL systems.		
28 46 21 17-0592 EA Network Interface Card (Siemens NIC-C).....	852.26	25.25
Note: Provides HNET Or XNET communication between enclosures.		
28 46 21 17-0593 EA 12 Amp Power Supply Extender (Siemens PSX-12).....	2,285.90	25.25
Note: Extends PSC-12 with an additional 24 volt DC.		
28 46 21 17-0594 EA Power Termination Board (Siemens PTB).....	390.29	25.25
Note: Used with systems requiring more than one PSX-12.		
28 46 21 17-0595 EA Conventional Detector Card (Siemens CDC-4).....	821.51	25.25
28 46 21 17-0596 EA Multi-Mode Network Fiber Optic Interface Module (Siemens D2300CPS).....	1,603.87	25.25
28 46 21 17-0597 EA Single-Mode Network Fiber Optic Interface Module (Siemens D2325CPS).....	5,752.67	25.25
28 46 21 17-0598 Remote Lobby Enclosure (28 46 21 17-0569)		
28 46 21 17-0599 EA 14-1/2" x 18-1/2" x 5" Two Module Remote Enclosure (Siemens REMBOX2).....	1,081.41	100.98
Note: Flush mounted. Includes clear lens plate on cover.		
28 46 21 17-0600 EA 24" x 18-1/2" x 5" Four Module Remote Enclosure (Siemens REMBOX4).....	1,388.85	100.98
Note: Flush mounted. Includes clear lens plate on cover.		
28 46 21 17-0601 EA Optional Mounting Plate For REMBOX2 (Siemens REMBOX2-MP).....	174.27	25.25
Note: Required to mount up to four SIM-16 or OCM-16 modules.		
28 46 21 17-0602 EA Optional Mounting Plate For REMBOX4 (Siemens REMBOX4-MP).....	189.65	25.25
Note: Required to mount up to eight SIM-16 or OCM-16 modules.		
28 46 21 17-0603 Battery Enclosures (28 46 21 17-0569)		
28 46 21 17-0604 EA Enclosure For 100 Amp Hours Batteries (Siemens CAB-BATT).....	680.12	100.98
28 46 21 17-0605 Graphic Annunciator Output Drivers And Inputs (28 46 21 17-0569)		
28 46 21 17-0606 EA Output Control Module (Siemens OCM-16).....	528.64	25.25
28 46 21 17-0607 EA Supervised Input Module (Siemens SIM-16).....	528.64	25.25
28 46 21 17-0608 Remote LCD Displays (28 46 21 17-0569)		
28 46 21 17-0609 EA Remote LED/LCD System Status Display (Siemens SSD).....	1,229.93	75.73
Note: No control or menu capability.		
28 46 21 17-0610 EA Remote LED/LCD System Status Display, Buttons To Acknowledge Events, Silence Audible Circuits And Resetting (Siemens SSD-C).....	1,384.46	75.73



	MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0611	Voice Equipment <small>(28 46 21 17-0669)</small>		
	28 46 21 17-0612 EA 40 Watts Zone Amplifier Card (Siemens ZAC-40)	1,209.05	25.25
	28 46 21 17-0613 EA 180 Watts Zone Amplifier Module (Siemens ZAM-180)	2,671.00	25.25
	28 46 21 17-0614 EA Live Voice Module (Siemens LVM)	1,128.95	25.25
	Note: Includes a dynamic microphone with a push-to-talk switch and ready-to-page indicator light, as well as a small local speaker and volume control for monitoring audio signals.		
28 46 21 17-0615	MXL Series Equipment <small>(28 46 21 17-0544)</small>		
28 46 21 17-0616	MXL Optional Equipment <small>(28 46 21 17-0615)</small>		
	28 46 21 17-0617 EA Two Circuit Analog Loop Driver (Siemens ALD-21)	1,308.08	50.49
	28 46 21 17-0618 EA CXL/MXL Interface Module (Siemens CMI-300)	3,351.41	25.25
	28 46 21 17-0619 EA Four Relay Programmable Relay Module (Siemens CRM-4)	581.23	25.25
	28 46 21 17-0620 EA Two Circuit Controllable Signal/Releasing Module (Siemens CSM-4)	700.16	25.25
	28 46 21 17-0621 EA Remote Conventional Zone Module (Siemens CZM-1B6)	268.12	25.25
	28 46 21 17-0622 EA Short Circuit Line Isolator Module (Siemens Model LIM-1)	168.61	25.25
	28 46 21 17-0623 EA Four Circuit Conventional Zone Module (Siemens CZM-4)	681.55	25.25
	28 46 21 17-0624 EA 12" x 16" x 3" Enclosure For PAD-3 (Siemens EN-PAD)	253.72	37.87
	28 46 21 17-0625 EA Lexan Window For RCC (Siemens GENBOX-WD)	170.66	20.19
	28 46 21 17-0626 EA Input Driver Module (Siemens MID-16)	449.35	25.25
	28 46 21 17-0627 EA Programmable Output Driver Module (Siemens MOD-16)	449.35	25.25
	28 46 21 17-0628 EA MXL Output/Input Module (Siemens MOI-7)	714.72	25.25
	28 46 21 17-0629 EA Two Slot Network Option Module Card Cage (Siemens MOM-2)	383.82	25.25
	28 46 21 17-0630 EA Four Slot Network Option Module Card Cage (Siemens MOM-4)	599.83	25.25
	28 46 21 17-0631 EA 12 Amperes, 220 Volt AC, Power Supply For MXL (Siemens MPS-12/220)	1,479.12	75.73
	28 46 21 17-0632 EA 12 Amperes, 240 Volt AC, Power Supply For MXL (Siemens MPS-12/240)	1,479.12	75.73
	28 46 21 17-0633 EA Network Interface Module (Siemens NIM-1W)	1,062.61	25.25
	28 46 21 17-0634 EA U.L. Listed Parallel Printer (Siemens PAL-1)	2,790.93	100.98
	28 46 21 17-0635 EA Peripheral Interface Module, Model PIM-1 (Siemens 500-691324)	316.67	25.25
	28 46 21 17-0636 EA Surface Mounted Remote Command Center (Siemens RCC-1)	3,165.93	504.91
	28 46 21 17-0637 EA Enclosure And Door With Lens For RCC-1 (Siemens RCC-1DL)	386.57	50.49
	28 46 21 17-0638 EA Flush Mounted Remote Command Center (Siemens RCC-1F)	3,165.93	504.91
	28 46 21 17-0639 EA Enclosure And Door With Lens For RCC-1F (Siemens RCC-1FDL)	396.28	50.49
	28 46 21 17-0640 EA Remote Control Center With System Control Functions And Sequential Event Display (Siemens RCC-2)	2,466.10	504.91
	28 46 21 17-0641 EA MXL/MXLV Remote Annunciator/Keyboard With Enhanced Display (Siemens RCC-3)	3,622.23	504.91
	28 46 21 17-0642 EA RCC-2/RSE-1 Trim Ring (Siemens RCF-1)	61.66	12.62
	28 46 21 17-0643 EA Remote Diagnostics Module For MXL (Siemens RDM-MXL)	4,308.04	50.49
	28 46 21 17-0644 EA Remote Diagnostics Module For PC (Siemens RDM-PC)	9,159.91	50.49
	28 46 21 17-0645 EA Releasing End Of Line Module (Siemens REL-EOL)	138.68	25.25
	28 46 21 17-0646 EA 36 Zone Tabular Graphic Annunciator With Restart System Key (Siemens RSA-MBSC)	2,752.24	50.49
	28 46 21 17-0647 EA 36 Zone Tabular Graphic Annunciator (Siemens RSA-MBTL)	2,628.45	50.49
	28 46 21 17-0648 EA 8-3/8" x 6-1/4" Remote Control Enclosure (Siemens RSE-1)	1,416.35	100.98
28 46 21 17-0649	Complete MXL And MXLV System Packages Without Enclosure <small>(28 46 21 17-0615)</small>		
	28 46 21 17-0650 EA MXL System Electronics Package Including One MMB-3, One Display/Control Keyboard, One MDL-1, One MKB-2, One Mps-6, One MOM-2, One ALD-21 And One PIM-1 (Siemens MXL-SS-EP)	10,310.76	504.91
	Note: MMB-3 is a MXL/MXLV main control board. MDL-1 is a clear lens. MKB-2 is a MXL/MXLV display/keyboard module with hinged frame. MPS-6 is a 6 Amp power supply for MXL. MOM-2 is a two slot network option module card cage. ALD-21 is a two circuit analog loop driver. PIM-1 is a peripheral interface module.		
	28 46 21 17-0651 EA MXL Voice System Electronics Package Including One MMB-3, One MKB-2, One MPS-6, One ACM-1, One TBM-2, One MMM-1, One OMM-2, One ZAC-30, One OCC-1, One MHD-5, One VSM-1 And Four VSB-1 (Siemens MXLV-SS-EP)	13,343.08	504.91
	Note: MMB-3 is a MXL/MXLV main control board. MKB-2 is a MXL/MXLV display/keyboard module with hinged frame. MPS-6 is a 6 Amp power supply for MXL. ACM-1 is an audio control module. TBM-2 is a voice terminal module. MMM-1 is a master microphone module. OMM-2 is a two half width slot card cage. ZAC-30 is a MXLV zone amplifier card. OCC-1 is a MXLV output control card. MHD-5 is a deadfront panel for MSE-2 backbox. VSM-1 is an eight switch module. VSB-1 is a module blank with overlay.		
	28 46 21 17-0652 EA MXLV Demonstration Panel (Siemens MXLV DEMO)	27,504.70	504.91
28 46 21 17-0653	MXL Basic System <small>(28 46 21 17-0615)</small>		
	28 46 21 17-0654 EA MXL/MXLV Main Control Board (Siemens MMB-3)	6,495.28	504.91
	28 46 21 17-0655 EA MXL System Electronics Package Including One MMB-3, One DE-2 And One DPU (Siemens MMB-DPU-ENCL)	8,306.75	504.91
	Note: MMB-3 is a MXL/MXLV main control board. DE-2 is an enclosure for document storage. DPU is a handheld device programming and testing unit.		
	28 46 21 17-0656 EA MXL/MXLV Display/Keyboard Module With Hinged Frame (Siemens MKB-2)	2,323.44	50.49
	28 46 21 17-0657 EA MXL/MXLV Keyboard With Enhanced Display With Hinged Frame (Siemens MKB-5)	2,907.57	50.49
	28 46 21 17-0658 EA 6 Amperes Power Supply For MXL (Siemens MPS-6)	1,025.24	75.73
	28 46 21 17-0659 EA 220/240 Volt AC Adapter Cable (Siemens CIA-12)	77.84	12.62
28 46 21 17-0660	MXL/MXLV System Expansion Accessories <small>(28 46 21 17-0615)</small>		
	28 46 21 17-0661 EA MXL Remote Power Supply Module (Siemens PSR-1)	1,254.21	75.73
	28 46 21 17-0662 EA Style 4 Communication Module (Siemens NET-4)	260.03	25.25
	28 46 21 17-0663 EA Style 7 Communication Module (Siemens NET-7)	467.96	25.25
	28 46 21 17-0664 EA MXL/MXLV IQ/MXLV Intelligent Control Point, B6 Chip (Siemens ICP-B6)	283.50	25.25

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0665 Peripheral Devices <small>(28 46 21 17-0544)</small>		
28 46 21 17-0666 Thermal Detectors <small>(28 46 21 17-0665)</small>		
28 46 21 17-0667 EA Rate Of Rise And 135 Degree F Fixed Temperature Thermal Detector (Siemens DT-135R).....	115.37	37.87
28 46 21 17-0668 EA Rate Of Rise And 200 Degree F Fixed Temperature Thermal Detector (Siemens DT-200R).....	115.37	37.87
28 46 21 17-0669 EA 135 Degree F Fixed Temperature Thermal Detector (Siemens DT-135F).....	115.37	37.87
28 46 21 17-0670 EA 200 Degree F Fixed Temperature Thermal Detector (Siemens DT-200F).....	115.37	37.87
28 46 21 17-0671 EA Weatherproof 135 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-135WP).....	176.05	37.87
28 46 21 17-0672 EA Weatherproof 200 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-200WP).....	176.05	37.87
28 46 21 17-0673 EA Explosion Proof 190 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-190EP).....	421.19	37.87
28 46 21 17-0674 Beam Smoke Detector <small>(28 46 21 17-0665)</small>		
28 46 21 17-0675 EA Linear Beam Smoke Detector (Siemens PBA-1191).....	1,965.40	37.87
28 46 21 17-0676 EA Base For Linear Beam Smoke Detector (Siemens PBB-1191).....	225.89	12.62
28 46 21 17-0677 EA 20cm x 20cm Flat Reflector For Linear Beam Smoke Detector (Siemens PBR-1192).....	228.32	12.62
28 46 21 17-0678 EA 10cm x 10cm Flat Reflector For Linear Beam Smoke Detector (Siemens PBR-1193).....	118.29	12.62
28 46 21 17-0679 Bases For Detectors <small>(28 46 21 17-0665)</small>		
28 46 21 17-0680 EA Detector Base (Siemens DB-11).....	37.39	12.62
28 46 21 17-0681 EA Universal Base (Siemens DB-3S).....	34.96	12.62
28 46 21 17-0682 Manual Stations <small>(28 46 21 17-0665)</small>		
28 46 21 17-0683 EA Weatherproof Metal Manual Pull Station With Key (Siemens MSM-K-WP).....	253.95	30.29
28 46 21 17-0684 Addressable Devices <small>(28 46 21 17-0544)</small>		
28 46 21 17-0685 Intelligent Detectors And Devices For Firefinder XLS And FS-250 <small>(28 46 21 17-0684)</small>		
28 46 21 17-0686 EA Addressable Fireprint Fire Detector (Siemens HFP-11).....	214.89	37.87
28 46 21 17-0687 EA Addressable Thermal Fire Detector (Siemens HFPT-11).....	186.57	37.87
28 46 21 17-0688 EA Relay Base For H-Series Intelligent Detectors (Siemens DB-HR).....	153.40	37.87
28 46 21 17-0689 EA Ceiling Mounted Remote Alarm Indicator (Siemens RL-HC).....	105.66	37.87
28 46 21 17-0690 EA Wall Mounted Remote Alarm Indicator (Siemens RL-HW).....	105.66	37.87
28 46 21 17-0691 EA Addressable Single Action Manual Pull Station (Siemens HMS-S).....	221.20	25.25
28 46 21 17-0692 EA Addressable Double Action Manual Pull Station (Siemens HMS-D).....	211.49	25.25
28 46 21 17-0693 EA Single Input Intelligent Initiating Devices Interface Module (Siemens HTRI-S).....	168.61	25.25
28 46 21 17-0694 EA Dual Input Intelligent Initiating Devices Interface Module (Siemens HTRI-D).....	205.02	25.25
28 46 21 17-0695 EA Single Input Intelligent Initiating Devices Interface Module With Relay (Siemens HTRI-R).....	205.02	25.25
28 46 21 17-0696 EA Mini Single Input Intelligent Initiating Devices Interface Module (Siemens HTRI-M).....	156.48	25.25
28 46 21 17-0697 EA Line Isolator Module (Siemens HLIM).....	161.33	25.25
28 46 21 17-0698 EA Remote Convention Zone Module (Siemens HZM).....	235.76	25.25
28 46 21 17-0699 EA Intelligent Control Point Module (Siemens HCP).....	297.25	25.25
28 46 21 17-0700 EA Handheld Programming And Testing Unit (Siemens DPU).....	1,287.37	
28 46 21 17-0701 EA DPU Carrying Case (Siemens DPU-C1).....	199.61	
28 46 21 17-0702 EA Label Printer And Carrying Case (Siemens DPU-PRT).....	2,205.80	25.25
28 46 21 17-0703 Air Duct Housings And Detectors <small>(28 46 21 17-0684)</small>		
28 46 21 17-0704 EA Air-Duct Housing (Siemens AD2-P).....	240.24	20.19
28 46 21 17-0705 EA Air-Duct Housing With Relay (Siemens AD2-XHR).....	270.98	20.19
28 46 21 17-0706 EA Weatherproof Enclosure For Duct Housing (Siemens WP-2000).....	219.58	25.25
28 46 21 17-0707 EA 6" To 1' Duct Sampling Tube (Siemens ST-10).....	31.33	7.57
28 46 21 17-0708 EA >1' To 3' Duct Sampling Tube (Siemens ST-25).....	38.80	10.10
28 46 21 17-0709 EA >3' To 5' Duct Sampling Tube (Siemens ST-50).....	48.71	12.62
28 46 21 17-0710 EA >5' To 10' Duct Sampling Tube (Siemens ST-100).....	56.99	15.15
28 46 21 17-0711 Intelligent Initiating Devices For MXL, MXL-LQ And MXLV <small>(28 46 21 17-0684)</small>		
28 46 21 17-0712 EA Addressable Fireprint Fire Detector (Siemens FP-11).....	223.79	37.87
28 46 21 17-0713 EA Addressable Thermal Fire Detector (Siemens FPT-11).....	193.85	37.87
28 46 21 17-0714 EA Intelligent Ionization Smoke Detector (Siemens ILI-1).....	246.44	37.87
28 46 21 17-0715 EA Addressable Single Action Manual Pull Station (Siemens MSI-10B).....	215.54	25.25
28 46 21 17-0716 EA Addressable Double Action Manual Pull Station (Siemens MSI-20B).....	237.38	25.25
28 46 21 17-0717 EA Single Input Intelligent Initiating Devices Interface Module (Siemens TRI-S).....	217.96	25.25
28 46 21 17-0718 EA Dual Input Intelligent Initiating Devices Interface Module (Siemens TRI-D).....	240.62	25.25
28 46 21 17-0719 EA Single Input Intelligent Initiating Devices Interface Module With Relay (Siemens TRI-R).....	240.62	25.25
28 46 21 17-0720 Detector Universal Bases <small>(28 46 21 17-0684)</small>		
28 46 21 17-0721 EA Detector Base With Relay (Siemens DB-X11RS).....	102.11	12.62
28 46 21 17-0722 EA PE-11 To DB-3 Base Adapter (Siemens DB-ADPT).....	53.57	12.62
28 46 21 17-0723 EA Locking Kit (Siemens LK-11).....	10.75	
28 46 21 17-0724 EA Detector Base With Relay (Siemens DB-X3RS).....	102.11	12.62
28 46 21 17-0725 EA Audible Base For Addressable Fireprint Fire Detector (Siemens ADBX-11).....	118.29	12.62
28 46 21 17-0726 EA Retrofit Adapter Box For Audible Bases Ionization Detector Air Duct (Siemens ADB-BOX).....	51.14	12.62
28 46 21 17-0727 EA Flush Trim Ring For Bases (Siemens RA-ADB).....	24.86	7.57
28 46 21 17-0728 EA Seal For DB-11 (Siemens DB11-SEAL).....	12.70	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				28 46 21 17-0729 EA Gasket For DB-11 (Siemens DB-SEAL).....	13.76	
				28 46 21 17-0730 EA Detector Guard Housing (Siemens DGH-11).....	148.23	12.62
				28 46 21 17-0731 EA Small Detector Base (Siemens DB-11E).....	40.62	12.62
				28 46 21 17-0732 EA Audible Base For Series 3 (Siemens ADBI-60A).....	132.85	12.62
				28 46 21 17-0733 EA Base Plug (Siemens DB-11-DP).....	10.71	
28 46 21 17-0734				Air Duct Smoke Detectors (28 46 21 17-0684)		
				28 46 21 17-0735 EA Intelligent Remote Duct Relay Module (Siemens DA-X3SR).....	116.02	25.25
				28 46 21 17-0736 EA Weatherproof Enclosure For Duct Housing (Siemens EAD-3).....	573.95	25.25
28 46 21 17-0737				Notification Devices (28 46 21 17-0544)		
28 46 21 17-0738				Synchronization Control Devices (28 46 21 17-0737)		
				28 46 21 17-0739 EA Dual Synchronization Control Module (Siemens DSC).....	168.61	25.25
28 46 21 17-0740				Stand Alone Strobes (28 46 21 17-0737)		
				28 46 21 17-0741 EA Wall Mounted Multi-Candela Strobe (Siemens ZR-MC-R).....	144.50	37.87
				28 46 21 17-0742 EA Wall Mounted High, Multi-Candela Strobe (Siemens ZR-HMC-R).....	156.63	37.87
				28 46 21 17-0743 EA Ceiling Mounted Multi-Candela Strobe (Siemens ZR-MC-CR).....	144.50	37.87
				28 46 21 17-0744 EA Ceiling Mounted High, Multi-Candela Strobe (Siemens ZR-HMC-CR).....	156.63	37.87
				28 46 21 17-0745 EA Ceiling Mounted High Multi-Candela Strobe (Siemens ST-HMC-CW).....	156.63	37.87
				28 46 21 17-0746 EA Ceiling Mounted Multi-Candela Strobe (Siemens ST-MC-CW).....	144.50	37.87
				28 46 21 17-0747 EA Retrofit Plate Multi-Candela Strobe (Siemens ST-MC-RETRO-R).....	165.53	37.87
				28 46 21 17-0748 EA Weatherproof Ceiling Mounted Strobe (Siemens ST-75-CR-WP).....	159.06	37.87
				28 46 21 17-0749 EA Weatherproof Wall Mounted Strobe (Siemens ST-75-R-WP).....	159.06	37.87
				28 46 21 17-0750 EA Weatherproof Ceiling Mounted High Multi-Candela Strobe (Siemens ST-HMC-CR-WP).....	169.58	37.87
				28 46 21 17-0751 EA Weatherproof Wall Mounted High Multi-Candela Strobe (Siemens ST-HMC-R-WP).....	169.58	37.87
28 46 21 17-0752				Horns And Strobes (28 46 21 17-0737)		
				28 46 21 17-0753 EA Wall Mounted Multi-Candela Horn/Strobe (Siemens SE-MC-R).....	192.23	37.87
				28 46 21 17-0754 EA Wall Mounted High Multi-Candela Horn/Strobe (Siemens SE-HMC-R).....	202.75	37.87
				28 46 21 17-0755 EA Wall Mounted Horn (Siemens SE-R).....	115.37	37.87
				28 46 21 17-0756 EA Ceiling Mounted Multi-Candela Horn/Strobe (Siemens SE-MC-CR).....	192.23	37.87
				28 46 21 17-0757 EA Ceiling Mounted High Multi-Candela Horn/Strobe (Siemens SE-HMC-CR).....	202.75	37.87
				28 46 21 17-0758 EA Ceiling Mounted Horn (Siemens SEC-R).....	120.23	37.87
				28 46 21 17-0759 EA Wall Mounted Low Profile Multi-Candela Horn/Strobe (Siemens SEF-MC-R).....	192.23	37.87
				28 46 21 17-0760 EA Wall Mounted Low Profile High Multi-Candela Horn/Strobe (Siemens SEF-HMC-R).....	202.75	37.87
				28 46 21 17-0761 EA Wall Mounted Low Profile Horn (Siemens SEF-R).....	115.37	37.87
				28 46 21 17-0762 EA Ceiling Mounted Low Profile Multi-Candela Horn/Strobe (Siemens SEF-MC-CW).....	192.23	37.87
				28 46 21 17-0763 EA Ceiling Mounted Low Profile High Multi-Candela Horn/Strobe (Siemens SEF-HMC-CW).....	202.75	37.87
				28 46 21 17-0764 EA Ceiling Mounted Low Profile Horn (Siemens SEF-CR).....	120.23	37.87
				28 46 21 17-0765 EA Mini Horn (Siemens MH-R).....	97.57	37.87
				28 46 21 17-0766 EA Indoor/Outdoor Multi Tone Horn (Siemens MTH-R).....	121.85	37.87
				28 46 21 17-0767 EA Indoor/Outdoor Multi Tone, Multi-Candela Horn/Strobe (Siemens MTH-MC-R).....	181.72	37.87
				28 46 21 17-0768 EA Industrial Tri-Tone Horn (Siemens ASR).....	500.48	37.87
				28 46 21 17-0769 EA Wall Mounted Horn (Siemens HS-R).....	121.85	37.87
				28 46 21 17-0770 EA Wall Mounted Multi-Candela Horn/Strobe (Siemens HS-MC-R).....	182.52	37.87
				28 46 21 17-0771 EA Wall Mounted High Multi-Candela Horn/Strobe (Siemens HS-HMC-R).....	195.47	37.87
				28 46 21 17-0772 EA 6" Motor Bell (Siemens MBDC-6).....	138.03	37.87
				28 46 21 17-0773 EA 10" Motor Bell (Siemens MBDC-10).....	150.16	37.87
28 46 21 17-0774				Mounting Accessories (28 46 21 17-0737)		
				28 46 21 17-0775 EA Concealed Conduit Adapter Plate (Siemens APS-R).....	34.96	12.62
				28 46 21 17-0776 EA 4" x 1-1/2" Surface Mounted Back Box (Siemens BBS-R).....	34.96	12.62
				28 46 21 17-0777 EA 4" x 2-1/8" Surface Mounted Back Box (Siemens DBBS-R).....	35.77	12.62
				28 46 21 17-0778 EA Red Weatherproof Surface Mount Backbox (Siemens MT-SUR-BOX).....	55.18	12.62
				28 46 21 17-0779 EA White Weatherproof Surface Mount Backbox (Siemens MT-SUR-BOX-W).....	44.67	12.62
				28 46 21 17-0780 EA Surface Mounted Speaker Backbox (Siemens SBBS-R).....	47.09	12.62
				28 46 21 17-0781 EA Surface Mounted Speaker Backbox (Siemens SBL2S-R).....	50.33	12.62
				28 46 21 17-0782 EA Square Semi-Flush Extension Ring (Siemens SERS-R).....	40.62	12.62
				28 46 21 17-0783 EA Semi-Flush Plate (Siemens SFPS-R).....	34.15	12.62
				28 46 21 17-0784 EA Square Surface Backbox (Siemens SHBBS-R).....	40.62	12.62
				28 46 21 17-0785 EA Horn Adapter Plate (Siemens SHMPS-R).....	39.00	12.62
				28 46 21 17-0786 EA Ceiling Speaker Extension Ring (Siemens SEXT-R).....	34.96	12.62
				28 46 21 17-0787 EA Wall Mounted Surface Mounted Speaker Backbox (Siemens SPSB-R).....	44.67	12.62
				28 46 21 17-0788 EA Wall Mounted Surface Mounted Speaker/Strobe Backbox (Siemens SPSSB-R).....	47.09	12.62
				28 46 21 17-0789 EA Weatherproof Speaker Backbox (Siemens WBBS-R).....	45.48	12.62
				28 46 21 17-0790 EA Weatherproof Speaker Backbox With 3/4" Knockout (Siemens WBBS-R-3/4T-3/4B).....	50.33	12.62
				28 46 21 17-0791 EA Weatherproof Flush Plate (Siemens WFPAS-R).....	50.33	12.62
				28 46 21 17-0792 EA Weatherproof Horn Flush Plate (Siemens WFPS-R).....	50.33	12.62
				28 46 21 17-0793 EA Weatherproof Horn Backbox (Siemens WPBBS-R).....	47.09	12.62
				28 46 21 17-0794 EA Weatherproof Strobe Backbox (Siemens WPSBBS-R).....	47.09	12.62
				28 46 21 17-0795 EA Surface Mounted Weatherproof Backbox Kit (Siemens WPS-KIT).....	34.96	12.62
				28 46 21 17-0796 EA Z Series Backbox (Siemens ZBB-R).....	39.00	12.62

28 Electronic Safety and Security

28 40 Life Safety

28 46 Fire Detection and Alarm



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

28 46 21 17-0797		Door Holders <small>(28 46 21 17-0737)</small>		
28 46 21 17-0798	EA	120 Volt AC Concealed Wiring Fire Door Holder (Siemens SDH-2A)	284.46	37.87
28 46 21 17-0799	EA	24 Volt DC Concealed Wiring Fire Door Holder (Siemens SDH-2D)	284.46	37.87
28 46 21 17-0800		Voice Equipment <small>(28 46 21 17-0544)</small>		
28 46 21 17-0801		Voicecom <small>(28 46 21 17-0800)</small>		
28 46 21 17-0802	EA	Emergency Voice Alarm Communication System, 3.5 Amp Power Supply And Battery Charger, 50W Amplifier, Battery Cables, Main Control Board With One Speaker Circuit, Paging Microphone And Enclosure With Deadfront And Space For Five Modules (Siemens VOICECOM)	4,339.05	504.91
28 46 21 17-0803	EA	Emergency Voice Alarm Communication System, 3.5 Amp Power Supply And Battery Charger, Two 50W Amplifier, Battery Cables, Main Control Board With One Speaker Circuit, Paging Microphone, Enclosure With Deadfront And Space For 11 Modules, Auxiliary Power Supply, Four PS-AUX Strobe Zone Cables And One AM-25-50 Speaker Zone Cables (Siemens VOICECOM-L)	6,806.65	504.91
28 46 21 17-0804		Johnson Controls Fire Alarm <small>(28 46 21 17)</small>		
28 46 21 17-0805	EA	Intelligent Addressable ION Detector; With FlashScan. (Johnson Controls, Inc. #1951J)	170.06	37.87
28 46 21 17-0806	EA	Intelligent Addressable Photo Detector; With FlashScan. (Johnson Controls, Inc. #2951J)	168.31	37.87
28 46 21 17-0807	EA	Intelligent Addressable Photo/Thermal Detector; With FlashScan. (Johnson Controls, Inc. #2951TJ)	208.48	37.87
28 46 21 17-0808	EA	Acclimate™ Intelligent Photo Thermal Detector; With FlashScan. (Johnson Controls, Inc. #2951TMJ)	207.93	37.87
28 46 21 17-0809	EA	411UD, 4 Channel Dual. (Johnson Controls, Inc. #411UD)	562.23	50.49
28 46 21 17-0810	EA	Intelligent Addressable High Temperature Heat Detector; With FlashScan. (Johnson Controls, Inc. #5951HJ)	161.10	37.87
28 46 21 17-0811	EA	Intelligent Addressable High Temperature Heat Detector; With FlashScan. (Johnson Controls, Inc. #5951J)	144.47	37.87
28 46 21 17-0812	EA	Intelligent Addressable Rate-of-Rise Thermal Detector; With FlashScan. (Johnson Controls, Inc. #5951RJ)	140.95	37.87
28 46 21 17-0813	EA	Intelligent Addressable Laser Detector; Low Profile, Use With IFC Series Panels Only. (Johnson Controls, Inc. #7351J)	411.92	37.87
28 46 21 17-0814	EA	100 Watts Audio Amplifier At 70.7 VRMS With Built-in Tone Generator, 120 Volt AC (Johnson Controls, Inc. #AA-100)	1,984.37	75.73
28 46 21 17-0815	EA	AUDIO Amplifier, 100 Watts, 230 Voltage AC (Johnson Controls, Inc. #AA-100E)	1,923.07	75.73
28 46 21 17-0816	EA	120 Watts Audio Amplifier At 25 VRMS With Built-in Tone Generator, 120 Voltage AC (Johnson Controls, Inc. #AA-120)	1,956.14	75.73
28 46 21 17-0817	EA	AUDIO Amplifier, 120 Watts, 230 Voltage AC (Johnson Controls, Inc. #AA-120E)	1,873.58	75.73
28 46 21 17-0818	EA	30 Watts Audio Amplifier At 25 VRMS, 120 Voltage AC (Johnson Controls, Inc. #AA-30)	919.76	75.73
28 46 21 17-0819	EA	AUDIO Amplifier, 30 Watts, 230 Voltage AC (Johnson Controls, Inc. #AA-30E)	919.76	75.73
28 46 21 17-0820	EA	Annunciator Control Module With; 16 Red Alarm LED's, 16 Yellow Trouble LED's, And 16 Control Switches, On-line, System Trouble Led, And Local Sounder, Local Acknowledge And Lamp Test Switch, Supports 1, 2 Or 3 AEM-16AT Expander Modules. (Johnson Controls, Inc. #ACM-16AT)	911.55	25.25
28 46 21 17-0821	EA	IFC Series ACS Annunciator; Up To 96 Points Of Annunciation With Alarm Or Active LED, Trouble LED And Switch Per Circuit. Active/Alarm LEDs Can Be Programmed (By Powered Up Switch Selection) By Point To Be Red, Green Or Yellow And The Trouble LED Is Always Yellow. Expandable With One, Two Or Three AEM-24AT's. (Johnson Controls, Inc. #ACM-24AT)	947.94	25.25
28 46 21 17-0822	EA	Annunciator Control Module; Includes 32 Red Alarm LED's, System Trouble LED And On-line LED, Local Acknowledge, Lamp Test Switch, And Local Piezo Sounder, Supports One AEM-32A Expander Module. (Johnson Controls, Inc. #ACM-32A)	697.53	25.25
28 46 21 17-0823	EA	IFC Series ACS Annunciator; Up To 96 Points Of Annunciation With Alarm Or Active LED Per Circuit. Active/Alarm LEDs Can Be Programmed (By Powered Up Switch Selection) In Groups Of 24 To Be Red, Green Or Yellow. Expandable To 96 Points With One AEM-48A. (Johnson Controls, Inc. #ACM-48A)	697.53	25.25
28 46 21 17-0824	EA	Annunciator, Relay, Form C. (Johnson Controls, Inc. #ACM-8R)	493.40	25.25
28 46 21 17-0825	EA	Charger Power Supply - 6 Or 10 Amperes; Mounts In CAB-PS1, CAB-3/4, EQ Cabx, BB-25, Or CHS-PS1; Comes With The PK-PPS Programming Utility. Windows® PC And USB Cable Required For Programming. (Johnson Controls, Inc. #ACPS-610)	1,585.56	50.49
28 46 21 17-0826	EA	Annunciator Expander Module With: 16 Red Alarm LED's, 16 Yellow Trouble LED's, 16 Control Switches, Cable For Connection To The ACM-16AT Master. (Johnson Controls, Inc. #AEM-16AT)	697.53	25.25
28 46 21 17-0827	EA	Annunciator Expander Module; 24 Alarm And Trouble LEDs, Expands The ACM-24AT To 48, 72 Or 96 Points. (Johnson Controls, Inc. #AEM-24AT)	724.88	25.25
28 46 21 17-0828	EA	Annunciator Expander Module With: 32 Red Alarm LED's, Cable For Connection To The ACM-32A Master. (Johnson Controls, Inc. #AEM-32A)	625.75	25.25
28 46 21 17-0829	EA	Annunciator Expander Module; 48 Alarm LEDs, Expands The ACM-48A To 96 Points. (Johnson Controls, Inc. #AEM-48A)	625.75	25.25
28 46 21 17-0830	EA	Back Box, Flush Or Surface Mount; Requires A Door And Telephone Chassis. (Johnson Controls, Inc. #AFAWS-BX)	108.53	22.72
28 46 21 17-0831	EA	Receiver, Multimode Fiber. (Johnson Controls, Inc. #AFL-RM)	959.57	50.49
28 46 21 17-0832	EA	Receiver, Singlemode Fiber. (Johnson Controls, Inc. #AFL-RS)	2,080.42	50.49
28 46 21 17-0833	EA	Transmit, Multimode Fiber. (Johnson Controls, Inc. #AFL-TM)	959.57	50.49
28 46 21 17-0834	EA	Transmit, Singlemode Fiber. (Johnson Controls, Inc. #AFL-TS)	2,080.42	50.49
28 46 21 17-0835	EA	Base, Smoke Detector, 2 Wire. (Johnson Controls, Inc. #B110LP)	40.09	12.62
28 46 21 17-0836	EA	Base, Smoke Detector, Intelligent. (Johnson Controls, Inc. #B224BI)	103.95	12.62
28 46 21 17-0837	EA	Base, Smoke Detector, Intelligent. (Johnson Controls, Inc. #B224RB)	98.17	12.62
28 46 21 17-0838	EA	Base, Smoke Detector, 2 Wire. (Johnson Controls, Inc. #B401)	42.56	12.62
28 46 21 17-0839	EA	Intelligent Detector Base, Without Flange. (Johnson Controls, Inc. #B501J)	38.46	12.62
28 46 21 17-0840	EA	Battery Cabinet, Lockable. (Johnson Controls, Inc. #BB-100)	702.29	50.49
28 46 21 17-0841	EA	Projected Beam Smoke Detector, Single-ended Reflected Type, Includes Trouble Relay, Transmitter/Receiver In One Unit. (Johnson Controls, Inc. #Beam1224)	1,636.05	75.73
28 46 21 17-0842	EA	Same As Beam1224 With Built-in Sensitivity Test Filter. (Johnson Controls, Inc. #Beam1224S)	1,728.84	75.73
28 46 21 17-0843	EA	Mounting Kit, Long RG. Beam. (Johnson Controls, Inc. #BeamLRK)	192.27	12.62
28 46 21 17-0844	EA	Mounting Kit, Beam Detect. (Johnson Controls, Inc. #BeamMMK)	130.42	12.62
28 46 21 17-0845	EA	Digital Audio Amplifier, 50 Watts, 25 VRMS (Johnson Controls, Inc. #DAA-5025)	1,637.41	75.73
28 46 21 17-0846	EA	Digital Audio Amplifier, 50 Watts, 25 VRMS, Multi-Fiber (Johnson Controls, Inc. #DAA-5025F)	1,512.33	75.73
28 46 21 17-0847	EA	Digital Audio Amplifier, 50 Watts, 25 VRMS, Single-Fiber (Johnson Controls, Inc. #DAA-5025SF)	1,512.33	75.73
28 46 21 17-0848	EA	Digital Audio Amplifier, 50 Watts, 70 VRMS (Johnson Controls, Inc. #DAA-5070)	1,772.53	75.73



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0849	EA			Amplifier, Digital Audio. (Johnson Controls, Inc. #DAA-5070E).....	1,636.05	75.73
28 46 21 17-0850	EA			Digital Audio Amplifier, 50 Watts, 70 VRMS, Multi-Fiber (Johnson Controls, Inc. #DAA-5070F).....	1,636.05	75.73
28 46 21 17-0851	EA			Digital Audio Amplifier, 50 Watts, 70 VRMS, Single-Fiber (Johnson Controls, Inc. #DAA-5070SF).....	1,636.05	75.73
28 46 21 17-0852	EA			Digital Audio Amplifier, 75 Watts, 25 VRMS (Johnson Controls, Inc. #DAA-7525).....	1,954.17	75.73
28 46 21 17-0853	EA			Digital Audio Amplifier, 75 Watts, 25 VRMS, Multi Fiber (Johnson Controls, Inc. #DAA-7525F).....	1,954.17	75.73
28 46 21 17-0854	EA			Digital Audio Amplifier, 75 Watts, 25 VRMS, Single Fiber (Johnson Controls, Inc. #DAA-7525SF).....	1,954.17	75.73
28 46 21 17-0855	EA			Innovairflex Intelligent. (Johnson Controls, Inc. #DNR).....	206.45	25.25
28 46 21 17-0856	EA			Innovairflex Duct Detect. (Johnson Controls, Inc. #DNRW).....	314.63	25.25
28 46 21 17-0857	EA			Innovairflex Sample Tube. (Johnson Controls, Inc. #DST1).....	30.05	10.10
28 46 21 17-0858	EA			Innovairflex Sample Tube. (Johnson Controls, Inc. #DST1.5).....	32.59	10.10
28 46 21 17-0859	EA			Innovairflex Sample Tube. (Johnson Controls, Inc. #DST10).....	77.87	15.15
28 46 21 17-0860	EA			Innovairflex Sample Tube. (Johnson Controls, Inc. #DST3).....	38.29	10.10
28 46 21 17-0861	EA			Innovairflex Sample Tube. (Johnson Controls, Inc. #DST5).....	47.33	12.62
28 46 21 17-0862	EA			Digital Voice Command, Analog Output. (Johnson Controls, Inc. #DVC-AO).....	316.46	25.25
28 46 21 17-0863	EA			Digital Voice Command, Keypad. (Johnson Controls, Inc. #DVC-KD).....	527.81	50.49
28 46 21 17-0864	EA			Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or Amperes-24; B Size, Black. (Johnson Controls, Inc. #EQBB-B4).....	444.88	75.73
28 46 21 17-0865	EA			Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or Amperes-24; C Size, Black. (Johnson Controls, Inc. #EQBB-C4).....	611.48	75.73
28 46 21 17-0866	EA			Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or AMPS-24; D Size, Black. (Johnson Controls, Inc. #EQBB-D4).....	667.15	75.73
28 46 21 17-0867	EA			Equipment Cabinet Door; B Size Black. (Johnson Controls, Inc. #EQDR-B4).....	347.16	10.10
28 46 21 17-0868	EA			Equipment Cabinet Door; C Size Black. (Johnson Controls, Inc. #EQDR-C4).....	522.45	10.10
28 46 21 17-0869	EA			Equipment Cabinet Door; D Size Black. (Johnson Controls, Inc. #EQDR-D4).....	574.01	10.10
28 46 21 17-0870	EA			6.0 Amperes, 120 Volt AC Remote Charger Power Supply (Johnson Controls, Inc. #FCPS-24S6).....	713.09	100.98
				Note: Includes Main Printed Circuit Board, Transformers And Installation Instructions		
28 46 21 17-0871	EA			8 Amperes, 120 Volt AC Remote Charger Power Supply (Johnson Controls, Inc. #FCPS-24S8).....	926.52	100.98
				Note: Includes Main Printed Circuit Board, Transformers And Installation Instructions		
28 46 21 17-0872	EA			80 Character Display Annunciator. "Security Keypad" Mechanical Design. For Use With The IFC-320, JCPU2-640, JCPU-640 And IFC-400/300 (Rev 3.62+) Only. (Johnson Controls, Inc. #FDU-80G).....	875.21	75.73
28 46 21 17-0873	EA			Fireman's Telephone Hand Set. (Johnson Controls, Inc. #FHS).....	161.34	12.62
28 46 21 17-0874	EA			Fire Phone Storage Cabinet, Recessed, Holds 6 Phones. (Johnson Controls, Inc. #FHSC-R).....	455.04	25.25
28 46 21 17-0875	EA			Door Holder, Magnetic, Floor. (Johnson Controls, Inc. #FM980).....	245.11	37.87
28 46 21 17-0876	EA			Door Holder, Magnetic, Wall. (Johnson Controls, Inc. #FM996).....	201.23	37.87
28 46 21 17-0877	EA			Door Holder, Magnetic, Wall. (Johnson Controls, Inc. #FM998).....	211.22	37.87
28 46 21 17-0878	EA			Addressable Beam Detector. (Johnson Controls, Inc. #FSB-200).....	1,661.86	50.49
28 46 21 17-0879	EA			Addressable Beam Detector With Remote Test Feature. (Johnson Controls, Inc. #FSB-200S).....	2,028.01	50.49
28 46 21 17-0880	EA			Intelligent Addressable HARSH (Hostile Area Smoke Head) Detector; Photo, Requires B501B-FTXJ Base. (Johnson Controls, Inc. #FTX-P2J).....	614.54	25.25
28 46 21 17-0881	EA			IFC-320 Intelligent Fire Alarm Panel; Single Printed Circuit Board With One SLC Loop (318 Devices), Back-lit, 80 Character Display, System And Programming Keypad And 6.0 Amperes Power Supply, 120 Volt AC, (Johnson Controls, Inc. #IFC-320).....	4,225.23	403.92
				Note: Includes Door, Dress Panel And Back Box, Black		
28 46 21 17-0882	EA			Upgrade Kit, ORG BLD, 640. (Johnson Controls, Inc. #IFC-640UG).....	2,045.78	50.49
28 46 21 17-0883	EA			Workstation Only Workstation GUI Software And Hardware Package. (Johnson Controls, Inc. #IFI).....	27,166.55	605.89
28 46 21 17-0884	EA			Workstation With NFN Fiber PC Card Workstation GUI Software And Hardware Package. Includes NFN Gateway (JNFN-GW-PC-F) Fiber Version. (Johnson Controls, Inc. #IFI-F).....	29,640.85	605.89
28 46 21 17-0885	EA			Workstation With Echelon Wire PC Card Workstation GUI Software And Hardware Package For Building Systems Integration, WSSUP Workstation Supervisor. Includes Echelon® Gateway (ECH-GW-PC-W) Wire Version. (Johnson Controls, Inc. #IFI-IP).....	33,352.30	605.89
28 46 21 17-0886	EA			Workstation With NFN Wire PC Card Workstation GUI Software And Hardware Package. Includes NFN Gateway (JNFN-GW-PC-W) Wire Version. (Johnson Controls, Inc. #IFI-W).....	29,640.85	605.89
28 46 21 17-0887	EA			Annunciator Flush Box. Mounts One Annunciator Module. (Johnson Controls, Inc. #JABF-1B).....	201.02	15.15
28 46 21 17-0888	EA			Annunciator Flush Box. One Module. Attractive Glass Door And Key Lock. (Johnson Controls, Inc. #JABF-1DB).....	225.77	15.15
28 46 21 17-0889	EA			Annunciator Flush Box. Mounts Two Annunciator Modules. (Johnson Controls, Inc. #JABF-2B).....	245.56	15.15
28 46 21 17-0890	EA			Annunciator Flush Box. Mounts Four Annunciator Modules. (Johnson Controls, Inc. #JABF-4B).....	455.88	15.15
28 46 21 17-0891	EA			Annunciator Surface Box. Deep With Trim Cover. (Johnson Controls, Inc. #JABS-1TB).....	148.85	10.10
28 46 21 17-0892	EA			Surface (or Semi-flush) Mount Backbox. Used With The INA, ACS Annunciators, SCS Series, JNCA And JNCA-2 Black. (Johnson Controls, Inc. #JABS-2D).....	233.90	22.72
28 46 21 17-0893	EA			Surface (or Semi-flush) Mount Backbox. Used With The INA, ACS Annunciators, SCS Series, JNCA And JNCA-2 Red. (Johnson Controls, Inc. #JABS-2DR).....	248.09	22.72
28 46 21 17-0894	EA			Surface (or Semi-flush) Mount INA, ACS, Or SCS Backbox, Black. (Johnson Controls, Inc. #JABS-4D).....	451.22	22.72
28 46 21 17-0895	EA			Audio Command Door For CAB-B4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-B4).....	447.02	10.10
28 46 21 17-0896	EA			Audio Command Door For CAB-C4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-C4).....	601.66	10.10
28 46 21 17-0897	EA			Audio Command Door For CAB-D4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-D4).....	743.93	10.10
28 46 21 17-0898	EA			Addressable Pull Station; With FlashScan. (Johnson Controls, Inc. #JBG-12LX).....	214.62	25.25
28 46 21 17-0899	EA			Battery Dress Panel For CAB-4 Series; For Use With The JCPU2-3030, JCPU2-640, JNCA-2, And DVC Systems. (Johnson Controls, Inc. #JBP2-4).....	99.76	10.10
28 46 21 17-0900	EA			JCPU2-3030 CPU With 640-character Display; Required For Single Panel (One CPU2-3030) Systems. Includes: CPU, 640-Character Backlit LCD Display, QWERTY Programming And Control Keypad, Installation, Programming And Operating Manuals. Supports One To 10 Signaling Line Circuits (Up To Five LCM-320 And Five LEM-320). Order One Per System Or As Necessary (Up To 103 Network Nodes) For A Networked System. Requires Top Row Of A Cabinet. (Johnson Controls, Inc. #JCPU2-3030D).....	4,215.87	403.92
28 46 21 17-0901	EA			Central Processing Unit For The JCPU2-640 With Integral 120 Volt AC Power Supply (Johnson Controls, Inc. #JCPU2-640).....	3,046.30	302.94
				Note: Includes CHS2-M2 Chassis		
28 46 21 17-0902	EA			Main Board, CPU, IFC3030, DI. (Johnson Controls, Inc. #JCPU-3030D).....	5,444.11	403.92
28 46 21 17-0903	EA			Main Board, CPU, IFC640. (Johnson Controls, Inc. #JCPU-640).....	5,208.18	302.94
28 46 21 17-0904	EA			Main Board, CPU, IFC640, EUR. (Johnson Controls, Inc. #JCPU-640E).....	3,773.35	302.94
28 46 21 17-0905	EA			Digital Voice Command, Extended Memory. (Johnson Controls, Inc. #JDVC-EM).....	2,034.52	37.87
28 46 21 17-0906	EA			Digital Voice Command, Extended Memory, Multi-Fiber. (Johnson Controls, Inc. #JDVC-EMF).....	2,055.17	37.87
28 46 21 17-0907	EA			Digital Voice Command, Extended Memory, Single-Fiber. (Johnson Controls, Inc. #JDVC-EMSF).....	2,055.17	37.87
28 46 21 17-0908	EA			Annunciator, Network Control. (Johnson Controls, Inc. #JNCA).....	2,433.64	50.49



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0909 EA Network Control Annunciator-2, 640-characters; On Single Panel (one JCPU2-640) JCPU2-640 Systems, The JNCA-2 Can Be The Primary Display For The Panel And Connects Directly To The JCPU2-640. On Network Systems (Two Or More JCPU2-640's), One Network Display (Either JNCA-2 Or IFW) Is Required For Every System And Each JNCA-2 Connects To And Requires An NCM Network Control Module. Mounts In A Row Of FACP Node Or In Two Annunciator Module Positions. Mounting Options Include: NCA/640-2-Kit (directly Mounting To The CHS2-M2), CA-2, ADP-4B, Or In An Annunciator Box, Such As The ABS-2DB (requires The CHS-2D). (Johnson Controls, Inc. #JNCA-2).....	2,064.33	50.49
28 46 21 17-0910 EA Mass Notification Voice Paging; Requires JNOTIFY-PAA Hardware Package (Sold Separately). (Johnson Controls, Inc. #JNOTIFY-IP).....	1,843.05	302.94
28 46 21 17-0911 EA 160 Character Display Annunciator; For Use With JCPU-3030 And JCPU2-3030. (Johnson Controls, Inc. #LCD-160).....	1,470.04	50.49
28 46 21 17-0912 EA 80 Character LCD Annunciator. Mounts In ABS-1T, ABF-1D, ABF-2D, Or Flush Back Box. (Johnson Controls, Inc. #LCD-80).....	1,211.42	50.49
28 46 21 17-0913 EA Loop Control Module. Each LCM May Be Expanded To Two Loops By Adding A LEM-320. IFC2- 3030 And IFC-3030 Only. (Johnson Controls, Inc. #LCM-320).....	1,942.34	50.49
28 46 21 17-0914 EA Lamp Driver Annunciator Control Module. For Use With Custom Graphic Annunciators. 32 Points. (Johnson Controls, Inc. #LDM-32).....	600.51	12.62
28 46 21 17-0915 EA Cable 24": LDM TO Annunciator. (Johnson Controls, Inc. #LDM-CBL24).....	194.61	10.10
28 46 21 17-0916 EA Cable 48": LDM TO Annunciator. (Johnson Controls, Inc. #LDM-CBL48).....	239.15	10.10
28 46 21 17-0917 EA Lamp Driver Annunciator Expander Module. For Use With Custom Graphic Annunciators. 32 Points. (Johnson Controls, Inc. #LDM-E32).....	484.25	12.62
28 46 21 17-0918 EA Relay Module. 32 Form-A Contacts. Connects To LDM-32 Or LDM-E32. (Johnson Controls, Inc. #LDM-R32).....	886.31	12.62
28 46 21 17-0919 EA Loop Expander Module. Mounts As Daughter Board To LCM-320 To Provide Even Numbered SLC Loops. (Johnson Controls, Inc. #LEM-320).....	1,603.57	12.62
28 46 21 17-0920 EA Addressable Control Module With FlashScan; Configured For One Class A Or Class B NAC. (Johnson Controls, Inc. #M300CJ).....	128.41	12.62
28 46 21 17-0921 EA Addressable Dual Monitor Module; With FlashScan, Two Class B Circuits. (Johnson Controls, Inc. #M300DJ).....	202.89	12.62
28 46 21 17-0922 EA Addressable Monitor Module; With FlashScan; Supervises Either A Class A Or Class B Circuit Of N.D. Dry-contact Input Devices. (Johnson Controls, Inc. #M300MJ).....	101.43	12.62
28 46 21 17-0923 EA Addressable Relay Module With FlashScan; Provides Two Form-C Dry Contacts That Switch Together. (Johnson Controls, Inc. #M300RJ).....	141.16	12.62
28 46 21 17-0924 EA Addressable Mini Module With FlashScan; Supervises A Class B Circuit Of N.D. Dry-contact Devises. (Johnson Controls, Inc. #M301MJ).....	111.86	12.62
28 46 21 17-0925 EA Addressable 2-Wire Detector Monitor Module; With FlashScan. (Johnson Controls, Inc. #M302MJ).....	180.58	12.62
28 46 21 17-0926 EA Addressable Firephone Control Module With Flashscan. (Johnson Controls, Inc. #M500FPJ).....	205.53	12.62
28 46 21 17-0927 EA SLC Loop Isolator Module; Isolates Against Short Circuits On The SLC. (Johnson Controls, Inc. #M500XJ).....	117.17	12.62
28 46 21 17-0928 EA Network INTFC, P2P, Wire. (Johnson Controls, Inc. #MIB-W).....	1,698.87	37.87
28 46 21 17-0929 EA Network Adapter, Fiber. (Johnson Controls, Inc. #NAM-232F).....	1,509.08	25.25
28 46 21 17-0930 EA Network Adapter, Wire. (Johnson Controls, Inc. #NAM-232W).....	1,395.27	25.25
28 46 21 17-0931 EA Plate, Retrofit, NCA-2. (Johnson Controls, Inc. #NCA-2RETRO).....	53.40	5.05
28 46 21 17-0932 EA Network Control Module - Multi Mode Fiber; Order One NCM Per Network Node (JCPU-640/3030, JNCA, JCPU2-640/3030, JNCA-2, DVC, Etc). (Johnson Controls, Inc. #NCM-F).....	1,221.34	25.25
28 46 21 17-0933 EA Network Control Module - Wire; Order One NCM Per Network Node (JCPU-640/3030, JNCA, JCPU2-640/3030, JNCA-2, DVC, Etc). (Johnson Controls, Inc. #NCM-W).....	1,163.28	25.25
28 46 21 17-0934 EA NFV-25/50. (Johnson Controls, Inc. #NFV-25/50).....	2,966.65	50.49
28 46 21 17-0935 EA NU-RPT101-1U RS485. (Johnson Controls, Inc. #NU-RPT101-1U).....	826.69	25.25
28 46 21 17-0936 EA Key Switch, Remote Control. (Johnson Controls, Inc. #RKS-S).....	226.78	10.10
28 46 21 17-0937 EA Microphone Assembly For Mounting To An ADP-4 Dress Panel. (Johnson Controls, Inc. #RM-1).....	524.33	25.25
28 46 21 17-0938 EA Microphone Assembly For Mounting In An CAB-RM Cabinet. (Johnson Controls, Inc. #RM-1SA).....	524.33	25.25
28 46 21 17-0939 EA Remote Page Jack. Allows Remote All-Call Paging. (Johnson Controls, Inc. #RPJ-1).....	141.44	10.10
28 46 21 17-0940 EA SA-WBB, Weatherproof. (Johnson Controls, Inc. #SA-WBB).....	38.08	5.05
28 46 21 17-0941 EA SA-WBBC, Weatherproof. (Johnson Controls, Inc. #SA-WBBC).....	38.08	5.05
28 46 21 17-0942 EA Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCR).....	149.97	37.87
28 46 21 17-0943 EA Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCRH).....	167.28	37.87
28 46 21 17-0944 EA Strobe, HI, Outdoor, Red. (Johnson Controls, Inc. #SCRHK).....	197.19	42.91
28 46 21 17-0945 EA Strobe, Standard, Outdoor, Red. (Johnson Controls, Inc. #SCRK).....	194.70	42.91
28 46 21 17-0946 EA Smoke Control Master; Includes Eight On/off/auto Switches. Supports One SCE-8. Includes Manual, Slide-in Labels. Mounts In ADP-4 Or ABS-4D. (Johnson Controls, Inc. #SCS-8).....	1,264.69	100.98
28 46 21 17-0947 EA Smoke Control Lamp Driver. Outputs For 8 On/off/auto Switches With LED's. Intended For Custom Built Smoke Control Stations. Support One SCE-8L. (Johnson Controls, Inc. #SCS-8L).....	992.50	100.98
28 46 21 17-0948 EA Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SCW).....	149.97	37.87
28 46 21 17-0949 EA Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCWH).....	167.28	37.87
28 46 21 17-0950 EA Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SCW-P).....	149.97	37.87
28 46 21 17-0951 EA Mounting Kit, M300/M500. (Johnson Controls, Inc. #SMB500).....	28.05	10.10
28 46 21 17-0952 EA SMK-MOV Kit-LON. (Johnson Controls, Inc. #SMK-MOVKit-LON).....	29.96	5.05
28 46 21 17-0953 EA SMK-MOV Kit-MSTP. (Johnson Controls, Inc. #SMK-MOVKit-MSTP).....	33.93	5.05
28 46 21 17-0954 EA SPBBS, Wall, Back Box. (Johnson Controls, Inc. #SPBBS).....	29.99	5.05
28 46 21 17-0955 EA Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SR).....	138.03	37.87
28 46 21 17-0956 EA Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SRH).....	167.28	37.87
28 46 21 17-0957 EA Strobe, HI, Outdoor, Red. (Johnson Controls, Inc. #SRHK).....	197.19	42.91
28 46 21 17-0958 EA Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SRH-P).....	167.28	37.87
28 46 21 17-0959 EA Strobe, Standard, Outdoor, Red. (Johnson Controls, Inc. #SRK).....	194.70	42.91
28 46 21 17-0960 EA Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SR-P).....	149.97	37.87
28 46 21 17-0961 EA Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SW).....	149.97	37.87
28 46 21 17-0962 EA Strobe, HI, 12/24 Volt DC, White (Johnson Controls, Inc. #SWH).....	167.28	37.87
28 46 21 17-0963 EA Strobe, HI, 12/24 Volt DC, White (Johnson Controls, Inc. #SWH-P).....	167.28	37.87
28 46 21 17-0964 EA Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SW-P).....	149.97	37.87
28 46 21 17-0965 EA Firefighter's Telephone Handset Only. (Johnson Controls, Inc. #TEH-1).....	197.20	12.62
28 46 21 17-0966 EA Universal Digital Alarm Communicator Transmitter. (Johnson Controls, Inc. #UDACT).....	868.92	50.49
28 46 21 17-0967 EA Speaker Strobe, Ceiling, White, 2 W (MAX), Dual Voltage, Multi (Johnson Controls, Inc. #SPSCW).....	220.86	50.49
28 46 21 17-0968 EA Speaker, White, Ceiling Mount. (Johnson Controls, Inc. #SPCW).....	95.39	25.25
28 46 21 17-0969 EA Speaker, White, Ceiling Mount, High Db. (Johnson Controls, Inc. #SPCWV).....	95.39	25.25
28 46 21 17-0970 EA Speaker Strobe, Red, Ceiling Mount, Standard Candela. (Johnson Controls, Inc. #SPSCR).....	170.37	25.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0971 EA Speaker Strobe, Red, Ceiling Mount, High Candela. (Johnson Controls, Inc. #SPSCRH).....	184.72	25.25
28 46 21 17-0972 EA Speaker Strobe, Red, Ceiling Mount, High Candela, High Db. (Johnson Controls, Inc. #SPSCRVH).....	184.72	25.25
28 46 21 17-0973 EA Speaker Strobe, White, Ceiling Mount, High Db. (Johnson Controls, Inc. #SPSCWV).....	164.68	25.25
28 46 21 17-0974 EA Speaker Strobe Wall, WP, White, 2W (MAX), Dual Volt, Multi D (Johnson Controls, Inc. #SPSWK).....	222.10	25.25
28 46 21 17-0975 EA Speaker Strobe, Wall, White, Standard Candela. (Johnson Controls, Inc. #SPSW).....	170.37	25.25
28 46 21 17-0976 EA Wall Mount Speaker, White. (Johnson Controls, Inc. #SPW).....	95.39	25.25
28 46 21 17-0977 EA Wall Mount Speaker, Red. (Johnson Controls, Inc. #SPR).....	95.39	25.25
28 46 21 17-0978 EA Speaker Strobe, Wall, White, High Cd. (Johnson Controls, Inc. #SPSWH).....	184.72	25.25
28 46 21 17-0979 EA Speaker Strobe, Wall, Red, High Cd. (Johnson Controls, Inc. #SPSR).....	170.37	25.25
28 46 21 17-0980 EA Speaker Strobe, Wall, Red, High Db, High Candela. (Johnson Controls, Inc. #SPSRV).....	170.37	25.25
28 46 21 17-0981 Honeywell Fire Alarm (28 46 21 17)		
28 46 21 17-0982 Notifier Fire Alarm (28 46 21 17-0981)		
28 46 21 17-0983 Fire Alarm Control Panel And Accessories (28 46 21 17-0982)		
28 46 21 17-0984 EA NFS2-3030 CPU For Intelligent Fire Alarm Control Panel (Notifier CPU2-3030D).....	4,347.64	504.91
28 46 21 17-0985 EA NFS2-640 CPU For Intelligent Fire Alarm Control Panel (Notifier CPU2-640).....	3,672.79	504.91
28 46 21 17-0986 EA Black, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320).....	4,339.70	504.91
28 46 21 17-0987 EA Supports Installation Of Optional ACM-Series Annunciator In Same Cabinet, Black, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320C).....	4,308.86	504.91
28 46 21 17-0988 EA Black, 240 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320E).....	4,210.01	504.91
28 46 21 17-0989 EA Red, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320R).....	4,115.61	504.91
28 46 21 17-0990 EA Two-Tone Sequential Module (Notifier 2TTM).....	257.86	25.25
28 46 21 17-0991 EA 5', Not Low Loss, Antenna Cable (Notifier 7626-5C).....	64.36	5.05
28 46 21 17-0992 EA 25', Low Loss, Antenna Cable (Notifier 7626-25HC).....	123.50	10.10
28 46 21 17-0993 EA 50', Low Loss, Antenna Cable (Notifier 7626-50HC).....	187.49	15.15
28 46 21 17-0994 EA IPGSM-COM, IPGSM-COMa Handheld Programmer (Notifier 7720P).....	288.38	
28 46 21 17-0995 EA RJ45-DB9F Serial Programming Cable (Notifier ALMSC-119).....	53.58	
28 46 21 17-0996 EA 120 Volt AC Power Supply, Chassis, 80-Character Display, Keypad, NFS-320SYS CPU (Notifier CPU-320SYS).....	4,041.29	504.91
28 46 21 17-0997 EA 240 Volt AC Power Supply, Chassis, 80-Character Display, Keypad, NFS-320SYS CPU (Notifier CPU-320SYS).....	4,077.71	504.91
28 46 21 17-0998 EA 3 dB Gain External/Remote Antenna (Notifier GSM-ANT3dB).....	156.52	5.05
28 46 21 17-0999 EA Plug In Transformer Box For IPGSM Communicator (Notifier HPTCOVER).....	49.49	5.05
28 46 21 17-1000 EA Mounting Bracket Kit For SFB-5UD, SFB-10UD, NFW2-100 And NFW-50 (Notifier IPBRKT).....	71.29	10.10
28 46 21 17-1001 EA Chassis To Mount IP Communicator In CHSA Series Chassis (Notifier IPCHSKIT).....	71.33	12.62
28 46 21 17-1002 EA IP Communicator (Notifier IPDACT-2).....	511.31	25.25
28 46 21 17-1003 EA IP Communicator With Upload/Download Capability (Notifier IPDACT-2UD).....	591.58	25.25
28 46 21 17-1004 EA Red, IP Communicator External Mounting Enclosure (Notifier IPENC).....	145.63	25.25
28 46 21 17-1005 EA Black, IP Communicator External Mounting Enclosure (Notifier IPENC-B).....	145.26	25.25
28 46 21 17-1006 EA Dual 8TPC To Single 8TPC "Y" Splitter With Two 9" Cables For Combining Panel Phone Jacks To One IPDACT Input (Notifier IPSPLT).....	38.55	10.10
28 46 21 17-1007 EA Loop Control Module (Notifier LCM-320).....	1,432.16	50.49
28 46 21 17-1008 EA Loop Expander Module (Notifier LEM-320).....	1,169.79	50.49
28 46 21 17-1009 EA Keyboard Display Module For CPU2-640 (Notifier KDM-R2).....	1,092.53	50.49
28 46 21 17-1010 EA 7' DACT Phone Cord (Notifier MCBL-7).....	18.80	
28 46 21 17-1011 EA Backbox For UDACT, With Viewing Window And Optional Relay Mount (Notifier UBS-1).....	149.00	12.62
28 46 21 17-1012 EA Red, Metal Enclosure With Solid Door For Remote Mounting Of The UDACT-2 (Notifier UBS-1R).....	174.24	25.25
28 46 21 17-1013 EA Black, Metal Enclosure With Solid Door For Remote Mounting Of The UDACT-2 (Notifier UBS-1B).....	174.24	25.25
28 46 21 17-1014 EA Universal Digital Alarm Communicator Transmitter (Notifier UDACT-2).....	650.61	25.25
28 46 21 17-1015 EA Universal Zone Coder (Notifier UZC-256).....	904.90	25.25
28 46 21 17-1016 EA Hardware Kit To Connect UZC-256 To A PC (Notifier UZC-HI).....	282.19	
28 46 21 17-1017 EA Programming Software For ONYX Series Products, DVC And Associated Amplifiers, DVC-RPU And UDACT-2 (Notifier VERIFIRE-TCD).....	666.36	
28 46 21 17-1018 EA ONYX Series Verifire Tools Upgrade (Notifier VERIFIREUG-TCD).....	434.16	
28 46 21 17-1019 EA Central Station Receiver For Fire And Security (Notifier VISORALARM-PLUS).....	4,005.67	15.15
28 46 21 17-1020 ONYX Cabinets (28 46 21 17-0982)		
28 46 21 17-1021 EA Red, Two Tier Door For CA-2 Chassis Configuration (Notifier ADDR-B4R).....	434.94	12.62
28 46 21 17-1022 EA Red, Three Tier Door For CA-2 Chassis Configuration (Notifier ADDR-C4R).....	582.29	12.62
28 46 21 17-1023 EA Red, Four Tier Door For CA-2 Chassis Configuration (Notifier ADDR-D4R).....	718.48	12.62
28 46 21 17-1024 EA Battery Dress Plate For NFS-640 And NFS-3030 (Notifier BP-4).....	91.98	15.15
28 46 21 17-1025 EA Chassis Bridge (Notifier CB-1).....	83.04	12.62
28 46 21 17-1026 EA Four Position Chassis (Notifier CHS-4).....	135.62	12.62
28 46 21 17-1027 EA Low Profile 1st Row Chassis Assembly For CPU-640 / CPU-640E (Notifier CHS-M2).....	154.58	25.25
28 46 21 17-1028 EA Black, Dress Panel Blank, Covers Unused Cabinet Row(s) (Notifier DP-1B).....	81.95	15.15
28 46 21 17-1029 EA Dress Plate For Top Row With CPU2-3030D (Notifier DP-DISP).....	102.20	15.15
28 46 21 17-1030 EA One Tier, "A" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-A4).....	276.32	25.25
28 46 21 17-1031 EA One Tier, "A" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-A4B).....	180.17	25.25
28 46 21 17-1032 EA Two Tier, "B" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-B4).....	352.73	37.87
28 46 21 17-1033 EA Two Tier, "B" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-B4B).....	224.81	37.87
28 46 21 17-1034 EA Three Tier, "C" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-C4).....	523.53	50.49
28 46 21 17-1035 EA Three Tier, "C" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-C4B).....	328.58	50.49
28 46 21 17-1036 EA Four Tier, "D" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-D4).....	636.11	63.12
28 46 21 17-1037 EA Four Tier, "D" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-D4B).....	383.81	63.12
28 46 21 17-1038 EA Black, One Tier, "AA" Size Door Assembly With Window, Lock And Keys (Notifier DR-AA4).....	211.07	12.62
28 46 21 17-1039 EA Black, One Tier, "AA" Size Door Assembly, Lock And Keys (Notifier DR-AA4B).....	147.14	12.62
28 46 21 17-1040 EA Red, One Tier, "AA" Size Door Assembly, Lock And Keys (Notifier DR-AA4BR).....	147.14	12.62

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

28 46 21 17-1041	EA	Red, One Tier, "AA" Size Door Assembly With Window, Lock And Keys (Notifier DR-AA4R)	214.78	12.62
28 46 21 17-1042	EA	Red, One Tier, "A" Size Blank Door Assembly, Lock And Keys (Notifier DR-A4BR)	164.98	12.62
28 46 21 17-1043	EA	Red, One Tier, "A" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-A4R)	270.53	12.62
28 46 21 17-1044	EA	Red, Two Tier, "B" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-B4BR)	186.91	12.62
28 46 21 17-1045	EA	Red, Two Tier, "B" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-B4R)	321.07	12.62
28 46 21 17-1046	EA	Red, Three Tier, "C" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-C4BR)	266.07	12.62
28 46 21 17-1047	EA	Red, Three Tier, "C" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-C4R)	473.44	12.62
28 46 21 17-1048	EA	Red, Four Tier, "D" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-D4BR)	297.28	12.62
28 46 21 17-1049	EA	Red, Four Tier, "D" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-D4R)	565.60	12.62
28 46 21 17-1050	EA	Black, Two Tiers, Equipment Backbox Assembly (Notifier EQBB-B4)	281.64	25.25
28 46 21 17-1051	EA	Black, Three Tiers, Equipment Backbox Assembly (Notifier EQBB-C4)	409.48	25.25
28 46 21 17-1052	EA	Black, Four Tiers, Equipment Backbox Assembly (Notifier EQBB-D4)	477.86	25.25
28 46 21 17-1053	EA	Black, Vented, Two Tiers, Equipment Door Assembly (Notifier EQDR-B4)	294.28	25.25
28 46 21 17-1054	EA	Black, Vented, Three Tiers, Equipment Door Assembly (Notifier EQDR-C4)	437.73	25.25
28 46 21 17-1055	EA	Black, Vented, Four Tiers, Equipment Door Assembly (Notifier EQDR-D4)	509.08	25.25
28 46 21 17-1056	EA	Red, Two Tiers, Equipment Backbox Assembly (Notifier EQBB-B4R)	283.87	25.25
28 46 21 17-1057	EA	Red, Three Tiers, Equipment Backbox Assembly (Notifier EQBB-C4R)	409.48	25.25
28 46 21 17-1058	EA	Red, Four Tiers, Equipment Backbox Assembly (Notifier EQBB-D4R)	483.81	25.25
28 46 21 17-1059	EA	Red, Vented, Two Tiers, Equipment Door Assembly (Notifier EQDR-B4R)	307.66	25.25
28 46 21 17-1060	EA	Red, Vented, Three Tiers, Equipment Door Assembly (Notifier EQDR-C4R)	437.73	25.25
28 46 21 17-1061	EA	Red, Vented, Four Tiers, Equipment Door Assembly (Notifier EQDR-D4R)	509.08	25.25
28 46 21 17-1062	EA	Backbox With Door For ONYX Firstvision™ (Notifier FIRSTVISION-ENC)	2,751.13	126.22
28 46 21 17-1063	EA	CAB-4 Series Mounting Kit (Notifier P40-KITB)	265.29	25.25
		Note: Includes chassis, hinged dress plate, and mounting hardware.		
28 46 21 17-1064	EA	Black, One Tier Backbox Assembly (Notifier SBB-A4)	301.44	75.73
28 46 21 17-1065	EA	Black, Two Tier Backbox Assembly (Notifier SBB-B4)	423.39	100.98
28 46 21 17-1066	EA	Black, Three Tier Backbox Assembly (Notifier SBB-C4)	542.48	100.98
28 46 21 17-1067	EA	Black, Four Tier Backbox Assembly (Notifier SBB-D4)	661.77	126.22
28 46 21 17-1068	EA	Black, Mini, One Tier, Backbox (Notifier SBB-AA4)	171.64	25.25
28 46 21 17-1069	EA	Red, Mini, One Tier, Backbox (Notifier SBB-AA4R)	171.64	25.25
28 46 21 17-1070	EA	Red, One Tier Backbox Assembly (Notifier SBB-A4R)	205.83	25.25
28 46 21 17-1071	EA	Red, Two Tier Backbox Assembly (Notifier SBB-B4R)	280.90	25.25
28 46 21 17-1072	EA	Red, Three Tier Backbox Assembly (Notifier SBB-C4R)	405.03	25.25
28 46 21 17-1073	EA	Red, Four Tier Backbox Assembly (Notifier SBB-D4R)	476.38	25.25
28 46 21 17-1074	EA	Trim Ring For NFS-320 Cabinet (Notifier TR-320)	160.73	15.15
28 46 21 17-1075	EA	Red, Trim Ring For NFS-320 Cabinet (Notifier TR-320R)	160.73	15.15
28 46 21 17-1076	EA	Black, "AA" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-AA4)	213.88	15.15
28 46 21 17-1077	EA	Black, "A" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-A4)	170.77	15.15
28 46 21 17-1078	EA	Black, "B" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-B4)	171.88	15.15
28 46 21 17-1079	EA	Black, "C" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-C4)	170.02	15.15
28 46 21 17-1080	EA	Black, "D" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-D4)	174.11	15.15
28 46 21 17-1081	EA	2" Filler Dress Plate For ADP-4B Installed In The Top Row Of A CAB-4 Series Backbox (Notifier VP-2B)	67.01	15.15
28 46 21 17-1082	EA	Wire Trays For Routing Wire In A CAB-4 Series Backbox (Notifier WC-2)	43.70	5.05
28 46 21 17-1083		NFS2-3030/640 Cabinet Mechanicals (28 46 21 17-0982)		
28 46 21 17-1084	EA	Dress Plate For Middle Rows With CPU2-640 (Notifier ADP2-640)	94.69	15.15
28 46 21 17-1085	EA	Blank Module Dress Plate (Notifier BM-1B)	79.69	15.15
28 46 21 17-1086	EA	Battery Dress Plate For NFS2-3030, NFS2-640, NCA-2 And DVC System (Notifier BP2-4)	89.39	15.15
28 46 21 17-1087	EA	Four Position Expansion Chassis (Notifier CHS-4MB)	207.35	12.62
28 46 21 17-1088	EA	Standard 1st Row Chassis Assembly For CPU-3030 (Notifier CHS-M3)	202.76	37.87
28 46 21 17-1089	EA	Dress Plate For Top Row With CPU2-640 (Notifier DP-DISP2)	98.22	15.15
28 46 21 17-1090		NFS-3030/640 Cabinet Mechanicals (28 46 21 17-0982)		
28 46 21 17-1091	EA	Annunciator Dress Plate (Notifier ADP-4B)	90.28	15.15
28 46 21 17-1092	EA	Blank Module Dress Plate (Notifier BMP-1)	59.40	15.15
28 46 21 17-1093	EA	Low Profile Four Position Chassis For AA-30 Or LDM (Notifier CHS-4L)	129.44	25.25
28 46 21 17-1094	EA	Module Dress Plate (Notifier MP-1B)	91.16	15.15
28 46 21 17-1095		Battery Cabinets (28 46 21 17-0982)		
28 46 21 17-1096	EA	Six Position Chassis (Notifier CHS-6)	87.81	25.25
28 46 21 17-1097	EA	Black, 24" x 14" x 7-3/4" Battery Backbox (Notifier NFS-LBB)	410.83	75.73
28 46 21 17-1098		Digital Voice (28 46 21 17-0982)		
28 46 21 17-1099	EA	Chassis Used With BB-XP (Notifier 18439)	44.20	12.62
28 46 21 17-1100	EA	220 Volt AC, 100 Watt, 70.7 VRMS, Tone Generator, Audio Amplifier (Notifier AA-100E)	1,846.43	37.87
28 46 21 17-1101	EA	220 Volt AC, 120 Watt, 25 VRMS, Tone Generator, Audio Amplifier (Notifier AA-120E)	1,794.72	37.87
28 46 21 17-1102	EA	220 Volt AC, 30 Watt, 25 VRMS Audio Amplifier (Notifier AA-30E)	905.56	37.87
28 46 21 17-1103	EA	Black, Two Tier Door For CA-2 Chassis Configuration (Notifier ADDR-B4)	399.48	37.87
28 46 21 17-1104	EA	Black, Three Tier Door For CA-2 Chassis Configuration (Notifier ADDR-C4)	541.18	50.49
28 46 21 17-1105	EA	Black, Four Tier Door For CA-2 Chassis Configuration (Notifier ADDR-D4)	674.04	63.12
28 46 21 17-1106	EA	Multimode Audio Fiber Link Receiver (Notifier AFL-RM)	785.39	25.25
28 46 21 17-1107	EA	Multimode Audio Fiber Link Transmitter (Notifier AFL-TM)	785.39	25.25
28 46 21 17-1108	EA	Single Mode Audio Fiber Link Transmitter (Notifier AFL-TS)	1,678.79	25.25
28 46 21 17-1109	EA	15" x 8-3/8" x 3-3/8", Flush Or Surface Mounted Backbox (Notifier AFAWS-BX)	86.01	12.62
28 46 21 17-1110	EA	Flush Mounted, Key Lock, Door (Notifier AFAWS-KR)	141.20	12.62
28 46 21 17-1111	EA	Surface Mounted, Key Lock, Door (Notifier AFAWS-KS)	141.94	12.62



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1112	EA			Flush Mounted, Latch Style Lock, Door (Notifier AFAWS-LR).....	137.48	12.62
28 46 21 17-1113	EA			Surface Mounted, Latch Style Lock, Door (Notifier AFAWS-LS).....	138.97	12.62
28 46 21 17-1114	EA			Armored Coil Cord, Telephone Chassis (Notifier AFAWS-TELA).....	277.22	12.62
28 46 21 17-1115	EA			Coil Cord, Telephone Chassis (Notifier AFAWS-TELC).....	213.29	12.62
28 46 21 17-1116	EA			Hammer Attached To Chain, Breakglass Insert (Notifier BRKG-B).....	87.40	
28 46 21 17-1117	EA			For 25 VRMS DAX Or DAA2 Series, Back-Up Digital Amplifier (Notifier BDA-25V).....	470.07	25.25
28 46 21 17-1118	EA			For 70 VRMS DAX Or DAA2 Series, Back-Up Digital Amplifier (Notifier BDA-70V).....	474.31	25.25
28 46 21 17-1119	EA			Blank Dress Plate For CA-2 (Notifier BP-CA2).....	84.90	12.62
28 46 21 17-1120	EA			One Tier Chassis For Digital Voice Command Panel (Notifier CA-1).....	114.01	25.25
28 46 21 17-1121	EA			Two Tier Chassis For Digital Voice Command Panel, With MIC-1 (Notifier CA-2).....	335.09	37.87
28 46 21 17-1122	EA			Black, 6.08" x 8.301" x 3.655", Remote Cabinet (Notifier CAB-RM).....	170.53	25.25
28 46 21 17-1123	EA			Red, 6.08" x 8.301" x 3.655", Remote Cabinet (Notifier CAB-RMR).....	170.53	25.25
28 46 21 17-1124	EA			Chassis, Phone Well, TELH-1 And Hardware (Notifier CFFT-1).....	211.07	12.62
28 46 21 17-1125	EA			Chassis With Paging Microphone With Well (Notifier CMIC-1).....	208.84	12.62
28 46 21 17-1126	EA			120 Volt AC, 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025).....	1,319.04	25.25
28 46 21 17-1127	EA			Multi-Mode Fiber-Optic Media 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025F).....	1,332.03	25.25
28 46 21 17-1128	EA			Single-Mode Fiber-Optic Media 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025SF).....	1,332.03	25.25
28 46 21 17-1129	EA			120 Volt AC, 50 Watt, 70 VRMS Digital Audio Amplifier (Notifier DAA-5070).....	1,361.38	25.25
28 46 21 17-1130	EA			Multi-Mode Fiber-Optic Media 50 Watt, 70 VRMS Digital Audio Amplifier (Notifier DAA-5070F).....	1,448.53	25.25
28 46 21 17-1131	EA			120 Volt AC, 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525).....	1,413.43	25.25
28 46 21 17-1132	EA			Single-Mode Fiber-Optic Media 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525SF).....	1,739.79	25.25
28 46 21 17-1133	EA			Single-Mode Fiber-Optic Media 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525SF).....	1,739.79	25.25
28 46 21 17-1134	EA			220-240 Volt AC, 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA2-5025E).....	1,500.78	25.25
28 46 21 17-1135	EA			220-240 Volt AC, 50 Watt, 70 VRMS Digital Audio Amplifier (Notifier DAA2-5070E).....	1,543.17	25.25
28 46 21 17-1136	EA			220-240 Volt AC, 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA2-7525E).....	1,609.28	25.25
28 46 21 17-1137	EA			120 Volt AC, 35 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-3525).....	1,020.18	25.25
28 46 21 17-1138	EA			220-240 Volt AC, 35 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-3525E).....	1,047.30	25.25
28 46 21 17-1139	EA			120 Volt AC, 35 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-3570).....	1,071.88	25.25
28 46 21 17-1140	EA			220-240 Volt AC, 35 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-3570E).....	1,107.48	25.25
28 46 21 17-1141	EA			120 Volt AC, 50 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-5025).....	1,115.11	25.25
28 46 21 17-1142	EA			220-240 Volt AC, 50 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-5025E).....	1,148.17	25.25
28 46 21 17-1143	EA			120 Volt AC, 50 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-5070).....	1,181.23	25.25
28 46 21 17-1144	EA			220-240 Volt AC, 50 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-5070E).....	1,240.56	25.25
28 46 21 17-1145	EA			Dress Plate For CFFT-1 (Notifier DP-CFFT).....	97.53	12.62
28 46 21 17-1146	EA			Dress Panel For One Tier Chassis For Digital Voice Command Panel (Notifier DPA-1).....	85.87	15.15
28 46 21 17-1147	EA			Dress Panel For One Tier Chassis For Digital Voice Command Panel, Supports Keypad (Notifier DPA-1A4).....	98.22	15.15
28 46 21 17-1148	EA			Dress Panel For Two Tier Chassis For Digital Voice Command Panel (Notifier DPA-2B).....	164.38	15.15
28 46 21 17-1149	EA			WPS Power Amplifier (Notifier DPA3204P).....	557.37	25.25
28 46 21 17-1150	EA			WPS Power Amplifier (Notifier DPA4001P).....	470.07	25.25
28 46 21 17-1151	EA			Modem Interface For Direct Wire (No Dial-Up Capabilities) For Interconnecting Panels (Notifier DPI-232).....	1,060.02	25.25
28 46 21 17-1152	EA			120 Volt AC, 125 Watt, 25 VRMS Digital Series Amplifier (Notifier DS-AMP).....	793.01	25.25
				Note: Can Be Converted To 70 VRMS, 100 Watts With A DS-XF70V		
28 46 21 17-1153	EA			220-240 Volt AC, 125 Watt, 25 VRMS Digital Series Amplifier (Notifier DS-AMPE).....	802.34	25.25
				Note: Can Be Converted To 70 VRMS, 100 Watts With A DS-XF70V		
28 46 21 17-1154	EA			Digital Series Distribution Board, Supports One To Four DS-Amp Or DS-AMPE (Notifier DS-DB).....	1,336.34	25.25
28 46 21 17-1155	EA			125 Watt, 25 VRMS DS Series Backup Amplifier Board (Can Be Converted To 70 VRMS, 100 Watt Amplifier With A DS-XF70V) (Notifier DS-BDA).....	520.92	25.25
28 46 21 17-1156	EA			Converts One DAX Or DAA2 DAL Port To Multi-Mode Fiber, Fiber Option Module (Notifier DS-FM).....	249.68	25.25
28 46 21 17-1157	EA			Converts One DAX Or DAA2 Port To ST Style Multi-Mode Fiber (For Connection To DVC-EMF Or DAA-XXXXF Series Amplifier), Fiber Option Module (Notifier DS-RFM).....	249.68	25.25
28 46 21 17-1158	EA			Converts One DAX Or DAA2 DAL Port To Single-Mode Fiber, Fiber Option Module (Notifier DS-SFM).....	249.68	25.25
28 46 21 17-1159	EA			Converts DS-AMP, DS-AMPE, Or DS-BDA To 70 VRMS, 100 Watt, DS Series Transformer (Notifier DS-XF70V).....	112.37	25.25
28 46 21 17-1160	EA			Analog Output Board For Digital Voice Command (Notifier DVC-AO).....	240.15	25.25
28 46 21 17-1161	EA			Extended Memory For Digital Voice Command (Notifier DVC-EM).....	1,329.62	25.25
28 46 21 17-1162	EA			Keypad For Digital Voice Command (Notifier DVC-KD).....	405.33	50.49
28 46 21 17-1163	EA			Microphone For NFC-50/100, NFC-LOC, NFC-RPU And NFC-RM (Notifier ECC-MICROPHONE).....	192.20	
28 46 21 17-1164	EA			Portable Fireman's Telephone Handset (Notifier FHS).....	116.01	
28 46 21 17-1165	EA			Red, Fireman's Telephone Handset (Notifier FHS-F).....	134.22	
28 46 21 17-1166	EA			Recessed, Fireman's Handset Storage Cabinet, Holds Six Handsets (Notifier FHSC-R).....	340.36	25.25
28 46 21 17-1167	EA			Surface Mounted, Fireman's Handset Storage Cabinet, Holds Six Handsets (Notifier FHSC-S).....	340.36	25.25
28 46 21 17-1168	EA			Fireman's Phone Jack On A Single Gang Plate (Notifier FPJ).....	56.92	7.57
28 46 21 17-1169	EA			Paging Microphone Only (Notifier MIC-1).....	166.05	25.25
28 46 21 17-1170	EA			Firefighter's Telephone Handset (Notifier TELH-1).....	132.37	
28 46 21 17-1171	EA			Remote Microphone Assembly For Mounting On An ADP-4 Dress Plate (Notifier RM-1).....	393.65	25.25
28 46 21 17-1172	EA			Remote Microphone Assembly For Mounting In A Stand Alone Cabinet (Notifier RM-1SA).....	393.65	25.25
28 46 21 17-1173 Amplifiers <small>(28 46 21 17-0982)</small>						
28 46 21 17-1174	EA			30 Watt Audio Amplifier At 25 VRMS, 120 Volt AC (Notifier AA-30).....	746.51	25.25
28 46 21 17-1175	EA			100 Watt Audio Amplifier At 70.7 VRMS, 120 Volt AC, Tone Generator (Notifier AA-100).....	1,615.44	25.25
28 46 21 17-1176	EA			120 Watt Audio Amplifier At 25 VRMS, 120 Volt AC, Tone Generator (Notifier AA-120).....	1,569.57	25.25
28 46 21 17-1177	EA			Audio Coupling Transformer (Notifier ACT-1).....	123.71	25.25
28 46 21 17-1178	EA			Audio Coupling Transformer For DVC-AO (Notifier ACT-4).....	143.12	25.25
28 46 21 17-1179	EA			Audio Coupling Transformer For DAA-5025 (Notifier ACT-25).....	143.12	25.25
28 46 21 17-1180	EA			Audio Coupling Transformer For DAA-5070 (Notifier ACT-70).....	143.12	25.25
28 46 21 17-1181 FireVoice-25/50 Emergency Voice Evacuation Control Panels <small>(28 46 21 17-0982)</small>						
28 46 21 17-1182	EA			25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50).....	3,695.21	504.91
28 46 21 17-1183	EA			Single Channel 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50DA).....	2,640.85	504.91

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1184 EA Single Channel 25 Watt, 25 VRMS Voice Evacuation Control Panel Used With NFV-25/50ZS (Notifier NFV-25/50DAZS)	3,398.13	504.91
28 46 21 17-1185 EA Zoned System 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50ZS)	4,388.40	504.91
28 46 21 17-1186 EA Zoned System With Telephone 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50ZST)	4,842.77	504.91
28 46 21 17-1187 System Printer <small>(28 46 21 17-0982)</small>		
28 46 21 17-1188 EA 80 Column, 120 Volt AC, Desktop Printer (Notifier PRN-6)	1,604.86	25.25
28 46 21 17-1189 Batteries <small>(28 46 21 17-0982)</small>		
28 46 21 17-1190 EA 5 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-1250-BP)	437.73	25.25
28 46 21 17-1191 EA 7 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-1270-BP)	352.19	25.25
28 46 21 17-1192 EA 12 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12120-BP)	459.81	25.25
28 46 21 17-1193 EA 18 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12180-BP)	272.79	25.25
28 46 21 17-1194 EA 26 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12260-BP)	376.89	25.25
28 46 21 17-1195 EA 55 Ampere Hours, 12 Volt DC, Sealed Battery (Notifier BAT-12550)	376.01	25.25
28 46 21 17-1196 EA 100 Ampere Hours, 12 Volt DC, Sealed Battery (Notifier BAT-121000)	591.96	25.25
28 46 21 17-1197 Battery Backboxes And Miscellaneous Mechanicals <small>(28 46 21 17-0982)</small>		
28 46 21 17-1198 EA 14-1/2" x 8-1/4" x 4-3/4", Holds Up To Two BAT-12180 Batteries, Battery Backbox (Notifier BB-17)	125.50	20.19
28 46 21 17-1199 EA 24" x 12.55" x 5.218", Mounts Up To Six XP6 Boards Or ACPS-610, Cabinet (Notifier BB-25)	205.40	20.19
Note: XP6 modules require a CHS-6.		
28 46 21 17-1200 EA 15.6" x 15.5" x 5.152", Mounts Up To Two 26 Amp Hour And Charger, Battery Backbox (Notifier BB-26)	341.35	100.98
28 46 21 17-1201 EA Holds Up To Two BAT-12120 12 Amp Hour Batteries, Battery Holder (Notifier CHS-BH)	169.73	50.49
28 46 21 17-1202 EA Holds Up To Two BAT-12120 12 Amp Hour Batteries, Battery Holder (Notifier CHS-BH1)	89.54	12.62
28 46 21 17-1203 EA Battery Bracket For Two 26 Amp Hour Batteries (Notifier SEISKIT-BB25)	240.22	20.19
28 46 21 17-1204 EA Two 26 Amp Hour Battery Bracket Seismic Kit For CAB-4 Series Cabinets (Notifier SEISKIT-CAB)	165.27	20.19
28 46 21 17-1205 EA Two 12 Amp Hour Battery Bracket Seismic Kit For DAX, DAA, And DAA2 Series Amplifiers (Notifier SEISKIT-DAA)	182.73	20.19
28 46 21 17-1206 EA Two 55 Amp Hour Battery Bracket Seismic Kit For NFS-LBB (Notifier SEISKIT-LBB)	194.25	20.19
28 46 21 17-1207 Power Supplies And Chargers <small>(28 46 21 17-0982)</small>		
28 46 21 17-1208 EA 120 Volt AC, 6 Or 10 Amperes, Addressable Charging Power Supply (Notifier ACPS-610)	1,243.76	37.87
28 46 21 17-1209 EA 220/240 Volt AC, 6 Or 10 Amperes, Addressable Charging Power Supply (Notifier ACPS-610E)	1,304.79	37.87
28 46 21 17-1210 EA Addressable Power Supply, 120 Volt AC For NFS-3030, NFS2-3030 And NCA-2 (Notifier AMPS-24)	1,134.66	25.25
28 46 21 17-1211 EA 6A Auxiliary Power Supply (Notifier APS-6R)	718.05	25.25
28 46 21 17-1212 EA 10 Ampere Battery Charger (Notifier BC10A)	784.80	37.87
28 46 21 17-1213 EA 33.34" x 22.5" x 7.5", Combination Power Supply And Battery Enclosure For NFS-3030 Or NFS2-3030 (Notifier BB-100)	434.45	30.29
Note: Holds four 55 ampere hour or two 100 ampere hour batteries		
28 46 21 17-1214 EA Red, 33.34" x 22.5" x 7.5", Combination Power Supply And Battery Enclosure For NFS-3030 Or NFS2-3030 (Notifier BB-100R)	439.65	30.29
Note: Holds four 55 ampere hour or two 100 ampere hour batteries		
28 46 21 17-1215 EA 30.34" x 36.5" x 7.5", Combination Power Supply And Battery Enclosure For NFS2-3030 (Notifier BB-200)	734.46	30.29
Note: Holds four 55 ampere hour or four 100 ampere hour batteries		
28 46 21 17-1216 EA 30.34" x 36.5" x 7.5", Holds Four 55 Amp Hour Or Four 100 Amp Hour Batteries, For NFS2-3030, Red, Combination Power Supply And Battery Enclosure (Notifier BB-200R)	734.46	30.29
28 46 21 17-1217 EA 15.218" x 14.5" x 3.562" ACPS Stand-Alone Cabinet (Notifier CAB-PS1)	157.52	25.25
28 46 21 17-1218 EA 25 To 120 Ampere Hour Battery Charger (Notifier CHG-120)	877.07	25.25
28 46 21 17-1219 EA Mounts XPIQ-Ps And/Or CHS-BH In A CAB-3/4 Row, Also Mount One ACPS-610 In CAB-3 Row, Chassis Assembly (Notifier CHS-PS)	71.33	12.62
28 46 21 17-1220 EA Door Used For Mounting ACPS-610 (E) In A CAB-PS1 Cabinet When Replacing ACPS-2406 (Notifier DR-PS1)	109.61	12.62
28 46 21 17-1221 EA 8 Amperes, 120 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8)	585.08	25.25
28 46 21 17-1222 EA 8.0 Amperes, 240 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8E)	738.03	75.73
28 46 21 17-1223 EA Red, 8 Amperes, 240 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8R)	706.67	75.73
28 46 21 17-1224 EA 8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8)	816.01	75.73
28 46 21 17-1225 EA 8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8E)	809.23	75.73
28 46 21 17-1226 EA Chassis Mounted, 8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8CM)	784.35	37.87
28 46 21 17-1227 EA Chassis Mounted, 8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8CME)	784.35	37.87
28 46 21 17-1228 EA 12 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF12)	971.67	37.87
28 46 21 17-1229 EA 12 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF12E)	928.45	37.87
28 46 21 17-1230 EA 12 Amperes, 24 Volt DC, 120 Volt AC, Chassis Mounted, NAC Fire Alarm Power Supply (Notifier HPFF12CM)	986.08	75.73
28 46 21 17-1231 EA 12 Amperes, 24 Volt DC, 220 Volt AC, Chassis Mounted, NAC Fire Alarm Power Supply (Notifier HPFF12CME)	986.08	75.73
28 46 21 17-1232 EA 6 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S6)	691.41	75.73
28 46 21 17-1233 EA 6 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S6E)	691.41	75.73
28 46 21 17-1234 EA 8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S8)	745.66	75.73
28 46 21 17-1235 EA 8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S8E)	745.66	75.73
28 46 21 17-1236 EA 6 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF602ULADA)	600.71	75.73
28 46 21 17-1237 EA 9 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF902ULADA)	706.67	75.73
28 46 21 17-1238 EA Class A Adapter HPFF8/HPFF12 (Notifier HPP31076)	151.55	12.62
28 46 21 17-1239 EA Up To 3 Amperes, Main Power Supply And Charger (Notifier MPS-24A)	1,040.77	25.25
28 46 21 17-1240 EA Class A (Style Y) NAC Option Module For FCPS-2406 And FCPS-2408 (Notifier ZNAC-4)	156.03	25.25
28 46 21 17-1241 Network Control Annunciators <small>(28 46 21 17-0982)</small>		
28 46 21 17-1242 EA Network Control Annunciator For NFS2-3030, NFS-3030, NFS-320, NFS-640 And NFS2-640 (Notifier NCA-2)	1,607.03	75.73
28 46 21 17-1243 EA Retro-Fit Plate For Mounting NCA2 (Notifier NCA-2RETRO)	66.46	15.15
28 46 21 17-1244 EA Kit For Mounting NCA-2 To CHS-M2 (Notifier NCA/640-2-Kit)	49.70	15.15



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1245 FIRSTVISION Firefighter's Display <small>(28 46 21 17-0982)</small>		
28 46 21 17-1246 EA ONYX Firstvision™ Touchscreen Assembly (Notifier FIRSTVISION-LCD).....	12,605.54	504.91
28 46 21 17-1247 FlashScan Addressable Modules <small>(28 46 21 17-0982)</small>		
28 46 21 17-1248 EA Intelligent Addressable Control Module (Notifier FCM-1).....	146.65	25.25
28 46 21 17-1249 EA Addressable Dual Monitor Module (Notifier FDM-1).....	162.52	25.25
28 46 21 17-1250 EA Intelligent Addressable Monitor Module (Notifier FMM-1).....	123.71	25.25
28 46 21 17-1251 EA Intelligent Addressable Miniature Monitor Module (Notifier FMM-101).....	111.36	25.25
28 46 21 17-1252 EA Intelligent Addressable 4 - 20mA Analog Input Module (Notifier FMM-4-20).....	218.10	25.25
28 46 21 17-1253 EA Intelligent Addressable Relay Module (Notifier FRM-1).....	133.18	25.25
28 46 21 17-1254 EA Intelligent Addressable 2-Wire Detector Monitor Module (Notifier FZM-1).....	181.93	25.25
28 46 21 17-1255 EA SLC Loop Powered Fault Isolator Module (Notifier ISO-X).....	121.95	25.25
28 46 21 17-1256 Addressable Device Bases And Accessories <small>(28 46 21 17-0982)</small>		
28 46 21 17-1257 EA Intelligent Detector Base With Flange (Notifier B710LP).....	47.39	12.62
28 46 21 17-1258 EA Weatherproof Device Housing (Notifier DH400OE-1).....	360.13	25.25
28 46 21 17-1259 XP6/XP10 Transponder <small>(28 46 21 17-0982)</small>		
28 46 21 17-1260 EA Synchronization Daughter Module For XP6-C (Notifier SYNC-1).....	110.92	25.25
28 46 21 17-1261 EA Six Circuit Supervised Control Module (Notifier XP6-C).....	512.74	25.25
28 46 21 17-1262 EA Six Zone Intelligent To Conventional Interface Module (Notifier XP6-MA).....	618.60	25.25
28 46 21 17-1263 EA Six Relay Control Module (Notifier XP6-R).....	493.33	25.25
28 46 21 17-1264 EA Ten Input Monitor Module (Notifier XP10-M).....	592.14	25.25
28 46 21 17-1265 LCD Display Annunciators <small>(28 46 21 17-0982)</small>		
28 46 21 17-1266 EA 80 Character LCD Fire Annunciator For FireWarden-100-2, NFS-640, NFS2-640 And NFS-320 (Notifier FDU-80).....	676.36	75.73
28 46 21 17-1267 EA 80 Character LCD Annunciator For NFS-640, NFS-3030, NFS2-640, NFS2-3030 And NFS-320 (Notifier LCD-80).....	936.59	75.73
28 46 21 17-1268 EA 640 Character LCD Annunciator For NFS-3030 And NFS2-3030 (Notifier LCD-160).....	968.35	75.73
28 46 21 17-1269 EA 8 To 16 Switch Smoke Control Expander (Notifier SCE-8).....	618.34	25.25
28 46 21 17-1270 EA 8 To 16 Switch Smoke Control Lamp Driver Expander (Notifier SCE-8L).....	332.19	25.25
28 46 21 17-1271 EA Eight Switch Smoke Control Master Module (Notifier SCS-8).....	798.21	25.25
28 46 21 17-1272 ONYX ACM And AEM Series LED Annunciators <small>(28 46 21 17-0982)</small>		
28 46 21 17-1273 EA Remote, Eight Form C Relay Module (Notifier ACM-8R).....	358.20	25.25
28 46 21 17-1274 EA 16 Alarm LEDs, 16 Trouble LEDs, 16 Controls Switches, Annunciator Control Module (Notifier ACM-16AT).....	675.94	25.25
28 46 21 17-1275 EA 16 Alarm LEDs, 16 Trouble LEDs, 16 Control Switches, Annunciator Expander Module (Notifier AEM-16AT).....	519.80	25.25
28 46 21 17-1276 EA 24 Alarm LEDs, 24 Trouble LEDs, 24 Control Switches, Annunciator Control Module (Notifier ACM-24AT).....	675.94	25.25
28 46 21 17-1277 EA 24 Alarm LEDs, 24 Trouble LEDs, 24 Control Switches, Annunciator Expander Module (Notifier AEM-24AT).....	519.80	25.25
28 46 21 17-1278 EA 32 Alarm LEDs And 1 Trouble LED, Control Module (Notifier ACM-32A).....	519.80	25.25
28 46 21 17-1279 EA 32 Alarm And 1 Trouble LED, Annunciator Expander Module (Notifier AEM-32A).....	466.87	25.25
28 46 21 17-1280 EA 48 Alarm And 1 Trouble LED Annunciator Control Module (Notifier ACM-48A).....	519.80	25.25
28 46 21 17-1281 EA 48 Alarm And 1 Trouble LED, Annunciator Expander Module (Notifier AEM-48A).....	466.87	25.25
28 46 21 17-1282 Graphic Annunciator - Lamp Driver Modules <small>(28 46 21 17-0982)</small>		
28 46 21 17-1283 EA Single Annunciator Flush Mounted Backbox (Notifier ABF-1B).....	229.78	50.49
28 46 21 17-1284 EA Single Annunciator Flush Mounted Backbox With Glass Door And Key Lock (Notifier ABF-1DB).....	248.30	50.49
28 46 21 17-1285 EA Two Annunciator Flush Mounted Backbox (Notifier ABF-2B).....	287.66	63.12
28 46 21 17-1286 EA Two Annunciator Flush Mounted Backbox With Glass Door And Key Lock (Notifier ABF-2DB).....	311.47	63.12
28 46 21 17-1287 EA Four Annunciator Flush Mounted Backbox (Notifier ABF-4B).....	496.06	88.35
28 46 21 17-1288 EA Annunciator Blank Plate Used With ACM-32A/ACM-16AT (Notifier ABM-1).....	88.07	15.15
28 46 21 17-1289 EA Single Annunciator Surface Mounted Backbox (Notifier ABS-1B).....	154.35	50.49
28 46 21 17-1290 EA Single Annunciator Surface Mounted Backbox With Trim (Notifier ABS-1TB).....	146.93	12.62
28 46 21 17-1291 EA Two Annunciator Surface Mounted Backbox (Notifier ABS-2B).....	188.31	50.49
28 46 21 17-1292 EA 12" x 12" x 3-3/4" Surface Or Semi-Flush Mount Backbox (Notifier ABS-2D).....	323.82	63.12
28 46 21 17-1293 EA Red, Surface (Or Semi-Flush) Mounted Backbox For ACS Annunciators, SCS Series, NCA And NCA-2 (Notifier ABS-2DR).....	275.31	12.62
28 46 21 17-1294 EA Black, 12" x 20" x 3-1/2" Surface Or Semi-Flush Backbox (Notifier ABS-4D).....	519.88	88.35
28 46 21 17-1295 EA Red, 12" x 20" x 3-1/2" Surface Or Semi-Flush Backbox (Notifier ABS-4DR).....	464.54	15.15
28 46 21 17-1296 EA Black, 9-15/16" x 4-5/8" x 2-1/2" Surface Backbox (Notifier ABS-8RB).....	177.71	20.19
28 46 21 17-1297 EA Annunciator Key Switch (Notifier AKS-1B).....	78.51	7.57
28 46 21 17-1298 EA Chassis Used To Mount NCA-2 In ABS-2D (Notifier CHS-2D).....	87.98	25.25
28 46 21 17-1299 EA 32 Alarm Lamp Driver Annunciator Control Module (Notifier LDM-32).....	466.87	25.25
28 46 21 17-1300 EA 24" Lamp Driver Annunciator Cable (Notifier LDM-CBL24).....	134.60	5.05
28 46 21 17-1301 EA 48" Lamp Driver Annunciator Cable (Notifier LDM-CBL48).....	168.04	5.05
28 46 21 17-1302 EA 32 Alarm Lamp Driver Annunciator Expander Module (Notifier LDM-E32).....	386.59	25.25
28 46 21 17-1303 EA Lamp Driver Module (Notifier LDM-R32).....	656.25	25.25
28 46 21 17-1304 EA Eight Switch Smoke Control Lamp Driver Master Module (Notifier SCS-8L).....	609.42	25.25
28 46 21 17-1305 EA 48" Cable Assembly For Smoke Control Lamp Driver (Notifier SCS8L-CBL48).....	172.50	5.05
28 46 21 17-1306 EA Black, Trim Ring For ABS-2D Cabinet (Notifier TR-ABS2D).....	159.25	15.15
28 46 21 17-1307 EA Black, Trim Ring For ABS-4D Cabinet (Notifier TR-ABS4D).....	107.32	15.15
28 46 21 17-1308 EA Red, Trim Ring For ABS-4D Cabinet (Notifier TR-ABS4DR).....	107.32	15.15

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1309			Network Gateways <small>(28 46 21 17-0982)</small>		
28 46 21 17-1310	EA		Common Alerting Protocol Gateway (Notifier CAP-GW).....	2,678.14	25.25
28 46 21 17-1311	EA		Fiber-Optic Cable Interface (Multi-Mode), High-Speed Network Communications Module (Notifier HS-NCM-MF).....	1,993.26	25.25
28 46 21 17-1312	EA		Fiber-Optic Cable Interface (Multi-Mode Fiber To Single-Mode Fiber), High-Speed Network Communications Module (Notifier HS-NCM-MFSF).....	2,245.85	25.25
28 46 21 17-1313	EA		Fiber-Optic Cable Interface (Single-Mode), High-Speed Network Communications Module (Notifier HS-NCM-SF).....	2,474.71	25.25
28 46 21 17-1314	EA		Twisted-Pair Wire Interface, High-Speed Network Communications Module (Notifier HS-NCM-W).....	2,011.06	25.25
28 46 21 17-1315	EA		Wire And Fiber-Optic Cable Interface, High-Speed Network Communications Module (Multi-Mode) (Notifier HS-NCM-WMF).....	1,956.81	25.25
28 46 21 17-1316	EA		Wire And Fiber-Optic Cable Interface (Single-Mode), High-Speed Network Communications Module (Notifier HS-NCM-WSF).....	2,203.47	25.25
28 46 21 17-1317	EA		Modbus Gateway (Notifier MODBUS-GW).....	2,194.99	25.25
28 46 21 17-1318	EA		22" Widescreen HD LED Color Monitor With Speakers (Notifier MON-22LCDW).....	2,541.73	16.66
28 46 21 17-1319	EA		Capacitive Touch-Screen, 22" Widescreen HD LED Color Monitor With Speakers (Notifier MON-22LCDW-TS).....	3,779.27	16.66
28 46 21 17-1320	EA		1920x1080P Wide Screen (Notifier MON-42LCDW).....	11,975.85	16.66
28 46 21 17-1321	EA		Single Monitor, Wall Mounted, Horizontal, Tilt, Bracket (Notifier MON-42HORZ-SD).....	566.91	37.87
28 46 21 17-1322	EA		Single Monitor, Vertical Mounted, Bracket (Notifier MON-42VERT-SD).....	1,041.35	37.87
28 46 21 17-1323	EA		Dual Monitors, Vertical Wall Mounted, Fixed Position, Bracket (Notifier MON-42VERT-DD).....	1,521.36	37.87
28 46 21 17-1324	EA		Mass Notification Voice Paging (Notifier NOTIFY-IP).....	1,003.59	
28 46 21 17-1325	EA		Embedded NFN Gateway (Notifier NFN-GW-EM).....	1,938.31	25.25
28 46 21 17-1326	EA		NFN Gateway PC Card With Fiber (Notifier NFN-GW-PC-F).....	1,938.31	25.25
28 46 21 17-1327	EA		High Speed NFN Gateway PC Card For Multimode Fiber (Included With ONYXworks-HNMF) (Notifier NFN-GW-PC-HNMF).....	3,042.62	25.25
28 46 21 17-1328	EA		High Speed NFN Gateway PC Card For Single Mode Fiber (Included With ONYXworks-HNSF) (Notifier NFN-GW-PC-HNSF).....	3,542.73	25.25
28 46 21 17-1329	EA		High Speed NFN Gateway PC Card For Wire (Included With ONYXworks-HNW) (Notifier NFN-GW-PC-HNW).....	3,042.62	25.25
28 46 21 17-1330	EA		NFN Gateway PC Card With Wire (Notifier NFN-GW-PC-W).....	1,938.31	25.25
28 46 21 17-1331	EA		Alpha-Numeric Pager Option For ONYXworks (Notifier ONYX-PAGER).....	1,172.14	
28 46 21 17-1332	EA		ONYXWorks Workstation (Notifier ONYXWORKS-WS).....	22,614.10	605.89
28 46 21 17-1333	EA		Fiber Network Graphical User Interface (Notifier ONYXWorks-Lite OW-LITE-NW).....	4,667.25	
			Note: Includes PC slot network fiber card, workstation software and security key with a four node license. Excludes PC workstation.		
28 46 21 17-1334	EA		Wired Network Graphical User Interface (Notifier ONYXWorks-Lite OW-LITE-NF).....	4,667.25	
			Note: Includes PC slot network fiber card, workstation software and security key with a four node license. Excludes PC workstation.		
28 46 21 17-1335	EA		Fiber Optics, Standard Network Repeater Board (Notifier RPT-F).....	932.03	25.25
28 46 21 17-1336	EA		Wire, Standard Network Repeater Board (Notifier RPT-W).....	759.96	25.25
28 46 21 17-1337	EA		Wire To Fiber Optics, Standard Network Repeater Board (Notifier RPT-WF).....	903.21	25.25
28 46 21 17-1338	EA		Signaling Line Circuit Integration Module (Notifier SLC-IM).....	1,007.46	25.25
28 46 21 17-1339	EA		VESDA Gateway That Provides A Communication Link Between The Noti-Fire-Net™ Network And Vesda™ Detectors On The Vesdanet™ (Notifier VESDA-HLI-GW).....	2,093.28	25.25
28 46 21 17-1340	EA		Vesda™ High Level Interface Card Used With SLC-IM And Vesda-HLI-GW To Provide A Communication Link Between The Noti-Fire-Net™ Network And Vesda™ Detectors On The Vesdanet™ (Notifier VHX-1420-HFS).....	2,015.21	25.25
28 46 21 17-1341	EA		Windows 7 Hard Drive Upgrade (Notifier WIN7-UG-US-3).....	2,232.64	
28 46 21 17-1342			NOTI-FIRE-NET Network Components <small>(28 46 21 17-0982)</small>		
28 46 21 17-1343	EA		Interface Between NOTI-FIRE-NET 50 And BACnet (Notifier BACNET-GW-3).....	1,938.31	25.25
28 46 21 17-1344	EA		Fiber Optic Network Communications Module (Notifier NCM-F).....	868.25	25.25
28 46 21 17-1345	EA		NOTI-FIRE-NET Web Server (Notifier NWS).....	1,938.31	25.25
28 46 21 17-1346	EA		Wired Network Communications Module (Notifier NCM-W).....	827.67	25.25
28 46 21 17-1347	EA		Fiber Optic Converter Module Mounting Kit (Notifier SMF-Kit).....	97.48	12.62
28 46 21 17-1348			FireWarden Addressable Fire Panels <small>(28 46 21 17-0982)</small>		
28 46 21 17-1349	EA		50 Point, Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW-50).....	1,852.27	504.91
28 46 21 17-1350	EA		Black, One SLC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100).....	2,165.44	504.91
28 46 21 17-1351	EA		Black, One DC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100C).....	2,455.87	252.45
28 46 21 17-1352	EA		Black, One SLC Loop, 240 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100E).....	2,455.87	252.45
28 46 21 17-1353	EA		Red, One SLC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100R).....	2,445.70	252.45
28 46 21 17-1354			FireWarden Accessories <small>(28 46 21 17-0982)</small>		
28 46 21 17-1355	EA		Intelligent Multicriteria Photo/Thermal Detector With Base (Notifier NP-A100).....	163.43	37.87
28 46 21 17-1356	EA		Intelligent Addressable Photo/Thermal Detector With Base (Notifier NP-100T).....	156.00	37.87
28 46 21 17-1357			FireWarden Devices <small>(28 46 21 17-0982)</small>		
28 46 21 17-1358	EA		SLC Loop Powered Fault Isolator Module (Notifier N100-ISO).....	121.06	25.25
28 46 21 17-1359	EA		Intelligent Addressable Control Module (Notifier NC-100).....	142.23	25.25
28 46 21 17-1360	EA		Intelligent Addressable Relay Module (Notifier NC-100R).....	136.94	25.25
28 46 21 17-1361	EA		Intelligent Addressable Low Flow Duct Photoelectric Smoke Detector (Notifier ND-100).....	342.52	37.87
28 46 21 17-1362	EA		Intelligent Addressable Low Flow Duct Photoelectric Smoke Detector With DPDT Relay (Notifier ND-100R).....	412.42	37.87
28 46 21 17-1363	EA		Two Zone Intelligent Addressable, Two Wire Detector Monitor Module (Notifier NDM-100).....	136.94	25.25
28 46 21 17-1364	EA		Intelligent Addressable Thermal Detector With Base (Notifier NH-100).....	144.54	37.87



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1365 EA Intelligent Addressable High Temperature Thermal Detector With Base (Notifier NH-100H).....	144.54	37.87
28 46 21 17-1366 EA Intelligent Addressable Rate-Of-Rise Thermal Detector With Base (Notifier NH-100R)	144.54	37.87
28 46 21 17-1367 EA Intelligent Addressable Ionization Smoke Detector With Base (Notifier NI-100)	190.41	37.87
28 46 21 17-1368 EA Intelligent Addressable Monitor Module (Notifier NMM-100).....	119.30	25.25
28 46 21 17-1369 EA Intelligent Addressable Mini Monitor Module (Notifier NMM-100P).....	109.15	25.25
28 46 21 17-1370 EA Intelligent Addressable Manual Pull Station (Notifier NOT-BG12LX).....	158.55	25.25
28 46 21 17-1371 EA Intelligent Addressable Photoelectric Smoke Detector With Base (Notifier NP-100)	150.71	37.87
28 46 21 17-1372 EA Intelligent Addressable 2-Wire Detector Monitor Module (Notifier NZM-100).....	176.64	25.25
28 46 21 17-1373 EA Six Zone Intelligent Addressable 2-Wire Detector Monitor Module (Notifier NZM-100-6)	604.49	25.25
28 46 21 17-1374 SFP-2402 And SFP-2404 2 And 4-Zone Control Panels And Accessories (28		
<small>46 21 17-0982)</small>		
28 46 21 17-1375 EA 120 Volt AC, Two Zone Conventional Fire Alarm Control Panel (Notifier SFP-2402)	1,248.93	403.92
28 46 21 17-1376 EA 120 Volt AC, Four Zone Conventional Fire Alarm Control Panel (Notifier SFP-2404).....	1,362.73	403.92
28 46 21 17-1377 EA 240 Volt AC, Two Zone Conventional Fire Alarm Control Panel (Notifier SFP-2402E).....	1,025.35	126.22
28 46 21 17-1378 EA 240 Volt AC, Four Zone Conventional Fire Alarm Control Panel (Notifier SFP-2404E)	1,160.13	126.22
28 46 21 17-1379 EA Class A Converter Module (Notifier CAC-4).....	298.00	25.25
28 46 21 17-1380 EA Internal Dress Plate, Required For FM And ULC (Notifier DP-4X).....	110.75	15.15
28 46 21 17-1381 EA Remote Zone Annunciator (Notifier RZA-4X).....	167.15	37.87
28 46 21 17-1382 SFP-5UD 5 Zone Control Panels And Accessories (28 46 21 17-0982)		
28 46 21 17-1383 EA 120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFP-5UD)	1,887.56	504.91
28 46 21 17-1384 EA 120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDC).....	3,211.53	378.67
28 46 21 17-1385 EA 240 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDE).....	2,120.55	252.45
28 46 21 17-1386 EA Red, 120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDR).....	2,120.55	252.45
28 46 21 17-1387 EA Class A Converter Module (Notifier N-CAC-5X).....	308.40	25.25
28 46 21 17-1388 EA Red, Trim Ring For NFW2-100, NFW-50, SFB-5UD, SFB-10UD, RP-2001, RP-2002 Cabinet (Notifier TR-CE)	119.48	15.15
28 46 21 17-1389 SFP-10UD 10 Zone Control Panels And Accessories (28 46 21 17-0982)		
28 46 21 17-1390 EA 120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDC).....	3,934.11	504.91
28 46 21 17-1391 EA 240 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDE)	2,942.49	378.67
28 46 21 17-1392 EA 120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFP-10UD).....	2,134.56	504.91
28 46 21 17-1393 EA Red, 120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDR)	3,447.39	504.91
28 46 21 17-1394 EA Four Channel, Dual Line, Stand Alone Fire Alarm Communicator (Fire-Lite 411UDAC)	529.03	75.73
28 46 21 17-1395 Smoke Detectors (28 46 21 17-0982)		
28 46 21 17-1396 EA Low Profile Intelligent Addressable Ionization Smoke Detector (Notifier FSI-851).....	202.76	37.87
28 46 21 17-1397 EA Intelligent Addressable Laser Smoke Detector (Notifier FSL-751).....	331.56	37.87
28 46 21 17-1398 EA Intelligent Addressable Laser Duct Smoke Detector (Notifier FSL-751D).....	1,007.76	37.87
28 46 21 17-1399 EA Remote Test Capable Intelligent Addressable Photo Detector (Notifier NP-100R).....	147.83	37.87
Note: For use with DNR(W) duct detector housing.		
28 46 21 17-1400 EA Filters For Harsh Detector (Notifier RF-FTX)	18.15	
28 46 21 17-1401 EA Key Activated Remote Test Station For Duct Smoke Detector (Notifier RTS151KEY)	123.49	25.25
28 46 21 17-1402 Pull Stations (28 46 21 17-0982)		
28 46 21 17-1403 EA Trim Ring For NBG12 Series Pull Station (Notifier BG12TR).....	25.56	5.05
28 46 21 17-1404 EA One End Tapped For 1/2" Conduit, Aluminum, Surface Mounted Backbox (Notifier BG-2).....	65.44	12.62
28 46 21 17-1405 EA Red, One End Tapped For 1/2" Conduit, Aluminum, Surface Mounted Backbox (Notifier BG-2R).....	56.17	12.62
28 46 21 17-1406 EA Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1)	89.00	25.25
28 46 21 17-1407 EA DPDT Switch, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1F).....	97.38	25.25
28 46 21 17-1408 EA Terminal Switch, DPDT Switch, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG- 1FTS).....	130.31	25.25
28 46 21 17-1409 EA Red Body, Silver Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1R).....	89.00	25.25
28 46 21 17-1410 EA Red Letters, Spring Retainer, Aluminum Single Action Pull Station With Terminal Strip (Notifier BNG-1TS)	101.28	25.25
28 46 21 17-1411 EA Standard "Local" Style Red Letters, Spring Retainer, Aluminum Single Action Pull Station With Terminal Strip (Notifier BNG-1TSL).....	101.28	25.25
28 46 21 17-1412 EA Terminal Strip, Red Body, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1TSR)	101.28	25.25
28 46 21 17-1413 EA Red Letters, Breakglass, Aluminum Single Action Pull Station (Notifier BRG-1)	96.26	25.25
28 46 21 17-1414 EA Red Body, Silver Letters, Breakglass, Aluminum Single Action Pull Station (Notifier BRG-1R).....	103.52	25.25
28 46 21 17-1415 EA Hazardous, Non-Hazardous, Weatherproof, Harsh Locations Fire Alarm Pull Station (Notifier HAZ-WP-PULL).....	752.26	30.29
28 46 21 17-1416 EA Red, Single Action Fire Alarm Pull Station (Notifier NBG-12S).....	78.06	25.25
28 46 21 17-1417 EA Red, Dual Action Fire Alarm Pull Station (Notifier NBG-12).....	81.26	25.25
28 46 21 17-1418 EA Red, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12L).....	86.88	25.25
28 46 21 17-1419 EA Red, Outdoor, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LOB)	188.50	30.29
28 46 21 17-1420 EA Red, Presignal, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LPS).....	116.45	25.25
28 46 21 17-1421 EA Red, Agent Releasing, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LR)	99.55	25.25
28 46 21 17-1422 EA Addressable Manual Dual Action Fire Alarm Pull Station (Notifier NBG-12LX).....	159.44	25.25
28 46 21 17-1423 EA Pull Station Trim Plate For New York City, For Use With All NBG Series Pull Stations (Notifier NY-PLATE).....	46.94	5.05
28 46 21 17-1424 Rate Compensation Heat Detectors (28 46 21 17-0982)		
28 46 21 17-1425 EA 135 Degree F Explosion Proof Rate Compensation Heat Detectors (Edwards Signaling 302-EPM-135).....	153.36	37.87

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21	17-1426	EA	194 Degree F Explosion Proof Rate Compensation Heat Detectors (Edwards Signaling 302-EPM-194).....	153.36	37.87
28 46 21	17-1427		FM Series Door Releases <small>(28 46 21 17-0982)</small>		
28 46 21	17-1428	EA	1/2" Door Holder Spacer (Notifier FM900-50).....	25.74	7.57
28 46 21	17-1429	EA	3/4" Door Holder Spacer (Notifier FM900-75).....	25.74	7.57
28 46 21	17-1430	EA	1" Door Holder Spacer (Notifier FM900-100).....	25.74	7.57
28 46 21	17-1431	EA	Door Holder Extension Kit (Notifier FM900).....	27.06	7.57
28 46 21	17-1432	EA	90 Degree Door Holder Extension Kit (Notifier FM900-Z).....	27.50	7.57
28 46 21	17-1433	EA	12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mounted, Door Holder (Notifier FM980).....	182.47	37.87
28 46 21	17-1434	EA	12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Surface Mounted, Door Holder (Notifier FM996).....	160.42	37.87
28 46 21	17-1435	EA	12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mounted, Concealed Wiring, Door Holder (Notifier FM998).....	160.42	37.87
28 46 21	17-1436		Multicriteria Fire Detector <small>(28 46 21 17-0982)</small>		
28 46 21	17-1437	EA	Intelligent Addressable Combination Multi-Criteria Fire/Carbon Monoxide Detector With Flashscan (Notifier FCO-851).....	242.96	37.87
28 46 21	17-1438	EA	Intelligent Addressable Multicriteria Fire Detector (Notifier FSC-851)..... Note: Detects fire, thermal, photo, CO and IR, with Flashscan.	242.22	37.87
28 46 21	17-1439		Modules <small>(28 46 21 17-0982)</small>		
28 46 21	17-1440	EA	Intelligent Addressable Dual Monitor/Dual Relay Module (Notifier FDRM-1).....	281.64	25.25
28 46 21	17-1441	EA	Addressable Firephone Control Module (Notifier FTM-1).....	178.33	25.25
28 46 21	17-1442		DH Series Door Releases <small>(28 46 21 17-0982)</small>		
28 46 21	17-1443	EA	Semi-Flush, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120FPC).....	155.82	37.87
28 46 21	17-1444	EA	Semi-Flush, Plated Brass, Electromagnetic Door Holder (Notifier DH24120FB).....	164.92	37.87
28 46 21	17-1445	EA	Semi-Flush, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120FD).....	173.47	37.87
28 46 21	17-1446	EA	Surface Mounted, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120SPC).....	171.24	37.87
28 46 21	17-1447	EA	Surface Mounted, Plated Brass, Electromagnetic Door Holder (Notifier DH24120SB).....	178.67	37.87
28 46 21	17-1448	EA	Surface Mounted, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120SPD).....	184.99	37.87
28 46 21	17-1449	EA	Recessed, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120WPC).....	155.82	37.87
28 46 21	17-1450	EA	Recessed, Plated Brass, Electromagnetic Door Holder (Notifier DH24120WB).....	163.81	37.87
28 46 21	17-1451	EA	Recessed, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120WD).....	173.47	37.87
28 46 21	17-1452	EA	Floor Mounted, Single Door, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120GPC1).....	193.91	37.87
28 46 21	17-1453	EA	Floor Mounted, Single Door, Plated Brass, Electromagnetic Door Holder (Notifier DH24120GB1).....	205.80	37.87
28 46 21	17-1454	EA	Floor Mounted, Single Door, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120GPD1).....	219.55	37.87
28 46 21	17-1455	EA	Floor Mounted, Double Door, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120GPC2).....	222.90	37.87
28 46 21	17-1456	EA	Floor Mounted, Double Door, Plated Brass, Electromagnetic Door Holder (Notifier DH24120GB2).....	237.02	37.87
28 46 21	17-1457	EA	Floor Mounted, Double Door, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120GPD2).....	254.11	37.87
28 46 21	17-1458	EA	.5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE.5PC).....	18.24	5.05
28 46 21	17-1459	EA	.5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE.5B).....	18.24	5.05
28 46 21	17-1460	EA	.5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE.5D).....	19.76	5.05
28 46 21	17-1461	EA	1" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1PC).....	18.24	5.05
28 46 21	17-1462	EA	1" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE1B).....	18.24	5.05
28 46 21	17-1463	EA	1" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE1D).....	19.76	5.05
28 46 21	17-1464	EA	1.5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1.5PC).....	19.02	5.05
28 46 21	17-1465	EA	1.5" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1.5APC).....	19.02	5.05
28 46 21	17-1466	EA	1.5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE1.5B).....	19.76	5.05
28 46 21	17-1467	EA	1.5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE1.5D).....	20.62	5.05
28 46 21	17-1468	EA	2" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE2PC).....	20.62	5.05
28 46 21	17-1469	EA	2" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE2APC).....	20.62	5.05
28 46 21	17-1470	EA	2" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE2B).....	21.40	5.05
28 46 21	17-1471	EA	2" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE2D).....	21.40	5.05
28 46 21	17-1472	EA	3" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE3PC).....	21.40	5.05
28 46 21	17-1473	EA	3" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE3B).....	22.25	5.05
28 46 21	17-1474	EA	3" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE3D).....	22.25	5.05
28 46 21	17-1475	EA	4" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE4PC).....	23.03	5.05
28 46 21	17-1476	EA	4" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE4APC).....	23.03	5.05
28 46 21	17-1477	EA	4" Adjustable Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE4AB).....	23.89	5.05
28 46 21	17-1478	EA	4" Adjustable Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE4AD).....	26.30	5.05
28 46 21	17-1479	EA	5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE5PC).....	25.49	5.05
28 46 21	17-1480	EA	5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE5B).....	24.67	5.05
28 46 21	17-1481	EA	5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE5D).....	26.30	5.05
28 46 21	17-1482	EA	Catch Plate, Powder Coated Chrome For Electromagnetic Door Holder (Notifier DHCP).....	25.67	7.57
28 46 21	17-1483	EA	Catch Plate, Plated Brass For Electromagnetic Door Holder (Notifier DHCPB).....	26.45	7.57
28 46 21	17-1484	EA	Catch Plate, Powder Coated Dark Bronze For Electromagnetic Door Holder (Notifier DHCPD).....	28.94	7.57
28 46 21	17-1485	EA	Swivel Base, Powder Coated Chrome, For Electromagnetic Door Holder (Notifier DHSBPC).....	45.10	7.57
28 46 21	17-1486	EA	Swivel Base, Plated Brass, For Electromagnetic Door Holder (Notifier DHSBB).....	47.48	7.57
28 46 21	17-1487	EA	Swivel Base, Powder Coated Dark Bronze, For Electromagnetic Door Holder (Notifier DHSBD).....	49.86	7.57
28 46 21	17-1488	EA	Surface Mounted Backbox, Powder Coated Chrome For Electromagnetic Door Holder (Notifier DHBBPC).....	43.83	12.62
28 46 21	17-1489	EA	Surface Mounted Backbox, Plated Brass For Electromagnetic Door Holder (Notifier DHBBB).....	45.47	12.62
28 46 21	17-1490	EA	Surface Mounted Backbox, Powder Coated Dark Bronze For Electromagnetic Door Holder (Notifier DHBBD).....	48.74	12.62
28 46 21	17-1491	EA	Swivel Base Mounting Drill Fixture For Electromagnetic Door Holder (Notifier DHDF).....	229.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1492	First Command <small>(28 46 21 17-0982)</small>	
28 46 21 17-1493 EA Black, 120 Volt AC, 50 Watt, 25 VRMS, One Class A/B Speaker Circuit, Primary Operating Console (Notifier NFC-50/100).....	5,296.28	631.13
28 46 21 17-1494 EA Black, 220-240 Volt AC, 50 Watt, 25 VRMS, One Class A/B Speaker Circuit, Primary Operating Console (Notifier NFC-50/100E).....	5,347.14	631.13
28 46 21 17-1495 EA Black, 120 Volt AC, 50 Watt, 25 VRMS Or 70 VRMS), Four Class A/B Speaker Circuits, Distributed (Remote) Audio Amplifier (Notifier NFC-50DA).....	1,438.66	50.49
28 46 21 17-1496 EA Black, 220-240 Volt AC, 50 Watt, 25 VRMS Or 70 VRMS), Four Class A/B Speaker Circuits, Distributed (Remote) Audio Amplifier (Notifier NFC-50DAE).....	1,476.81	50.49
28 46 21 17-1497 EA Black, 120 Volt AC, 125 Watt, 25 VRMS, Four Class A/B Speaker Outputs, Distributed Audio Amplifier (Notifier NFC-125DA).....	2,626.19	50.49
28 46 21 17-1498 EA Black, 220-240 Volt AC, 125 Watt, 25 VRMS, Four Class A/B Speaker Outputs, Distributed Audio Amplifier (Notifier NFC-125DAE).....	2,710.95	50.49
28 46 21 17-1499 EA 50 Watt, 25 VRMS Audio Amplifier Module For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-25 Volt).....	636.56	25.25
28 46 21 17-1500 EA 50 Watt, 70 VRMS Audio Amplifier Module For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-70 Volt).....	636.56	25.25
28 46 21 17-1501 EA Circuit Expander Module For NFC-50/125DA(E), Four Additional Class A/B Speaker Circuits (Notifier NFC-CE4).....	350.77	25.25
28 46 21 17-1502 EA Circuit Expander Module For NFC-50/100(E), Six Additional Class A/B Speaker Circuits (Notifier NFC-CE6).....	549.74	25.25
28 46 21 17-1503 EA Standalone Firefighter Telephone System (Notifier NFC-FFT)..... Note: Includes onboard SLC supports up to 24 monitor modules, built-in handset, black.	1,943.85	50.49
28 46 21 17-1504 EA Local Operator Console (Notifier NFC-LOC)..... Note: Includes built-in microphone, message and zone control switches, black.	1,903.16	50.49
28 46 21 17-1505 EA Black, Remote Microphone (Notifier NFC-RM).....	552.58	
28 46 21 17-1506 EA Remote Page Unit (Notifier NFC-RPU)..... Note: Includes built-in microphone, message control switches, black.	1,610.73	50.49
28 46 21 17-1507 EA 70 V Conversion Module For NFC-50/100 (Notifier NFC-XRM-70V).....	268.27	25.25
28 46 21 17-1508 EA Firefighters Phone Jack (Notifier N-FPJ).....	121.06	7.57
28 46 21 17-1509 EA Thumbtatch Option For NFC-LOC And NFC-RPU (Notifier THUMBLTCH).....	35.66	7.57
28 46 21 17-1510 EA Black, Trim Ring For NFC-RPU Cabinet (Notifier TR-6-B).....	111.49	15.15
28 46 21 17-1511	LED Displays <small>(28 46 21 17-0982)</small>	
28 46 21 17-1512 EA 2.1" x 27" Programmable LED Indoor Display (Notifier ALPHA-215).....	1,511.73	30.29
28 46 21 17-1513 EA Instant And Integrated Emergency Notification System (Notifier LEDSIGN-GW).....	2,124.42	40.40
28 46 21 17-1514 EA 4" x 45-1/2" Programmable LED Array, Mass Notification Device (Notifier MEGADOT).....	2,149.00	40.40
28 46 21 17-1515 EA 8 Messages, FACP Interface For LED Arrays (Notifier MNS-CONTROL8).....	2,064.23	40.40
28 46 21 17-1516 EA 16 Messages, FACP Interface For LED Arrays (Notifier MNS-CONTROL16).....	2,886.44	40.40
28 46 21 17-1517 EA LED Sign, Instant And Integrated Emergency Notification System (Notifier OAX2-24V).....	2,191.38	40.40
28 46 21 17-1518	Control Relays <small>(28 46 21 17-0982)</small>	
28 46 21 17-1519 EA Single SPDT Relay With LED With Metal Backbox And Red Plastic Cover (Notifier MR-101/CR).....	56.99	12.62
28 46 21 17-1520 EA Single SPDT Relay With LED With Track Mounting Hardware (Notifier MR-101/T).....	44.43	12.62
28 46 21 17-1521 EA Four Position SPDT Relay With LEDs With Metal Backbox And Red Plastic Cover (Notifier MR-104/CR).....	152.69	25.25
28 46 21 17-1522 EA Four Position SPDT Relay With LED With Track Mounting Hardware (Notifier MR-104/T).....	84.90	12.62
28 46 21 17-1523 EA Four Position DSPDT Relay With LED With Track Mounting Hardware (Notifier MR-204/T).....	100.32	12.62
28 46 21 17-1524 EA 24 Volt DC, 30 Amp Contacts, DPDT Relay In Steel Enclosure (Notifier MR-199X-13C).....	156.78	25.25
28 46 21 17-1525 EA 120 Volt AC, 30 Amp Contacts, DPDT Relay In Steel Enclosure (Notifier MR-199X-14C).....	156.78	25.25
28 46 21 17-1526 EA Single DPDT Relay With LED With Metal Backbox And Red Plastic Cover (Notifier MR-201/CR).....	84.68	25.25
28 46 21 17-1527 EA Single DPDT Relay With LED With Track Mounting Hardware (Notifier MR-201/T).....	47.70	12.62
28 46 21 17-1528 EA Four Position DPDT Relay With LEDs With Metal Backbox And Red Plastic Cover (Notifier MR-204/CR).....	166.07	25.25
28 46 21 17-1529 EA 24 Volt DC / 24 Volt AC / 115 Volt AC, 10 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-1).....	64.02	25.25
28 46 21 17-1530 EA 12/24 Volt DC, 7 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-2).....	64.02	25.25
28 46 21 17-1531 EA 9 To 40 Volt DC, 10 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-4).....	64.02	25.25
28 46 21 17-1532	Gamewell-FCI Fire Control Instruments <small>(28 46 21 17-0982)</small>	
28 46 21 17-1533	7100 Series And NetSOLO® <small>(28 46 21 17-1533)</small>	
28 46 21 17-1534	7100 Compact Analog Addressable Fire Alarm Control Panels <small>(28 46 21 17-1533)</small>	
28 46 21 17-1535 EA Enclosure With Metal Door (Gamewell-FCI 7100-ENCL-M).....	882.26	302.94
28 46 21 17-1536 EA Basic Systems Kit, 2 Signaling Line Circuits (SLC) (Gamewell-FCI BK-7100-2).....	3,714.09	504.91
28 46 21 17-1537 EA Basic Systems Kit, With Digital Alarm Communicator Transmitter (DACT), 2 Signaling Line Circuits (SLC) (Gamewell-FCI BK-7100-2D).....	4,035.77	504.91
28 46 21 17-1538 EA Basic Systems Kit, 2 Signaling Line Circuits (SLC), 240 Volt AC (Gamewell-FCI BK-7100-2-E).....	3,714.09	504.91
28 46 21 17-1539 EA Basic Systems Kit, With Digital Alarm Communicator Transmitter (DACT), 2 Signaling Line Circuits (SLC), 240 Volt AC (Gamewell-FCI BK-7100-2D-E).....	4,035.77	504.91
28 46 21 17-1540 EA Removal And Replacement Of Board For 7100-1D (Gamewell-FCI BSM-7100-1).....	1,092.07	
28 46 21 17-1541 EA Removal And Replacement Of Board For 7100-2 (Gamewell-FCI BSM-7100-1D).....	1,307.27	
28 46 21 17-1542 EA Analog Loop Unit (Gamewell-FCI ALU).....	1,307.27	50.49
28 46 21 17-1543	NetSOLO® Intelligent Network <small>(28 46 21 17-1533)</small>	
28 46 21 17-1544 EA Intelligent Network Interface Module, Fiber Optic (Gamewell-FCI INI-7100-FO)..... Note: Mounted in 7100 panel.	1,448.86	50.49
28 46 21 17-1545 EA Intelligent Network Interface Module, Unshielded Twisted Pair (Gamewell-FCI INI-7100-UTP)..... Note: Mounted in 7100 panel.	1,153.23	50.49
28 46 21 17-1546	Components And Accessories <small>(28 46 21 17-1533)</small>	

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21	17-1547	EA	Remote Serial Annunciator, LCD Display (Gamewell-FCI LCD-7100).....	716.82	37.87
28 46 21	17-1548	EA	Remote LED Driver Module, Outputs For Remote Panel Switches And 33 Remote LEDs (Gamewell-FCI LDM-7100).....	549.52	50.49
28 46 21	17-1549	EA	Fiber Optic Line Driver Module (Gamewell-FCI FLD-1).....	999.19	50.49
28 46 21	17-1550	EA	Class "A" Optional Module For Both Signaling Line Circuits (SLC) (Gamewell-FCI CAOM).....	409.07	50.49
28 46 21	17-1551	EA	Enclosure Box (Gamewell-FCI EN-7100).....	345.82	100.98
28 46 21	17-1552	EA	Serial Printer (Order RJAA To Db25 Connector Separately) (Gamewell-FCI P7200-TR-2).....	1,038.18	25.25
28 46 21	17-1553		E3 Series® Basic System (28 46 21 17-1532)		
28 46 21	17-1554	EA	Intelligent Loop Interface, Mother Board (Gamewell-FCI ILI-MB-E3).....	972.68	50.49
28 46 21	17-1555	EA	Intelligent Loop Interface, Supplemental (Gamewell-FCI ILI-S-E3).....	839.45	50.49
28 46 21	17-1556	EA	Intelligent Loop Interface, Mother Board, XP95 Protocol (Gamewell-FCI ILI95-MB-E3).....	972.68	50.49
28 46 21	17-1557	EA	Intelligent Loop Interface, Supplemental, XP95 Protocol (Gamewell-FCI ILI95-S-E3).....	839.45	50.49
28 46 21	17-1558	EA	LCD Keypad Display (Gamewell-FCI LCD-E3).....	615.40	50.49
28 46 21	17-1559	EA	Power Supply Module (Gamewell-FCI PM-9).....	803.07	50.49
28 46 21	17-1560	EA	Transponder 9 Ampere Power Supply (Gamewell-FCI PM-9 INX).....	677.39	50.49
28 46 21	17-1561	EA	Power Supply And Charger, 120/220 Volt AC (Gamewell-FCI PM-9G 9A).....	664.84	25.25
28 46 21	17-1562	EA	Digital Alarm Communication Transmitter (Gamewell-FCI DACT-E3).....	389.65	50.49
28 46 21	17-1563	EA	Network Repeater, Fiber Optic (Gamewell-FCI RPT-E3-FO).....	1,026.21	50.49
28 46 21	17-1564	EA	Network Repeater, Unshielded Twisted Pair (Gamewell-FCI RPT-E3-UTP).....	861.51	50.49
28 46 21	17-1565	EA	Local Operating Console (Gamewell-FCI 1100-0455).....	576.31	37.87
28 46 21	17-1566	EA	Network Graphic Annunciator (Gamewell-FCI 1100-0505).....	1,840.08	37.87
28 46 21	17-1567	EA	70.7 VRMS Audio Output Series Amplifier Module (Gamewell-FCI AM-50-70).....	737.69	50.49
28 46 21	17-1568	EA	INI-VGE-UTP Classic Enabled Voice Gateway Module (Gamewell-FCI 1100-1326).....	2,226.56	50.49
28 46 21	17-1569	EA	8-1/4" Wide x 10" High x 4-1/2" Deep Cabinet (Gamewell-FCI E3BB-BAA1).....	533.19	100.98
28 46 21	17-1570	EA	C Size, Black, Command Center Enclosure (Gamewell-FCI E3BB-BC/INCC).....	398.13	100.98
28 46 21	17-1571	EA	Double Size, Blank, Inner Door Panel (Gamewell-FCI E3-BP).....	88.01	25.25
28 46 21	17-1572	EA	Programmable Switch Module (Gamewell-FCI ASM-16).....	520.10	50.49
28 46 21	17-1573	EA	LED Driver module (Gamewell-FCI ANU-48).....	520.10	50.49
28 46 21	17-1574	EA	Network Graphic Annunciator (Gamewell-FCI NGA).....	1,543.13	37.87
28 46 21	17-1575		Addressable Devices, Module, Pulls And Accessories (28 46 21 17-1532)		
28 46 21	17-1576		Velociti® Series Sensors And Bases (28 46 21 17-1575)		
28 46 21	17-1577	EA	Analog Addressable Plug-In Ionization Smoke Sensor (Gamewell-FCI ASD-IL2F).....	168.61	37.87
28 46 21	17-1578	EA	Analog Addressable Plug-In Photoelectric Smoke Sensor (Gamewell-FCI ASD-PL2F).....	172.01	37.87
28 46 21	17-1579	EA	Analog Addressable Plug-In Photoelectric Smoke Sensor With 135 Degree F Fixed Temperature Thermal Sensing (Gamewell-FCI ASD-PTL2F).....	182.20	37.87
28 46 21	17-1580	EA	Addressable Plug-In Thermal Sensor, 15 Degree F Rate Of Rise, 135 Degree F (Gamewell-FCI ATD-RL2F).....	141.42	37.87
28 46 21	17-1581	EA	Addressable Plug-In Thermal Sensor, 190 Degree F (Gamewell-FCI ATD-HL2F).....	147.09	37.87
28 46 21	17-1582	EA	Addressable Plug-In Thermal Sensor, 135 Degree F (Gamewell-FCI ATD-L2F).....	141.42	37.87
28 46 21	17-1583	EA	Addressable Plug-In Multi-Criteria Analog Sensor (Gamewell-FCI MCS-ACCLIMATE2F).....	205.99	37.87
28 46 21	17-1584	EA	Analog Addressable Laser Smoke Sensor, Low Profile (Gamewell-FCI ASD-LS).....	443.85	37.87
28 46 21	17-1585	EA	Analog Addressable Low Flow Photoelectric Smoke Duct Detector Without Relay (Gamewell-FCI ADPF).....	381.07	63.12
28 46 21	17-1586	EA	Analog Addressable Low Flow Photoelectric Smoke Duct Detector With Relay (Gamewell-FCI ADPRF).....	426.38	63.12
28 46 21	17-1587	EA	Removal And Replacement Of Duct Detector Board (Gamewell-FCI ADP-F-SB).....	213.44	
28 46 21	17-1588	EA	Flanged Mounting Base, For Use With Analog Sensor Or Velociti Sensors (Gamewell-FCI ADB-FLF).....	43.37	12.62
28 46 21	17-1589	EA	Harsh Environment Analog Addressable Photoelectric Smoke Sensor (Gamewell-FCI ASD-FILTREX-F).....	477.83	37.87
28 46 21	17-1590	EA	Flanged Mounting Base, For Use With ASD-FILTREX Or ASD-FILTREX-F (Gamewell-FCI ADB-FILTREXF).....	96.04	12.62
28 46 21	17-1591	EA	Addressable Single-Ended Reflected Beam Smoke Sensor (Gamewell-FCI ABD-2F).....	1,680.57	75.73
28 46 21	17-1592		Velociti® Series Modules And Pull Station (28 46 21 17-1575)		
28 46 21	17-1593	EA	Style "B", Class "B" Addressable Monitor Module (Gamewell-FCI AMM-2F).....	122.41	25.25
28 46 21	17-1594	EA	Dual Style "B", Class "B" Addressable Monitor Module (Gamewell-FCI AMM-2IF).....	194.34	25.25
28 46 21	17-1595	EA	Style "D", Class "A" Addressable Monitor Module (Gamewell-FCI AMM-4F).....	133.74	25.25
28 46 21	17-1596	EA	Subloop Style "D", Class "A" Addressable Monitor Module (Gamewell-FCI AMM-4SF).....	186.41	25.25
28 46 21	17-1597	EA	Addressable Output Relay Control Module (Gamewell-FCI AOM-2RF).....	156.39	25.25
28 46 21	17-1598	EA	Addressable Output Supervised Module (Gamewell-FCI AOM-2SF).....	162.06	25.25
28 46 21	17-1599	EA	Addressable Double Action Station, With AMM-2SF Mini-Mod (Gamewell-FCI MS-7AF).....	229.54	50.49
28 46 21	17-1600	EA	Addressable Single Action Pull Station (Gamewell-FCI MS-7ASF).....	167.15	25.25
28 46 21	17-1601	EA	Telephone Filters (Gamewell-FCI AOM-TEL-FL).....	27.09	5.05
28 46 21	17-1602		Components And Accessories (28 46 21 17-1575)		
28 46 21	17-1603	EA	Remote LED Annunciator Alarm (Gamewell-FCI RA400Z).....	68.72	20.19
			Note: Mounts on single gang box.		
28 46 21	17-1604	EA	Up To 2' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-1.5).....	34.35	10.10
28 46 21	17-1605	EA	>2' To 4' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-3).....	36.61	10.10
28 46 21	17-1606	EA	>4' To 8' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-5).....	43.94	12.62
28 46 21	17-1607	EA	>8' To 10' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-10).....	69.93	15.15
28 46 21	17-1608	EA	Remote Test Station With LED Alarm And Magnet Test Switch (Gamewell-FCI RTS451).....	103.83	20.19
			Note: Mounts on single gang box.		
28 46 21	17-1609		Fixed And Rate of Rise Heat Detectors (28 46 21 17-1575)		
28 46 21	17-1610	EA	135 Degree F Fixed Temperature And Rate Of Rise Heat Detector (Gamewell-FCI 5601P).....	94.99	37.87
28 46 21	17-1611	EA	194 Degree F Fixed Temperature And Rate Of Rise Heat Detector (Gamewell-FCI 5602).....	94.99	37.87
28 46 21	17-1612	EA	135 Degree F Fixed Temperature Heat Detector (Gamewell-FCI 5603).....	93.35	37.87



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1613 EA 194 Degree F Fixed Temperature Heat Detector (Gamewell-FCI 5604).....	93.35	37.87
28 46 21 17-1614 NAC Expander/Power Supply (28 46 21 17-1575)		
28 46 21 17-1615 EA FireForce 8 NAC Expander/Power Supply, 12/24 Volt DC, 8 Amperes, 4 Notification Appliance Circuits, Built-in Synchronization Protocols For Gamewell, Wheelock, Gentex, Faraday, And System Sensor (Gamewell-FCI FF8).....	1,623.37	403.92
28 46 21 17-1616 EA 6A Supplementary Notification Appliance Circuit Power Supply With Sync (Gamewell-FCI GFPS-6).....	1,408.17	403.92
28 46 21 17-1617 EA 9A Supplementary Notification Appliance Circuit Power Supply With Sync (Gamewell-FCI GFPS-9).....	1,515.77	403.92
28 46 21 17-1618 Batteries And Accessories (28 46 21 17-1532)		
28 46 21 17-1619 EA B-17R, 12 Volt DC, 17 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2010A).....	245.31	25.25
28 46 21 17-1620 EA B-55R, 12 Volt DC, 55 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2710A).....	614.56	25.25
28 46 21 17-1621 EA B-7R, 12 Volt DC, 7 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2311A).....	132.04	25.25
28 46 21 17-1622 EA BC-1, Battery Cabinet, Beige (Gamewell-FCI 1100-0653).....	305.99	50.49
28 46 21 17-1623 EA BC-1R, Battery Cabinet, Red (Gamewell-FCI 1100-0654).....	305.99	50.49
28 46 21 17-1624 EA 12" High x 12" Wide x 24" Length Vented Steel Battery Cabinet With Hinged Key Lockable Cover (Gamewell-FCI GW70970).....	273.15	50.49
28 46 21 17-1625 Electronic Door Holders (28 46 21 17-1532)		
Note: Rixson products.		
28 46 21 17-1626 EA XK-996, Door Holder Extender Kit, 1-1/2" Spacer (Gamewell-FCI 140-30000).....	43.40	5.05
28 46 21 17-1627 EA FM-980, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mount Door Holder (Gamewell-FCI 140-90000).....	347.57	37.87
28 46 21 17-1628 EA FM-981, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mount Holder For Double Doors (Gamewell-FCI 140-90001).....	471.03	37.87
28 46 21 17-1629 EA FM-990, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Low Profile Mount Door Holder (Gamewell-FCI 140-90002).....	224.56	37.87
28 46 21 17-1630 EA FM-996, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Surface Mount Door Holder (Gamewell-FCI 140-90003).....	214.37	37.87
28 46 21 17-1631 EA FM-997, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mount Door Holder (Gamewell-FCI 140-90004).....	224.56	37.87
28 46 21 17-1632 EA FM-998, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mount Door Holder With Concealed Wiring (Gamewell-FCI 140-90005).....	224.11	37.87
28 46 21 17-1633 SpectrAlert® Advance Wall Mount 2-Wire Horn/Strobes (28 46 21 17-1532)		
See CSI section 28 46 21 17-1821 for devices.		
28 46 21 17-1634 SpectrAlert® Advance Accessories (28 46 21 17-1532)		
See CSI section 28 46 21 17-1821 for backboxes, 28 46 21 17-2081 for backboxes.		
28 46 21 17-1635 Fire Alarm Programming (28 46 21 17-1532)		
Note: For device replacement projects only. Do not use these tasks on projects where a fire alarm panel is replaced.		
28 46 21 17-1636 EA Program And Test Up To 5 Fire Alarm Devices.....	500.00	
28 46 21 17-1637 EA Program And Test >5 To 20 Fire Alarm Devices.....	1,000.00	
28 46 21 17-1638 EA Program And Test >20 To 50 Fire Alarm Devices.....	2,000.00	
28 46 21 17-1639 Fire-Lite Fire Alarm (28 46 21 17-0981)		
28 46 21 17-1640 Addressable Control Panels (28 46 21 17-1639)		
28 46 21 17-1641 EA 25 Point Intelligent Control (Fire Lite MS-25).....	1,661.78	504.91
28 46 21 17-1642 EA 50 Point Intelligent Control (Fire Lite MS-9050UD).....	1,820.41	504.91
28 46 21 17-1643 EA 198-Point Intelligent Control (Fire Lite MS-9200UDLS).....	2,569.81	504.91
28 46 21 17-1644 EA 636-Point Intelligent Control (Fire Lite MS-9600LS).....	3,770.35	504.91
28 46 21 17-1645 EA 636-Point Intelligent Control (Fire Lite MS-9600UDLS).....	3,618.99	504.91
28 46 21 17-1646 EA IP And 4G Cellur Fire Alarm Communicator For Fire Alarm Control Panel (Fire-Lite IPGSM-4G).....	472.76	
28 46 21 17-1647 Silent Knight Fire Alarm (28 46 21 17-0981)		
28 46 21 17-1648 EA Addressable Fire Alarm Control Panel With Integrated Emergency Communication System (Silent Knight 5820XL-EVS).....	4,053.67	252.45
28 46 21 17-1649 EA Supervised Remote Command Unit (Silent Knight EVS-RCU).....	1,683.37	151.47
28 46 21 17-1650 EA 50 Watt Amplifier (Silent Knight EVS-50W).....	1,180.32	100.98
28 46 21 17-1651 EA 125 Watt Amplifier (Silent Knight EVS-125W).....	2,100.06	100.98
28 46 21 17-1652 EA Voice Evacuation System (Silent Knight SKE-450).....	2,008.90	100.98
28 46 21 17-1653 EA Fire Fighters Telephone (Silent Knight SK-FFT).....	1,667.05	100.98
28 46 21 17-1654 EA Multi-Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5820XL).....	1,707.78	151.47
28 46 21 17-1655 EA Single Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5808).....	1,269.84	100.98
28 46 21 17-1656 EA Single Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5700).....	971.22	100.98
28 46 21 17-1657 EA Hybrid Conventional Fire Alarm Control/Communicator System (Silent Knight 5600).....	837.79	100.98
28 46 21 17-1658 EA Combination Fire And CO Detector (Silent Knight SK-FIRE-CO).....	267.43	37.87
28 46 21 17-1659 EA Photoelectric Detector (Silent Knight SK-PHOTO).....	152.90	37.87
28 46 21 17-1660 EA Photoelectric Thermal Detector (Silent Knight SK-PHOTO-T).....	160.87	37.87
28 46 21 17-1661 EA Ionization Smoke Detector (Silent Knight SK-ION).....	161.77	37.87
28 46 21 17-1662 EA 135 Degree Fixed Temperature Detector (Silent Knight SK-HEAT).....	141.17	37.87
28 46 21 17-1663 EA 190 Degree Fixed Temperature Detector (Silent Knight SK-HEAT-HT).....	148.44	37.87
28 46 21 17-1664 EA 135 Degree Fixed Temperature Rate-of-Rise Detector (Silent Knight SK-HEAT-ROR).....	151.13	37.87
28 46 21 17-1665 EA Sounder Base (Silent Knight B200SR).....	90.87	12.62
28 46 21 17-1666 EA Intelligent Sounder Base (Silent Knight B200S).....	96.19	12.62
28 46 21 17-1667 EA Isolator Base (Silent Knight B224BI).....	75.81	12.62
28 46 21 17-1668 EA Relay Base (Silent Knight B224RB).....	76.68	12.62
28 46 21 17-1669 EA Multi-Criteria Photoelectric Detector With Thermal Sensing (Silent Knight SK-ACCLIMATE).....	164.55	37.87



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1670 EA Photoelectric Duct Detector (Silent Knight SK-DUCT)	264.09	37.87
28 46 21 17-1671 EA Single-Ended Reflected Beam Smoke Detector (Silent Knight SK-BEAM)	928.73	37.87
28 46 21 17-1672 EA Single-Ended Reflected Beam Smoke Detector (Silent Knight SK-BEAM-T)	1,060.58	37.87
28 46 21 17-1673 EA Dual Monitor Module (Silent Knight SK-MONITOR-2)	195.30	37.87
28 46 21 17-1674 EA Supervised Control Module (Silent Knight SK-CONTROL)	162.83	37.87
28 46 21 17-1675 EA Six Circuit Supervised Control Module (Silent Knight SK-CONTROL-6)	545.73	50.49
28 46 21 17-1676 EA Relay Control Module (Silent Knight SK-RELAY)	139.31	25.25
28 46 21 17-1677 EA Six Relay Control Module (Silent Knight SK-RELAY-6)	527.60	50.49
28 46 21 17-1678 EA Zone Interface Module (Silent Knight SK-ZONE)	166.25	37.87
28 46 21 17-1679 EA Six Zone Interface Module (Silent Knight SK-ZONE-6)	631.38	50.49
28 46 21 17-1680 EA Monitor Module (Silent Knight SK-MONITOR)	143.13	37.87
28 46 21 17-1681 EA 10 Input Monitor Module (Silent Knight SK-MON-10)	611.62	50.49
28 46 21 17-1682 EA Monitor Module (Silent Knight SK-MINIMON)	133.39	37.87
28 46 21 17-1683 EA Fault Isolator Module (Silent Knight SK-ISO)	148.44	37.87
28 46 21 17-1684 EA Addressable Heat Sensor (Silent Knight SD505-AHS)	145.80	37.87
28 46 21 17-1685 EA Analog Ionization Smoke Detector (Silent Knight SD505-AIS)	158.36	37.87
28 46 21 17-1686 EA Addressable Photoelectric Smoke Detector (Silent Knight SD505-APS)	148.44	37.87
28 46 21 17-1687 EA 6" Addressable Sounder Base (Silent Knight SD505-6SB)	111.29	12.62
28 46 21 17-1688 EA 6" Addressable Relay Base (Silent Knight SD505-6RB)	105.06	12.62
28 46 21 17-1689 EA 6" Isolator Base (Silent Knight SD505-6IB)	95.32	12.62
28 46 21 17-1690 EA Addressable Input Module (Silent Knight SD500-AIM)	147.57	37.87
28 46 21 17-1691 EA Addressable Notification Module (Silent Knight SD500-ANM)	181.62	37.87
28 46 21 17-1692 EA Addressable Relay Module (Silent Knight SD500-ARM)	162.83	37.87
28 46 21 17-1693 EA SLC Annunciator Driver Module (Silent Knight SD500-LED)	630.81	75.73
28 46 21 17-1694 EA Loop Isolation Module (Silent Knight SD500-LIM)	153.77	37.87
28 46 21 17-1695 EA Addressable Mini Input Module (Silent Knight SD500-MIM)	120.56	25.25
28 46 21 17-1696 EA Single Action Addressable Pull Station (Silent Knight SD500-PS)	154.68	25.25
28 46 21 17-1697 EA Dual Action Addressable Pull Station (Silent Knight SD500-PSDA)	147.85	25.25
28 46 21 17-1698 EA Back Box (Silent Knight SK-PSSMBB)	69.00	20.19
28 46 21 17-1699 EA Smoke Detector Module (Silent Knight SD500-SDM)	171.37	37.87
28 46 21 17-1700 EA Addressable Smoke 4" Detector Base (Silent Knight SD505-4AB)	41.47	12.62
28 46 21 17-1701 EA Addressable Smoke 6" Detector Base (Silent Knight SD505-6AB)	41.47	12.62
28 46 21 17-1702 EA Addressable Duct Housing (Silent Knight SD505-DUCT)	275.77	37.87
28 46 21 17-1703 EA Addressable Duct Housing With Built-In Relay (Silent Knight SD505-DUCTR)	357.45	37.87
28 46 21 17-1704 EA Addressable Duct Detector Test Switch (Silent Knight SD505-DTS)	152.00	37.87
28 46 21 17-1705 EA Intelligent Power Module (Silent Knight 5895XL)	908.63	100.98
28 46 21 17-1706 EA Addressable Power Supply (Silent Knight 5496)	634.10	75.73
28 46 21 17-1707 EA Relay Interface Board (Silent Knight 5883)	242.19	25.25
28 46 21 17-1708 EA Remote LED Annunciator (Silent Knight 5865-3)	497.95	50.49
28 46 21 17-1709 EA Remote LED Annunciator (Silent Knight 5865-4)	563.55	50.49
28 46 21 17-1710 EA Remote LCD Annunciator (Silent Knight SK-5860)	536.91	75.73
28 46 21 17-1711 EA Serial/Parallel Printer Interface (Silent Knight 5824)	345.55	25.25
28 46 21 17-1712 EA LED Input/Output Module (Silent Knight / IntelliKnight 5880)	406.81	37.87
28 46 21 17-1713 EA Addressable Pull Station (Silent Knight SK-Pull-DA/SA)	147.85	25.25
28 46 21 17-1714 EA Digital Fire Communicator with Cabinet (Silent Knight SK-5104)	513.85	75.73
28 46 21 17-1715 EA Communicator (Silent Knight IPGSM-4G)	753.39	50.49
28 46 21 17-1716 EA Ten Zone Conventional Fire Alarm Control Panel (Silent Knight SK-5208)	1,193.34	100.98
28 46 21 17-1717 EA 10 Zone Expander (Silent Knight SK-5217)	333.89	25.25
28 46 21 17-1718 EA Remote Annunciator (Silent Knight SK-5235)	337.69	50.49
28 46 21 17-1719 EA Status Display Module (Silent Knight 5280)	99.28	25.25
28 46 21 17-1720 EA Serial/Parallel Module (Silent Knight 5824)	396.04	50.49
28 46 21 17-1721 EA Four Zone Conventional Fire Alarm Control Panel (Silent Knight SK-4)	684.60	100.98
28 46 21 17-1722 EA Four Zone Conventional Fire Alarm Control Panel (Silent Knight SK-4E)	697.78	100.98
28 46 21 17-1723 EA Dress Panel (Silent Knight SK-DP2/4)	130.30	25.25
28 46 21 17-1724 EA Class A Converter (Silent Knight SK-CAC4)	335.78	37.87
28 46 21 17-1725 EA Transmitter Module (Silent Knight SK-4XTM)	179.92	37.87
28 46 21 17-1726 EA LED Interface Module (Silent Knight SK-4XLM)	166.25	37.87
28 46 21 17-1727 EA 110 Volt AC, 3-6 Amperes, Transformer (Silent Knight SK-XRM24)	168.34	25.25
28 46 21 17-1728 EA Remote Annunciator (Silent Knight SK-RZA4)	166.25	37.87
28 46 21 17-1729 EA Zone Relay Module (Silent Knight SK-4XZM)	178.21	37.87
28 46 21 17-1730 EA Two Zone Conventional Fire Alarm Control Panel (Silent Knight SK-2)	594.00	100.98
28 46 21 17-1731 EA Remote Battery Box Accessory Cabinet (Silent Knight RBB)	147.85	25.25
28 46 21 17-1732 EA Manual Pull Station (single action) (Silent Knight PS-SATK)	83.56	25.25
28 46 21 17-1733 EA Manual Pull Station (dual action) (Silent Knight PS-DATK)	90.16	25.25
28 46 21 17-1734 EA Manual Pull Station (dual action) (Silent Knight PS-DA)	88.31	25.25
28 46 21 17-1735 EA Dual Action Manual Pull Station, Hex Key (Silent Knight PS-DAH)	79.26	25.25
28 46 21 17-1736 EA Dual Action Listed Outdoor Manual Pull Station With Black Box (Silent Knight PS-DALOB)	173.32	30.29
28 46 21 17-1737 EA 6 Amperes, 24 Volt DC, Distributed Power Module (with cabinet) (Silent Knight SK-5495)	596.22	75.73
28 46 21 17-1738 EA 9 Amperes, 24 Volt DC, Distributed Power Module (with cabinet) (Silent Knight SK-5499)	668.70	75.73
28 46 21 17-1739 EA Detector (Silent Knight IDP-PhotoR)	213.98	37.87
28 46 21 17-1740 EA Monitoring Module (Silent Knight IDP)	214.10	37.87
28 46 21 17-1741 EA Cabinet (Silent Knight SK-5207)	297.00	75.73
28 46 21 17-1742 EA Innovair IDP-Product (Silent Knight Innovair IDP-Pduct)	414.31	25.25
28 46 21 17-1743 EA I/O Input-Output Module (Silent Knight SK-2880)	559.85	25.25
28 46 21 17-1744 EA Remote Annunciator (Silent Knight RA-2000)	1,606.77	75.73
28 46 21 17-1745 EA Power Supply (Silent Knight 5195/96)	996.43	25.25
28 46 21 17-1746 EA 8 Zone Expander (Silent Knight SK-5210)	778.14	25.25
28 46 21 17-1747 EA LCD Remote Annunciator (Silent Knight SK-5230)	321.02	50.49
28 46 21 17-1748 EA Ionization Smoke Detector (Silent Knight SK-ION)	161.77	37.87
28 46 21 17-1749 EA Addressable Relay Module (Silent Knight IDP-Relay)	184.88	37.87
28 46 21 17-1750 EA Telephone Line Monitor (Silent Knight SK-7150)	115.98	25.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1751 EA Serial Driver Board (Silent Knight SK-2884)	212.03	25.25
28 46 21 17-1752 EA Smoke Detector Base (Silent Knight IDP-6AB)	61.63	12.62
28 46 21 17-1753 EA Mini Input Module (Silent Knight IDP-MINIMON)	159.64	25.25
28 46 21 17-1754 EA Status Display Module (Silent Knight SK-4180)	574.40	25.25
28 46 21 17-1755 EA 8-Channel Digital Communicator (Silent Knight SK-1420)	341.55	25.25
28 46 21 17-1756 EA Serial Parallel Module (Silent Knight SK-4824)	312.44	25.25
28 46 21 17-1757 EA Power Supply (Silent Knight SK-5197 / SK-5198)	1,141.97	25.25
28 46 21 17-1758 EA 4-Zone Fire Alarm Control Panel, Complete (Silent Knight SK-5204)	1,948.33	100.98
28 46 21 17-1759 EA Intelligent Ionization Smoke Detector (Silent Knight IDP-ION)	221.26	37.87
28 46 21 17-1760 EA Intelligent Photoelectric Smoke Detector (Silent Knight IDP-Photo)	184.88	37.87
28 46 21 17-1761 EA Fire Slave Communicator Dialer (Silent Knight SK-5128)	367.83	25.25
28 46 21 17-1762 EA Intelligent Power Module (with cabinet) (Silent Knight SK-5496)	634.10	75.73
28 46 21 17-1763 Alerton <small>(28 46 21 17)</small>		
28 46 21 17-1764 EA UL Listed Surge Protector In CHS-M3 Or CPU2-640 Chassis (Alerton ESD-100)	403.13	7.57
28 46 21 17-1765 Cooper Fire Alarm <small>(28 46 21 17)</small>		
28 46 21 17-1766 EA Single Circuit Class A / Multiple B, 12 Or 24 Volt DC, Sync Module (Cooper DSM-12/24-R)	141.91	25.25
28 46 21 17-1767 EA Red Lens, 21 Joules, 24 Volt DC, Class I, Div 1, Groups C, D, NEMA 4X And 6, Strobe (Cooper EP109205-001)	3,159.07	42.91
28 46 21 17-1768 EA Red, 100 dB, 24 Volt DC, Class I, Div 1, Groups C, D, NEMA 4X, Multitone Horn (Cooper EP109206-002)	4,163.76	42.91
28 46 21 17-1769 EA Red Lens, 5 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-001)	1,526.52	50.49
28 46 21 17-1770 EA Clear Lens, 5 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-002)	1,535.45	50.49
28 46 21 17-1771 EA Amber Lens, 5 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-007)	1,535.45	50.49
28 46 21 17-1772 EA Red Lens, 10 Joules, 24 Volt DC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-001)	1,140.27	50.49
28 46 21 17-1773 EA Amber Lens, 10 Joules, 120 Volt AC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-003)	1,140.27	50.49
28 46 21 17-1774 EA Red Lens, 10 Joules, 120 Volt AC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-004)	1,140.27	50.49
28 46 21 17-1775 EA Amber Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Backstrap, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-005)	1,535.45	50.49
28 46 21 17-1776 EA Amber Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Pendant Mounted, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-006)	1,535.45	50.49
28 46 21 17-1777 EA Red Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Backstrap, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-007)	1,535.45	50.49
28 46 21 17-1778 EA Red Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Pendant Mounted, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-008)	1,535.45	50.49
28 46 21 17-1779 EA Red Lens, 15 Joules, 24 Volt DC, Wire Guard, Blackstrap, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109203-002)	1,535.45	50.49
28 46 21 17-1780 EA Red Lens, 21 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-001)	1,766.53	50.49
28 46 21 17-1781 EA Red Lens, 21 Joules, 24 Volt DC, Black Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-003)	1,641.50	50.49
28 46 21 17-1782 EA Amber Lens, 21 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-005)	1,641.50	50.49
28 46 21 17-1783 EA Red Lens, 21 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-006)	1,641.50	50.49
28 46 21 17-1784 Light Engineered Displays Message Boards <small>(28 46 21 17)</small>		
28 46 21 17-1785 EA Two Message Sign, "Announcement" And "Evacuate" (LED SP-2/MNS)	659.86	30.29
28 46 21 17-1786 EA Four Message Sign, "Fire", "Weather", "Announcement", "E Voltuate" (LED SP-4)	582.73	30.29
28 46 21 17-1787 STI Fire Alarm <small>(28 46 21 17)</small>		
28 46 21 17-1788 EA Pull Station Polycarbonate Cover, Semi Flush With Horn (STI-1100)	132.38	15.15
Note: Includes 9 Volt DC self contained battery.		
28 46 21 17-1789 EA Surface Mounted, Manual Pull Station Polycarbonate Cover With Horn (STI-1130)	144.29	15.15
28 46 21 17-1790 EA Flush Mounted, Manual Pull Station Polycarbonate Cover (STI-1200)	86.03	15.15
28 46 21 17-1791 EA Surface Mounted, Horn Strobe Polycarbonate Cover (STI-1210D)	86.75	15.15
Note: For surface mounted horn strobes.		
28 46 21 17-1792 EA Flush Mounted, Horn Strobe Polycarbonate Cover (STI-1210E)	77.37	15.15
28 46 21 17-1793 EA Strobe Damage Stopper And Open Backbox With Conduit Knockout (STI-1221D)	86.75	15.15
Note: For surface mounted strobe.		
28 46 21 17-1794 EA Strobe Damage Stopper And Open Backbox, Semi Flush (STI-1221E)	70.33	15.15
28 46 21 17-1795 EA NEMA 4X Rated Polycarbonate Dome Cover (STI-1229)	162.32	15.15
28 46 21 17-1796 EA Surface Mounted, Manual Pull Station Polycarbonate Cover (STI-1230)	108.93	15.15
Note: For surface mounted pull stations.		
28 46 21 17-1797 EA Backplate For Polycarbonate Cover (STI-1280)	53.09	15.15
28 46 21 17-1798 EA Conduit Gasket For Polycarbonate Cover (STI-3003)	38.95	15.15
28 46 21 17-1799 EA Conduit Spacer For Surface Mounted Polycarbonate Cover (STI-3100)	53.88	15.15
28 46 21 17-1800 EA Weather Resistant, Surface Mounted, Manual Pull Station Polycarbonate Cover (STI-3150)	121.56	15.15
28 46 21 17-1801 EA 8.5" x 6.5" x 4.6", Thumb Lock, Lockable Enclosure (STI-7511A)	101.00	15.15
28 46 21 17-1802 EA Flush Mounted, Smoke Detector Polycarbonate Cover (STI-8100)	75.02	15.15
28 46 21 17-1803 EA Flush Mounted, Low Profile, Smoke Detector Steel Wire Cover (STI-9601)	71.05	15.15
28 46 21 17-1804 EA Surface Mounted, Low Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9602)	68.71	15.15
28 46 21 17-1805 EA Flush Mounted, Mini Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9604)	71.05	15.15

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21	17-1806	EA	Surface Mounted, Mini Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9605).....	68.71	15.15
28 46 21	17-1807	EA	Flush Mounted, High Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9609).....	71.05	15.15
28 46 21	17-1808	EA	Surface Mounted, High Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9610).....	68.71	15.15
28 46 21	17-1809	EA	Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9625).....	133.10	15.15
28 46 21	17-1810	EA	White, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9705).....	63.98	15.15
28 46 21	17-1811	EA	Red, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9705-R).....	78.29	15.15
28 46 21	17-1812	EA	Flush Mounted, Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9706).....	96.31	15.15
28 46 21	17-1813	EA	Surface Mounted, Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9707).....	96.31	15.15
28 46 21	17-1814	EA	White, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9708).....	70.33	15.15
28 46 21	17-1815	EA	Red, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9708-R).....	70.33	15.15
28 46 21	17-1816	EA	White, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9711).....	63.98	15.15
28 46 21	17-1817	EA	Flush Mounted, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9713).....	70.33	15.15
28 46 21	17-1818	EA	White, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9714).....	70.33	15.15
28 46 21	17-1819	EA	Yellow, "High Threat", Push Button Station (STI SS-2201).....	91.90	7.57
28 46 21	17-1820	EA	Gasket Kit For STI Covers (STI SUB-121).....	39.42	
28 46 21	17-1821		System Sensor Fire Alarm (28 46 21 17)		
28 46 21	17-1822		Smoke Detectors (28 46 21 17-1821)		
28 46 21	17-1823	EA	Beam Detector Heater Kit (System Sensor BEAMHK).....	43.18	5.05
28 46 21	17-1824	EA	Reflectors, Beam Detector Heater Kit (System Sensor BEAMHKR).....	175.85	5.05
			Note: Four used with long range kit.		
28 46 21	17-1825	EA	Projected Beam Smoke Detector Long Range Kit (System Sensor BEAMLRK).....	230.31	50.49
28 46 21	17-1826	EA	Wall Or Ceiling Mounted, Projected Beam Smoke Detector Multi-Mount Kit (System Sensor BEAMMMK).....	173.45	50.49
28 46 21	17-1827	EA	Projected Beam Smoke Detector Surface Mounted Kit (System Sensor BEAMSMK).....	144.46	50.49
28 46 21	17-1828	EA	Two Wire, Photoelectric Smoke Detector (System Sensor 2W-B).....	133.07	37.87
28 46 21	17-1829	EA	Two Wire, Photoelectric Smoke Detector With Thermal Sensor (System Sensor 2WT-B).....	129.80	37.87
28 46 21	17-1830	EA	Two Wire, Photoelectric Smoke Detector With Thermal Sensor And Built In Sounder (System Sensor 2WTA-B).....	139.25	37.87
28 46 21	17-1831	EA	Four Wire, Photoelectric Smoke Detector (System Sensor 4W-B).....	135.06	37.87
28 46 21	17-1832	EA	Four Wire, Photoelectric Smoke Detector With Thermal Sensor, 12/24 Volt DC (System Sensor 4WT-B).....	137.23	37.87
28 46 21	17-1833	EA	Four Wire, Photoelectric Smoke Detector With Thermal Sensor And Built In Sounder (System Sensor 4WTA-B).....	142.33	37.87
28 46 21	17-1834	EA	Four Wire, Photoelectric Smoke Detector With Isolated Thermal Sensor, Built In Sounder, Form C Relay (System Sensor 4WITAR-B).....	196.29	37.87
28 46 21	17-1835	EA	Photoelectric, Low-Profile, Smoke Detector Head (System Sensor 2151).....	115.24	25.25
28 46 21	17-1836	EA	Photoelectric With Thermal Sensor, Low-Profile, Smoke Detector Head (System Sensor 2151T).....	130.87	25.25
			Note: Requires B100 series base.		
28 46 21	17-1837	EA	Heavy Duty Multi-Mount Kit (System Sensor 6500-MMK).....	205.12	12.62
28 46 21	17-1838	EA	Surface-Mount Kit For Use With Beam1224 And FSB-200 When Using 6500-MMK Heavy Duty Multi-Mount Kit (System Sensor 6500-SMK).....	73.00	12.62
28 46 21	17-1839		Duct Smoke Detectors (28 46 21 17-1821)		
28 46 21	17-1840	EA	Two Wire Conventional Photoelectric Duct Detector (Includes 2151 Detector) (System Sensor D2).....	270.46	37.87
28 46 21	17-1841	EA	Four Wire Conventional Photoelectric Duct Detector (Includes 2D51 Detector) (System Sensor D4120).....	268.23	37.87
28 46 21	17-1842	EA	Watertight, Four Wire Conventional Photoelectric Duct Detector (Includes 2D51 Detector) (System Sensor D4120W).....	349.70	42.91
28 46 21	17-1843	EA	Sensor Only, Four Wire Conventional Photoelectric Duct Detector (System Sensor D4S).....	176.84	25.25
28 46 21	17-1844	EA	Duct Accessory Coil (Required On DNR If A Remote Test Station Is Used) (System Sensor DCOIL).....	48.23	7.57
28 46 21	17-1845	EA	Intelligent, Non-Relay, Duct Smoke Detector Housing (System Sensor DNR).....	151.15	20.19
28 46 21	17-1846	EA	Watertight, Intelligent, Non-Relay, Duct Smoke Detector Housing (System Sensor DNRW).....	242.99	25.25
28 46 21	17-1847	EA	1' Steel Sampling Tube (System Sensor DST1).....	29.78	10.10
28 46 21	17-1848	EA	1.5' Steel Sampling Tube (System Sensor DST1.5).....	32.31	10.10
28 46 21	17-1849	EA	3' Steel Sampling Tube (System Sensor DST3).....	36.13	10.10
28 46 21	17-1850	EA	5' Steel Sampling Tube (System Sensor DST5).....	43.33	12.62
28 46 21	17-1851	EA	10' Steel Sampling Tube (System Sensor DST10).....	67.38	15.15
28 46 21	17-1852	EA	1", Steel, Exhaust Tube Duct (System Sensor ETX).....	33.35	10.10
28 46 21	17-1853	EA	Remote Test Station For Duct Smoke Detector (System Sensor RTS151).....	72.82	12.62
28 46 21	17-1854	EA	Detector Installation/Removal Tool Kit For 700 Series Detectors (System Sensor XR2).....	149.02	
28 46 21	17-1855	EA	Detector Installation/Removal Tool Kit For 800 And 355 Series Detectors (System Sensor XR2B).....	160.17	
28 46 21	17-1856		Heat Detectors (28 46 21 17-1821)		
28 46 21	17-1857	EA	Single Circuit, 135 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5601P).....	94.26	37.87
28 46 21	17-1858	EA	Single Circuit, 194 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5602).....	93.35	37.87
28 46 21	17-1859	EA	Dual Circuit, 135 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5621).....	106.58	37.87
28 46 21	17-1860	EA	Dual Circuit, 194 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5622).....	106.58	37.87
28 46 21	17-1861		Horns (28 46 21 17-1821)		
28 46 21	17-1862	EA	Red, Mini Horn (System Sensor MHR).....	99.33	37.87
28 46 21	17-1863	EA	White, Mini Horn (System Sensor MHW).....	99.33	37.87
28 46 21	17-1864	EA	White, 12/24 Volt DC, Wall Mounted Horn Only (System Sensor HWL).....	100.48	37.87
28 46 21	17-1865	EA	Red, Outdoor, Wall Mounted Replacement Horn (System Sensor HRK-R).....	124.71	42.91
28 46 21	17-1866	EA	Red, Interior, Wall Mounted, Horn (System Sensor HRL).....	100.48	37.87
28 46 21	17-1867	EA	Red, Outdoor, Wall Mounted, Horn (System Sensor HRK).....	133.07	37.87
28 46 21	17-1868		Wall Mounted Horns/Strobes (28 46 21 17-1821)		
28 46 21	17-1869	EA	Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RL).....	131.47	37.87



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1870 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RH).....	167.27	37.87
28 46 21 17-1871 EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK).....	189.90	42.91
28 46 21 17-1872 EA Plain, Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK-P).....	185.81	42.91
28 46 21 17-1873 EA Outdoor Backbox, Red, 120 Volt AC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK-120).....	193.80	42.91
28 46 21 17-1874 EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK).....	189.34	42.91
28 46 21 17-1875 EA Plain, Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK-P).....	180.61	42.91
28 46 21 17-1876 EA Outdoor, Red, , Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK-R).....	157.30	37.87
28 46 21 17-1877 EA Plain, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RL-P).....	128.87	37.87
28 46 21 17-1878 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WL).....	131.47	37.87
28 46 21 17-1879 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WH).....	168.38	37.87
28 46 21 17-1880 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WHK).....	184.32	42.91
28 46 21 17-1881 EA Plain, Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WHK-P).....	185.81	42.91
28 46 21 17-1882 EA Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WH-P).....	167.27	37.87
28 46 21 17-1883 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WK).....	194.91	42.91
28 46 21 17-1884 EA Plain, Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WK-P).....	180.61	42.91
28 46 21 17-1885 EA Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WL-P).....	128.32	37.87
28 46 21 17-1886 EA Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RL).....	154.89	37.87
28 46 21 17-1887 EA Red, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P4RH).....	164.83	37.87
28 46 21 17-1888 EA Outdoor Backbox, Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RK).....	189.93	42.91
28 46 21 17-1889 EA Outdoor, Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RK-R).....	176.89	42.91
28 46 21 17-1890 EA White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4WL).....	154.89	37.87
28 46 21 17-1891 EA Outdoor Backbox, White, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor PC4WHK).....	210.87	42.91
28 46 21 17-1892 EA Outdoor Backbox, White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4WK).....	186.18	42.91
28 46 21 17-1893 Ceiling Mounted Horns/Strobes <small>(28 46 21 17-1821)</small>		
28 46 21 17-1894 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RL).....	133.33	37.87
28 46 21 17-1895 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RH).....	169.50	37.87
28 46 21 17-1896 EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RHK).....	184.32	42.91
28 46 21 17-1897 EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RK).....	179.49	42.91
28 46 21 17-1898 EA Plain, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2R-P).....	161.69	37.87
28 46 21 17-1899 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WL).....	133.33	37.87
28 46 21 17-1900 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WH).....	169.50	37.87
28 46 21 17-1901 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WHK).....	184.32	42.91
28 46 21 17-1902 EA Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WH-P).....	169.50	37.87
28 46 21 17-1903 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WK).....	179.49	42.91
28 46 21 17-1904 EA Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2W-P).....	160.57	37.87
28 46 21 17-1905 EA Red, Ceiling Mounted, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Horn/Strobe (System Sensor PC4RL).....	155.82	37.87
28 46 21 17-1906 EA Red, Ceiling Mounted, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Horn/Strobe (System Sensor PC4RH).....	164.83	37.87
28 46 21 17-1907 EA White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC4WL).....	155.82	37.87
28 46 21 17-1908 Wall Mounted Strobes <small>(28 46 21 17-1821)</small>		
28 46 21 17-1909 EA White Strobe Expander Plate Backbox Skirt (System Sensor SEP-BBSW).....	58.62	12.62
28 46 21 17-1910 EA White Strobe Expander Plate With Standard Candela (System Sensor SEP-SW).....	108.68	12.62
28 46 21 17-1911 EA Red, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRL).....	120.14	37.87

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1912 EA Red, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRH).....	141.89	37.87
28 46 21 17-1913 EA Red, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK).....	171.41	42.91
28 46 21 17-1914 EA Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK).....	169.65	42.91
28 46 21 17-1915 EA Red, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK-P).....	167.23	42.91
28 46 21 17-1916 EA Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK-R).....	149.02	42.91
28 46 21 17-1917 EA Red, Plain, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRL-P).....	119.21	37.87
28 46 21 17-1918 EA White, 12/24 Volt DC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL).....	119.77	37.87
28 46 21 17-1919 EA White, Amber Lens, 12/24 Volt DC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL-ALERT).....	128.50	37.87
28 46 21 17-1920 EA White, Clear Lens, 12/24 Volt DC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL-CLR-ALERT).....	152.76	37.87
28 46 21 17-1921 EA White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH).....	159.45	37.87
28 46 21 17-1922 EA White, Amber Lens, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH-ALERT).....	158.34	37.87
28 46 21 17-1923 EA White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH-P).....	158.34	37.87
28 46 21 17-1924 EA Red, Plain, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK-P).....	169.46	42.91
28 46 21 17-1925 EA White, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWHK).....	167.78	42.91
28 46 21 17-1926 EA White, Plain, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWHK-P).....	169.09	42.91
28 46 21 17-1927 EA Red, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK-R).....	171.80	42.91
28 46 21 17-1928 EA White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Strobe (System Sensor SWK).....	166.30	42.91
28 46 21 17-1929 EA White, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Strobe (System Sensor SWK-P).....	167.04	42.91
28 46 21 17-1930 EA White, Plain, 12/24 Volt DC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL-P).....	119.02	37.87
28 46 21 17-1931 EA Amber, Wall Strobe Lens Attachment (System Sensor LENS-A).....	20.32	5.05
28 46 21 17-1932 EA Blue, Wall Strobe Lens Attachment (System Sensor LENS-B).....	20.32	5.05
28 46 21 17-1933 EA Green, Wall Strobe Lens Attachment (System Sensor LENS-G).....	20.32	5.05
28 46 21 17-1934 EA Red, Wall Strobe Lens Attachment (System Sensor LENS-R).....	20.32	5.05
28 46 21 17-1935 Ceiling Mounted Strobes <small>(28 46 21 17-1821)</small>		
28 46 21 17-1936 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCRL).....	122.18	37.87
28 46 21 17-1937 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCRH).....	143.66	37.87
28 46 21 17-1938 EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCRHK).....	171.41	42.91
28 46 21 17-1939 EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCRK).....	171.41	42.91
28 46 21 17-1940 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCWL).....	122.18	37.87
28 46 21 17-1941 EA Clear Lens, White, Two Wire, 12/24 Volt DC, Standard Candela, Ceiling Mounted Strobe (System Sensor SCWL-CLR-ALERT).....	129.62	37.87
28 46 21 17-1942 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCWH).....	161.69	37.87
28 46 21 17-1943 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCWHK).....	167.78	42.91
28 46 21 17-1944 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCWK).....	166.30	42.91
28 46 21 17-1945 EA Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCW-P).....	144.94	37.87
28 46 21 17-1946 EA Blue, Ceiling Strobe Lens Attachment (System Sensor LENS-BC).....	20.32	5.05
28 46 21 17-1947 EA Red, Ceiling Strobe Lens Attachment (System Sensor LENS-RC).....	20.32	5.05
28 46 21 17-1948 EA Green, Ceiling Strobe Lens Attachment (System Sensor LENS-GC).....	20.32	5.05
28 46 21 17-1949 EA Amber, Ceiling Strobe Lens Attachment (System Sensor LENS-AC).....	20.32	5.05
28 46 21 17-1950 Wall Mounted Speakers <small>(28 46 21 17-1821)</small>		
28 46 21 17-1951 EA 24 Volt DC, 4 Field Selectable Sound Pulse Patterns, Directional Sound Speaker With Voice And Integral Audio Amplifier (System Sensor PF24V).....	292.02	37.87
28 46 21 17-1952 EA Red, Wall Mounted Speaker (System Sensor SPRL).....	105.09	37.87
28 46 21 17-1953 EA Red, Outdoor, Wall Mounted Speaker (System Sensor SPRK).....	159.35	37.87
28 46 21 17-1954 EA Red, Outdoor, Wall Mounted Speaker (System Sensor SPRK-R).....	137.12	42.91
28 46 21 17-1955 EA Red, High dB, Wall Mounted Speaker (System Sensor SPRV).....	119.84	37.87
28 46 21 17-1956 EA White, Wall Mounted Speaker (System Sensor SPWL).....	105.09	37.87
28 46 21 17-1957 EA White, Outdoor, Wall Mounted Speaker (System Sensor SPWK).....	168.71	42.91
28 46 21 17-1958 EA White, High dB, Wall Mounted Speaker (System Sensor SPWV).....	116.53	37.87



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1959				Ceiling Mounted Speakers <small>(28 46 21 17-1959)</small>		
	EA			28 46 21 17-1960 Red, Ceiling Mounted Speaker (System Sensor SPCRL).....	103.04	37.87
	EA			28 46 21 17-1961 Outdoor, Ceiling Mounted Speaker (System Sensor SPCRK).....	155.57	37.87
	EA			28 46 21 17-1962 Red, High dB, Ceiling Mounted Speaker (System Sensor SPCRV).....	119.84	37.87
	EA			28 46 21 17-1963 White, Ceiling Mounted Speaker (System Sensor SPCWL).....	104.72	37.87
	EA			28 46 21 17-1964 White, High dB, Ceiling Mounted Speaker (System Sensor SPCWV).....	131.55	37.87
	EA			28 46 21 17-1965 White, Outdoor, Ceiling Mounted Speaker (System Sensor SPCWK).....	169.46	42.91
28 46 21 17-1966				Wall Mounted Speakers/Strobes <small>(28 46 21 17-1966)</small>		
	EA			28 46 21 17-1967 White Speaker Strobe Expander Plate With Standard Candela (System Sensor SEP-SPSWL).....	107.38	12.62
	EA			28 46 21 17-1968 White Speaker Strobe Expander Plate Backbox Skirt (System Sensor SPSEP-BBSWL).....	56.39	12.62
	EA			28 46 21 17-1969 Red, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRL).....	161.20	37.87
	EA			28 46 21 17-1970 Red, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRH).....	175.41	37.87
	EA			28 46 21 17-1971 Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK).....	230.51	42.91
	EA			28 46 21 17-1972 Red, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK-P).....	226.69	42.91
	EA			28 46 21 17-1973 Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK-R).....	195.84	42.91
	EA			28 46 21 17-1974 Red, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRL-P).....	159.53	37.87
	EA			28 46 21 17-1975 Red, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRV).....	170.12	37.87
	EA			28 46 21 17-1976 White, Amber Lens, Wall Mounted, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL-ALERT).....	161.95	37.87
	EA			28 46 21 17-1977 White, Clear Lens, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK-CLR-ALERT).....	229.29	42.91
	EA			28 46 21 17-1978 White, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL).....	161.20	37.87
	EA			28 46 21 17-1979 White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWH).....	201.87	37.87
	EA			28 46 21 17-1980 White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWH-P).....	201.87	37.87
	EA			28 46 21 17-1981 White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK).....	236.72	42.91
	EA			28 46 21 17-1982 White, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK-P).....	225.94	42.91
	EA			28 46 21 17-1983 White, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL-P).....	158.79	37.87
	EA			28 46 21 17-1984 White, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWV).....	195.18	37.87
	EA			28 46 21 17-1985 White, Plain, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWV-P).....	195.18	37.87
28 46 21 17-1986				Ceiling Mounted Speakers/Strobes <small>(28 46 21 17-1986)</small>		
	EA			28 46 21 17-1987 Red, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPCRL).....	151.17	37.87
	EA			28 46 21 17-1988 Red, Selectable Candela (135, 150, 177, 185) Candela, High-Candela, Ceiling Mounted Speaker/Strobe (System Sensor SPCSRH).....	177.18	37.87
	EA			28 46 21 17-1989 Red, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115), Ceiling Mounted Speaker/Strobe (System Sensor SPCSRV).....	170.12	37.87
	EA			28 46 21 17-1990 White, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPCSWL).....	151.17	37.87
	EA			28 46 21 17-1991 White, Clear Lens, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPCSWL-CLR-ALERT).....	160.46	37.87
	EA			28 46 21 17-1992 White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPCSWH).....	201.87	37.87
	EA			28 46 21 17-1993 White, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPCSWHK).....	237.84	42.91
	EA			28 46 21 17-1994 White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPCSWH-P).....	201.87	37.87
	EA			28 46 21 17-1995 White, Outdoor, Clear Lens, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPCSWK-CLR-ALERT).....	229.66	42.91
	EA			28 46 21 17-1996 White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPCSWK).....	236.72	42.91
	EA			28 46 21 17-1997 White, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPCSWL-P).....	151.17	37.87
	EA			28 46 21 17-1998 White, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPCSWV).....	195.18	37.87
	EA			28 46 21 17-1999 White, High-Candela/High dB, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPCSWVH).....	201.87	37.87
	EA			28 46 21 17-2000 White, Plain, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPCSWV-P).....	195.18	37.87
	EA			28 46 21 17-2001 High-Candela/High dB, Ceiling Mounted Speaker/Strobe (System Sensor SPCSRVH).....	201.55	37.87
28 46 21 17-2002				Electric Alarm Bells <small>(28 46 21 17-2002)</small>		
	EA			28 46 21 17-2003 6" 24 Volt DC Alarm Bell (System Sensor SSM24-6).....	126.83	37.87

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-2004	EA		8" 24 Volt DC Alarm Bell (System Sensor SSM24-8)	135.93	37.87
28 46 21 17-2005	EA		10" 24 Volt DC Alarm Bell (System Sensor SSM24-10)	145.97	37.87
28 46 21 17-2006	EA		6" 120 Volt AC Alarm Bell (System Sensor SSV120-6).....	139.38	38.37
28 46 21 17-2007	EA		8" 120 Volt AC Alarm Bell (System Sensor SSV120-8).....	140.85	38.37
28 46 21 17-2008	EA		10" 120 Volt AC Alarm Bell (System Sensor SSV120-10).....	150.15	38.37
28 46 21 17-2009			Device Bases (28 46 21 17-1821)		
28 46 21 17-2010	EA		High Or Low Volume Output, Code 3 Or 4, Continuous, March Or Custom Tone, Intelligent, Addressable, Programmable Plug-In Sounder Base (System Sensor B200S)	92.33	12.62
28 46 21 17-2011	EA		Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base (System Sensor B200SR)	89.54	12.62
28 46 21 17-2012	EA		Intelligent Isolator Base (System Sensor B224BI).....	74.49	12.62
28 46 21 17-2013	EA		Intelligent Relay Base (System Sensor B224RB).....	75.23	12.62
28 46 21 17-2014	EA		Flangeless, Intelligent Detector Base (System Sensor B501).....	48.44	12.62
28 46 21 17-2015			Boxes, Plates And Decals (28 46 21 17-1821)		
28 46 21 17-2016	EA		Two Wire, Flanged, 12/24 Volt DC, Low-Profile, Adapter Base (System Sensor B110LP).....	43.67	12.62
28 46 21 17-2017	EA		Four Wire, Form A And C, 24 Volt DC Low-Profile, Adapter Base (System Sensor B112LP).....	84.43	15.15
28 46 21 17-2018	EA		120 Volt AC, Mounting Plate, For Spectralert Advance Devices (System Sensor MP120K).....	43.98	12.62
28 46 21 17-2019	EA		Red, Wall Mounted, Metal, Weatherproof Backbox (System Sensor MWBB).....	64.12	12.62
28 46 21 17-2020	EA		White, Ceiling Mounted, Metal, Weatherproof Backbox (System Sensor MWBBCW).....	69.47	12.62
28 46 21 17-2021	EA		White, Wall Mounted, Metal, Weatherproof Backbox (System Sensor MWBBW).....	64.12	12.62
28 46 21 17-2022	EA		Red Retrofit Plate (System Sensor RFP).....	30.16	7.57
28 46 21 17-2023	EA		White Retrofit Plate (System Sensor RFPW).....	29.94	7.57
28 46 21 17-2024	EA		Red, Wall Mounted, Weatherproof Backbox (System Sensor SA-WBB).....	54.83	12.62
28 46 21 17-2025	EA		Red, Ceiling Mounted, Weatherproof Backbox (System Sensor SA-WBBC).....	61.22	12.62
28 46 21 17-2026	EA		Red, Ceiling Mounted, Surface Mounted, Backbox (System Sensor SBBCRL).....	44.43	12.62
28 46 21 17-2027	EA		White, Ceiling Mounted, Surface Mounted, Backbox (System Sensor SBBCWL).....	44.43	12.62
28 46 21 17-2028	EA		Red, Wall Mounted, Surface Mounted, Backbox (System Sensor SBBRL).....	39.00	12.62
28 46 21 17-2029	EA		Red, Wall Mounted, Surface Mounted, Backbox For Speaker (System Sensor SBBSPRL).....	43.09	12.62
28 46 21 17-2030	EA		White, Wall Mounted, Surface Mounted, Backbox For Speaker (System Sensor SBBSPWL).....	43.09	12.62
28 46 21 17-2031	EA		White, Wall Mounted, Surface Mounted, Backbox (System Sensor SBBWL).....	39.00	12.62
28 46 21 17-2032	EA		Surface Mounted Box For Intelligent Control Or Monitor Modules (System Sensor SMB500).....	43.11	12.62
28 46 21 17-2033	EA		Surface Mounted Box For 400 And 500 Series Detectors And Sounder Bases (System Sensor SMB600).....	39.19	12.62
28 46 21 17-2034	EA		Red, Wall Mounted Horn/Strobe Trim Ring (System Sensor TR-HS).....	14.35	5.05
28 46 21 17-2035	EA		Red Decals, Two Pack, Spectralert Advance Wall Products (System Sensor DECAL-R).....	20.47	
28 46 21 17-2036	EA		Red Decals, Three Pack, Spectralert Advance Ceiling Products (System Sensor DECAL-RC).....	28.23	
28 46 21 17-2037	EA		White Decals, Two Pack, Spectralert Advance Wall Products (System Sensor DECAL-W).....	20.47	
28 46 21 17-2038	EA		White Decals, Three Pack, Spectralert Advance Wall Products (System Sensor DECAL-WC).....	28.23	
28 46 21 17-2039			Chimes (28 46 21 17-1821)		
28 46 21 17-2040	EA		Red, 12/24 Volt DC, Ceiling Or Wall Mounted Chime (System Sensor CHRL).....	129.55	37.87
28 46 21 17-2041	EA		White, 12/24 Volt DC, Ceiling Or Wall Mounted Chime (System Sensor CHWL).....	122.93	37.87
28 46 21 17-2042			Chime/Strobes (28 46 21 17-1821)		
28 46 21 17-2043	EA		Red, 15, 15/75, 30, 75, 110 Multi-Candela, 24 Volt DC, Ceiling Or Wall Mounted Chime/Strobe (System Sensor CHSRL).....	172.35	37.87
28 46 21 17-2044	EA		White, 15, 15/75, 30, 75, 110 Multi-Candela, 24 Volt DC, Ceiling Or Wall Mounted Chime/Strobe (System Sensor CHSWL).....	172.35	37.87
28 46 21 17-2045			Carbon Monoxide Detectors (28 46 21 17-1821)		
28 46 21 17-2046	EA		Conventional Carbon Monoxide Detector (System Sensor CO1224).....	212.57	50.49
28 46 21 17-2047	EA		Round, Sounder And Trouble Relay With Test Function, 12/24 Volt DC, Conventional Carbon Monoxide Detector (System Sensor CO1224TR).....	170.87	37.87
28 46 21 17-2048	EA		CO Detector Plate For Replacing Round CO Detectors With The CO1224T (System Sensor CO-PLATE).....	14.59	5.05
28 46 21 17-2049			Switches (28 46 21 17-1821)		
28 46 21 17-2050	EA		SPDT Switch, 4 - 20 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS10-1).....	150.40	20.19
28 46 21 17-2051	EA		Two SPDT Switches, 4 - 20 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS10-2).....	167.13	20.19
28 46 21 17-2052	EA		SPDT Switch, 10 - 100 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS40-1).....	150.40	20.19
28 46 21 17-2053	EA		Two SPDT Switches, 10 - 100 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS40-2).....	167.13	20.19
28 46 21 17-2054	EA		Outside Screw And Yoke Valve, Two SPDT, Supervisory Switch (System Sensor OSY2).....	156.35	20.19
28 46 21 17-2055	EA		Post Indicator Butterfly Valve, SPDT, Supervisory Switch (System Sensor PIBV2).....	146.69	20.19
28 46 21 17-2056			Low Frequency Sounders (28 46 21 17-1821)		
28 46 21 17-2057	EA		Red, Low Frequency Sounder (System Sensor HR-LF).....	162.80	37.87
28 46 21 17-2058	EA		White, Low Frequency Sounder (System Sensor HW-LF).....	162.80	37.87
28 46 21 17-2059			Sync Modules (28 46 21 17-1821)		
28 46 21 17-2060	EA		Red, 12/24 Volt DC, Sync Module (System Sensor MDL3R).....	122.96	25.25
28 46 21 17-2061	EA		White, 12/24 Volt DC, Sync Module (System Sensor MDL3W).....	121.10	25.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-2062 Relays <small>(28 46 21 17-1821)</small>		
28 46 21 17-2063 EA Metal Enclosure, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-10E).....	71.77	20.19
28 46 21 17-2064 EA SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-10T).....	46.14	12.62
28 46 21 17-2065 EA 4-Gang Relay, Metal Enclosure, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-14E).....	125.59	12.62
28 46 21 17-2066 EA 4-Gang Relay, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-14T).....	93.63	12.62
28 46 21 17-2067 EA Metal Enclosure, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-20E).....	76.75	20.19
28 46 21 17-2068 EA DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-20T).....	47.47	12.62
28 46 21 17-2069 EA 4-Gang Relay, Metal Enclosure, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-24E).....	140.83	12.62
28 46 21 17-2070 EA 4-Gang Relay, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-24T).....	106.45	12.62
28 46 21 17-2071 EA 18 To 35 Volt DC, 18 To 35 Volt AC, 120 Volt AC, SPDT Multivoltage Relay (System Sensor PR-1).....	40.71	12.62
28 46 21 17-2072 EA 10 To 40 Volt DC, SPDT Multivoltage Relay (System Sensor PR-2).....	40.71	12.62
28 46 21 17-2073 EA Redundant Power Input, 10 To 40 Volt DC, SPDT Multivoltage Relay (System Sensor PR-3).....	40.71	12.62
28 46 21 17-2074 Remote Annunciator <small>(28 46 21 17-1821)</small>		
28 46 21 17-2075 EA Remote Annunciator (System Sensor RA100Z).....	99.14	37.87
28 46 21 17-2076 EA Remote LED Annunciator (System Sensor RA100ZA).....	97.38	37.87
28 46 21 17-2077 Remote Test Station <small>(28 46 21 17-1821)</small>		
28 46 21 17-2078 EA Remote Test Station With Key (System Sensor RTS151KEY).....	147.45	37.87
28 46 21 17-2079 Fire Alarm Digital Cellular Communicator <small>(28 46 21 17)</small>		
28 46 21 17-2080 EA Digital Cellular Communicator With Antenna And Red Enclosure (Telular Telguard TG-7FS).....	538.90	50.49
28 46 21 17-2081 Wheelock Fire Alarm <small>(28 46 21 17)</small>		
28 46 21 17-2082 Ceiling Mounted Chimes/Strobes <small>(28 46 21 17-2081)</small>		
28 46 21 17-2083 EA White, Round, Selectable Candela (15, 30, 75, 100 Candela), 24 Volt DC, Ceiling Mounted Chime/Strobe (Wheelock CH90-24MCC-FW).....	244.41	37.87
28 46 21 17-2084 Wall Mounted Chimes/Strobes <small>(28 46 21 17-2081)</small>		
28 46 21 17-2085 EA Red, Selectable Candela (15, 30, 75, 110 Candela), 24 Volt DC, Wall Mounted Chime/Strobe (Wheelock CH70-24MCW-FR).....	244.41	37.87
28 46 21 17-2086 EA White, Selectable Candela (15, 30, 75, 110 Candela), 24 Volt DC, Wall Mounted Chime/Strobe (Wheelock CH70-24MCW-FW).....	244.41	37.87
28 46 21 17-2087 Ceiling Mounted Horns/Strobes <small>(28 46 21 17-2081)</small>		
28 46 21 17-2088 EA Red, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Horn/Strobe (Wheelock HSRC).....	153.29	37.87
28 46 21 17-2089 EA White, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Horn/Strobe (Wheelock HSWC).....	143.74	37.87
28 46 21 17-2090 Wall Mounted Horns/Strobes <small>(28 46 21 17-2081)</small>		
28 46 21 17-2091 EA Red, Weatherproof, 24 Volt DC, 75 Candela, Wall Mounted, Horn/Strobe (Wheelock ASWP-2475W-FR).....	156.89	37.87
28 46 21 17-2092 EA Red, 24 Volt DC, 15/75 Candela, Continuous Or Code 3 Tone, Wall Mounted Horn/Strobe (Wheelock HS4-241575 Watt-FR).....	202.99	37.87
28 46 21 17-2093 EA Red, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Wall Mounted Horn/Strobe (Wheelock HS4-24MCW-FR).....	169.75	37.87
28 46 21 17-2094 EA White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Wall Mounted Horn/Strobe (Wheelock HS4-24MCW-FW).....	169.75	37.87
28 46 21 17-2095 EA Red, Flush, 24 Volt AC, 15/75 Candela, Sync/Non-Sync, Wall Mounted Horn/Strobe (Wheelock MT-241575 Watt-FR).....	192.94	37.87
28 46 21 17-2096 EA Red, 24 Volt AC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock MT-24MCW-FR).....	177.45	37.87
28 46 21 17-2097 EA Red, 115 Volt AC, Wall Mounted Horn/Strobe (Wheelock MT4-115-WH-VFR).....	175.33	37.87
28 46 21 17-2098 EA Red, Weatherproof, 24 Volt DC, 75 Candela, Wall Mounted Horn/Strobe (Wheelock MTWP-2475W-FR).....	193.07	42.91
28 46 21 17-2099 EA Red, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock HSR).....	156.04	37.87
28 46 21 17-2100 EA White, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock HSW).....	156.04	37.87
28 46 21 17-2101 Ceiling Mounted Strobes <small>(28 46 21 17-2081)</small>		
28 46 21 17-2102 EA Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe (Wheelock RSS-24MCC-FR).....	145.66	37.87
28 46 21 17-2103 EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe (Wheelock RSS-24MCC-FW).....	145.66	37.87
28 46 21 17-2104 EA Red, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Strobe (Wheelock STRC).....	131.47	37.87
28 46 21 17-2105 EA White, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Strobe (Wheelock STWC).....	139.30	37.87
28 46 21 17-2106 Wall Mounted Strobes <small>(28 46 21 17-2081)</small>		
28 46 21 17-2107 EA Red, Multi-Candela, 24 Volt DC, Wall Mounted Strobe (Wheelock AMT-24MCW-FR).....	228.73	37.87
28 46 21 17-2108 EA Red, Retrofit Plate, 12 Volt DC, 15/75 Candela, Wall Mounted Strobe (Wheelock RSSP-121575W-FR).....	180.84	37.87
28 46 21 17-2109 EA Red, 24 Volt DC, 15/75 Candela, Wall Mounted Strobe (Wheelock RSS-241575W-FR).....	163.92	37.87
28 46 21 17-2110 EA Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSS-24MCW-FR).....	143.96	37.87
28 46 21 17-2111 EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSS-24MCW-FW).....	143.96	37.87
28 46 21 17-2112 EA Red, Retrofit Plate, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSSP-24MCW-FR).....	154.98	37.87

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-2113 EA Outdoor, Red, 24 Volt DC, 75 Candela, Wall Mounted Strobe (Wheelock RSSWP-2475W-FR).....	160.43	42.91
Note: Requires WPSBB-R.		
28 46 21 17-2114 EA Red, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Strobe (Wheelock STR).....	140.36	37.87
28 46 21 17-2115 EA White, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Strobe (Wheelock STW).....	140.36	37.87
28 46 21 17-2116 Ceiling Mounted Speakers/Strobes (28 46 21 17-2081)		
28 46 21 17-2117 EA Red, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E60-24MCC-FR).....	180.84	37.87
28 46 21 17-2118 EA White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E60-24MCC-FW).....	180.84	37.87
28 46 21 17-2119 EA White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E70-24MCC-FW).....	180.84	37.87
28 46 21 17-2120 EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-FW).....	182.96	37.87
28 46 21 17-2121 EA White, 24 Volt DC, Multi-Candela 115/177, Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-FW).....	194.82	37.87
28 46 21 17-2122 EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Speaker/Strobe (Wheelock ET90-24MCC-FW).....	211.35	37.87
28 46 21 17-2123 Wall Mounted Speakers/Strobes (28 46 21 17-2081)		
28 46 21 17-2124 EA Red, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E50-241575 Watt-FR).....	221.97	37.87
28 46 21 17-2125 EA White, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E50-241575 Watt-FW).....	221.97	37.87
28 46 21 17-2126 EA Red, 24 Volt DC, Multi-Candela 115/177, Wall Mounted Speaker/Strobe (Wheelock E60-24MCC-FR).....	194.82	37.87
28 46 21 17-2127 EA White, 24 Volt DC, Multi-Candela 115/177, Wall Mounted Speaker/Strobe (Wheelock E60-24MCC-FW).....	194.82	37.87
28 46 21 17-2128 EA Red, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E50-24MCW-FR).....	180.84	37.87
28 46 21 17-2129 EA White, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E50-24MCW-FW).....	177.45	37.87
28 46 21 17-2130 EA Red, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E50-24MCWH-FR).....	194.82	37.87
28 46 21 17-2131 EA White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E50-24MCWH-FW).....	194.82	37.87
28 46 21 17-2132 EA Red, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E70-241575 Watt-FR).....	219.74	37.87
28 46 21 17-2133 EA Red, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E70-24MCW-FR).....	182.96	37.87
28 46 21 17-2134 EA White, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E70-24MCW-FW).....	181.26	37.87
28 46 21 17-2135 EA Red, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FR).....	214.71	37.87
28 46 21 17-2136 EA White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FW).....	219.74	37.87
28 46 21 17-2137 EA Red, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock ET70-24MCW-FR).....	211.35	37.87
28 46 21 17-2138 EA White, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock ET70-24MCW-FW).....	211.35	37.87
28 46 21 17-2139 EA Weatherproof, Red, 24 Volt DC, 75 Candela, Wall Mounted Speaker Strobe (Wheelock ET70WP-2475 W-FR).....	239.33	42.91
Note: Requires weatherproof backbox (IOB).		
28 46 21 17-2140 Electric Alarm Bells (28 46 21 17-2081)		
28 46 21 17-2141 EA 6", 24 Volt DC, Red, Vibrating Bell (Wheelock 43T-G6-24-R).....	175.75	37.87
28 46 21 17-2142 EA 6", 115 Volt AC, Red, Vibrating Bell (Wheelock 43T-G6-115-R).....	168.97	37.87
28 46 21 17-2143 EA 10", 115 Volt AC, Red, Vibrating Bell (Wheelock 43T-G10-115-R).....	214.32	37.87
28 46 21 17-2144 EA 115 Volt AC, Single Stroke, Red, 10" Explosion Proof Bell (Wheelock CSX10-115-R).....	1,777.71	42.91
28 46 21 17-2145 EA Outdoor, 115 Volt AC, Single Stroke, Red, 10" Explosion Proof Bell (Wheelock CSXG10-115-R).....	2,883.02	42.91
28 46 21 17-2146 EA Vibrating, Outdoor, 115 Volt AC, Single Stroke, Red, 10" Explosion Proof Bell (Wheelock CVXG10-115-R).....	2,290.57	42.91
28 46 21 17-2147 EA 6", ADA, 24 Volt DC, Red, Motor Bell (Wheelock MB-G6-24-R).....	137.40	37.87
28 46 21 17-2148 EA 10", ADA, 24 Volt DC, Red, Motor Bell (Wheelock MB-G10-24-R).....	153.03	37.87
28 46 21 17-2149 Horns (28 46 21 17-2081)		
28 46 21 17-2150 EA Two Wire, 24 Volt DC, Indoor Or Outdoor, Continuous Or Code 3, Sync Or Non Sync Horn (Wheelock AH-24WP-R).....	120.38	37.87
28 46 21 17-2151 EA Red, Two Wire, 12/24 Volt DC, Wall Mounted Horn (Wheelock HNR).....	113.53	37.87
28 46 21 17-2152 EA White, Two Wire, 12/24 Volt DC, Wall Mounted Horn (Wheelock HNW).....	113.53	37.87
28 46 21 17-2153 EA Red, Two Wire, 12/24 Volt DC, Ceiling Mounted Horn (Wheelock HNRC).....	114.47	37.87
28 46 21 17-2154 EA White, Two Wire, 12/24 Volt DC, Ceiling Mounted Horn (Wheelock HNWC).....	114.47	37.87
28 46 21 17-2155 EA Red, 24 Volt DC, Sync With Built-In Temporal, Mini-Horn (Wheelock MIZ-24S-R).....	98.79	37.87
28 46 21 17-2156 EA White, 24 Volt DC, Sync With Built-In Temporal, Mini-Horn (Wheelock MIZ-24S-W).....	98.79	37.87
28 46 21 17-2157 EA Red, Flush, 12/24 Volt AC, Horn (Wheelock MT-12/24-R).....	114.47	37.87
28 46 21 17-2158 Speakers (28 46 21 17-2081)		
28 46 21 17-2159 EA Red, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Mounted Speaker (Wheelock E50-R).....	117.18	37.87
28 46 21 17-2160 EA White, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Mounted Speaker (Wheelock E50-W).....	117.18	37.87
28 46 21 17-2161 EA Red, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Ceiling Mounted Speaker (Wheelock E60-R).....	117.18	37.87
28 46 21 17-2162 EA White, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Ceiling Mounted Speaker (Wheelock E60-W).....	115.31	37.87
28 46 21 17-2163 EA Red, Flush, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E70-R).....	117.18	37.87
28 46 21 17-2164 EA White, Flush, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E70-W).....	117.18	37.87
28 46 21 17-2165 EA Red, Round, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E90-R).....	117.18	37.87
28 46 21 17-2166 EA White, Round, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E90-W).....	117.18	37.87
28 46 21 17-2167 EA Red, Flush Or Surface, Square, 1/8 - 8 Watt, Wall Mounted Speaker (Wheelock ET70-R).....	137.61	37.87



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	28 46 21	17-2168	EA	White, Flush Or Surface, Square, 1/8 - 8 Watt, Wall Mounted Speaker (Wheelock ET70-W).....	137.61	37.87
	28 46 21	17-2169	EA	White, Round, 25 Or 70.7 VRMS, 1/8 - 8 Watt Ceiling Mounted Speaker (Wheelock ET90-W).....	139.30	37.87
	28 46 21	17-2170	EA	Red, Surface Mounted, Vandal Resistant, Square, 1/8 - 8 Watt, Wall Or Ceiling Mounted Speaker (Wheelock ET-1010-R).....	152.66	37.87
	28 46 21	17-2171	EA	Red, Flush Mounted, Vandal Resistant, Square, 1/8 - 8 Watt, Wall Or Ceiling Mounted Speaker (Wheelock ET-1080-R).....	139.65	37.87
	28 46 21	17-2172	EA	Grey, 1 To 15 Watt, 25/70/100 V Transformer, Loud Speaker (Wheelock STH-15S).....	270.68	37.87
	28 46 21	17-2173	EA	Red, 1 To 15 Watt, 25/70/100 V Transformer, Loud Speaker (Wheelock STH-15SR).....	270.68	37.87
28 46 21	17-2174			Sync Modules <small>(28 46 21 17-2081)</small>		
	28 46 21	17-2175	EA	12 Or 24 Volt DC, Single Circuit Class B, Sync Module (Wheelock SM-12/24-R).....	137.56	25.25
28 46 21	17-2176			Boxes, Plates And Rings <small>(28 46 21 17-2081)</small>		
	28 46 21	17-2177	EA	4" Square, Red, Surface Backbox (Wheelock BB-R).....	34.53	12.62
	28 46 21	17-2178	EA	Standard 4" Square Box (Wheelock BB-STD).....	31.05	12.62
	28 46 21	17-2179	EA	Black, Backbox For UZC-256 (Wheelock BB-UZC).....	170.53	25.25
	28 46 21	17-2180	EA	Red, Backbox For UZC-256 (Wheelock BB-UZC-R).....	170.53	25.25
	28 46 21	17-2181	EA	9" x 12" x 2.75", For Two XP Boards, Surface Mounted Cabinet (Wheelock BB-XP).....	131.82	20.19
	28 46 21	17-2182	EA	Red, Extender Ring For E60 Series (Wheelock E60EXT-R).....	18.41	5.05
	28 46 21	17-2183	EA	White, Extender Ring For E60 Series (Wheelock E60EXT-W).....	18.41	5.05
	28 46 21	17-2184	EA	Red, Surface Mounted Backbox For E50 Speakers (Wheelock E50SB-R).....	44.58	12.62
	28 46 21	17-2185	EA	White, Surface Mounted Backbox For E50 Speakers (Wheelock E50SB-W).....	41.86	12.62
	28 46 21	17-2186	EA	Red, Surface Mounted Backbox For E50 Speaker Strobe (Wheelock E50SSB-R).....	44.58	12.62
	28 46 21	17-2187	EA	White, Surface Mounted Backbox For E50 Speaker Strobe (Wheelock E50SSB-W).....	44.58	12.62
	28 46 21	17-2188	EA	4" Square Backbox (Wheelock DBB-R).....	36.27	12.62
	28 46 21	17-2189	EA	Red, Surface Backbox (Wheelock IOB-R).....	42.80	12.62
	28 46 21	17-2190	EA	White, Surface, Backbox (Wheelock IOB-W).....	42.80	12.62
	28 46 21	17-2191	EA	White, Indoor, Surface Extender (Wheelock ISP2-W).....	17.52	5.05
	28 46 21	17-2192	EA	Red, RS/RSS Strobe Trim Plate (Wheelock NATP-R).....	19.59	5.05
	28 46 21	17-2193	EA	White, RS/RSS Strobe Trim Plate (Wheelock NATP-W).....	19.59	5.05
	28 46 21	17-2194	EA	Red Retrofit Plate (Wheelock RP-R).....	21.12	5.05
	28 46 21	17-2195	EA	4" Speaker/Strobe Ceiling Tile Support Bracket (Wheelock SSB-4).....	28.90	5.05
	28 46 21	17-2196	EA	Red, Surface Mounted, Backbox For Chimes, Speakers (Wheelock SBB-R).....	45.00	12.62
	28 46 21	17-2197	EA	White, Surface Mounted, Backbox For Chimes, Speaker (Wheelock SBB-W).....	45.59	12.62
	28 46 21	17-2198	EA	Red, Surface Mounted, Backbox For With RSSP (Wheelock SBL2-R).....	48.73	12.62
	28 46 21	17-2199	EA	Red, Semi-Flush Plate (Wheelock SFB-R).....	20.43	5.05
	28 46 21	17-2200	EA	White, Semi-Flush Plate (Wheelock SFB-W).....	20.43	5.05
	28 46 21	17-2201	EA	Red, Shallow Surface Mounted, Backbox (Wheelock SHBB-R).....	39.11	12.62
	28 46 21	17-2202	EA	White, Shallow Surface Mounted, Backbox (Wheelock SHBB-W).....	39.11	12.62
	28 46 21	17-2203	EA	Red, Adapter Plate For Mounting Sth-15S And Sth-15SR (Wheelock SHMP-R).....	26.71	5.05
	28 46 21	17-2204	EA	Red, Weather Resistant Backbox (Wheelock WBB-R).....	44.24	12.62
	28 46 21	17-2205	EA	Red, Flush Outdoor Mounting Plate For RS, ET, AH And MT Series (Wheelock WFP-R).....	33.16	5.05
	28 46 21	17-2206	EA	White, Flush Outdoor Mounting Plate For RS, ET, AH And MT Series (Wheelock WFP-W).....	33.16	5.05
	28 46 21	17-2207	EA	Red, Flush Outdoor Mounting Plate For ASWP Series (Wheelock WFPA-R).....	33.16	5.05
	28 46 21	17-2208	EA	White, Flush Outdoor Mounting Plate For ASWP Series (Wheelock WFPA-W).....	33.16	5.05
	28 46 21	17-2209	EA	Gasket Kit For Rear Wiring To Outdoor Backbox (Wheelock WP-KIT).....	18.24	5.05
	28 46 21	17-2210	EA	Weather Resistant Backbox For ASWP (Wheelock WPBB-R).....	45.47	12.62
	28 46 21	17-2211	EA	Weather Resistant Backbox For RSSWP (Wheelock WPSBB-R).....	42.20	12.62
28 46 21	17-2212			Manual Pull Station <small>(28 46 21 17-2081)</small>		
	28 46 21	17-2213	EA	SPST, Single Action, Manual Pull Station (Eaton Wheelock MPS-100).....	102.31	25.25
	28 46 21	17-2214	EA	SPST, Double Action, Manual Pull Station (Eaton Wheelock MPS-200).....	102.31	25.25
	28 46 21	17-2215	EA	Explosion Proof, Single Action Manual Pull Station (Eaton Wheelock MPS-400X).....	833.05	25.25
28 46 21	17-2216			Fire Alarm Terminal Cabinets <small>(28 46 21 17)</small>		
	28 46 21	17-2217	EA	18 Point Lockable Fire Alarm Terminal Cabinet.....	191.58	50.59
	28 46 21	17-2218	EA	32 Point Lockable Fire Alarm Terminal Cabinet.....	245.84	50.59
	28 46 21	17-2219	EA	64 Point Lockable Fire Alarm Terminal Cabinet.....	354.35	50.59
	28 46 21	17-2220	EA	128 Point Lockable Fire Alarm Terminal Cabinet.....	462.82	50.59
28 46 21	17-2221			Test And Certification Of Fire Alarm System <small>(28 46 21 17)</small>		
	28 46 21	17-2222	DAY	Test And Certification Of Fire Alarm System To Tie Into Existing Systems.....	801.71	
	28 46 21	17-2223	HR	Test And Certification Of Fire Alarm System.....	250.53	
28 46 21	17-2224			Programming Of Fire Alarm System <small>(28 46 21 17)</small>		
	28 46 21	17-2225	HR	Programming Of Fire Alarm System.....	300.64	
28 46 21	17-2226			Removal And Reinstallation Of Smoke Detector <small>(28 46 21 17)</small>		
				Note: Includes storage, cleaning and supply materials.		
	28 46 21	17-2227	EA	Removal And Reinstallation Of Ceiling Mounted Smoke Detector.....	141.38	
	28 46 21	17-2228	EA	Removal And Reinstallation Of Wall Mounted Smoke Detector.....	113.60	

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

28 46 21 17-2229		Kidde Fire Safety Equipment (28 46 21 17)		
28 46 21 17-2230		Smoke Detectors (28 46 21 17-2229)		
28 46 21 17-2231	EA	Combination Smoke And Carbon Monoxide Detector, 120 Volt Wired, With Battery Back-up (Kidde i12010SCO)	120.75	37.87
28 46 21 17-2232	EA	Combination Smoke And Carbon Monoxide Detector, With Battery Back-up (Kidde P3010K-CO)	96.67	37.87
28 46 23		Fire Alarm Notification Appliances (28 46)		
28 46 23 11		Fire Alarm Horns and Strobes (28 46 23)		
		See CSI section 28 46 21 17-0000 for fire alarm horns and strobes.		
28 46 23 13		Fire Alarm Speakers (28 46 23)		
		See CSI section 28 46 21 17-0000 for fire alarm speakers.		
28 47		Mass Notification (28 40)		
28 47 15		Mass Notification Control Panels (28 47)		
28 47 15 00-0001		Central Station Controls (28 47 15)		
28 47 15 00-0002	EA	Desktop 18 Function Base Station Control/Encoder (Whelen E747)	665.24	
28 47 15 00-0003	EA	Desktop 35 Function Base Station Control/Encoder (Whelen E969)	1,079.73	
28 47 15 00-0004	EA	Desktop Central Station Control Encoder/Decoder (Whelen E2010)	3,145.89	
28 47 15 00-0005	EA	Siren Status Printer And Cable Option For E2010 (Whelen E2010P)	988.20	25.25
28 47 15 00-0006	EA	Rack Mounted Central Station Control Encoder/Decoder (Whelen E2010R)	3,622.71	25.25
28 47 15 00-0007	EA	Internal Option To Convert E2010 To FSK Format (Whelen E2010FSK)	552.83	25.25
28 47 15 00-0008	EA	Option To Convert Activation Controls To FSK Format (Whelen FSKCEO)	594.67	25.25
28 47 17		Notification Devices and Methods (28 47)		
28 47 17 17		Notification Appliances and Methods Public Methods (28 47 17)		
28 47 17 17-0001		Voice Capable Omni-Directional Speakers (28 47 17 17)		
28 47 17 17-0002	EA	1 Cell, 109 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2901A)	9,738.64	665.23
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0003	EA	2 Cells, 115 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2902A)	11,812.37	694.16
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0004	EA	3 Cells, 119 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2903A)	13,860.65	723.08
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0005	EA	4 Cells, 121 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2904A)	15,908.94	752.00
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0006	EA	5 Cells, 123 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2905A)	18,008.09	780.93
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0007	EA	6 Cells, 125 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2906A)	21,505.83	809.85
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0008	EA	7 Cells, 126 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2907A)	23,579.54	838.78
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0009	EA	8 Cells, 127 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2908A)	26,068.60	867.69
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0010	EA	9 Cells, 128 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2909A)	28,116.89	896.62
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0011	EA	10 Cells, 129 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2910A)	30,190.61	925.54
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0012	EA	3 Cells, 127 dB, Voice Capable Rotating Directional Speaker (Whelen WPS4003)	20,742.96	809.85
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0013	EA	4 Cells, 129 dB, Voice Capable Rotating Directional Speaker (Whelen WPS4004)	22,079.24	838.78
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0014	EA	One-Way Control, 10 Digit DTMF Landline (Whelen D2030LL)	361.92	25.25
28 47 17 17-0015	EA	VHF High-Band Narrow-Band, One-Way Control, 10 Digit DTMF (Whelen D2030NV)	1,508.41	25.25
28 47 17 17-0016	EA	UHF Narrow-Band, One-Way Control, 10 Digit DTMF (Whelen D2030NU)	1,508.41	25.25
28 47 17 17-0017	EA	UHF Wide Band, One-Way Control, 10 Digit DTMF (Whelen D2030WU)	1,364.32	25.25
28 47 17 17-0018	EA	VHF High-Band Wide Band, One-Way Control, 10 Digit DTMF (Whelen D2030WV)	1,321.93	25.25
28 47 17 17-0019	EA	Two-Tone Sequential Option (Whelen WPSTT)	335.16	25.25
28 47 17 17-0020	EA	Full Function Auxiliary/Status Board For Contact Closure Activation (Two Way) (Whelen AUXCS)	426.58	25.25
28 47 17 17-0021	EA	Landline, 10 Digit DTMF (Whelen C2030LL)	442.93	25.25
28 47 17 17-0022	EA	VHF High-Band Narrow-Band, Two-Way Control, 10 Digit DTMF (Whelen C2030NV)	2,145.35	25.25
28 47 17 17-0023	EA	UHF Narrow-Band, Two-Way Control, 10 Digit DTMF (Whelen C2030NU)	1,652.51	25.25
28 47 17 17-0024	EA	UHF Wide-Band, 10 Digit DTMF (Whelen C2030WU)	1,652.51	25.25
28 47 17 17-0025	EA	VHF High-Wide Band, 10 Digit DTMF (Whelen C2030WV)	1,652.51	25.25
28 47 17 17-0026	EA	Option To Convert WPS Activation Controls To FSK Format (Whelen FSKXMOD)	594.67	25.25
28 47 17 17-0027	EA	Cabinet Window LED Status Indicator (Whelen STATUS)	413.29	25.25
28 47 17 17-0028	EA	Paging Interface Whelen Tones With Existing In-Plant Systems (Whelen PGINT)	277.18	25.25
28 47 17 17-0029	EA	Intrusion Alarm (Whelen INTRUWPS)	212.52	25.25
28 47 17 17-0030	EA	Custom Pre-Recorded Messages (One Time Set-Up Charge Per Message) (Whelen MSGPROG)	141.96	
28 47 17 17-0031	EA	Whelen Library Messages (Whelen MSGPROGL)	28.43	
28 47 17 17-0032	EA	Noise Cancelling Microphone Includes Local Microphone Input Harness (Whelen WPSNCMIC)	1,119.24	25.25
28 47 17 17-0033	EA	One Pair Of Whelen Approved Batteries (Whelen WPSBATT)	780.96	37.87
28 47 17 17-0034	EA	WPS And OA Series, Roof Top Mounted (Whelen RTM)	7,707.32	636.31
28 47 17 17-0035	EA	Two 80 Watt Panels, Solar Power System (Whelen SBC280)	3,074.69	151.47
		Note: Includes mounting bracket and regulator.		
28 47 17 17-0036	EA	Amber, 6 LED Lights For The Base Of WPS Series (Whelen VALERTA)	1,550.61	37.87
28 47 17 17-0037	EA	Blue, 6 LED Lights For The Base Of WPS Series (Whelen VALERTB)	1,550.61	37.87
28 47 17 17-0038	EA	Clear, 6 LED Lights For The Base Of WPS Series (Whelen VALERTC)	1,550.61	37.87



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 17 17-0039 EA Green, 6 LED Lights For The Base Of WPS Series (Whelen VALERTG).....	1,550.61	37.87
28 47 17 17-0040 EA Red, 6 LED Lights For The Base Of WPS Series Products (Whelen VALERTR).....	1,550.61	37.87
28 47 17 17-0041 EA Amber, 24 Volt DC, LED, Beacon (Whelen L31HAF4).....	542.50	37.87
28 47 17 17-0042 EA Blue, 24 Volt DC, LED, Beacon (Whelen L31HBF4).....	542.50	37.87
28 47 17 17-0043 EA Red, 24 Volt DC, LED, Beacon (Whelen L31HRF4).....	542.50	37.87
28 47 17 17-0044 EA Amber, 24 Volt DC, Strobe (Whelen ISB24A).....	427.29	37.87
28 47 17 17-0045 EA Blue, 24 Volt DC, Strobe (Whelen ISB24B).....	427.29	37.87
28 47 17 17-0046 EA Clear, 24 Volt DC, Strobe (Whelen ISB24C).....	427.29	37.87
28 47 17 17-0047 EA Green, 24 Volt DC, Strobe (Whelen ISB24G).....	427.29	37.87
28 47 17 17-0048 EA Red, 24 Volt DC, Strobe (Whelen ISB24R).....	427.29	37.87
28 47 17 17-0049 EA Strobe/LED Controller With Mounting Plate, Hardware And Harnessing For ISB24 (Whelen SCWPS).....	603.99	25.25
28 47 17 17-0050 EA Strobe Controller (Whelen STCTRL).....	446.65	25.25
28 47 17 17-0051 EA LED Controller (Whelen LEDCTRL).....	446.65	25.25
28 47 17 17-0052 EA Speaker Driver Handle/Plate Assembly Only (Less Speaker Driver) (Whelen EZ-PULL).....	298.99	37.87
28 47 17 17-0053 EA Siren Diagnostic and Programming Software In CD Format (Whelen SDPTS).....	404.14	
28 47 17 17-0054 EA 400 Watt Speaker Driver (Whelen SPKDRV).....	616.11	25.25
28 47 17 17-0055 EA Cabinet Window LED Status Indicator (Whelen STATUS).....	313.60	25.25
28 47 17 17-0056 EA Noise Cancelling Microphone Option For Encoder (Whelen WPSMIC).....	119.24	25.25
28 47 17 17-0057 EA Notifier/Whelen Interface Board (Whelen NAUXCS).....	609.42	25.25
28 47 17 17-0058 Tone Only, Omni-Alert Sirens (28 47 17 17)		
28 47 17 17-0059 EA One Cell, Tone Only, Omni-Alert Siren (Whelen OA1).....	7,936.18	636.31
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0060 EA Two Cell, Tone Only, Omni-Alert Siren (Whelen OA2).....	9,823.40	665.23
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0061 EA Three Cell, Tone Only, Omni-Alert Siren (Whelen OA3).....	11,693.70	694.16
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0062 EA Four Cell, Tone Only, Omni-Alert Siren (Whelen OA4).....	13,606.36	723.08
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0063 EA One Way Controls, Auxiliary Board For Contact Closure Activation (Whelen O AUXIN).....	221.71	25.25
28 47 17 17-0064 EA One Way Landline Activation, 10 Digit DTMF (Whelen OD2030LL).....	361.92	25.25
28 47 17 17-0065 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen OD230NV).....	1,508.41	25.25
28 47 17 17-0066 EA UHF Narrow-Band, 10 Digit DTMF (Whelen OD230NU).....	1,508.41	25.25
28 47 17 17-0067 EA UHF Wide-Band, 10 Digit DTMF (Whelen OD230WU).....	1,364.32	25.25
28 47 17 17-0068 EA VHF High-Wide Band, 10 Digit DTMF (Whelen OD230WV).....	1,321.93	25.25
28 47 17 17-0069 EA One-Way Control Two-Tone Sequential Option (Whelen OTT).....	293.54	25.25
28 47 17 17-0070 EA Two Way Controls, Contact Closure Activation Board (Whelen O AUXCS).....	479.39	25.25
28 47 17 17-0071 EA Two Way Landline Activation (Whelen OC2030LL).....	498.04	25.25
28 47 17 17-0072 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen OC230NV).....	1,652.51	25.25
28 47 17 17-0073 EA UHF Narrow-Band, 10 Digit DTMF (Whelen OC230NU).....	1,652.51	25.25
28 47 17 17-0074 EA UHF, 10 Digit DTMF (Whelen OC230WU).....	1,652.51	25.25
28 47 17 17-0075 EA VHF High Band, 10 Digit DTMF (Whelen OC230WV).....	1,652.51	25.25
28 47 17 17-0076 EA Converts The Omni-Alert Siren Activation Controls To FSK Format (Whelen OFSKXMOD).....	594.67	25.25
28 47 17 17-0077 EA Paging Interface To Interface Whelen Tones With Existing In-Plant Systems (Whelen OPGINT).....	277.18	25.25
28 47 17 17-0078 EA Cabinet Window LED Status Indicator (Whelen O STATUS).....	313.60	25.25
28 47 17 17-0079 EA Intrusion Alarm (Whelen O INTRU).....	172.38	25.25
28 47 17 17-0080 EA 80 Watt Solar Power Option (Whelen OSBC280).....	3,074.69	151.47
28 47 17 17-0081 EA One Pair Of Whelen Approved Batteries For OmniaAlert (Whelen BSETO).....	631.69	37.87
28 47 17 17-0082 Tone-Only Rotating Directional Speakers (28 47 17 17)		
28 47 17 17-0083 EA 3 Cells, 127 dB, Tone-Only Rotating Directional Speaker (Whelen VORTEXR3).....	16,078.46	752.00
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0084 EA 4 Cells, 129 dB, Tone-Only Rotating Directional Speaker (Whelen VORTEXR4).....	17,041.79	780.93
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0085 EA Limited Function Auxiliary Board For Contact Closure Activation (Whelen VAUXIN).....	200.63	25.25
28 47 17 17-0086 EA Landline, 10 Digit DTMF (Whelen VD2030LL).....	405.65	25.25
28 47 17 17-0087 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen VD230NV).....	1,508.41	25.25
28 47 17 17-0088 EA UHF Narrow-Band, 10 Digit DTMF (Whelen VD230NU).....	1,508.41	25.25
28 47 17 17-0089 EA UHF Wide-Band, 10 Digit DTMF (Whelen VD230WU).....	1,364.32	25.25
28 47 17 17-0090 EA VHF High-Wide Band, 10 Digit DTMF (Whelen VD230WV).....	1,321.93	25.25
28 47 17 17-0091 EA Two-Tone Sequential Option (Order One-Way Control Option, Above, VD2020LI, VD2020H, VD2020U) (Whelen VORTT).....	293.54	25.25
28 47 17 17-0092 EA Full Function Auxiliary/Status Control Board For Contact Closure Activation (Whelen VAUXCS).....	470.07	25.25
28 47 17 17-0093 EA Landline, 10 Digit DTMF (Whelen VC2030LL).....	498.04	25.25
28 47 17 17-0094 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen VC230NV).....	1,652.51	25.25
28 47 17 17-0095 EA UHF Narrow-Band, 10 Digit DTMF (Whelen VC230NU).....	1,652.51	25.25
28 47 17 17-0096 EA UHF, 10 Digit DTMF (Whelen VC230WU).....	1,652.51	25.25
28 47 17 17-0097 EA VHF High Band, 10 Digit DTMF (Whelen VC230WV).....	1,652.51	25.25
28 47 17 17-0098 EA Option To Convert The Vortex Activation Controls To FSK Format (Whelen VFSKXMOD).....	594.67	25.25
28 47 17 17-0099 EA Cabinet Window LED Status Indicator (Whelen VSTATUS).....	350.55	25.25
28 47 17 17-0100 EA Paging Interface To Interface Whelen Tones With Existing In-Plant Systems (Whelen VPGINT).....	277.18	25.25
28 47 17 17-0101 EA Vortex Intrusion Alarm (Whelen VINTRU).....	172.38	25.25
28 47 17 17-0102 EA Speaker Pole Top Bracket (Whelen VPTB).....	479.39	25.25
28 47 17 17-0103 EA 80 Watt Solar Power Option (Whelen VSBC280).....	3,074.69	151.47
28 47 17 17-0104 EA One Pair Of Whelen Approved Batteries For Vortex Series (Whelen BSETVOR).....	631.69	37.87
28 47 17 17-0105 EA Program Charge For Custom VROM Message (Whelen VPROG).....	2,488.28	
28 47 17 17-0106 Uni-Directional Rotating Speakers (28 47 17 17)		

28 Electronic Safety and Security

28 40 Life Safety

28 47 Mass Notification



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 17 17-0107	EA		118 dB, Uni-Directional Rotating Speaker (Whelen HORNET).....	10,382.84	665.23
28 47 17 17-0108	EA		One Way Contact Closure Activation Control Board (Whelen HAUXIN).....	200.63	25.25
28 47 17 17-0109	EA		Landline, One Way Control, 10 Digit DTMF (Whelen HD2030LL).....	405.65	25.25
28 47 17 17-0110	EA		VHF High-Narrow Band, One Way Control, 10 Digit DTMF (Whelen HD230NV).....	1,508.41	25.25
28 47 17 17-0111	EA		UHF Narrow-Band, One Way Control, 10 Digit DTMF (Whelen HD230NU).....	1,508.41	25.25
28 47 17 17-0112	EA		UHF Wide-Band, One Way Control, 10 Digit DTMF (Whelen HD230WU).....	1,364.32	25.25
28 47 17 17-0113	EA		VHF High-Wide Band, One Way Control, 10 Digit DTMF (Whelen HD230WV).....	1,321.93	25.25
28 47 17 17-0114	EA		Two-Tone Sequential Option For Hornet (Whelen HORTT).....	327.67	25.25
28 47 17 17-0115	EA		Two Way Contact Closure Activation And Status Control Board (Whelen HAUXCS).....	418.40	25.25
28 47 17 17-0116	EA		Landline, Two Way Control, 10 Digit DTMF (Whelen HC2030LL).....	442.93	25.25
28 47 17 17-0117	EA		VHF High-Narrow Band, Two Way Control, 10 Digit DTMF (Whelen HC230NV).....	1,652.51	25.25
28 47 17 17-0118	EA		UHF Narrow-Band, Two Way Control, 10 Digit DTMF (Whelen HC230NU).....	1,652.51	25.25
28 47 17 17-0119	EA		UHF, Two Way Control, 10 Digit DTMF (Whelen HC230WU).....	1,652.51	25.25
28 47 17 17-0120	EA		VHF High Band, Two Way Control, 10 Digit DTMF (Whelen HC230WV).....	1,652.51	25.25
28 47 17 17-0121	EA		Converts Siren Activation Controls To FSK Format (Whelen HFSKXMOD).....	594.67	25.25
28 47 17 17-0122	EA		LED Status Indicator (Whelen HSTATUS).....	313.60	25.25
28 47 17 17-0123	EA		Option For Paging Interface (Whelen HPGINT).....	277.18	25.25
28 47 17 17-0124	EA		Intrusion Alarm (Whelen HINTRU).....	172.38	25.25
28 47 17 17-0125	EA		Solar Power Option (Whelen HSBC280).....	3,074.69	151.47
28 47 17 17-0126	EA		Pole Top Bracket For Speaker (Whelen HPTB).....	440.70	25.25
28 47 17 17-0127	EA		One Pair Of Whelen Approved Batteries (Whelen BSETF).....	631.69	37.87
28 47 17 17-0128 All Hazard In-Plant Personnel Warning System (28 47 17 17)					
28 47 17 17-0129	EA		400 Watt, Voice Capable, In-Plant Personnel Warning System (Whelen IPS400).....	5,209.65	807.85
28 47 17 17-0130	EA		800 Watt, Voice Capable, In-Plant Personnel Warning System (Whelen IPS800).....	6,301.62	908.83
28 47 17 17-0131	EA		15 Watt, Wide Angle Speaker (Whelen WS15T).....	286.07	37.87
28 47 17 17-0132	EA		Recess Mounted, 15 Watt Speaker (Whelen WS15TR).....	274.18	37.87
28 47 17 17-0133	EA		With Grill, Recess Mounted, 15 Watt Speaker (Whelen WS15TEN).....	512.02	37.87
28 47 17 17-0134	EA		30 Watt, Wide Angle Speaker (Whelen WS30T).....	353.71	37.87
28 47 17 17-0135	EA		60 Watt, Wide Angle Speaker (Whelen WS60T).....	701.55	37.87
28 47 17 17-0136	EA		Explosion-Proof, 60 Watt, Wide Angle Speaker (Whelen WSXP6T).....	1,213.19	42.91
28 47 17 17-0137	EA		100 Watt, Wide Angle Speaker (Whelen WS100).....	451.82	37.87
28 47 17 17-0138	EA		Weatherproof Housing, 100 Watt, Wide Angle Speaker (Whelen WS100TCH).....	699.77	42.91
28 47 17 17-0139	EA		Intrusion Alarm For Whelen Outdoor Speaker Cabinets (Whelen INTRU).....	172.38	25.25
28 47 17 17-0140 Firehouse Siren (28 47 17 17)					
28 47 17 17-0141	EA		Auxiliary Board Contact Closure (Whelen FAUXIN).....	200.63	25.25
28 47 17 17-0142	EA		Two-Tone Sequential Option (Whelen FTT).....	293.54	25.25
28 47 17 17-0143	EA		Auxiliary/Status Control Board (Whelen FAUXCS).....	470.07	25.25
28 47 17 17-0144	EA		Landline, 10 Digit DTMF (Whelen FC2030LL).....	442.93	25.25
28 47 17 17-0145	EA		VHF High-Narrow Band, 10 Digit DTMF (Whelen FC230NV).....	1,652.51	25.25
28 47 17 17-0146	EA		UHF Narrow-Band, 10 Digit DTMF (Whelen FC230NU).....	1,652.51	25.25
28 47 17 17-0147	EA		UHF, 10 Digit DTMF (Whelen FC230WU).....	1,652.51	25.25
28 47 17 17-0148	EA		VHF High Band, 10 Digit DTMF (Whelen FC230WV).....	1,652.51	25.25
28 47 17 17-0149	EA		Paging Interface Control Option (Whelen FPGINT).....	277.18	25.25
28 47 17 17-0150	EA		Intrusion Alarm Control Option (Whelen FINTRU).....	172.38	25.25
28 47 17 17-0151	EA		Solar Power Option (Whelen FSBC280).....	3,074.69	151.47
Note: Two 80 watt panels, with brackets and solar regulator.					
28 47 17 17-0152 Alert Monitor And Message Display (28 47 17 17)					
28 47 17 17-0153	EA		Alert Monitor With Radio Receiver VHF High Band (Whelen V2000H).....	1,381.27	25.25
28 47 17 17-0154	EA		Alert Monitor VHF High-Narrow Band (Whelen V2000NH).....	1,381.27	25.25
28 47 17 17-0155	EA		Alert Monitor UHF Narrow-Band (Whelen V2000NU).....	1,381.27	25.25
28 47 17 17-0156	EA		Alert Monitor With Radio Receiver UHF (Whelen V2000U).....	1,381.27	25.25
28 47 17 17-0157	EA		Internal Battery And Charger For VA2000 Series (Whelen VA2BATT).....	184.99	37.87
28 47 17 17-0158	EA		Mounting Bracket For Under Cabinet Or Vehicle Mounting - VA2000 Series (Whelen VA2MTG).....	58.67	25.25
28 47 17 17-0159	EA		Factory Programming Of 1 To 15 VA2000 Display Messages (Whelen VA2PROGA).....	105.54	
28 47 17 17-0160	EA		Factory Programming Of 16 To 45 VA2000 Display Messages (Whelen VA2PROGB).....	165.75	
28 47 17 17-0161 Portable Test Set (28 47 17 17)					
28 47 17 17-0162	EA		VHF High Band, Portable Test Set (Whelen PT2010H).....	5,535.02	
28 47 17 17-0163	EA		VHF Low Band, Portable Test Set (Whelen PT2010L).....	5,535.02	
28 47 17 17-0164	EA		UHF, Portable Test Set (Whelen PT2010U).....	5,535.02	
28 47 17 17-0165 Replacement Warning Lights (28 47 17 17)					
28 47 17 17-0166	EA		Amber, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IA).....	282.95	40.40
28 47 17 17-0167	EA		Blue, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IB).....	282.95	40.40
28 47 17 17-0168	EA		Clear, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IC).....	282.95	40.40
28 47 17 17-0169	EA		Green, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IG).....	282.95	40.40
28 47 17 17-0170	EA		Red, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IR).....	282.95	40.40
28 47 17 17-0171	EA		Amber, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IA).....	303.01	40.40
28 47 17 17-0172	EA		Blue, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IB).....	202.67	40.40
28 47 17 17-0173	EA		Clear, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IC).....	300.04	40.40
28 47 17 17-0174	EA		Green, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IG).....	300.04	40.40
28 47 17 17-0175	EA		Red, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IR).....	300.04	40.40



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 17 17-0176 EA Amber, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HA)	282.95	40.40
28 47 17 17-0177 EA Blue, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HB)	282.95	40.40
28 47 17 17-0178 EA Clear, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HC)	282.95	40.40
28 47 17 17-0179 EA Green, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HG)	282.95	40.40
28 47 17 17-0180 EA Red, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HR)	282.95	40.40
28 47 17 17-0181 EA Amber, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HA)	314.91	40.40
28 47 17 17-0182 EA Blue, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HB)	314.91	40.40
28 47 17 17-0183 EA Clear, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HC)	210.11	40.40
28 47 17 17-0184 EA Green, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HG)	210.11	40.40
28 47 17 17-0185 EA Red, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HR)	210.11	40.40
28 47 17 17-0186 Antenna <small>(28 47 17 17)</small>		
28 47 17 17-0187 EA 50' Antenna Cable (Honeywell Ademco 7626-50HC)	219.02	
28 47 17 17-0188 EA External/Remote Weatherproof Antenna (Honeywell Ademco GSM-ANT3DB)	206.16	
28 47 17 17-0189 EA 80GHz Millimeter Wave Radio (BridgeWave Flex4G-1000).....	10,462.09	

END OF SECTION 28

28	28	Electronic Safety and Security
	28 40	Life Safety
	28 47	Mass Notification



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 Earthwork

31 01 Maintenance of Earthwork ⁽³¹⁾

31 01 20 Maintenance of Earth Moving ^(31 01)

31 01 20 00-0001 Rip Settling Basins ^(31 01 20)

Note: Rip through light soil and sand in settling basin. 8' on center (machine width).

31 01 20 00-0002	ACR Rip Light Soil And Sand, By Dozer	619.78
31 01 20 00-0003	ACR Rip Light Soil And Sand, By Grader With Rear Ripper	942.17
31 01 20 00-0004	ACR Rip Light Soil And Sand, By Rubber Tire Front End Loader	809.77

31 05 Common Work Results for Earthwork ⁽³¹⁾

31 05 13 Soils for Earthwork ^(31 05)

Note: Includes delivery up to 15 miles from the closest approved source and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

31 05 13 00-0001 Fill Material (Loose, Purchased Material) ^(31 05 13)

Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

31 05 13 00-0002	CY Bank Run/Fill Sand	32.15
	For Up To 8, Add	6.43
	For >8 To 16, Add	3.22
	For >48 To 64, Deduct	-2.34
	For >64 To 96, Deduct	-3.95
	For >96, Deduct	-5.56
31 05 13 00-0003	CY Screened/Washed Filter/Septic Sand	38.16
	For Up To 8, Add	7.63
	For >8 To 16, Add	3.82
	For >48 To 64, Deduct	-2.64
	For >64 To 96, Deduct	-4.55
	For >96, Deduct	-6.46
31 05 13 00-0004	CY 3/8" Minus, ASTM C33, Screened/Washed Bedding Sand	52.60
	For Up To 8, Add	10.52
	For >8 To 16, Add	5.26
	For >48 To 64, Deduct	-3.37
	For >64 To 96, Deduct	-6.00
	For >96, Deduct	-8.63
31 05 13 00-0005	CY 3/16" Minus, Screened/Washed Concrete Sand	47.19
	For Up To 8, Add	9.44
	For >8 To 16, Add	4.72
	For >48 To 64, Deduct	-3.09
	For >64 To 96, Deduct	-5.45
	For >96, Deduct	-7.81
31 05 13 00-0006	CY 3/32" Minus, Screened/Washed Masonry/Mortar Sand	84.49
	For Up To 8, Add	16.90
	For >8 To 16, Add	8.45
	For >48 To 64, Deduct	-4.96
	For >64 To 96, Deduct	-9.18
	For >96, Deduct	-13.41
31 05 13 00-0007	CY Common Fill, Native Soil/Dirt	39.97
	For Up To 8, Add	7.99
	For >8 To 16, Add	4.00
	For >48 To 64, Deduct	-2.73
	For >64 To 96, Deduct	-4.73
	For >96, Deduct	-6.73
31 05 13 00-0008	CY Lime Rock Screening	36.18
	For Up To 8, Add	7.24
	For >8 To 16, Add	3.62
	For >48 To 64, Deduct	-2.54
	For >64 To 96, Deduct	-4.35
	For >96, Deduct	-6.16
31 05 13 00-0009	CY Crushed Lime Rock Maximum 3-1/2"	36.18
	For Up To 8, Add	7.24
	For >8 To 16, Add	3.62
	For >48 To 64, Deduct	-2.54
	For >64 To 96, Deduct	-4.35
	For >96, Deduct	-6.16
31 05 13 00-0010	CY Sand/Clay	40.18
	For Up To 8, Add	8.04
	For >8 To 16, Add	4.02
	For >48 To 64, Deduct	-2.74
	For >64 To 96, Deduct	-4.75
	For >96, Deduct	-6.76
31 05 13 00-0011	CY Recycled Concrete Aggregate	32.45
	For Up To 8, Add	6.49
	For >8 To 16, Add	3.25
	For >48 To 64, Deduct	-2.36
	For >64 To 96, Deduct	-3.98
	For >96, Deduct	-5.60

31 Earthwork**31 05 Common Work Results for Earthwork****31 05 13 Soils for Earthwork**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 13 00-0012 CY Pitrun Clay	58.02	
For Up To 8, Add	11.60	
For >8 To 16, Add	5.80	
For >48 To 64, Deduct	-3.64	
For >64 To 96, Deduct	-6.54	
For >96, Deduct	-9.44	
31 05 13 00-0013 CY Light Clay / Loam	47.13	
For Up To 8, Add	9.43	
For >8 To 16, Add	4.71	
For >48 To 64, Deduct	-3.09	
For >64 To 96, Deduct	-5.45	
For >96, Deduct	-7.80	
31 05 13 00-0014 CY Heavy Clay	58.02	
For Up To 8, Add	11.60	
For >8 To 16, Add	5.80	
For >48 To 64, Deduct	-3.64	
For >64 To 96, Deduct	-6.54	
For >96, Deduct	-9.44	
31 05 13 00-0015 CY SDG&E Sand	39.73	
31 05 13 00-0016 TON SDG&E B20 Sand	41.16	

31 05 16 Aggregates for Earthwork ^(31 05)

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

31 05 16 00-0001 Aggregate (Loose, Purchased Material) ^(31 05 16)

Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles, 01 74 19 00-0052 for hauling greater than 15 miles.

31 05 16 00-0002 CY #2 Stone Aggregate Fill (1-1/2" To 2-1/2" Clean)	48.39	
For Up To 8, Add	9.68	
For >8 To 16, Add	4.84	
For >48 To 64, Deduct	-3.15	
For >64 To 96, Deduct	-5.57	
For >96, Deduct	-7.99	
31 05 16 00-0003 CY #3 Stone Aggregate Fill (1" To 2" Clean)	50.36	
For Up To 8, Add	10.07	
For >8 To 16, Add	5.04	
For >48 To 64, Deduct	-3.25	
For >64 To 96, Deduct	-5.77	
For >96, Deduct	-8.29	
31 05 16 00-0004 CY #4 Stone Aggregate Fill (3/4" To 1-1/2" Clean)	48.39	
For Up To 8, Add	9.68	
For >8 To 16, Add	4.84	
For >48 To 64, Deduct	-3.15	
For >64 To 96, Deduct	-5.57	
For >96, Deduct	-7.99	
31 05 16 00-0005 CY #5 Stone Aggregate Fill (1/2" To 1" Clean)	51.79	
For Up To 8, Add	10.36	
For >8 To 16, Add	5.18	
For >48 To 64, Deduct	-3.32	
For >64 To 96, Deduct	-5.91	
For >96, Deduct	-8.50	
31 05 16 00-0006 CY #6 Stone Aggregate Fill (3/8" To 3/4" Clean)	53.80	
For Up To 8, Add	10.76	
For >8 To 16, Add	5.38	
For >48 To 64, Deduct	-3.43	
For >64 To 96, Deduct	-6.12	
For >96, Deduct	-8.81	
31 05 16 00-0007 CY #56 Stone Aggregate Fill (3/8" To 1")	52.11	
For Up To 8, Add	10.42	
For >8 To 16, Add	5.21	
For >48 To 64, Deduct	-3.34	
For >64 To 96, Deduct	-5.95	
For >96, Deduct	-8.55	
31 05 16 00-0008 CY #57 Stone Aggregate Fill (3/8" To 1")	55.61	
For Up To 8, Add	11.12	
For >8 To 16, Add	5.56	
For >48 To 64, Deduct	-3.52	
For >64 To 96, Deduct	-6.30	
For >96, Deduct	-9.08	
31 05 16 00-0009 CY #67 Or #68 Stone Aggregate Fill (3/16" To 3/4")	50.25	
For Up To 8, Add	10.05	
For >8 To 16, Add	5.03	
For >48 To 64, Deduct	-3.25	
For >64 To 96, Deduct	-5.76	
For >96, Deduct	-8.27	
31 05 16 00-0010 CY #7 Stone Aggregate Fill (3/8" To 1/2")	51.23	
For Up To 8, Add	10.25	
For >8 To 16, Add	5.12	
For >48 To 64, Deduct	-3.30	
For >64 To 96, Deduct	-5.86	
For >96, Deduct	-8.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 16 00-0011 CY #78 Stone Aggregate Fill (3/32" To 1/2").....	51.65	
<i>For Up To 8, Add</i>	10.33	
<i>For >8 To 16, Add</i>	5.17	
<i>For >48 To 64, Deduct</i>	-3.32	
<i>For >64 To 96, Deduct</i>	-5.90	
<i>For >96, Deduct</i>	-8.48	
31 05 16 00-0012 CY #8 Stone Aggregate Fill (3/32" To 3/8").....	53.80	
<i>For Up To 8, Add</i>	10.76	
<i>For >8 To 16, Add</i>	5.38	
<i>For >48 To 64, Deduct</i>	-3.43	
<i>For >64 To 96, Deduct</i>	-6.12	
<i>For >96, Deduct</i>	-8.81	
31 05 16 00-0013 CY #89 Stone Aggregate Fill (1/16" To 3/8").....	54.41	
<i>For Up To 8, Add</i>	10.88	
<i>For >8 To 16, Add</i>	5.44	
<i>For >48 To 64, Deduct</i>	-3.46	
<i>For >64 To 96, Deduct</i>	-6.18	
<i>For >96, Deduct</i>	-8.90	
31 05 16 00-0014 CY #9 Stone Aggregate Fill (3/32" To 3/16").....	53.80	
<i>For Up To 8, Add</i>	10.76	
<i>For >8 To 16, Add</i>	5.38	
<i>For >48 To 64, Deduct</i>	-3.43	
<i>For >64 To 96, Deduct</i>	-6.12	
<i>For >96, Deduct</i>	-8.81	
31 05 16 00-0015 CY #10 Stone Aggregate Fill (1/16" To 3/16").....	55.04	
<i>For Up To 8, Add</i>	11.01	
<i>For >8 To 16, Add</i>	5.50	
<i>For >48 To 64, Deduct</i>	-3.49	
<i>For >64 To 96, Deduct</i>	-6.24	
<i>For >96, Deduct</i>	-8.99	
31 05 16 00-0016 CY #610 Modified Stone Aggregate Fill (1/16" To 3/4").....	54.41	
<i>For Up To 8, Add</i>	10.88	
<i>For >8 To 16, Add</i>	5.44	
<i>For >48 To 64, Deduct</i>	-3.46	
<i>For >64 To 96, Deduct</i>	-6.18	
<i>For >96, Deduct</i>	-8.90	
31 05 16 00-0017 CY Screenings Stone Aggregate Fill (3/16" Max)	45.62	
<i>For Up To 8, Add</i>	9.12	
<i>For >8 To 16, Add</i>	4.56	
<i>For >48 To 64, Deduct</i>	-3.02	
<i>For >64 To 96, Deduct</i>	-5.30	
<i>For >96, Deduct</i>	-7.58	
31 05 16 00-0018 CY Over 6" To 12" Stone Aggregate Fill, Random Size.....	49.59	
<i>For Up To 8, Add</i>	9.92	
<i>For >8 To 16, Add</i>	4.96	
<i>For >48 To 64, Deduct</i>	-3.21	
<i>For >64 To 96, Deduct</i>	-5.69	
<i>For >96, Deduct</i>	-8.17	
31 05 16 00-0019 CY Over 6" To 12" Graded Stone Aggregate Fill	49.59	
<i>For Up To 8, Add</i>	9.92	
<i>For >8 To 16, Add</i>	4.96	
<i>For >48 To 64, Deduct</i>	-3.21	
<i>For >64 To 96, Deduct</i>	-5.69	
<i>For >96, Deduct</i>	-8.17	
31 05 16 00-0020 CY 3" To 7" Surge Stone Aggregate Fill, Random Size.....	53.56	
<i>For Up To 8, Add</i>	10.71	
<i>For >8 To 16, Add</i>	5.36	
<i>For >48 To 64, Deduct</i>	-3.41	
<i>For >64 To 96, Deduct</i>	-6.09	
<i>For >96, Deduct</i>	-8.77	
31 05 16 00-0021 CY 3" To 7" Surge Stone Graded Aggregate Fill	56.39	
<i>For Up To 8, Add</i>	11.28	
<i>For >8 To 16, Add</i>	5.64	
<i>For >48 To 64, Deduct</i>	-3.55	
<i>For >64 To 96, Deduct</i>	-6.37	
<i>For >96, Deduct</i>	-9.19	
31 05 16 00-0022 CY Crusher Run Aggregate Fill (2-1/2" Minus)	31.80	
<i>For Up To 8, Add</i>	6.36	
<i>For >8 To 16, Add</i>	3.18	
<i>For >48 To 64, Deduct</i>	-2.33	
<i>For >64 To 96, Deduct</i>	-3.92	
<i>For >96, Deduct</i>	-5.51	
31 05 16 00-0023 CY Crusher Run Aggregate Fill (1-1/2" Minus)	34.91	
<i>For Up To 8, Add</i>	6.98	
<i>For >8 To 16, Add</i>	3.49	
<i>For >48 To 64, Deduct</i>	-2.48	
<i>For >64 To 96, Deduct</i>	-4.23	
<i>For >96, Deduct</i>	-5.97	
31 05 16 00-0024 CY Crusher Run Aggregate Fill (3/4" Minus)	32.89	
<i>For Up To 8, Add</i>	6.58	
<i>For >8 To 16, Add</i>	3.29	
<i>For >48 To 64, Deduct</i>	-2.38	
<i>For >64 To 96, Deduct</i>	-4.02	
<i>For >96, Deduct</i>	-5.67	

31 Earthwork**31 05 Common Work Results for Earthwork****31 05 16 Aggregates for Earthwork**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 16 00-0025 CY Silica Sand #20 (For Playground Use Only).....	214.81	
For Up To 8, Add	42.96	
For >8 To 16, Add	21.48	
For >48 To 64, Deduct	-11.48	
For >64 To 96, Deduct	-22.22	
For >96, Deduct	-32.96	
31 05 16 00-0026 CY Graded Aggregate Base Fill (3/4" Minus) Class II Base.....	60.61	
For Up To 8, Add	12.12	
For >8 To 16, Add	6.06	
For >48 To 64, Deduct	-3.77	
For >64 To 96, Deduct	-6.80	
For >96, Deduct	-9.83	

31 05 36 Equipment Delivery, Pickup, Mobilization and Demobilization ⁽³¹⁾

⁽⁰⁵⁾
See CSI section 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.

31 10 Site Clearing ⁽³¹⁾**31 11 Clearing and Grubbing** ^(31 10)**31 11 00 00-0001 Clear And Grub Roots And Stumps** ^(31 11)

Note: Tree diameter (diameter at breast height) is the diameter of the tree trunk measured at 4.5' above ground level. Based on tree density (light, medium or heavy) to be removed. Excludes loading. See CSI section 31 13 13 00-0001 for small areas or individual trees removal.

31 11 00 00-0002 ACR Clear And Grub Light Trees Up To 6" Diameter, Cut And Chip.....	7,533.43	
Note: Includes grub and removal of stump		
31 11 00 00-0003 ACR Clear And Grub Light Stumps Only Up To 6" Diameter.....	1,971.92	
31 11 00 00-0004 ACR Clear And Grub Medium Trees Up To 10" Diameter, Cut And Chip.....	8,789.00	
Note: Includes grub and removal of stump		
31 11 00 00-0005 ACR Clear And Grub Medium Stumps Only Up To 10" Diameter.....	3,286.53	
31 11 00 00-0006 ACR Clear And Grub Heavy Trees Up To 16" Diameter, Cut And Chip.....	9,987.50	
Note: Includes grub and removal of stump		
31 11 00 00-0007 ACR Clear And Grub Heavy Stumps Only Up To 16" Diameter.....	3,735.15	
31 11 00 00-0008 ACR Clearing By Machine - Light Brush Without Grub.....	290.65	
31 11 00 00-0009 ACR Clearing By Machine - Medium Brush Without Grub.....	613.96	
31 11 00 00-0010 ACR Clearing By Machine - Heavy Brush Without Grub.....	865.96	
31 11 00 00-0011 ACR Chipping - Light Brush.....	2,344.15	
31 11 00 00-0012 ACR Chipping - Medium Brush.....	3,014.06	
31 11 00 00-0013 ACR Chipping - Heavy Brush.....	4,220.07	

31 11 00 00-0014 Loading Of Cleared And Grubbed Material ^(31 11)

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

31 11 00 00-0015 CY Machine Loading Of Cleared And Grubbed Material.....	10.36	
31 11 00 00-0016 CY Chute Loading Of Cleared And Grubbed Material.....	12.44	
31 11 00 00-0017 CY Hand Loading Of Cleared And Grubbed Material.....	34.27	
31 11 00 00-0018 CY Wheel And Ramp Loading Of Cleared And Grubbed Material.....	26.93	

31 13 Selective Tree and Shrub Removal and Trimming ^(31 10)**31 13 13 Selective Tree and Shrub Removal** ^(31 13)**31 13 13 00-0001 Individual Tree Removal** ^(31 13 13)

Note: Includes sawing and chipping branches. Tree diameter, D.B.H. (Diameter At Breast Height) is the diameter of the tree trunk measured at 4.5' above ground elevation. Excludes stump removal or grinding.

31 13 13 00-0002 EA Up To 6" D.B.H. (Diameter At Breast Height) Tree Removal.....	549.31	
Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0003 EA >6" To 12" D.B.H. (Diameter At Breast Height) Tree Removal.....	823.97	
Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0004 EA >12" To 24" D.B.H. (Diameter At Breast Height) Tree Removal.....	1,098.62	
Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0005 EA >24" To 36" D.B.H. (Diameter At Breast Height) Tree Removal.....	1,647.94	
Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0006 EA >36" To 48" D.B.H. (Diameter At Breast Height) Tree Removal.....	2,197.25	
Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0007 EA >48" To 60" D.B.H. (Diameter At Breast Height) Tree Removal.....	2,746.56	
Note: Includes cutting up tree, chipping and loading.		
For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-686.64	
31 13 13 00-0008 EA >60" To 72" D.B.H. (Diameter At Breast Height) Tree Removal.....	3,295.87	
Note: Includes cutting up tree, chipping and loading.		
For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-823.97	
31 13 13 00-0009 EA >72" To 84" D.B.H. (Diameter At Breast Height) Tree Removal.....	4,394.50	
Note: Includes cutting up tree, chipping and loading.		
For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-1,098.63	

31 13 13 00-0010 Stump Removal ^(31 13 13)

Note: Measured by diameter of stump.

31 13 13 00-0011 Stump Removal By Machine ^(31 13 13 00-0010)



Earthwork	31	31
Site Clearing	31 10	
Selective Tree and Shrub Removal and Trimming	31 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 13 13 00-0012 EA Up To 6" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading.	98.60	
31 13 13 00-0013 EA >6" To 12" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading.	188.98	
31 13 13 00-0014 EA >12" To 24" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading.	246.49	
31 13 13 00-0015 EA >24" To 36" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading.	369.75	
31 13 13 00-0016 EA >36" To 48" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading.	435.49	
31 13 13 00-0017 EA >48" To 60" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading.	512.69	
31 13 13 00-0018 EA >60" To 72" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading.	608.01	
31 13 13 00-0019 EA >72" To 84" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading.	714.82	
31 13 13 00-0020 Stump Removal By Hand <small>(31 13 13 00-0010)</small>		
31 13 13 00-0021 EA Up To 6" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	561.68	
31 13 13 00-0022 EA >6" To 12" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	702.10	
31 13 13 00-0023 EA >12" To 24" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	1,029.74	
31 13 13 00-0024 EA >24" To 36" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	1,404.18	
31 13 13 00-0025 EA >36" To 48" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	1,872.24	
31 13 13 00-0026 EA >48" To 60" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	2,340.30	
31 13 13 00-0027 EA >60" To 72" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	2,808.36	
31 13 13 00-0028 EA >72" To 84" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	3,276.43	
31 13 13 00-0029 Stump Grinding <small>(31 13 13)</small> Note: Measured by diameter of stump.		
31 13 13 00-0030 Stump Grinding, 18" Deep Below Surface Of Soil <small>(31 13 13 00-0029)</small> Note: Level soil to match existing surface area.		
31 13 13 00-0031 EA Stump Grinding Up To 6" Tree <i>For 24" Depth, Add</i>	103.25 20.65	
31 13 13 00-0032 EA Stump Grinding >6" To 12" Tree <i>For 24" Depth, Add</i>	137.66 27.53	
31 13 13 00-0033 EA Stump Grinding >12" To 15" Tree <i>For 24" Depth, Add</i>	154.87 30.97	
31 13 13 00-0034 EA Stump Grinding >15" To 18" Tree <i>For 24" Depth, Add</i>	172.08 34.42	
31 13 13 00-0035 EA Stump Grinding >18" To 21" Tree <i>For 24" Depth, Add</i>	184.98 37.00	
31 13 13 00-0036 EA Stump Grinding >21" To 24" Tree <i>For 24" Depth, Add</i>	197.89 39.58	
31 13 13 00-0037 EA Stump Grinding >24" To 27" Tree <i>For 24" Depth, Add</i>	215.10 43.02	
31 13 13 00-0038 EA Stump Grinding >27" To 30" Tree <i>For 24" Depth, Add</i>	233.70 46.74	
31 13 13 00-0039 EA Stump Grinding >30" To 33" Tree <i>For 24" Depth, Add</i>	259.66 51.93	
31 13 13 00-0040 EA Stump Grinding >33" To 36" Tree <i>For 24" Depth, Add</i>	276.98 55.40	
31 13 13 00-0041 EA Stump Grinding >36" To 42" Tree <i>For 24" Depth, Add</i>	311.60 62.32	
31 13 13 00-0042 EA Stump Grinding >42" To 48" Tree <i>For 24" Depth, Add</i>	346.22 69.24	
31 13 13 00-0043 EA Stump Grinding >48" To 60" Tree <i>For 24" Depth, Add</i>	432.77 86.55	
31 13 13 00-0044 EA Stump Grinding >60" To 72" Tree <i>For 24" Depth, Add</i>	540.96 108.19	
31 13 13 00-0045 EA Stump Grinding >72" To 84" Tree <i>For 24" Depth, Add</i>	692.44 138.49	

31 13 16 Selective Tree and Shrub Trimming (31 13)

31	31	Earthwork
	31 10	Site Clearing
	31 13	Selective Tree and Shrub Removal and Trimming



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 13 16 00-0001	Tree Trimming For Pole Line Construction And Maintenance <small>(31 13 16)</small>	
	<small>Note: Area to be vertical cleared (to include overhanging limbs) is minimum 20' wide (10' each side of structure) and 16' above ground. All materials to 6" D.B.H. (Diameter At Breast Height) to be chipped in place. Larger material may be chipped or disposed. Trees greater than 18" diameter use individual tree removal tasks. Quantity based on running foot of power line to be cleared.</small>	
31 13 16 00-0002	LF Tree Trimming, Light Cutting To 6" Diameter For Pole Line Construction.....	1.76
31 13 16 00-0003	LF Tree Trimming, Medium Cutting >6" To 12" Diameter For Pole Line Construction	2.65
31 13 16 00-0004	LF Tree Trimming, Heavy Cutting >12" To 18" Diameter For Pole Line Construction.....	3.11

31 20 Earth Moving (31)

Note: Per OSHA -Soil Classification - 1926 Subpart P App A. Light material: Class A site material, normally referred to as "easy digging". Consisting of loose, soft, free running materials. Close lying, which will fill blade, digger or bucket to capacity, and frequently provide a heaped load. Materials such as dry sand, small gravel, unpacked earth, loam, etc., would fall into this category. Medium material: Class B site material, normally referred to as "medium and tough, wet and sticky clay would be examples of this medium digging", consisting of harder materials that are not difficult to dig without assistance such as ripping, blasting, etc. Material break up with some bulkiness causing voids in digger or bucket. Materials such as packed earth, common earth with some clay, soil with less than 25% rock content would be examples of this category. Heavy/wet material: Class C site material, normally referred to as "hard digging", consisting of materials which may require some assistance in breaking up. Bulky and somewhat hard to penetrate materials would be found in this category and voids in dipper or bucket would be common. Materials such as very hard packed soil, with up to 50% to 70% rock content and hard category. Soil conditions will be determined by soil analysis to provide appropriate percentage (%) for the various types of soil conditions. Apply the percentages to the various soil types to generate an appropriate representation of the soil condition.

31 23 Excavation and Fill (31 20)

31 23 16 Excavation (31 23)

31 23 16 13 Trenching (31 23 16)

Note: Use this section for trenching operations even if the total project volume exceeds 500 CY. Use tasks for work by hand only for areas not accessible by machine.

31 23 16 13-0001 Excavation For Trenching By Machine (31 23 16 13)

Note: Includes stockpiling excess materials and trimming sides and bottom of trench.

31 23 16 13-0002	CY 12" Wide or Less, Excavation for Trenching by Machine in Soil	10.07
	<i>For Excavation In Light Material (Class A), Deduct</i>	-1.26
	<i>For Excavation In Heavy/Wet Material (Class C), Add</i>	4.03
	<i>For Up To 20, Add</i>	8.06
	<i>For >20 To 50, Add</i>	5.04
	<i>For >50 To 250, Add</i>	2.52
	<i>For >500 To 1,000, Deduct</i>	-1.51
	<i>For >1,000, Deduct</i>	-3.02
31 23 16 13-0003	CY Over 12" Wide, Excavation for Trenching by Machine in Soil	6.70
	<i>For Excavation In Light Material (Class A), Deduct</i>	-0.84
	<i>For Excavation In Heavy/Wet Material (Class C), Add</i>	2.68
	<i>For Up To 20, Add</i>	5.36
	<i>For >20 To 50, Add</i>	3.35
	<i>For >50 To 250, Add</i>	1.68
	<i>For >500 To 1,000, Deduct</i>	-1.01
	<i>For >1,000, Deduct</i>	-2.01
31 23 16 13-0004	CY 12" Wide or Less, Excavation for Trenching by Machine in Loose Rock.....	16.66
	<small>Note: Includes compacted aggregate</small>	
	<i>For Up To 20, Add</i>	13.33
	<i>For >20 To 50, Add</i>	8.33
	<i>For >50 To 250, Add</i>	4.17
	<i>For >500 To 1,000, Deduct</i>	-2.50
	<i>For >1,000, Deduct</i>	-5.00
31 23 16 13-0005	CY Over 12" Wide, Excavation for Trenching by Machine in Loose Rock	11.90
	<small>Note: Includes compacted aggregate</small>	
	<i>For Up To 20, Add</i>	9.52
	<i>For >20 To 50, Add</i>	5.95
	<i>For >50 To 250, Add</i>	2.98
	<i>For >500 To 1,000, Deduct</i>	-1.79
	<i>For >1,000, Deduct</i>	-3.57

31 23 16 13-0006 Excavation For Trenching By Hand (31 23 16 13)

31 23 16 13-0007	CY Excavation For Trenching By Hand In Soil.....	113.09
	<small>Note: Includes stockpiling excess materials and trimming sides and bottom of trench.</small>	
31 23 16 13-0008	CY Excavation For Trenching By Hand In Loose Rock Or Compacted Aggregate	194.00
	<small>Note: Includes stockpiling excess materials and trimming sides and bottom of trench.</small>	

31 23 16 13-0009 Backfilling Or Placing Subbase For Trenches (31 23 16 13)

Note: With imported or stockpiled materials.

31 23 16 13-0010	CY Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Machine	3.60
	<i>For Up To 20, Add</i>	2.88
	<i>For >20 To 50, Add</i>	1.80
	<i>For >50 To 250, Add</i>	0.90
	<i>For >500 To 1,000, Deduct</i>	-0.54
	<i>For >1,000, Deduct</i>	-1.08
31 23 16 13-0011	CY Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Hand.....	31.42

31 23 16 13-0012 Compaction Of Fill Or Subbase For Trenches (31 23 16 13)

Note: Includes restoration of final grade.



Earthwork	31	15
Earth Moving	31 20	
Excavation and Fill	31 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 13-0013 CY Compaction of Fill or Subbase for Trenches by Vibratory Plate, Air Tamper, Etcetera.....	6.58	
For Up To 20, Add	5.26	
For >20 To 50, Add	3.29	
For >50 To 250, Add	1.65	
For >500 To 1,000, Deduct	-0.99	
For >1,000, Deduct	-1.97	
31 23 16 13-0014 CY Compaction of Fill or Subbase for Trenches by Hand.....	35.44	
31 23 16 13-0015 Loading Excess Material For Removal From Excavation For Trenches (31 23 16 13)		
Note: Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0050 for hauling.		
31 23 16 13-0016 CY Load Excess Material by Machine for Removal from Excavation for Trenching.....	6.27	
For Up To 20, Add	5.02	
For >20 To 50, Add	3.14	
For >50 To 250, Add	1.57	
For >500 To 1,000, Deduct	-0.94	
For >1,000, Deduct	-1.88	
31 23 16 13-0017 CY Load Excess Material by Hand for Removal from Excavation for Trenching.....	82.93	
31 23 16 13-0018 Spread Excess Or Imported Material For Trenches (31 23 16 13)		
Note: Includes hand work by laborer for clean-up.		
31 23 16 13-0019 CY Spread Excess Or Imported Material On Site With Machine.....	2.95	
For Up To 20, Add	2.36	
For >20 To 50, Add	1.48	
For >50 To 250, Add	0.74	
For >500 To 1,000, Deduct	-0.44	
For >1,000, Deduct	-0.89	
31 23 16 13-0020 Direct Burial (Plowed-in) Cable Or Piping By Machine (31 23 16 13)		
Note: Includes trench, backfill, compaction and restoration of final grade.		
31 23 16 13-0021 LF Direct Burial of Cable or Piping up to 12" Deep	2.22	
31 23 16 13-0022 LF Direct Burial of Cable or Piping >12" to 24" Deep.....	2.44	
31 23 16 13-0023 LF Direct Burial of Cable or Piping >24" to 36" Deep.....	3.48	
31 23 16 13-0024 LF Direct Burial of Cable or Piping >36" to 48" Deep	3.93	
31 23 16 13-0025 Utility Chain Trencher (31 23 16 13)		
31 23 16 13-0026 Utility Trench, Chain Trencher (31 23 16 13-0025)		
Note: Earth left adjacent to trench.		
31 23 16 13-0027 LF 4" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	1.20	
For >100 To 250, Deduct	-0.08	
For >250 To 500, Deduct	-0.18	
For >500, Deduct	-0.36	
31 23 16 13-0028 LF 4" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	1.31	
For >100 To 250, Deduct	-0.09	
For >250 To 500, Deduct	-0.20	
For >500, Deduct	-0.39	
31 23 16 13-0029 LF 4" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	1.36	
For >100 To 250, Deduct	-0.10	
For >250 To 500, Deduct	-0.20	
For >500, Deduct	-0.41	
31 23 16 13-0030 LF 6" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	1.44	
For >100 To 250, Deduct	-0.10	
For >250 To 500, Deduct	-0.22	
For >500, Deduct	-0.43	
31 23 16 13-0031 LF 6" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	1.57	
For >100 To 250, Deduct	-0.11	
For >250 To 500, Deduct	-0.24	
For >500, Deduct	-0.47	
31 23 16 13-0032 LF 6" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	1.80	
For >100 To 250, Deduct	-0.13	
For >250 To 500, Deduct	-0.27	
For >500, Deduct	-0.54	
31 23 16 13-0033 LF 6" Wide, 36" Deep Trench, Medium Soil, Chain Trencher	2.16	
For >100 To 250, Deduct	-0.15	
For >250 To 500, Deduct	-0.32	
For >500, Deduct	-0.65	
31 23 16 13-0034 LF 8" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	2.04	
For >100 To 250, Deduct	-0.14	
For >250 To 500, Deduct	-0.31	
For >500, Deduct	-0.61	
31 23 16 13-0035 LF 8" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	2.40	
For >100 To 250, Deduct	-0.17	
For >250 To 500, Deduct	-0.36	
For >500, Deduct	-0.72	
31 23 16 13-0036 LF 8" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	2.72	
For >100 To 250, Deduct	-0.19	
For >250 To 500, Deduct	-0.41	
For >500, Deduct	-0.82	

31	Earthwork
31 20	Earth Moving
31 23	Excavation and Fill



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 13-0037 LF 8" Wide, 36" Deep Trench, Medium Soil, Chain Trencher	3.23	
For >100 To 250, Deduct	-0.23	
For >250 To 500, Deduct	-0.48	
For >500, Deduct	-0.97	
31 23 16 13-0038 Backfill Trenches With Compaction (31 23 16 13-0025)		
31 23 16 13-0039 LF Backfill 4" Wide, 12" Deep Trench, With Compaction	0.19	
For >100 To 250, Deduct	-0.01	
For >250 To 500, Deduct	-0.03	
For >500, Deduct	-0.06	
31 23 16 13-0040 LF Backfill 4" Wide, 18" Deep Trench, With Compaction	0.30	
For >100 To 250, Deduct	-0.02	
For >250 To 500, Deduct	-0.05	
For >500, Deduct	-0.09	
31 23 16 13-0041 LF Backfill 4" Wide, 24" Deep Trench, With Compaction	0.39	
For >100 To 250, Deduct	-0.03	
For >250 To 500, Deduct	-0.06	
For >500, Deduct	-0.12	
31 23 16 13-0042 LF Backfill 6" Wide, 12" Deep Trench, With Compaction	0.30	
For >100 To 250, Deduct	-0.02	
For >250 To 500, Deduct	-0.05	
For >500, Deduct	-0.09	
31 23 16 13-0043 LF Backfill 6" Wide, 18" Deep Trench, With Compaction	0.39	
For >100 To 250, Deduct	-0.03	
For >250 To 500, Deduct	-0.06	
For >500, Deduct	-0.12	
31 23 16 13-0044 LF Backfill 6" Wide, 24" Deep Trench, With Compaction	0.58	
For >100 To 250, Deduct	-0.04	
For >250 To 500, Deduct	-0.09	
For >500, Deduct	-0.17	
31 23 16 13-0045 LF Backfill 6" Wide, 36" Deep Trench, With Compaction	0.84	
For >100 To 250, Deduct	-0.06	
For >250 To 500, Deduct	-0.13	
For >500, Deduct	-0.25	
31 23 16 13-0046 LF Backfill 8" Wide, 12" Deep Trench, With Compaction	0.39	
For >100 To 250, Deduct	-0.03	
For >250 To 500, Deduct	-0.06	
For >500, Deduct	-0.12	
31 23 16 13-0047 LF Backfill 8" Wide, 18" Deep Trench, With Compaction	0.58	
For >100 To 250, Deduct	-0.04	
For >250 To 500, Deduct	-0.09	
For >500, Deduct	-0.17	
31 23 16 13-0048 LF Backfill 8" Wide, 24" Deep Trench, With Compaction	0.78	
For >100 To 250, Deduct	-0.05	
For >250 To 500, Deduct	-0.12	
For >500, Deduct	-0.23	
31 23 16 13-0049 LF Backfill 8" Wide, 36" Deep Trench, With Compaction	1.17	
For >100 To 250, Deduct	-0.08	
For >250 To 500, Deduct	-0.18	
For >500, Deduct	-0.35	
31 23 16 26 Rock Removal (31 23 16)		
31 23 16 26-0001 Rock Breaking By Machine (31 23 16 26)		
Note: Excludes excavation of broken-up rock.		
31 23 16 26-0002 CY Rock Breaking By Machine, Soft Sedimentary Rocks (Shale, Sandstone, Limestone).....	26.61	
31 23 16 26-0003 CY Rock Breaking By Machine, Medium Metamorphic Rock (Slate)	28.38	
31 23 16 26-0004 CY Rock Breaking By Machine, Hard Igneous Rock (Granite, Basalt).....	33.70	
31 23 16 33 Bulk Excavation (31 23 16)		
Note: For excavations where the total quantity for a project is greater than 500 cubic yards. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 36-0000 for For less than 500 CY excavation.		
31 23 16 33-0001 Excavation (31 23 16 33)		
Note: For bulk excavation. Includes stockpiling excavated materials within 100' of point of excavation.		
31 23 16 33-0002 CY Bulk Excavation by Dozer in Soil.....	9.25	
For Excavation In Light Material (Class A), Deduct	-1.16	
For Excavation In Heavy/Wet Material (Class C), Add	3.70	
For >1,000, Deduct	-1.39	
31 23 16 33-0003 CY Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Soil.....	5.40	
For Excavation In Light Material (Class A), Deduct	-0.68	
For Excavation In Heavy/Wet Material (Class C), Add	2.16	
For >1,000, Deduct	-0.81	
31 23 16 33-0004 CY Bulk Excavation by Dozer in Loose Rock.....	11.38	
Note: Includes compacted aggregate		
For >1,000, Deduct	-1.71	
31 23 16 33-0005 CY Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Loose Rock.....	6.65	
Note: Includes compacted aggregate		
For >1,000, Deduct	-1.00	
31 23 16 33-0006 Spreading, Shaping And Rough Grading (31 23 16 33)		
Note: Imported or stockpiled material for bulk excavation.		



Earthwork	31	15
Earth Moving	31 20	
Excavation and Fill	31 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 33-0007 CY Spreading, Shaping, and Rough Grading Imported or Stockpiled Material for Bulk Excavation by Machine <i>For >1,000, Deduct</i>	5.71 -0.86	
31 23 16 33-0008 Cutting, Shaping and Rough Grading Of Existing Elevations <small>(31 23 16 33)</small> Note: For bulk excavation.		
31 23 16 33-0009 CY Cutting, Shaping and Rough Grading Existing Elevations For Bulk Excavation by Machine <i>For >1,000, Deduct</i>	6.35 -0.95	
31 23 16 33-0010 Relocating On Site Excavated Material From Excavation <small>(31 23 16 33)</small> Note: For bulk excavation.		
31 23 16 33-0011 CY Relocating On Site Excavated Material From Bulk Excavation >100' to 300' <i>For >1,000, Deduct</i>	5.08 -0.76	
31 23 16 33-0012 CY Relocating On Site Excavated Material From Bulk Excavation >300' to 500' <i>For >1,000, Deduct</i>	7.61 -1.14	
31 23 16 33-0013 CY Relocating On Site Excavated Material From Bulk Excavation >500' To 1,000' <i>For >1,000, Deduct</i>	11.42 -1.71	
31 23 16 33-0014 CY Relocating On Site Excavated Material From Bulk Excavation >1,000' <i>For >1,000, Deduct</i>	15.23 -2.28	
31 23 16 33-0015 Finish Grading <small>(31 23 16 33)</small> Note: For bulk excavation.		
31 23 16 33-0016 SY Finish Grading for Bulk Excavation by Machine	0.63	
31 23 16 33-0017 Compaction Of Fill Or Subbase, Per Lift <small>(31 23 16 33)</small> Note: For bulk excavation. See CSI section 31 23 23-0001 for compaction water.		
31 23 16 33-0018 SY Compaction of Fill or Subbase for Bulk Excavation by Machine Note: Per Lift	0.63	
31 23 16 33-0019 Loading Excess Material For Removal From Excavation <small>(31 23 16 33)</small> Note: For bulk excavation. Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0050 for hauling.		
31 23 16 33-0020 CY Loading Excess Material For Removal From Bulk Excavation <i>For >1,000, Deduct</i>	5.39 -0.81	
31 23 16 36 Excavation for Building Foundations and Other Structures <small>(31 23 16)</small> Note: Use of a Bobcat is limited to access restricted areas and by owner's approval. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 33-0000 for bulk excavation operations over 500 CY.		
31 23 16 36-0001 Excavation <small>(31 23 16 36)</small> Note: For building foundations and other structures by machine. Includes stockpiling excess materials within 100' of point of excavation, shaping, trimming and rough grading excavation.		
31 23 16 36-0002 Excavation For Building Foundations And Other Structures By Skid-Steer Loader <small>(31 23 16 36-0001)</small>		
31 23 16 36-0003 CY Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Soil <i>For Excavation In Light Material (Class A), Deduct</i> <i>For Excavation In Heavy/Wet Material (Class C), Add</i> <i>For Up To 20, Add</i> <i>For >20 To 50, Add</i> <i>For >50 To 250, Add</i> <i>For >250 To 500, Add</i>	8.33 -1.04 3.33 8.33 6.25 3.33 1.25	
31 23 16 36-0004 CY Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Loose Rock Note: Includes compacted aggregate <i>For Up To 20, Add</i> <i>For >20 To 50, Add</i> <i>For >50 To 250, Add</i> <i>For >250 To 500, Add</i>	10.38 10.38 7.79 4.15 1.56	
31 23 16 36-0005 Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader <small>(31 23 16 36-0001)</small>		
31 23 16 36-0006 CY Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Soil <i>For Excavation In Light Material (Class A), Deduct</i> <i>For Excavation In Heavy/Wet Material (Class C), Add</i> <i>For Up To 20, Add</i> <i>For >20 To 50, Add</i> <i>For >50 To 250, Add</i> <i>For >250 To 500, Add</i>	6.50 -0.81 2.60 6.50 4.88 2.60 0.98	
31 23 16 36-0007 CY Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Loose Rock Note: Includes compacted aggregate <i>For Up To 20, Add</i> <i>For >20 To 50, Add</i> <i>For >50 To 250, Add</i> <i>For >250 To 500, Add</i>	7.73 7.73 5.80 3.09 1.16	

31	31	Earthwork
	31 20	Earth Moving
	31 23	Excavation and Fill



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 36-0008 Excavation For Building Foundations And Other Structures By Hand <small>(31 23 16 36-0001)</small>		
<i>Note: For areas not accessible by machine and only with owner's approval.</i>		
31 23 16 36-0009 CY Excavation For Building Foundations And Other Structures By Hand in Soil.....	113.09	
<i>For Excavation In Light Material (Class A), Deduct</i>		
	-14.14	
<i>For Excavation In Heavy/Wet Material (Class C), Add</i>		
	45.24	
31 23 16 36-0010 CY Excavation For Building Foundations And Other Structures By Hand in Loose Rock.....	194.00	
<i>Note: Includes compacted aggregate</i>		
31 23 16 36-0011 Relocating On Site Excavated Material From Excavation <small>(31 23 16 36)</small>		
<i>Note: For building foundations and other structures over 100'.</i>		
31 23 16 36-0012 CY Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >100' to 300'	5.08	
<i>For Up To 20, Add</i>		
	5.08	
<i>For >20 To 50, Add</i>		
	3.81	
<i>For >50 To 250, Add</i>		
	2.03	
<i>For >250 To 500, Add</i>		
	0.76	
31 23 16 36-0013 CY Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >300' to 500'	7.61	
<i>For Up To 20, Add</i>		
	7.61	
<i>For >20 To 50, Add</i>		
	5.71	
<i>For >50 To 250, Add</i>		
	3.04	
<i>For >250 To 500, Add</i>		
	1.14	
31 23 16 36-0014 CY Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >500' to 1,000'	11.42	
<i>For Up To 20, Add</i>		
	11.42	
<i>For >20 To 50, Add</i>		
	8.57	
<i>For >50 To 250, Add</i>		
	4.57	
<i>For >250 To 500, Add</i>		
	1.71	
31 23 16 36-0015 CY Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >1,000'	15.23	
<i>For Up To 20, Add</i>		
	15.23	
<i>For >20 To 50, Add</i>		
	11.42	
<i>For >50 To 250, Add</i>		
	6.09	
<i>For >250 To 500, Add</i>		
	2.28	
31 23 16 36-0016 Backfilling <small>(31 23 16 36)</small>		
<i>Note: For building foundations and other structures with imported or stockpiled materials. Includes rough grading.</i>		
31 23 16 36-0017 CY Backfilling Around Building Foundations And Other Structures By Skid-Steer Loader.....	4.12	
<i>For Up To 20, Add</i>		
	4.12	
<i>For >20 To 50, Add</i>		
	3.09	
<i>For >50 To 250, Add</i>		
	1.65	
<i>For >250 To 500, Add</i>		
	0.62	
31 23 16 36-0018 CY Backfilling Around Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader.....	5.03	
<i>For Up To 20, Add</i>		
	5.03	
<i>For >20 To 50, Add</i>		
	3.77	
<i>For >50 To 250, Add</i>		
	2.01	
<i>For >250 To 500, Add</i>		
	0.75	
31 23 16 36-0019 CY Backfilling Around Building Foundations And Other Structures By Hand.....	53.86	
31 23 16 36-0020 Compaction Of Fill Or Subbase <small>(31 23 16 36)</small>		
<i>Note: For building foundations and other structures. See CSI section 31 23 23 23-0001 for compaction water.</i>		
31 23 16 36-0021 CY Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Vibratory Plate, Air Tamper, Etcetera	10.42	
<i>For Up To 20, Add</i>		
	10.42	
<i>For >20 To 50, Add</i>		
	7.82	
<i>For >50 To 250, Add</i>		
	4.17	
<i>For >250 To 500, Add</i>		
	1.56	
31 23 16 36-0022 CY Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Hand	35.43	
31 23 16 36-0023 Grading <small>(31 23 16 36)</small>		
<i>Note: For building foundations and other structures.</i>		
31 23 16 36-0024 SY Rough Grading For Building Foundations And Other Structures by Machine	1.09	
31 23 16 36-0025 SY Finish Grading For Building Foundations And Other Structures by Machine	1.76	
31 23 16 36-0026 SY Finish Grading For Building Foundations And Other Structures by Hand	10.47	
31 23 16 36-0027 Loading Excess Material For Removal From Excavation <small>(31 23 16 36)</small>		
<i>Note: For building foundations and other structures. Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0050 for hauling.</i>		
31 23 16 36-0028 CY Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Machine	5.61	
<i>For Up To 20, Add</i>		
	5.61	
<i>For >20 To 50, Add</i>		
	4.21	
<i>For >50 To 250, Add</i>		
	2.24	
<i>For >250 To 500, Add</i>		
	0.84	
31 23 16 36-0029 CY Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Hand	82.93	
31 23 16 36-0030 Spread Material <small>(31 23 16 36)</small>		
<i>Note: For building foundations and other structures.</i>		



Earthwork	31	15
Earth Moving	31 20	
Excavation and Fill	31 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 36-0031 CY Spread Excess Or Imported Material On Site By Machine.....	2.95	
<i>For Up To 20, Add</i>	2.95	
<i>For >20 To 50, Add</i>	2.21	
<i>For >50 To 250, Add</i>	1.18	
<i>For >250 To 500, Add</i>	0.44	
31 23 16 36-0032 CY Spread Excess Or Imported Material On Site By Hand	45.76	
31 23 19 Dewatering (31 23)		
31 23 19 00-0001 Well Point Dewatering System (31 23 19)		
31 23 19 00-0002 Delivery, Installation And Removal Cost (31 23 19 00-0001)		
Note: Priced by linear foot of header used.		
31 23 19 00-0003 LF Up To 100' In Length Well Point System Delivery, Installation And Removal	116.02	
31 23 19 00-0004 LF >100' To 250' In Length Well Point System Delivery, Installation And Removal	63.81	
31 23 19 00-0005 LF >250' To 500' In Length Well Point System Delivery, Installation And Removal	58.01	
31 23 19 00-0006 LF >250' To 500' In Length Well Point System Delivery, Installation And Removal	52.21	
31 23 19 00-0007 LF >500' To 1,000' In Length Well Point System Delivery, Installation And Removal	46.41	
31 23 19 00-0008 LF >1,000' In Length Well Point System Delivery, Installation And Removal	40.61	
31 23 19 00-0009 Well Point Dewatering System Rental (31 23 19 00-0001)		
Note: Includes all necessary equipment for a well point system (well point with risers, pump, valves, header pipe, discharge pipe, etc.). Use normal adjustment factor only for rental tasks and modifiers. Unit of measure and modifier quantities are based on linear feet of header per day (ex. 200 ft of header for four days - quantity should be 200x4 or 800 ft). Rental days include weekends, when appropriate, regardless if the system is operational during that time. Use weekly modifier for system use of five days to less than a month. Use monthly modifier for system use of one month or greater. See CSI section 31 23 19 00-0002 for installation, 31 23 19 00-0015 for operational costs.		
31 23 19 00-0010 LFD Up To 100' In Length Well Point System Rental (LF x Days = Quantity)	1.78	
<i>For >5 Days And <1 Month, Deduct</i>	-0.39	
<i>For >1 Month, Deduct</i>	-0.50	
31 23 19 00-0011 LFD >100' To 250' In Length Well Point System Rental (LF x Days = Quantity)	1.04	
<i>For >5 Days And <1 Month, Deduct</i>	-0.23	
<i>For >1 Month, Deduct</i>	-0.29	
31 23 19 00-0012 LFD >250' To 500' In Length Well Point System Rental (LF x Days = Quantity)	0.74	
<i>For >5 Days And <1 Month, Deduct</i>	-0.16	
<i>For >1 Month, Deduct</i>	-0.21	
31 23 19 00-0013 LFD >500' To 1,000' In Length Well Point System Rental (LF x Days = Quantity)	0.54	
<i>For >5 Days And <1 Month, Deduct</i>	-0.12	
<i>For >1 Month, Deduct</i>	-0.15	
31 23 19 00-0014 LFD >1,000' In Length Well Point System Rental (LF x Days = Quantity)	0.49	
<i>For >5 Days And <1 Month, Deduct</i>	-0.11	
<i>For >1 Month, Deduct</i>	-0.14	
31 23 19 00-0015 Well Point Dewatering System Operation Costs (31 23 19 00-0001)		
Note: The quantity for operation shall be the total number of hours the well point system is operational.		
31 23 19 00-0016 HR Operation Costs	107.83	
31 23 23 Fill (31 23)		
31 23 23 23 Compaction (31 23 23)		
31 23 23 23-0001 Compaction Water, Water Truck And Operator (31 23 23 23)		
31 23 23 23-0002 MGL Compaction Water, Water Truck And Operator	186.16	
Note: Use this task in situations where fill, base material, etc. requires additional moisture to comply with the compaction specification. Includes delivery up to 15 miles. (Per 1000 Gallons) See CSI section 01 22 23 00-1219 for water truck when water is available on site.		
31 23 23 33 Flowable Fill (31 23 23)		
31 23 23 33-0001 Flowable Cement Backfill For Trenches (31 23 23 33)		
Note: Includes compaction and restoration of final grade.		
31 23 23 33-0002 CY Flowable Cement Backfill for Trenches.....	255.04	
<i>For Up To 20, Add</i>	89.81	
<i>For >20 To 50, Add</i>	58.99	
<i>For >50 To 250, Add</i>	29.49	
<i>For >500 To 1,000, Deduct</i>	-15.41	
<i>For >1,000, Deduct</i>	-30.82	
31 24 Embankments (31 24)		
31 24 13 Roadway Embankments (31 24)		
31 24 13 00-0001 Roadway, Parking Areas, Landscaping And Embankment Excavation And Shaping Operations (31 24 13)		
Note: Use this section for excavation and shaping operations even if the total quantity for the project exceeds 500 CY. See CSI section 31 05 16 00-0000 for imported material, 32 12 16 00-0000 for asphalt paving, 32 13 13 00-0000 for concrete paving.		

31	Earthwork
31 20	Earth Moving
31 24	Embankments



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 24 13 00-0002		Cutting, Shaping And Rough Grading <small>(31 24 13 00-0001)</small>	
		Note: For roadways, parking areas, landscaping, and embankments. Includes loading or stockpiling excess materials within 300' of initial cut.	
31 24 13 00-0003		Cutting, Shaping, And Rough Grading <small>(31 24 13 00-0002)</small>	
31 24 13 00-0004	CY	Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Soil.....	6.35
		For Up To 20, Add	6.35
		For >20 To 50, Add	4.76
		For >50 To 250, Add	2.54
		For >250 To 500, Add	0.95
		For >1,000, Deduct	-0.95
31 24 13 00-0005	CY	Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Loose Rock.....	7.87
		Note: Includes compacted aggregate	
		For Up To 20, Add	7.87
		For >20 To 50, Add	5.90
		For >50 To 250, Add	3.15
		For >250 To 500, Add	1.18
		For >1,000, Deduct	-1.18
31 24 13 00-0006		Cutting, Shaping, And Rough Grading By Hand <small>(31 24 13 00-0002)</small>	
31 24 13 00-0007	SY	Shape Embankment/Slope By Hand Up To 1 On 4 Slope	5.80
31 24 13 00-0008	SY	Shape Embankment/Slope By Hand Greater Than 1 On 4 Slope.....	7.54
31 24 13 00-0009		Scarify Soil <small>(31 24 13 00-0001)</small>	
		Note: For roadways, parking areas, landscaping and embankments by machine.	
31 24 13 00-0010	CSF	Scarify Soil For Roadways, Parking Areas, Landscaping And Embankments By Machine.....	5.88
		For Up To 20, Add	2.94
		For >20 To 50, Add	1.47
		For >250 To 500, Deduct	-0.59
		For >500, Deduct	-1.18
31 24 13 00-0011		Relocating On Site Excavated Material <small>(31 24 13 00-0001)</small>	
31 24 13 00-0012	CY	>500' To 1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments By Machine	11.42
		For Up To 20, Add	11.42
		For >20 To 50, Add	8.57
		For >50 To 250, Add	4.57
		For >250 To 500, Add	1.71
		For >1,000, Deduct	-1.71
31 24 13 00-0013	CY	>1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments By Machine	15.23
		For Up To 20, Add	15.23
		For >20 To 50, Add	11.42
		For >50 To 250, Add	6.09
		For >250 To 500, Add	2.28
		For >1,000, Deduct	-2.28
31 24 13 00-0014		Spread And Shape Imported Or Stockpiled Material <small>(31 24 13 00-0001)</small>	
		Note: For roadways, parking areas, landscaping and embankments. See CSI section 31 23 16 36-0032 for spreading material by hand.	
31 24 13 00-0015	CY	Spread And Shape Imported Or Stockpiled Material For Roadways, Parking Areas, Landscaping and Embankments By Machine	6.98
		For Up To 20, Add	6.98
		For >20 To 50, Add	5.24
		For >50 To 250, Add	2.79
		For >250 To 500, Add	1.05
		For >1,000, Deduct	-1.05
31 24 13 00-0016		Grading <small>(31 24 13 00-0001)</small>	
		Note: For roadways, parking areas, landscaping and embankments by machine.	
31 24 13 00-0017	SY	Rough Grade Roadway, Parking Areas, Landscaping And Embankments By Machine	0.71
31 24 13 00-0018	SY	Finish Grade Roadway, Parking Areas, Landscaping And Embankments By Machine	0.95
31 24 13 00-0019	LF	Finish Grade For Curb	1.07
31 24 13 00-0020	LF	Finish Grade For Curb And Gutter	1.30
31 24 13 00-0021		Compaction Of Fill Or Subbase <small>(31 24 13 00-0001)</small>	
		Note: For roadways, parking areas, landscaping and embankments by machine, per lift.	
31 24 13 00-0022	SY	Compaction Of Fill Or Subbase For Roadways, Parking Areas, Landscaping And Embankments By Machine Per Lift.....	0.63
		For Up To 250, Add	0.63
		For >250 To 500, Add	0.47
		For >500 To 1,000, Add	0.25
		For >5,000, Deduct	-0.09



Earthwork	31	13
Earth Moving	31 20	
Embankments	31 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 24 13 00-0023 Loading Excess Material For Removal From Excavation <small>(31 24 13 00-0001)</small> Note: For roadways, parking areas, landscaping and embankments by machine. Includes hand work by laborer for clean-up.		
31 24 13 00-0024 CY Load Excess Material For Removal For Roadways, Parking Areas, Landscaping and Embankments by Machine.....	5.39	
For Up To 20, Add	5.39	
For >20 To 50, Add	4.04	
For >50 To 250, Add	2.16	
For >250 To 500, Add	0.81	
For >1,000, Deduct	-0.81	
31 25 Erosion and Sedimentation Controls <small>(31 20)</small>		
31 25 14 Stabilization Measures for Erosion and Sedimentation Control <small>(31 25)</small>		
31 25 14 13 Hydraulically-Applied Erosion Control <small>(31 25 14)</small>		
31 25 14 13-0001 Bonded Fiber Matrix <small>(31 25 14 13)</small>		
31 25 14 13-0002 MSF Up To 25,000 SF Bonded Fiber Matrix, Hydraulically Applied	49.14	
31 25 14 13-0003 MSF >25,000 To 50,000 SF Bonded Fiber Matrix, Hydraulically Applied	44.73	
31 25 14 13-0004 MSF >50,000 To 100,000 SF Bonded Fiber Matrix, Hydraulically Applied	40.98	
31 25 14 13-0005 MSF >100,000 Bonded Fiber Matrix, Hydraulically Applied.....	38.85	
31 25 14 16 Rolled Erosion Control Mats and Blankets <small>(31 25 14)</small> Note: Includes all staples and stakes for erosion control blankets and turf reinforcement mats.		
31 25 14 16-0001 Erosion Control Blankets And Turf Reinforcement Mats <small>(31 25 14 16)</small>		
31 25 14 16-0002 Erosion Control Blankets, Short Term, Light Duty <small>(31 25 14 16-0001)</small>		
31 25 14 16-0003 SY S75 Single Net Erosion Control Blanket.....	1.83	
Note: Straw matrix with degradable thread to a single standard photodegradable polypropylene netting as manufactured by North American Green.		
31 25 14 16-0004 SY S75BN Single Net Erosion Control Blanket.....	2.25	
Note: Straw Matrix with Biodegradable Thread to a Single Natural Fiber Netting as manufactured by North American Green.		
31 25 14 16-0005 SY Curlex 1, Single Net Erosion Control Blanket.....	1.76	
Note: As manufactured by American Excelsior		
31 25 14 16-0006 SY Curlex 1, Single Net Erosion Control Blanket.....	1.83	
Note: As manufactured by American Green.		
31 25 14 16-0007 SY Futerra Erosion Control Blanket, Wood Fibers With Biodegradable Netting	1.67	
31 25 14 16-0008 Erosion Control Blankets, Intermediate Duration <small>(31 25 14 16-0001)</small>		
31 25 14 16-0009 SY S150 Double Net Erosion Control Blanket	2.32	
Note: Straw matrix with degradable thread to a double standard photodegradable polypropylene netting as manufactured by North American Green.		
31 25 14 16-0010 SY S150 BN Double Net Erosion Control Blanket	2.97	
Note: Straw matrix with biodegradable thread to a double natural fiber netting as manufactured by North American Green.		
31 25 14 16-0011 SY Curlex II, Double Net Erosion Control Blanket, Natural.....	2.01	
Note: As manufactured by American Excelsior.		
31 25 14 16-0012 SY Curlex II, Double Net Erosion Control Blanket, Green	2.09	
Note: As manufactured by American Excelsior.		
31 25 14 16-0013 SY Enforcer Double Net Erosion Control Blanket	2.19	
Note: As manufactured by American Excelsior.		
31 25 14 16-0014 Turf Reinforcement Mats (TRM) <small>(31 25 14 16-0001)</small> Note: Permanent, UV stabilized.		
31 25 14 16-0015 SY P300 Permanent Polypropylene Turf Reinforcement Mat.....	10.64	
Note: 100% synthetic, UV stabilized, two layer netting.		
31 25 14 16-0016 SY C350 Permanent Turf Reinforcement Mat	9.83	
Note: 100% synthetic, UV stabilized netting incorporating natural coconut fibers as manufactured by North American Green.		
31 25 14 16-0017 SY Recyclex TRM, Permanent Turf Reinforcement Mat.....	9.09	
Note: As manufactured by American Excelsior, 100% recycled		
31 25 14 16-0018 Jute Mesh Erosion Control Blankets <small>(31 25 14 16-0001)</small>		
31 25 14 16-0019 SY Jute Mesh, Open Uniform Weave	2.06	
31 25 14 16-0020 Revegetation Mat <small>(31 25 14 16-0001)</small>		
31 25 14 16-0021 SY 3-Dimensional Webbed Revegetation Mat, Polyolefin Fiber	7.96	
Note: Polyolefin fibers oriented and mechanically bonded between two nets. Landlok TRM 450 or equal.		
31 25 14 16-0022 SY Webbed Revegetation Mat, Polypropylene Fiber	11.35	
Note: Polypropylene fibers positioned between two high strength biaxially oriented nets and mechanically held together by parallel stitching with polypropylene thread. Landlok TRM 1060 or equal.		
31 25 14 16-0023 Erosion Control Rolls <small>(31 25 14 16-0001)</small>		
31 25 14 16-0024 SY Erosion Control Rolls, Mirafi 140N.....	1.82	

31	Earthwork
31 20	Earth Moving
31 25	Erosion and Sedimentation Controls



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 25 14 16-0025 SY Erosion Control Rolls, Amoco 45471.86

31 25 14 23 Stabilization Measures for Erosion Control ^(31 25 14)
See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

31 25 14 23-0001 Sand Bags ^(31 25 14 23)

Note: Bags filled on site with delivered material. Includes material and placement of bags.

31 25 14 23-0002	BAG 50 LB Capacity Sand Bag With Sand.....	5.78	2.38
	<i>For >2,500 To 5,000, Deduct</i>	-0.48	
	<i>For >5,000, Deduct</i>	-1.05	
31 25 14 23-0003	BAG 75 LB Capacity Sand Bag With Sand.....	7.46	2.96
	<i>For >2,500 To 5,000, Deduct</i>	-0.59	
	<i>For >5,000, Deduct</i>	-1.34	
31 25 14 23-0004	BAG 100 LB Capacity Sand Bag With Sand.....	9.38	3.54
	<i>For >2,500 To 5,000, Deduct</i>	-0.71	
	<i>For >5,000, Deduct</i>	-1.65	
31 25 14 23-0005	BAG 125 LB Capacity Sand Bag With Sand.....	11.57	4.43
	<i>For >2,500 To 5,000, Deduct</i>	-0.89	
	<i>For >5,000, Deduct</i>	-2.04	
31 25 14 23-0006	BAG 150 LB Capacity Sand Bag With Sand.....	14.06	5.31
	<i>For >2,500 To 5,000, Deduct</i>	-1.06	
	<i>For >5,000, Deduct</i>	-2.47	
31 25 14 23-0007	BAG 175 LB Capacity Sand Bag With Sand.....	16.34	6.04
	<i>For >2,500 To 5,000, Deduct</i>	-1.21	
	<i>For >5,000, Deduct</i>	-2.84	
31 25 14 23-0008	BAG 2,000 LB Capacity Sand Bag With Sand.....	133.92	43.13
	<i>For >2,500 To 5,000, Deduct</i>	-8.21	
	<i>For >5,000, Deduct</i>	-21.60	
31 25 14 23-0009	BAG 3,000 LB Capacity Sand Bag With Sand.....	173.87	47.44
	<i>For >2,500 To 5,000, Deduct</i>	-9.03	
	<i>For >5,000, Deduct</i>	-26.41	

31 25 14 23-0010 Gravel Bags ^(31 25 14 23)

Note: Bags filled on site with delivered material. Includes material and placement of bags.

31 25 14 23-0011	BAG 30 LB Capacity Gravel Bag With Gravel.....	5.28	1.59
	<i>For >2,500 To 5,000, Deduct</i>	-0.31	
	<i>For >5,000, Deduct</i>	-0.84	
31 25 14 23-0012	BAG 50 LB Capacity Gravel Bag With Gravel.....	9.27	2.38
	<i>For >2,500 To 5,000, Deduct</i>	-0.48	
	<i>For >5,000, Deduct</i>	-1.40	

31 25 14 23-0013 Floating Turbidity Curtain ^(31 25 14 23)

Note: Type 2 DOT fabric - 18 oz. nominal laminated vinyl/polyester. EPS flotation, 6 in. x 6 in., 13.5 lb./ft. buoyancy in fresh water and 14.4 lb./ft buoyancy in saltwater.

31 25 14 23-0014	LF 3' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	22.79	
	<i>For Type 1, Deduct</i>	-3.51	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-2.14	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	2.59	
31 25 14 23-0015	LF 4' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	24.69	
	<i>For Type 1, Deduct</i>	-3.86	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-2.35	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	2.85	
31 25 14 23-0016	LF 5' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	27.32	
	<i>For Type 1, Deduct</i>	-4.37	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-2.66	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	3.23	
31 25 14 23-0017	LF 6' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	29.56	
	<i>For Type 1, Deduct</i>	-4.79	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-2.92	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	3.54	
31 25 14 23-0018	LF 7' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	31.02	
	<i>For Type 1, Deduct</i>	-5.03	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-3.06	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	3.71	
31 25 14 23-0019	LF 8' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	32.49	
	<i>For Type 1, Deduct</i>	-5.26	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-3.20	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	3.89	
31 25 14 23-0020	LF 9' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	34.20	
	<i>For Type 1, Deduct</i>	-5.54	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-3.37	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	4.10	
31 25 14 23-0021	LF 10' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	36.52	
	<i>For Type 1, Deduct</i>	-5.96	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-3.63	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	4.41	
31 25 14 23-0022	LF 12' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	38.38	
	<i>For Type 1, Deduct</i>	-6.27	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-3.81	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	4.63	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	31 25 14 23-0023	LF		13' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain .....40.86 <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	-6.71 -4.08 4.96	
	31 25 14 23-0024	LF		14' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain .....43.18 <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	-7.11 -4.33 5.25	
	31 25 14 23-0025	LF		15' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain .....45.42 <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	-7.48 -4.55 5.53	
	31 25 14 23-0026	LF		16' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain .....49.42 <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	-8.25 -5.02 6.10	
	31 25 14 23-0027	LF		17' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain .....51.82 <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	-8.65 -5.27 6.39	
	31 25 14 23-0028	LF		18' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain .....54.16 <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	-9.02 -5.49 6.67	
	31 25 14 23-0029	LF		19' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain .....56.63 <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	-9.42 -5.73 6.96	
	31 25 14 23-0030	LF		20' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain .....59.05 <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	-9.80 -5.96 7.24	
	31 25 14 23-0031			Turbidity Curtain Anchors <small>(31 25 14 23)</small>		
	31 25 14 23-0032	EA		14 LB, Turbidity Curtain Anchor System .....609.28 Note: Includes anchor, anchor chain, and marker buoy and rope.		
	31 25 14 23-0033	EA		25 LB, Turbidity Curtain Anchor System .....834.90 Note: Includes anchor, anchor chain, and marker buoy and rope.		
	31 25 14 23-0034	EA		40 LB, Turbidity Curtain Anchor System .....1,061.51 Note: Includes anchor, anchor chain, and marker buoy and rope.		
	31 25 14 23-0035	EA		65 LB, Turbidity Curtain Anchor System .....1,387.85 Note: Includes anchor, anchor chain, and marker buoy and rope.		
	31 25 14 23-0036			Filter Bags <small>(31 25 14 23)</small>		
	31 25 14 23-0037			Non-Woven Filter Bags <small>(31 25 14 23-0036)</small>		
	31 25 14 23-0038	EA		6' x 15' Non-Woven Filter Bag .....175.69		
	31 25 14 23-0039	EA		13' x 15' Non-Woven Filter Bag .....253.85		
	31 25 14 23-0040	EA		15' x 15' Non-Woven Filter Bag .....292.30		
	31 25 14 23-0041			Monofilament Filter Bags <small>(31 25 14 23-0036)</small>		
	31 25 14 23-0042	EA		5' x 15' Monofilament Filter Bag .....182.54		
	31 25 14 23-0043	EA		10' x 15' Monofilament Filter Bag .....252.29		
	31 25 14 23-0044			Cable Articulating Concrete Block <small>(31 25 14 23)</small> Note: 4000 PSI Compressive strength, 12 LB/CF maximum absorption. Interlocking block with longitudinal retvetment cable. Includes anchoring block to 12" x 12" x 6" concrete pier every 5' with anchor and filling cells with stockpiled material. Excludes site preparation and imported materials.		
	31 25 14 23-0045	SF		4.75" Open Cell Articulated Concrete Block With Earth Backfill .....39.30 <i>For Up To 500, Add</i> <i>For >500 To 1,000, Add</i>	8.83 4.90	
	31 25 14 23-0046	SF		6" Open Cell Articulated Concrete Block With Earth Backfill .....45.05 <i>For Up To 500, Add</i> <i>For >500 To 1,000, Add</i>	10.07 5.56	
	31 25 14 23-0047	SF		7.5" Open Cell Articulated Concrete Block With Earth Backfill .....51.62 <i>For Up To 500, Add</i> <i>For >500 To 1,000, Add</i>	11.49 6.32	
	31 25 14 23-0048	SF		9" Open Cell Articulated Concrete Block With Earth Backfill .....58.24 <i>For Up To 500, Add</i> <i>For >500 To 1,000, Add</i>	12.94 7.11	
	31 25 14 23-0049	SF		4.75" Closed Cell Articulated Concrete Block .....42.31 <i>For Up To 500, Add</i> <i>For >500 To 1,000, Add</i>	9.43 5.20	
	31 25 14 23-0050	SF		6" Closed Cell Articulated Concrete Block .....48.64 <i>For Up To 500, Add</i> <i>For >500 To 1,000, Add</i>	10.78 5.92	
	31 25 14 23-0051	SF		7.5" Closed Cell Articulated Concrete Block .....55.88 <i>For Up To 500, Add</i> <i>For >500 To 1,000, Add</i>	12.34 6.75	

31	31	Earthwork
	31 20	Earth Moving
	31 25	Erosion and Sedimentation Controls



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 23-0052 SF 9" Closed Cell Articulated Concrete Block	63.11	
<i>For Up To 500, Add</i>	13.91	
<i>For >500 To 1,000, Add</i>	7.60	
31 25 14 26 Stabilization Measures for Sedimentation Control (31 25 14)		
31 25 14 26-0001 Silt Fences And Dike Barriers (31 25 14 26)		
Note: Includes stakes and embedding.		
31 25 14 26-0002 Silt Fences 2' High (31 25 14 26-0001)		
31 25 14 26-0003 LF 2' High Silt Fence with Stakes at 4' On Center.....	2.68	
31 25 14 26-0004 LF 2' High Silt Fence with Stakes at 6' On Center.....	2.10	
31 25 14 26-0005 LF 2' High Silt Fence with Stakes at 8' On Center.....	1.50	
31 25 14 26-0006 LF 2' High Silt Fence with Stakes at 10' On Center.....	1.29	
31 25 14 26-0007 Silt Fences 3' High (31 25 14 26-0001)		
31 25 14 26-0008 LF 3' High Silt Fence with Stakes at 4' On Center.....	2.77	
31 25 14 26-0009 LF 3' High Silt Fence with Stakes at 6' On Center.....	2.26	
31 25 14 26-0010 LF 3' High Silt Fence with Stakes at 8' On Center.....	1.41	
31 25 14 26-0011 LF 3' High Silt Fence with Stakes at 10' On Center.....	1.36	
31 25 14 26-0012 Silt Dike Barrier (31 25 14 26-0001)		
31 25 14 26-0013 LF Silt Dike Barrier With Stakes	3.15	
31 25 14 26-0014 Silt Fences Removal (31 25 14 26-0001)		
31 25 14 26-0015 LF Removal Of Silt Fence And Stakes	0.75	
31 25 14 26-0016 Hay And Straw Bales (31 25 14 26)		
Note: Includes trench for placement, and stakes.		
31 25 14 26-0017 LF Place Sterilized Straw Bales	4.36	
Note: Includes securing in ground with stakes.		
31 25 14 26-0018 LF Place Hay Bales.....	4.03	
Note: Includes securing in ground with stakes.		
31 25 14 26-0019 EA Place And Remove Hay Bales, Includes Securing In Ground With Stakes.....	12.10	
31 25 14 26-0020 LF Removal Of Hay Or Straw Bales	1.35	
Note: Includes removal of stakes.		
31 25 14 26-0021 Sediment Logs (Degradable) (31 25 14 26)		
31 25 14 26-0022 Sediment Logs (Degradable) (31 25 14 26-0021)		
Note: Includes stakes and removal after use. Curlex sediment logs as manufactured by American Excelsior.		
31 25 14 26-0023 LF 12" Sediment Log.....	8.21	
31 25 14 26-0024 LF 20" Sediment Log.....	9.68	
31 25 14 26-0025 Wattles (Degradable) With UV Stabilized Synthetic Netting (31 25 14 26-0021)		
Note: Includes trench for placement, 24" wood staking at 4' on-center		
31 25 14 26-0026 EA Wattles (Sterile Straw Filled Rolls), 9" x 25'	146.97	
31 25 14 26-0027 EA Wattles (Sterile Straw Filled Rolls), 12" x 20'	139.92	
31 25 14 26-0028 Fiber Roll (CALTRANS Type 1) (31 25 14 26)		
Note: Includes furrow trench for placement, 24" wood staking at 4' on-center		
31 25 14 26-0029 LF 8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1	6.12	
<i>For >1,000 To 10,000, Deduct</i>	-0.69	
<i>For >10,000, Deduct</i>	-1.16	
31 25 14 26-0030 LF 9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1	6.97	
<i>For >1,000 To 10,000, Deduct</i>	-0.71	
<i>For >10,000, Deduct</i>	-1.21	
31 25 14 26-0031 LF 12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1	8.74	
<i>For >1,000 To 10,000, Deduct</i>	-0.85	
<i>For >10,000, Deduct</i>	-1.45	
31 25 14 26-0032 Fiber Roll (CALTRANS Type 2) (31 25 14 26)		
Note: Includes 24" wood stakes at 2' on-center off-set on sides with ropes.		
31 25 14 26-0033 LF 8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2	5.26	
<i>For >1,000 To 10,000, Deduct</i>	-0.56	
<i>For >10,000, Deduct</i>	-0.95	
31 25 14 26-0034 LF 9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2	6.07	
<i>For >1,000 To 10,000, Deduct</i>	-0.58	
<i>For >10,000, Deduct</i>	-0.99	
31 25 14 26-0035 LF 12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2	7.19	
<i>For >1,000 To 10,000, Deduct</i>	-0.62	
<i>For >10,000, Deduct</i>	-1.06	



Earthwork	31	15
Earth Moving	31 20	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 26-0036 Inlet Protection Sediment Bags ^(31 25 14 26) Note: Includes removal, cleaning, and replacement per each location.		
31 25 14 26-0037 EA 2' x 2' x 3' Inlet Protection Sediment Bag	50.08	
31 25 14 26-0038 EA 2' x 3' x 3' Inlet Protection Sediment Bag	62.50	
31 25 14 26-0039 EA 2' x 4' x 3' Inlet Protection Sediment Bag	76.89	
31 25 14 26-0040 Clean Sediment Logs/Wattles ^(31 25 14 26) Note: Includes removal, cleaning, and replacement per each location.		
31 25 14 26-0041 EA Clean Sediment Logs/Wattles	75.40	
31 30 Earthwork Methods ⁽³¹⁾		
31 31 Soil Treatment ^(31 30)		
31 31 16 Termite Control ^(31 31)		
31 31 16 13 Chemical Termite Control ^(31 31 16)		
31 31 16 13-0001 Commercial Use ^(31 31 16 13)		
31 31 16 13-0002 SF Termite Pretreatment, Commercial Soil Poisoning Under Slab	0.90	
31 31 16 13-0003 SF Termite Pretreatment, Commercial Slab And Walls	0.90	
31 31 16 13-0004 Residential Use ^(31 31 16 13)		
31 31 16 13-0005 SF Termite Pretreatment, Residential General Spraying Walls And Slab	0.80	
31 31 16 13-0006 SF Termite Treatment, Existing Residential Structure	1.10	
31 31 19 Vegetation Control ^(31 31)		
31 31 19 13 Chemical Vegetation Control ^(31 31 19)		
31 31 19 13-0001 Soil Sterilants ^(31 31 19 13)		
31 31 19 13-0002 MSF Soil Sterilant	24.19	
Note: Use only in areas where complete control of all vegetation is desired, such as industrial sites, right-of-way, lumberyards, petroleum tank farms, around farm buildings, along fence lines, etc. When applied to the soil, this product usually inhibits plant growth for a year or more.		
For >45 To 90, Deduct	-0.41	
For >90 To 225, Deduct	-2.03	
For >225, Deduct	-2.84	
31 32 Soil Stabilization ^(31 30)		
31 32 13 Soil Mixing Stabilization ^(31 32)		
31 32 13 16 Cement Soil Stabilization ^(31 32 13)		
31 32 13 16-0001 Soil Cement Course ^(31 32 13 16) Note: Includes soil material, adding and mixing of cement, water and calcium chloride (if required), shaping, finishing and final compaction. Excludes cement, calcium chloride, foundation preparation, compaction water and additional surface treatments.		
31 32 13 16-0002 CY Compacted Soil Cement Course, Material mixed in Central Plant	62.97	
31 32 13 16-0003 CY Compacted Soil Cement Course, Material mixed in Traveling Pugmill. Cement	66.08	
31 32 13 16-0004 LB Cement, Per Unit Of Measure	0.06	
31 32 13 16-0005 LB Flake Calcium Chloride, Per Unit Of Measure	0.48	
31 32 13 16-0006 EA Mobilize And Demobilize Traveling Pugmill	150.00	
31 32 13 16-0007 Cementitious Soil Binder ^(31 32 13 16)		
31 32 13 16-0008 CY Cementitious Soil Binder, 4% Cement Mix By Volume	37.79	
31 32 13 16-0009 CY Cementitious Soil Binder, 6% Cement Mix By Volume	44.40	
31 32 13 16-0010 CY Cementitious Soil Binder, 9% Cement Mix By Volume	55.28	
31 32 13 16-0011 CY Cementitious Soil Binder, 12% Cement Mix By Volume	66.00	
31 32 13 19 Lime Soil Stabilization ^(31 32 13) Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. The price excludes the cost for spreading or backfilling. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.		
31 32 13 19-0001 Lime Slurry ^(31 32 13 19)		
31 32 13 19-0002 LCY Soil Stabilization With Lime Slurry 10% Lime Slurry By Volume	31.57	
31 32 13 19-0003 TON Cement Stabilized Base Material	128.77	
31 32 13 19-0004 CWT Lime For Soil Stabilization	21.05	
Note: Excludes the cost for spreading or backfilling		
31 32 13 19-0005 LCY Roller, Grader - Lime Stabilization	16.72	
31 32 13 19-0006 LCY Roller, Grader - Cement Stabilization	3.79	
31 32 13 19-0007 Lime Stabilized Subgrade ^(31 32 13 19) Note: Based on soil weight of 110 LB/CF using lime weight of 5.5 LB/CF (5%).		

31	Earthwork
31 30	Earthwork Methods
31 32	Soil Stabilization



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 13 19-0008 SY 6" Thick Lime Stabilized Subgrade, 25 LB	12.05	
For 4% Lime Instead Of 5%, Deduct	-0.37	
For 6% Lime Instead Of 5%, Add	0.37	
31 32 13 19-0009 SY 7" Thick Lime Stabilized Subgrade, 29 LB	13.96	
For 4% Lime Instead Of 5%, Deduct	-0.43	
For 6% Lime Instead Of 5%, Add	0.43	
31 32 13 19-0010 SY 8" Thick Lime Stabilized Subgrade, 33 LB	15.92	
For 4% Lime Instead Of 5%, Deduct	-0.49	
For 6% Lime Instead Of 5%, Add	0.49	
31 32 13 19-0011 SY 10" Thick Lime Stabilized Subgrade, 41 LB/SY	19.90	
For 4% Lime Instead Of 5%, Deduct	-0.61	
For 6% Lime Instead Of 5%, Add	0.61	
For >5,000 SY, Deduct	-1.25	
31 32 13 19-0012 SY 12" Thick Lime Stabilized Subgrade, 50 LB/SY	23.88	
For 4% Lime Instead Of 5%, Deduct	-0.74	
For 6% Lime Instead Of 5%, Add	0.74	
For >5,000 SY, Deduct	-1.50	
31 32 13 19-0013 SY 14" Thick Lime Stabilized Subgrade, 58 LB/SY	27.83	
For 4% Lime Instead Of 5%, Deduct	-0.86	
For 6% Lime Instead Of 5%, Add	0.86	
For >5,000 SY, Deduct	-1.75	
31 32 13 19-0014 SY 16" Thick Lime Stabilized Subgrade, 66 LB/SY	31.83	
For 4% Lime Instead Of 5%, Deduct	-0.98	
For 6% Lime Instead Of 5%, Add	0.98	
For >5,000 SY, Deduct	-2.00	
31 32 13 19-0015 SY 18" Thick Lime Stabilized Subgrade, 74 LB/SY	35.83	
For 4% Lime Instead Of 5%, Deduct	-1.11	
For 6% Lime Instead Of 5%, Add	1.11	
For >5,000 SY, Deduct	-2.26	
31 32 13 19-0016 Hydrated Lime Stabilized Subgrade <small>(31 32 13 19)</small>		
Note: Includes scarifying, adding and mixing of hydrated lime and water, light sealing, curing, secondary mixing, shaping, finishing and final compaction. Excludes hydrated lime, foundation preparation, compaction water and additional surface treatments.		
31 32 13 19-0017 CY Compacted Hydrated Lime Stabilized Subgrade	72.25	
31 32 13 19-0018 LB Hydrated Lime	1.43	
31 32 13 29 Liquid Soil Stabilization <small>(31 32 13)</small>		
31 32 13 29-0001 GAL Polyacrylamide And Calcium Solution	2.94	
31 32 19 Geosynthetic Soil Stabilization and Layer Separation <small>(31 32)</small>		
31 32 19 13 Geogrid Soil Stabilization <small>(31 32 19)</small>		
31 32 19 13-0001 Geogrid Fabrics <small>(31 32 19 13)</small>		
Note: For reinforcement of over steepened earth slopes, segmental retaining walls and other mechanically stabilized earth applications.		
31 32 19 13-0002 SY 5.3 Ounce/SY, 1,700 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-150)	2.99	
For Up To 50, Add	0.69	
For >50 To 150, Add	0.51	
For >150 To 250, Add	0.33	
For >250 To 500, Add	0.17	
31 32 19 13-0003 SY 6.9 Ounce/SY, 3,100 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-300)	3.41	
For Up To 50, Add	0.78	
For >50 To 150, Add	0.58	
For >150 To 250, Add	0.37	
For >250 To 500, Add	0.19	
31 32 19 13-0004 SY 8.7 Ounce/SY, 4,280 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-500)	3.71	
For Up To 50, Add	0.84	
For >50 To 150, Add	0.62	
For >150 To 250, Add	0.41	
For >250 To 500, Add	0.20	
31 32 19 13-0005 SY 12.6 Ounce/SY, 7,315 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-800)	5.30	
For Up To 50, Add	1.17	
For >50 To 150, Add	0.87	
For >150 To 250, Add	0.57	
For >250 To 500, Add	0.28	
31 32 19 13-0006 SY 14.1 Ounce/SY, 9,790 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-1000)	6.05	
For Up To 50, Add	1.32	
For >50 To 150, Add	0.98	
For >150 To 250, Add	0.64	
For >250 To 500, Add	0.32	
31 32 19 13-0007 SY 4.3 Ounce/SY, 1,658 LB/FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 20)	3.04	
For Up To 50, Add	0.70	
For >50 To 150, Add	0.52	
For >150 To 250, Add	0.34	
For >250 To 500, Add	0.17	



Earthwork	31	15
Earthwork Methods	31 30	
Soil Stabilization	31 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 19 13-0008 SY 5.9 Ounce/SY, 2,192 LB/FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 30).....	4.44	
<i>For Up To 50, Add</i>	0.99	
<i>For >50 To 150, Add</i>	0.73	
<i>For >150 To 250, Add</i>	0.48	
<i>For >250 To 500, Add</i>	0.24	
31 32 19 16 Geotextile Soil Stabilization <small>(31 32 19 16)</small>		
31 32 19 16-0001 Nonwoven Polypropylene Geotextiles <small>(31 32 19 16)</small>		
<small>Note: For drainage, filtration and separation.</small>		
31 32 19 16-0002 SY 3.0 Ounce/SY, 40 Mil, 80 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-30HS).....	0.94	
<i>For Up To 50, Add</i>	0.22	
<i>For >50 To 150, Add</i>	0.17	
<i>For >150 To 250, Add</i>	0.11	
<i>For >250 To 500, Add</i>	0.05	
31 32 19 16-0003 SY 3.5 Ounce/SY, 50 Mil, 95 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-35HS).....	1.00	
<i>For Up To 50, Add</i>	0.24	
<i>For >50 To 150, Add</i>	0.17	
<i>For >150 To 250, Add</i>	0.11	
<i>For >250 To 500, Add</i>	0.06	
31 32 19 16-0004 SY 4.0 Ounce/SY, 60 Mil, 115 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-40HS).....	1.08	
<i>For Up To 50, Add</i>	0.25	
<i>For >50 To 150, Add</i>	0.19	
<i>For >150 To 250, Add</i>	0.12	
<i>For >250 To 500, Add</i>	0.06	
31 32 19 16-0005 SY 4.5 Ounce/SY, 55 Mil, 120 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-45HS).....	1.16	
<i>For Up To 50, Add</i>	0.27	
<i>For >50 To 150, Add</i>	0.20	
<i>For >150 To 250, Add</i>	0.13	
<i>For >250 To 500, Add</i>	0.06	
31 32 19 16-0006 SY 6.0 Ounce/SY, 70 Mil, 160 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-60HS).....	1.37	
<i>For Up To 50, Add</i>	0.31	
<i>For >50 To 150, Add</i>	0.23	
<i>For >150 To 250, Add</i>	0.15	
<i>For >250 To 500, Add</i>	0.07	
31 32 19 16-0007 SY 7.0 Ounce/SY, 85 Mil, 180 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-70HS).....	1.61	
<i>For Up To 50, Add</i>	0.37	
<i>For >50 To 150, Add</i>	0.27	
<i>For >150 To 250, Add</i>	0.18	
<i>For >250 To 500, Add</i>	0.09	
31 32 19 16-0008 SY 8.0 Ounce/SY, 85 Mil, 205 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-80HS).....	1.77	
<i>For Up To 50, Add</i>	0.40	
<i>For >50 To 150, Add</i>	0.30	
<i>For >150 To 250, Add</i>	0.19	
<i>For >250 To 500, Add</i>	0.10	
31 32 19 16-0009 SY 10 Ounce/SY, 115 Mil, 250 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-100HS).....	2.17	
<i>For Up To 50, Add</i>	0.48	
<i>For >50 To 150, Add</i>	0.36	
<i>For >150 To 250, Add</i>	0.23	
<i>For >250 To 500, Add</i>	0.12	
31 32 19 16-0010 SY 16 Ounce/SY, 175 Mil, 425 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric.....	4.74	
<i>For Up To 50, Add</i>	0.99	
<i>For >50 To 150, Add</i>	0.74	
<i>For >150 To 250, Add</i>	0.49	
<i>For >250 To 500, Add</i>	0.24	
31 32 19 16-0011 Woven Geotextiles Fabric <small>(31 32 19 16)</small>		
31 32 19 16-0012 SY 200 LB Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-55).....	1.34	
<i>For Up To 50, Add</i>	0.30	
<i>For >50 To 150, Add</i>	0.23	
<i>For >150 To 250, Add</i>	0.15	
<i>For >250 To 500, Add</i>	0.07	
31 32 19 16-0013 SY 315 LB Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-66).....	1.87	
<i>For Up To 50, Add</i>	0.41	
<i>For >50 To 150, Add</i>	0.30	
<i>For >150 To 250, Add</i>	0.20	
<i>For >250 To 500, Add</i>	0.10	
31 32 19 16-0014 SY 4 To 6% Open Area, 370 x 250 LB Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 6%).....	3.28	
<i>For Up To 50, Add</i>	0.70	
<i>For >50 To 150, Add</i>	0.52	
<i>For >150 To 250, Add</i>	0.34	
<i>For >250 To 500, Add</i>	0.17	
31 32 19 16-0015 SY 11 To 15% Open Area, 370 x 220 LB Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 15%).....	3.20	
<i>For Up To 50, Add</i>	0.69	
<i>For >50 To 150, Add</i>	0.51	
<i>For >150 To 250, Add</i>	0.34	
<i>For >250 To 500, Add</i>	0.17	

31	Earthwork
31 30	Earthwork Methods
31 32	Soil Stabilization



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 19 16-0016 SY 6.9 Oz/SY, 250 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-250TF).....	2.80	
For Up To 50, Add	0.61	
For >50 To 150, Add	0.45	
For >150 To 250, Add	0.30	
For >250 To 500, Add	0.15	
31 32 19 16-0017 SY 9.1 Oz/SY, 333 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-330TF).....	2.99	
For Up To 50, Add	0.64	
For >50 To 150, Add	0.48	
For >150 To 250, Add	0.31	
For >250 To 500, Add	0.16	
31 32 19 16-0018 SY 12.1 Oz/SY, 400 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-400TF).....	3.81	
For Up To 50, Add	0.81	
For >50 To 150, Add	0.60	
For >150 To 250, Add	0.40	
For >250 To 500, Add	0.20	
31 32 19 16-0019 SY 12.1 Oz/SY, 400 LB/IN Wide Width Tensile Ultimate Woven Monofilament And Fibrillated Geotextile Fabric (Carthage Mills FX-400MF).....	5.41	
For Up To 50, Add	1.13	
For >50 To 150, Add	0.84	
For >150 To 250, Add	0.56	
For >250 To 500, Add	0.28	
31 32 19 16-0020 Geomembranes (31 32 19 16)		
31 32 19 16-0021 Polyvinyl Chloride (PVC) Geomembrane (31 32 19 16-0020)		
31 32 19 16-0022 SF 20 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	1.04	
31 32 19 16-0023 SF 30 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	1.20	
31 32 19 16-0024 SF 40 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	1.44	
31 32 19 16-0025 SF 50 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	1.73	
31 32 19 16-0026 SF 60 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	1.97	
31 32 19 16-0027 SF 70 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	2.16	
31 32 19 16-0028 SF 80 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	2.33	
31 32 19 16-0029 SF 90 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	2.58	
31 32 19 16-0030 SF 100 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	2.81	
31 32 19 16-0031 High Density Polyethylene (HDPE) Geomembrane (31 32 19 16-0020)		
31 32 19 16-0032 SF 20 Mil High Density Polyethylene Membrane (US Fabrics).....	0.89	
31 32 19 16-0033 SF 30 Mil High Density Polyethylene Membrane (US Fabrics).....	1.11	
31 32 19 16-0034 SF 40 Mil High Density Polyethylene Membrane (US Fabrics).....	1.30	
31 32 19 16-0035 SF 50 Mil High Density Polyethylene Membrane (US Fabrics).....	2.11	
31 32 19 16-0036 SF 60 Mil High Density Polyethylene Membrane (US Fabrics).....	1.64	
31 32 19 16-0037 SF 80 Mil High Density Polyethylene Membrane (US Fabrics).....	2.02	
31 32 19 16-0038 SF 100 Mil High Density Polyethylene Membrane (US Fabrics).....	2.39	
31 32 19 16-0039 SF 120 Mil High Density Polyethylene Membrane (US Fabrics).....	4.29	
31 32 19 16-0040 SF 140 Mil High Density Polyethylene Membrane (US Fabrics).....	4.45	
31 32 19 16-0041 Rock Slope Protection Fabric (Monterey County) (31 32 19 16)		
31 32 19 16-0042 SY Rock Slope Protection Fabric, Drainage Outlet (Monterey County).....	7.03	
31 32 19 26 Geoweb Cellular Confinement System (31 32 19)		
Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.		
31 32 19 26-0001 Geoweb Cellular Confinement System (31 32 19 26)		
Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.		
31 32 19 26-0002 SF 4" Geoweb Cellular Confinement System (Presto Geosystems).....	5.34	
For >20,000, Deduct	-0.10	
For >2:1 Slope, Add	1.07	
31 32 19 26-0003 SF 6" Geoweb Cellular Confinement System (Presto Geosystems).....	6.28	
For >20,000, Deduct	-0.15	
For >2:1 Slope, Add	1.07	
31 32 19 26-0004 SF 8" Geoweb Cellular Confinement System (Presto Geosystems).....	7.40	
For >20,000, Deduct	-0.21	
For >2:1 Slope, Add	1.07	
31 32 36 Soil Nailing (31 32)		
31 32 36 11 Soil Nailing Stabilization (31 32 36)		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 36 11-0001 Landslide and Slip-Out Stabilization <small>(31 32 36 11)</small> Note: Work shall consist of the Contractor stabilizing identified slides by internally reinforcing the soil mass with reinforcing elements (nails) by using one or more of the installation methods specified in this contract. The Owner will identify locations for work to be performed as specified herein. The Contractor shall review all locations with Owner representatives to determine the method to be used. The Contractor will provide all necessary engineering plans and details required to successfully repair slides as noted. These plans shall be stamped by a registered professional engineer with a current California license who is knowledgeable in the design and implementation of slope stabilization with soil nails and related work. The contractor shall furnish all labor, materials, and equipment required to complete the work. Any necessary installation methods and associated costs are the responsibility of the contractor. The Contractor and the Contractor's Engineer will also warrant the stability of the repaired roadway section for a period of 5 years.		
31 32 36 11-0002 BioWall® <small>(31 32 36 11-0001)</small> Note: Furnish and install the BioWall® to integrate with Launched Soil Nails™, SuperNails® or Self Drilling SuperNails®. The BioWall® is a confined soil/compost mass capable of sustaining vegetation at slope angles up to ¼(H):1(V), and is composed of 2 layers of galvanized wire mesh and 2 layers of lightweight geosynthetic encasing a seeded compost and/or topsoil mix, tied to the soil nails by steel plates. Furnish equipment and incidentals necessary to complete the work. BioWall® to soil nail connection details will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).		
31 32 36 11-0003 SF BioWall® Construction	21.00	
31 32 36 11-0004 GeoSynthetically Confined Soil™ (GCS®) Components <small>(31 32 36 11-0001)</small> Note: Furnish and install geosynthetic reinforcement, backfill and facing element to construct a Geosynthetically Confined Soil Wall™ (GCS®). Designs shall comply with the Design Standards for Geosynthetically Confined Soil Walls (adapted from the NCHRP Report 556 – Design and Construction Guidelines for Geosynthetic – Reinforced Soil Bridge Abutments with a Flexible Facing) noted below. Reinforcement Selection and Placement: Geosynthetic reinforcement shall consist of high-tenacity geotextiles manufactured for soil reinforcement applications. Geotextiles shall not be exposed to sunlight and extreme temperatures for an extended period of time. Damaged or improperly handled geosynthetic reinforcement shall be rejected. Use a woven polypropylene geotextile with ultimate tensile strength of 2400 lbs/ft (Amoco 2044 or similar) in the cross-machine direction (as per ASTM D4595). The geosynthetic reinforcement perpendicular to the wall face should consist of one continuous piece of material. Overlap of reinforcement in the design strength direction is not permitted. Adjacent sections of geosynthetic reinforcement should be placed so as to ensure that horizontal coverage shown on the plans is provided. Tracked construction equipment shall not be operated directly on the geosynthetic reinforcement. A minimum backfill thickness of 150 mm (6 in.) is required before operation of tracked vehicles over the geosynthetic reinforcement. Turning of tracked vehicles should be kept to a minimum to prevent displacing the fill and damaging or moving the geosynthetic reinforcement. Rubber-tired equipment may pass over the geosynthetic reinforcement at slow speeds less than 17 km/hr (10 miles/hr). Sudden braking and sharp turning should be avoided. Backfill Specifications: Structure backfill material should consist of material free from organic or other unsuitable material as determined by the Contractor's Engineer. Grading of the backfill should be as follows: 100 percent passing 100 mm (4 in.) sieve, 0-60 percent passing No. 40 (0.425 mm) sieve, and 0-15 percent passing No. 200 (0.075mm) sieve; plasticity index (PI) as determined by AASHTO T90, should not exceed 6. The backfill should exhibit an angle of internal friction of not less than 34 degrees, as determined by the standard direct shear test on the portion finer than 2 mm (No.10) sieve, using a sample compacted to 95 percent of AASHTO T-99, Methods C or D, at optimum moisture content. No testing is required for backfills where 80 percent of sizes are greater than 19 mm. The backfill should be substantially free of shale or other soft, poor durability particles and should have an organic content not larger than 1 percent. The backfill should have a pH between 4.5 and 9. Backfill Placement: Reinforced fill should be placed as specified in construction plans in compacted lift thickness of 8in, but in no case in lifts greater than 12in. Reinforced fill should be placed and compacted at or within 2 percent dry of the optimum moisture content. If the reinforced fill is free draining (i.e., with less than 5 percent passing a No. 200 sieve), water content of the fill may be within ±3 percent of the optimum. A minimum density of 90 percent of standard Proctor density is required. Optimum compaction is 100 percent of AASHTO T-99 (or 95 percent of AASHTO T-180) but this may not be possible throughout the wall structure. If significant percentage of the backfill is coarse material (i.e., greater than 30 percent retained on the 19 mm, or ¾ in., sieve), a procedural specification may be used to verify compaction, (no less than two passes with a conventional vibratory plate compaction equipment). Backfill should be placed, spread, and compacted so as to prevent the development of wrinkles or movement of the geosynthetic reinforcement and the wall facing units. Only hand-operated compaction equipment should be allowed within 0.5 m (1.5 ft) of the front of the See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).		
31 32 36 11-0005 SF GeoSynthetically Confined Soil™ (GCS®) Wall Construction	10.75	
	Note: Installation sold per square face foot (excludes materials)	
31 32 36 11-0006 EA GeoSynthetically Confined Soil™ (GCS®) Wall Galvanized Wire Basket Units (approximately 10' x 120')	96.00	
31 32 36 11-0007 EA GeoSynthetically Confined Soil™ (GCS®) Wall Concrete Masonry Units (approximately 8' x 8' x 16')	4.50	
31 32 36 11-0008 SF GeoSynthetically Confined Soil™ (GCS®) Wall Woven Geotextile	0.75	
31 32 36 11-0009 Turf <small>(31 32 36 11-0001)</small> Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).		
31 32 36 11-0010 Permanent Turf Reinforcing Mat (TRM) <small>(31 32 36 11-0009)</small> Note: Furnish a web of mechanically bonded synthetic fibers that are entangled to form a strong and dimensionally stable mat. Place fibers between 2 or 3 high-strength, biaxially oriented nets mechanically bound together by stitching with polyolefin thread. The netting material must be resistant to biological, chemical, and ultra-violet degradation.		
31 32 36 11-0011 SF Permanent Turf Reinforcement Mat	1.25	
	Note: sold per square face foot	
31 32 36 11-0012 Biodegradable Turf Reinforcing Mat (TRM) <small>(31 32 36 11-0009)</small> Note: Furnish a geotextile composed of seed free processed natural fiber matrix mechanically bound together with 100% degradable binding fiber or netting to form a continuous matrix.		
31 32 36 11-0013 SF Biodegradable Turf Reinforcement Mat	0.50	
	Note: sold per square face foot	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 32 36 11-0014 Shotcrete or Gunite (31 32 36 11-0001)
 Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).

31 32 36 11-0015 Wet-Mix Shotcrete for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ (31 32 36 11-0014)
 Note: Furnish steel reinforced shotcrete to integrate with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self Drilling SuperMicropiles™ or Self Drilling SuperNails® and complying with the requirements of ACI 506.2, "Specifications for Materials, Proportioning and Application of Shotcrete", except as otherwise specified. Shotcreting consists applying of one or more layers of concrete conveyed through a hose pneumatically projected at a high velocity against a prepared surface. Produce shotcrete by a wet-mix. The wet-mix process consists of thoroughly mixing all the ingredients except accelerating admixtures, but including the mixing water, introducing the mixture into the delivery equipment and delivering it, by positive displacement, to the nozzle. Air jet the wet-mix shotcrete from the nozzle at high velocity onto the surface. For additional descriptive information, refer to the American Concrete Institute ACI 506R "Guide to Shotcrete." The Contractor's Engineer shall provide all necessary details required to successfully construct the temporary or permanent facing and facing drainage system to satisfy the design intent of the facing. Comply with AASHTO Specifications, or accepted industry standards for any specific items that may not be addressed herein or elsewhere in this Contract Document. Use materials for shotcrete conforming to the following requirements: Cement
 AASHTO M85/ ASTM C150, Type I, II, III or V. Fine Aggregate
 AASHTO M6/ASTM C33 clean, natural. Coarse Aggregate
 AASHTO M80, Class B for quality Water Clean and Potable. AASHTO M157/ASTM C94 Chemical Admixtures
 Accelerator Fluid type, applied at nozzle, meeting requirements of AASHTO M194/ASTM C494/ASTM C1141.
 Water-reducer and Superplasticizer AASHTO M194/ASTM C494 Type A, C, D, E, F, or G
 Retarders AASHTO M194/ ASTM C494 Type B or D. Mineral Admixtures Fly Ash
 AASHTO M295/ASTM C618 Type F or C, cement replacement up to 35 percent by weight of
 cement. Silica Fume ASTM C1240, 90 percent minimum silicon dioxide solids content, not to exceed 12
 percent by weight of cement. Welded Wire Fabric AASHTO M55/ASTM A185 or A497. Double
 twisted hexagonal ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions Prepackaged
 Shotcrete ASTM C928. PVC Drain Pipes: Pipe ASTM 1785 Schedule 40 PVC, solid and
 perforated wall, cell classification 12454-B or 12354-C, wall thickness SDR 35, with solvent weld or elastomeric
 gasket joints. Deliver, store and handle materials to prevent contamination, segregation, corrosion or damage.
 Store liquid admixtures to prevent evaporation and freezing. Use aggregate for shotcrete meeting the strength
 and durability requirements of AASHTO M6/M80, as applicable, and the following gradation requirements: Sieve
 Size Percent Passing by Weight 1/2" 100 3/8"
 90-100 No. 4 70-85 No. 8
 100 Proportion the shotcrete to be pumpable with the concrete pump furnished for the work, with a
 cementing materials content of at least 390 kilograms per cubic meter and water/cement ratio not greater than
 0.50. Do not use admixtures unless approved by the Contractor's Engineer. Thoroughly mix admixtures into the
 shotcrete at the rate specified by the manufacturer. Use only accelerators compatible with the cement used, non-
 corrosive to steel, and not promoting other detrimental effects such as cracking or excessive shrinkage. The
 maximum allowable chloride ion content of all ingredients is 0.10% when tested to AASHTO T260. Air
 entrainment is not required for temporary shotcrete construction facings. Provide shotcrete with a design
 compressive strength of 2000 psi in 3 days and 4000 psi in 28 days. Batch aggregate and cement by weight or
 by volume in accordance with the requirements of ASTM C94 or AASHTO M241/ASTM C685. Use mixing
 equipment that thoroughly blends the materials in sufficient quantity to maintain placing continuity. Produce ready
 mix shotcrete complying with

31 32 36 11-0016 SFI Wet-Mix Reinforced Shotcrete4.25
 Note: sold per inch thickness over one square face foot of area (includes reinforcing steel).



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<p>31 32 36 11-0017 Dry-Mix Shotcrete for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™^(31 32 36 11-0014)</p> <p>Note: Furnish steel reinforced shotcrete to integrate with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self Drilling SuperMicropiles™ or Self Drilling SuperNails® and complying with the requirements of ACI 506.2, "Specifications for Materials, Proportioning and Application of Shotcrete", except as otherwise specified. Shotcreting consists applying of one or more layers of concrete conveyed through a hose pneumatically projected at a high velocity against a prepared surface. Produce shotcrete by a dry-mix. The dry-mix process consists of thoroughly mixing Portland cement and aggregate (and or synthetic fiber) thoroughly mixed dry, passed through a cement gun and conveyed by air through a flexible tube, hydrated at a nozzle at the end of such flexible tube and deposited by air pressure in its place of final repose. For additional descriptive information, refer to the American Concrete Institute ACI 506R "Guide to Shotcrete." The Contractor's Engineer shall provide all necessary details required to successfully construct the temporary or permanent facing and facing drainage system to satisfy the design intent of the facing. Comply with AASHTO Specifications, or accepted industry standards for any specific items that may not be addressed herein or elsewhere in this Contract Document. Use materials for shotcrete conforming to the following requirements: Cement AASHTO M85/ ASTM C150, Type I, II, or III. Fine Aggregate AASHTO M6/ASTM C33 clean, natural. Coarse Aggregate AASHTO M80, Class B for quality Fiber Reinforcement ASTM C116-00 Water Clean and Potable. AASHTO M157/ASTM C94 and shall be maintained at a uniform pressure which shall be at least 15 pounds per square inch above air pressure at the nozzle. Chemical Admixtures Accelerator Fluid type, applied at nozzle, meeting requirements of AASHTO M194/ASTM C494/ASTM C1141. Water-reducer and Superplasticizer AASHTO M194/ASTM C494 Type A, C, D, E, F, or G Retarders AASHTO M194/ ASTM C494 Type B or D. Mineral Admixtures Fly Ash AASHTO M295/ASTM C618 Type F or C, cement replacement up to 35 percent by weight of cement. Silica Fume ASTM C1240, 90 percent minimum silicon dioxide solids content, not to exceed 12 percent by weight of cement. Welded Wire Fabric AASHTO M55/ASTM A185 or A497. Double twisted hexagonal ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions Prepackaged Shotcrete ASTM C928. PVC Drain Pipes: Pipe ASTM 1785 Schedule 40 PVC, solid and perforated wall, cell classification 12454-B or 12354-C, wall thickness SDR 35, with solvent weld or elastomeric gasket joints. Deliver, store and handle materials to prevent contamination, segregation, corrosion or damage. Store liquid admixtures to prevent evaporation and freezing. Use aggregate for shotcrete meeting the strength and durability requirements of AASHTO M6/M80, as applicable, and the following gradation requirements: Sieve Size Percent Passing by Weight 1/2" 100 3/8" 90-100 No. 4 70-85 No. 8</p> <p>100 Proportion the shotcrete to be pumpable with the concrete pump furnished for the work, with a cementing materials content of at least 390 kilograms per cubic meter and water/cement ratio not greater than 0.50. Do not use admixtures unless approved by the Contractor's Engineer. Thoroughly mix admixtures into the shotcrete at the rate specified by the manufacturer. Use only accelerators compatible with the cement used, non-corrosive to steel, and not promoting other detrimental effects such as cracking or excessive shrinkage. The maximum allowable chloride ion content of all ingredients is 0.10% when tested to AASHTO T260. Air entrainment is not required for temporary shotcrete construction facings. Provide shotcrete with a design compressive strength of 2000 psi in 3 days and 4000 psi in 28 days. Batch aggregate and cement by weight or by volume in accordance with the requirements of ASTM C94 or AASHTO M241/ASTM C685. U</p>		
31 32 36 11-0018 SFI Dry-Mix Reinforced Gunite.....		5.75
Note: sold per inch thickness over one square face foot of area (includes reinforcing steel).		
31 32 36 11-0019 Steel Fiber Reinforcement for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ ^(31 32 36 11-0014)		
31 32 36 11-0020 SFI Steel Fiber Reinforcement		1.00
Note: sold per inch thickness over one square face foot of area		
31 32 36 11-0021 Steel Mesh and Steel Plates for use with Launched Soil Nails™, SuperNails® and Self Drilling SuperNails® ^(31 32 36 11-0021)		
Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).		
31 32 36 11-0022 Steel Mesh Surface Treatment for use with Launched Soil Nails™, SuperNails® and Self Drilling SuperNails® ^(31 32 36 11-0021)		
Note: Furnish Galfan® Coated Steel Mesh for use with Launched Soil Nails™, SuperNails®, or Self Drilling SuperNails® that is a double twisted hexagonal galvanized steel wire mesh manufactured according to ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions. Alternately, the mesh may be a diamond shaped, three dimensional mesh made with high capacity 3-millimeter diameter wire. Furnish steel plates to connect the mesh to the nail systems described herein. Furnish equipment and incidentals necessary to complete the work. Soil Nail to mesh connection details will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals.		
31 32 36 11-0023 SF High Capacity Diamond Mesh.....		10.00
Note: sold per square face foot		
31 32 36 11-0024 SF Double Twist Wire Mesh		12.50
Note: sold per square face foot		
31 32 36 11-0025 Steel Plates ^(31 32 36 11-0021)		
31 32 36 11-0026 EA Galvanized Steel Plates (8x8).....		31.50
31 32 36 11-0027 EA Galvanized Steel Plates (10x10).....		40.00
31 32 36 11-0028 EA Galvanized Steel Plates (12x12).....		54.00
31 32 36 11-0029 Drilled Horizontal Drains ^(31 32 36 11-0001)		
Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).		

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	31 32	Soil Stabilization



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
31 32 36 11-0030	LF	Drilled PVC Horizontal Drains (up to 2" Diameter)	18.75	
31 32 36 11-0031	LF	Stripdrain (6" Wide)	3.25	
31 32 36 11-0032	LF	PVC Drain Collector Pipe System	14.50	
31 32 36 11-0033		Rockfall Stabilization <small>(31 32 36 11-0001)</small>		
		Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).		
31 32 36 11-0034	SF	Scaling	3.75	
31 32 36 11-0035	SF	Trim Blasting	155.00	
31 32 36 11-0036	SY	Slope Drape - Double Twist Wire Mesh	41.00	
31 32 36 11-0037	SY	Slope Drape - Cable Net	130.00	
31 32 36 11-0038	SY	Slope Drape - Tecco Mesh (4mm)	130.00	
31 32 36 11-0039	LF	Temporary Rockfall Barrier	470.00	
31 32 36 11-0040	LF	Low Reach Drilling (<25 feet)	21.00	
31 32 36 11-0041	LF	High Reach Drilling (>25 feet)	40.00	
31 32 36 11-0042	LF	Limited Access Drilling	94.00	
31 32 36 11-0043	LF	F&I Rock Dowel - #8 Grade 75 All-Thread Bar (Galvanized)	16.75	
31 32 36 11-0044	LF	F&I Rock Dowel - #11 Grade 75 All-Thread Bar (Galvanized)	26.50	
31 32 36 11-0045	LF	F&I Rock Dowel - #8 Grade 150 All-Thread Bar (Galvanized)	21.00	
31 32 36 11-0046	LF	F&I Rock Dowel - #11 Grade 150 All-Thread Bar (Galvanized)	31.50	
31 32 36 11-0047	EA	Rock Anchor Testing	795.00	
31 32 36 11-0048		Mobilization / Demobilization <small>(31 32 36 11-0001)</small>		
31 32 36 11-0049	EA	Mobilization	16,675.00	
31 32 36 11-0050	EA	Limited Access, Rockfall And Compaction Grouting Mobilization, in addition to Mobilization	9,775.00	
31 32 36 11-0051		Daily Crew Rates (DCR) <small>(31 32 36 11-0001)</small>		
31 32 36 11-0052	DAY	Soils Stabilization Crew, Per Workday	10,550.00	
31 32 36 11-0053	DAY	Rockfall Stabilization Crew, Per Workday	9,350.00	
31 32 36 11-0054	DAY	Compaction Grouting Crew, Per Workday	12,600.00	
31 32 36 11-0055	EA	Additional Crew Member/Crew	2,100.00	
31 32 36 11-0056	EA	Out of State Crew Rotation	4,350.00	
31 32 36 13		Driven Soil Nailing <small>(31 32 36)</small>		
31 32 36 13-0001		Large Diameter Micropiles <small>(31 32 36 13)</small>		
		Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).		
31 32 36 13-0002	LF	5" Micropiles (with up to 5.5" steel casing)	85.85	
31 32 36 13-0003	LF	7" Micropiles (with up to 7.625" steel casing)	118.22	
31 32 36 13-0004	LF	10" Micropiles (with up to 9.625" steel casing)	151.32	
31 32 36 13-0005	LF	12" Micropiles (with up to 11.875" steel casing)	193.69	
31 32 36 16		Grouted Soil Nailing <small>(31 32 36)</small>		
31 32 36 16-0001		Grouting <small>(31 32 36 16)</small>		
		Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).		
31 32 36 16-0002		Compaction Grouting <small>(31 32 36 16-0001)</small>		
		Note: A. Furnish compaction grout material manufactured on-site (at the project location) in volumetric batching equipment so that grout rheology can be controlled real-time. The grout shall have a slump of 0.50" to 3.0" depending on the specific requirements of the project and shall conform to the engineering plans developed and submitted by the Contractor. Grout components shall consist of Type I/II cement, potable water and aggregate. Fly Ash may be added to the mix per the engineering plans. All aggregate for the compaction grout material shall meet the following requirements: a. 100% passing the 1/2" sieve b. Less than 2% organics c. No bentonite or other clay of medium to high plasticity shall be used. Site conditions and re-leveling requirements shall determine the exact proportions of cement, water and soil. The grout mix shall generally consist of aggregate with up to 12% cement by weight and water to form a very stiff mortar-like mixture. No admixtures shall be used without the Project Manager's approval, and previous testing. Mix design and test results of grout mixture must be submitted and approved by the Project Manager 15 Days prior to the commencement of the work. A. Gradations of the aggregate material to be utilized shall be submitted as part of the submittal process and prior to any work taking place. B. The compaction grouting mixer shall be of a type to ensure complete mixing of the stiff grout, as approved by the Project Manager. The compaction grout mixer shall be of sufficient capacity to continuously deliver grout having a slump of less than 1.5 inches at pressures up to 1,000 psi, at flow rates ranging from 0.1 to 5.0 cubic feet per minute. Gauges shall be provided at the pump and the grout pipe head to measure pressure the rate of flow. Type and location of gauges shall be as specified by the Contractor. A dial gauge or meter capable of measuring to 0.5 cubic feet or less shall be provided to measure the amount of grout pumped into the hole. A pressure gauge shall be graduated in 10-psi increments or less and used to measure the applied pressure. Compaction grout hose shall have a minimum inside diameter of 2 inches with non-restrictive full flow couplings. The hose shall be of sufficient strength for the pressures anticipated, and shall be in good condition.		
31 32 36 16-0003	LF	Compaction Grouting Casing Installation	21.00	
31 32 36 16-0004	CF	Compaction Grout Injection for Soils Densification	16.00	
31 32 36 16-0005	CF	Compaction Grout For Void Fill	16.00	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 32 36 16-0006	Polyurethane Grouting <small>(31 32 36 16-0001)</small> Note: A. The material shall be a two part 1:1 ratio by volume, polyurethane-forming mixture, having a water insoluble diluent, which permits the formation of polyurethanes in excess water. The material shall reach 90% Compressive strength in 30 minutes such that traffic may be returned to roadway within 30 minutes after last injection of material. Polyurethane Free-rise Physical Properties Property I Units ASTM Minimum Maximum Density - lb/cf D 1622 3.0 lb/cf 6.0 lb/cf Tensile Strength - psi D 1623 80 psi Compressive Strength at Yield Point - psi D 1621 60 psi B. Furnish equipment and incidentals necessary to complete the work. Polyurethane grout shall not be used for deep injection (deeper than 3 ft below bottom of structure) or soils densification, it shall only be used for void filling under structures and for re-leveling. The Contractor shall prepare a profile to determine the areas that require void filling and re-leveling and determine the locations of the injection holes for each treated area. The Contractor shall obtain approval for the final proposed grades and the location of injection holes. The Contractor shall submit a plan for approval of the proposed polyurethane injection methods for the designated project areas. The plan shall include, but not be limited to: proposed diameter of casing (if required), depth of placement, angle of inclination, injection tube spacing, and project staging. The plan shall include monitoring procedures to ensure that damage will not occur to any existing structures due to the injection process. Monitoring devices shall be installed on mechanically stabilized earth retaining systems and between approach slabs and approach slab footings or other components to help prevent damage. The Contractor shall drill a pattern of holes as proposed in his plan. The holes shall be located in a manner that the void filling and structure lifting process does not affect any adjoining structures, such as mechanically stabilized earth retaining walls. Holes shall not be drilled within 4" of the edge of the slab, construction joints or major cracks. No more holes shall be drilled and tubes installed during the day than can be filled during that day. On bridge approach and roadway projects, and as applicable, the initial lift shall be at the sleeper footer. The Contractor shall lift the sleeper footer and the approach slab to the desired elevation by injecting material under the structures with care to assure that polyurethane material is not placed between the sleeper footer and the approach slab. The amount of rise shall be controlled by regulating the rate of injection of the high density polyurethane material. When the nozzle is removed from the hole, any excessive polyurethane material shall be removed from the area.	
31 32 36 16-0007	LB Polyurethane Grouting For Void Fill and Re-Leveling	9.75

31 32 36 19 Corrosion-Protected Soil Nailing (31 32 36)

31 32 36 19-0001	Self-Drilling SuperNails® / SuperMicropiles™ <small>(31 32 36 19)</small> Note: Furnish Self-Drilling SuperNails® / SuperMicropiles™ that consist of a hollow, threaded bar with a sacrificial drill bit. Multiple bars may be coupled to produce final length. Bar thread pattern should be continuous and conform to the pullout requirements of ASTM A 615 (Williams Form Engineering BTX or Ischebeck Titan bars, or approved equivalent). R-thread bars, bars/couplers made from high carbon (>0.20%) or high phosphorous (>0.06%) steels, or bars/couplers made from steels that do not meet the tensile ductility requirements of ASTM A 615 shall not be used for any tensile applications. Bar outer diameters shall be a minimum of 1.5 inches and up to and 3 inches depending on design load. Corrosion Protection for Self Drilling Nails shall follow current FHWA guidance. Inserted length and spacing of Self-Drilling SuperNails® / SuperMicropiles™ will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).	
31 32 36 19-0002	Self-Drilling SuperNails® <small>(31 32 36 19-0001)</small> 31 32 36 19-0003 EA Self Drilling SuperNails® up to 20-ft..... 600.00 31 32 36 19-0004 EA Self Drilling SuperNails® up to 30-ft..... 825.00 31 32 36 19-0005 EA Self Drilling SuperNails® up to 40-ft..... 1,160.00 31 32 36 19-0006 EA Self Drilling SuperNails® up to 50-ft..... 1,410.00 31 32 36 19-0007 EA Self Drilling SuperNails® up to 60-ft..... 1,685.00 31 32 36 19-0008 EA Self Drilling SuperNails® up to 70-ft..... 1,945.00 31 32 36 19-0009 EA Self Drilling SuperNails® up to 80-ft..... 2,220.00 31 32 36 19-0010 EA Additional Cost for 10' High Capacity X-51 Bar..... 95.00	
31 32 36 19-0011	SuperNail® Testing <small>(31 32 36 19)</small> Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR). 31 32 36 19-0012 EA SuperNail® Proof Testing 695.00 31 32 36 19-0013 EA SuperNail® Verification Testing 1,385.00	

31 32 36 26 Launched Soil Nailing (31 32 36)

31 32 36 26-0001	Launched Soil Nails™ <small>(31 32 36 26)</small> Note: Furnish Launched Soil Nails™ up to 20 feet in length composed of a tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized 36ksi steel (ASTM A513) that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities). Alternately, the tube may be composed of fiberglass (1.5 inch outside diameter, 0.5 inch wall thickness Strongwell EXTREN Series 625 Vinyl Ester fiberglass. Furnish equipment and incidentals necessary to complete the work. Insert Launched Soil Nails™ with a single stroke at initial velocities in excess of 200 miles per hour. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).	
31 32 36 26-0002	EA GalvaDized™ SuperDrain™ 550.00 Note: perforated GalvaDized™ steel tube up to 20 ft. length.	
31 32 36 26-0003	EA Fiberglass SuperNail® 565.00 Note: perforated fiberglass tube up to 20 ft. length, pressure grouted with #6 epoxy coated inner Bar.	
31 32 36 26-0004	EA GalvaDized™ SuperNail® 435.00 Note: perforated GalvaDized™ steel tube up to 20 ft. length, pressure grouted with #6 epoxy coated inner Bar.	
31 32 36 26-0005	EA Temporary Launched Soil Nail 345.00 Note: bare steel tube up to 20 ft. length.	
31 32 36 26-0006	EA Fiberglass SuperDrain™ 450.00 Note: perforated fiberglass tube up to 20 ft. length.	
31 32 36 26-0007	EA GalvaDized™ SuperDrain™ 345.00 Note: perforated GalvaDized™ steel tube up to 20 ft. length.	

31	31	Earthwork
	31 30	Earthwork Methods
	31 32	Soil Stabilization



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 32 36 29 Drilled Soil Nailing (31 32 36)

31 32 36 29-0001	Drilled SuperNails® (Permanently Cased Soil Nails) <small>(31 32 36 29)</small>	
	<small>Note: Furnish SuperNails® that are a three stage construction including installation of (1) an outer tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized steel tube that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities); (2) neat cement grout that completely encases and fills the outer tube; and (3) immediately install an epoxy coated, #6 (or greater) grade 75 threadbar as the inner bar. SuperNails® may be in lengths up to 60 feet. Although field adjustments in design may be allowed on certain projects (subject to approval by the Contractor's Engineer and the Owner) bidding an equivalent system is not allowed (i.e. the winning bidder must have the ability to install the above system). Furnish equipment and incidentals necessary to complete the work. Insert SuperNail® outer tubes with a single stroke at initial velocities in excess of 200 miles per hour or by drilling a hole to a prescribed depth and inserting the outer tube. Fill the outer tube with neat cement grout and immediately insert a #6 or larger epoxy coated inner threadbar. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).</small>	
31 32 36 29-0002	EA Drilled GalvaDized™ SuperNail® up to 20 ft. length.....	500.00
	<small>Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.</small>	
31 32 36 29-0003	EA Drilled GalvaDized™ SuperNail® up to 30 ft. length.....	690.00
	<small>Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.</small>	
31 32 36 29-0004	EA Drilled GalvaDized™ SuperNail® up to 40 ft. length.....	785.00
	<small>Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.</small>	
31 32 36 29-0005	EA Drilled GalvaDized™ SuperNail® up to 50 ft. length.....	875.00
	<small>Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.</small>	
31 32 36 29-0006	EA Drilled GalvaDized™ SuperNail® up to 60 ft. length.....	1,035.00
	<small>Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.</small>	
31 32 36 29-0007	EA Drilled GalvaDized™ SuperNail® up to 70 ft. length.....	1,190.00
	<small>Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.</small>	
31 32 36 29-0008	EA Drilled GalvaDized™ SuperNail® up to 80 ft. length.....	1,345.00
	<small>Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.</small>	

31 35 Slope Protection (31 30)

31 35 19 Geosynthetic Slope Protection (31 35)

31 35 19 19 Slope Protection with Mulch Control Netting (31 35 19)

31 35 19 19-0001	Erosion Control Fabric <small>(31 35 19 19)</small>	
31 35 19 19-0002	SY 26.6 OZ/SY Erosion Control Fabric (Belton Industries Geocoir 900)	3.84

31 36 Gabions (31 30)

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, unloading and placing. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

31 36 13 Gabion Boxes (31 36)

31 36 13 00-0001	Stone Filled Gabion Slope Protection <small>(31 36 13)</small>	
	<small>Note: Machine placed by SY of total top face area for depth indicated.</small>	
31 36 13 00-0002	SY 6" Deep Stone Filled Gabion Slope Protection.....	58.91
31 36 13 00-0003	SY 9" Deep Stone Filled Gabion Slope Protection.....	69.29
31 36 13 00-0004	SY 12" Deep Stone Filled Gabion Slope Protection.....	83.07
31 36 13 00-0005	SY 15" Deep Stone Filled Gabion Slope Protection.....	98.33
31 36 13 00-0006	SY 18" Deep Stone Filled Gabion Slope Protection.....	115.53
31 36 13 00-0007	SY 24" Deep Stone Filled Gabion Slope Protection.....	157.97
31 36 13 00-0008	SY 36" Deep Stone Filled Gabion Slope Protection.....	199.49

31 37 Riprap (31 30)

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, and dumping. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

31 37 13 Machined Riprap (31 37)

31 37 13 00-0001	Random - Filter Stone <small>(31 37 13)</small>	
31 37 13 00-0002	CY 10 To 50 LB Average Pieces Random, Dumped From Truck, Rip Rap	54.60
	<i>For Chinking Material, Add</i>	13.68
31 37 13 00-0003	CY >50 To 100 LB Average Pieces Random, Dumped From Truck, Rip Rap	63.07
	<i>For Chinking Material, Add</i>	13.68
31 37 13 00-0004	CY >100 To 200 LB Average Pieces Random, Dumped From Truck, Rip Rap	67.05
	<i>For Chinking Material, Add</i>	13.68
31 37 13 00-0005	CY >200 To 300 LB Average Pieces Random, Dumped From Truck, Rip Rap	71.59
	<i>For Chinking Material, Add</i>	13.68
31 37 13 00-0006	CY >300 To 600 LB Average Pieces Random, Dumped From Truck, Rip Rap	75.26
	<i>For Chinking Material, Add</i>	13.68
31 37 13 00-0007	CY >600 LB Average Pieces Random, Dumped From Truck, Rip Rap	81.24
31 37 13 00-0008	CY 3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip Rap	98.12
31 37 13 00-0009	TON 10 To 50 LB Average Pieces Random, Dumped From Truck, Rip Rap	36.36
31 37 13 00-0010	TON >50 To 100 LB Average Pieces Random, Dumped From Truck, Rip Rap	41.74
31 37 13 00-0011	TON >100 To 200 LB Average Pieces Random, Dumped From Truck, Rip Rap	44.27
31 37 13 00-0012	TON >200 To 300 LB Average Pieces Random, Dumped From Truck, Rip Rap	47.15
31 37 13 00-0013	TON >300 To 600 LB Average Pieces Random, Dumped From Truck, Rip Rap	49.48



	Earthwork	31	
	Earthwork Methods	31 30	15
	Riprap	31 37	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 37 13 00-0014	TON	>600 LB Average Pieces Random, Dumped From Truck, Rip Rap	53.32	
31 37 13 00-0015	TON	3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip Rap	66.62	

31 40 Shoring and Underpinning ⁽³¹⁾

31 41 Shoring ^(31 40)

31 41 13 Timber Shoring ^(31 41)

31 41 13 00-0001 Wood Sheet Piling ^(31 41 13)

31 41 13 00-0002 Pull And Salvage ^(31 41 13 00-0001)

Note: Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-backs (rock bolting) where required.

31 41 13 00-0003	SF	8' Deep Excavation, Wood Shoring, Pull And Salvage	14.50	
		<i>For Wood Sheeting Left In Place</i>	1.55	
31 41 13 00-0004	SF	10' Deep Excavation, Wood Shoring, Pull And Salvage	15.54	
		<i>For Wood Sheeting Left In Place</i>	1.43	
31 41 13 00-0005	SF	12' Deep Excavation, Wood Shoring, Pull And Salvage	16.70	
		<i>For Wood Sheeting Left In Place</i>	1.33	
31 41 13 00-0006	SF	14' Deep Excavation, Wood Shoring, Pull And Salvage	17.93	
		<i>For Wood Sheeting Left In Place</i>	1.17	
31 41 13 00-0007	SF	16' Deep Excavation, Wood Shoring, Pull And Salvage	19.29	
		<i>For Wood Sheeting Left In Place</i>	1.02	
31 41 13 00-0008	SF	18' Deep Excavation, Wood Shoring, Pull And Salvage	20.72	
		<i>For Wood Sheeting Left In Place</i>	0.80	
31 41 13 00-0009	SF	20' Deep Excavation, Wood Shoring, Pull And Salvage	22.30	
		<i>For Wood Sheeting Left In Place</i>	0.59	

31 41 16 Sheet Piling ^(31 41)

31 41 16 13 Steel Sheet Piling ^(31 41 16)

31 41 16 13-0001 Standard Carbon Grade Steel Sheeting - Pull And Salvage ^(31 41 16 13)

Note: Up to 3 months. 38.5 KSI steel per SF minimum. PSF indicated is for the weight of the material per square foot. Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-backs (rock bolting) where required.

31 41 16 13-0002	TON	Steel Sheet Piling, 15' Excavation, 22 PSF Steel Sheeting, Pull And Salvage	2,108.86	
		<i>For Standard Sheeting Left In Place, Add</i>	1,111.39	
		<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add</i>	1,586.81	
		<i>For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add</i>	118.86	
		<i>For High Strength Sheeting 55,000 PSI Grade, Add</i>	132.06	
		<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add</i>	409.39	
		<i>For Each Additional Month >3 Months, Add</i>	66.03	
31 41 16 13-0003	TON	Steel Sheet Piling, 20' Excavation, 27 PSF Steel Sheeting, Pull And Salvage	2,186.90	
		<i>For Standard Sheeting Left In Place, Add</i>	1,072.37	
		<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add</i>	1,547.79	
		<i>For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add</i>	118.86	
		<i>For High Strength Sheeting 55,000 PSI Grade, Add</i>	132.06	
		<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add</i>	409.39	
		<i>For Each Additional Month >3 Months, Add</i>	66.03	
31 41 16 13-0004	TON	Steel Sheet Piling, 25' Excavation, 38 PSF Steel Sheeting, Pull And Salvage	2,549.72	
		<i>For Standard Sheeting Left In Place, Add</i>	890.96	
		<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add</i>	1,366.38	
		<i>For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add</i>	118.86	
		<i>For High Strength Sheeting 55,000 PSI Grade, Add</i>	132.06	
		<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add</i>	409.39	
		<i>For Each Additional Month >3 Months, Add</i>	66.03	
31 41 16 13-0005	TON	Steel Sheet Piling, 30' Excavation, 38 PSF Steel Sheeting, Pull And Salvage	2,898.85	
		<i>For Standard Sheeting Left In Place, Add</i>	716.39	
		<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add</i>	1,191.82	
		<i>For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add</i>	118.86	
		<i>For High Strength Sheeting 55,000 PSI Grade, Add</i>	132.06	
		<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add</i>	409.39	
		<i>For Each Additional Month >3 Months, Add</i>	66.03	
31 41 16 13-0006	TON	Steel Sheet Piling, 35' Excavation, 38 PSF Steel Sheeting, Pull And Salvage	3,104.22	
		<i>For Standard Sheeting Left In Place, Add</i>	613.71	
		<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add</i>	1,089.13	
		<i>For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add</i>	118.86	
		<i>For High Strength Sheeting 55,000 PSI Grade, Add</i>	132.06	
		<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add</i>	409.39	
		<i>For Each Additional Month >3 Months, Add</i>	66.03	
31 41 16 13-0007	TON	Steel Sheet Piling, 40' Excavation, 38 PSF Steel Sheeting, Pull And Salvage	3,313.70	
		<i>For Standard Sheeting Left In Place, Add</i>	508.97	
		<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add</i>	984.39	
		<i>For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add</i>	118.86	
		<i>For High Strength Sheeting 55,000 PSI Grade, Add</i>	132.06	
		<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add</i>	409.39	
		<i>For Each Additional Month >3 Months, Add</i>	66.03	

31 45 Vibroflotation and Densification ^(31 40)

31	31 Earthwork
	31 40 Shoring and Underpinning
	31 45 Vibroflotation and Densification



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 45 13 Vibroflotation <small>(31 45)</small>	
31 45 13 00-0001 LCY Soil Stabilization, Vibroflotation.....	13.89

31 60 Special Foundations and Load-bearing Elements (31)

31 62 Driven Piles (31 60)

31 62 13 Concrete Piles (31 62)

31 62 13 23 Prestressed Concrete Piles (31 62 13)

31 62 13 23-0001 Square Prestressed Driven Concrete Piles (31 62 13 23)

31 62 13 23-0002 VLF 10" Square Prestressed Driven Concrete Pile	30.92
<i>For Piles Driven In Water, Add</i>	14.75
31 62 13 23-0003 VLF 12" Square Prestressed Driven Concrete Pile	38.86
<i>For Piles Driven In Water, Add</i>	16.63
31 62 13 23-0004 VLF 14" Square Prestressed Driven Concrete Pile	47.18
<i>For Piles Driven In Water, Add</i>	18.31
31 62 13 23-0005 VLF 16" Square Prestressed Driven Concrete Pile	57.90
<i>For Piles Driven In Water, Add</i>	20.36
31 62 13 23-0006 VLF 18" Square Prestressed Driven Concrete Pile	70.37
<i>For Piles Driven In Water, Add</i>	22.72
31 62 13 23-0007 VLF 20" Square Prestressed Driven Concrete Pile	81.44
<i>For Piles Driven In Water, Add</i>	25.14
31 62 13 23-0008 VLF 24" Square Prestressed Driven Concrete Pile	104.01
<i>For Piles Driven In Water, Add</i>	28.94

31 62 13 23-0009 Octagonal Prestressed Driven Concrete Piles (31 62 13 23)

31 62 13 23-0010 VLF 12" Octagonal Prestressed Driven Concrete Pile.....	51.83
<i>For Piles Driven In Water, Add</i>	17.18
31 62 13 23-0011 VLF 14" Octagonal Prestressed Driven Concrete Pile.....	65.49
<i>For Piles Driven In Water, Add</i>	19.29
31 62 13 23-0012 VLF 16" Octagonal Prestressed Driven Concrete Pile.....	79.26
<i>For Piles Driven In Water, Add</i>	21.52
31 62 13 23-0013 VLF 18" Octagonal Prestressed Driven Concrete Pile.....	96.40
<i>For Piles Driven In Water, Add</i>	24.21
31 62 13 23-0014 VLF 20" Octagonal Prestressed Driven Concrete Pile.....	102.44
<i>For Piles Driven In Water, Add</i>	25.93
31 62 13 23-0015 VLF 24" Octagonal Prestressed Driven Concrete Pile.....	108.71
<i>For Piles Driven In Water, Add</i>	27.86

31 62 13 23-0016 Straight Cylinder Prestressed Driven Concrete Piles (31 62 13 23)

31 62 13 23-0017 VLF 12" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	38.58
<i>For Piles Driven In Water, Add</i>	15.19
31 62 13 23-0018 VLF 14" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	45.25
<i>For Piles Driven In Water, Add</i>	16.52
31 62 13 23-0019 VLF 16" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	53.14
<i>For Piles Driven In Water, Add</i>	18.06
31 62 13 23-0020 VLF 18" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	59.85
<i>For Piles Driven In Water, Add</i>	19.58
31 62 13 23-0021 VLF 20" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	74.42
<i>For Piles Driven In Water, Add</i>	22.01
31 62 13 23-0022 VLF 24" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile.....	91.22
<i>For Piles Driven In Water, Add</i>	24.81

31 62 16 Steel Piles (31 62)

31 62 16 16 Steel H Piles (31 62 16)

31 62 16 16-0001 Rolled, Driven Steel H Piles (31 62 16 16)

31 62 16 16-0002 VLF 8" x 8" x 36 LB/FT, Rolled, Driven Steel H Pile	52.42
<i>For Piles Driven In Water, Add</i>	17.99
31 62 16 16-0003 VLF 10" x 10" x 42 LB/FT, Rolled, Driven Steel H Pile	59.51
<i>For Piles Driven In Water, Add</i>	19.33
31 62 16 16-0004 VLF 10" x 10" x 57 LB/FT, Rolled, Driven Steel H Pile	75.45
<i>For Piles Driven In Water, Add</i>	20.93
31 62 16 16-0005 VLF 12" x 12" x 53 LB/FT, Rolled, Driven Steel H Pile	71.64
<i>For Piles Driven In Water, Add</i>	20.94
31 62 16 16-0006 VLF 12" x 12" x 63 LB/FT, Rolled, Driven Steel H Pile	82.27
<i>For Piles Driven In Water, Add</i>	22.01
31 62 16 16-0007 VLF 12" x 12" x 74 LB/FT, Rolled, Driven Steel H Pile	95.24
<i>For Piles Driven In Water, Add</i>	24.46
31 62 16 16-0008 VLF 12" x 12" x 84 LB/FT, Rolled, Driven Steel H Pile	105.87
<i>For Piles Driven In Water, Add</i>	25.52
31 62 16 16-0009 VLF 14" x 14" x 73 LB/FT, Rolled, Driven Steel H Pile	94.59
<i>For Piles Driven In Water, Add</i>	24.76
31 62 16 16-0010 VLF 14" x 14" x 89 LB/FT, Rolled, Driven Steel H Pile	112.66
<i>For Piles Driven In Water, Add</i>	26.57



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 16 16-0011 VLF 14" x 14" x 102 LB/FT, Rolled, Driven Steel H Pile <i>For Piles Driven In Water, Add</i>	126.82 29.25	
31 62 16 16-0012 VLF 14" x 14" x 117 LB/FT, Rolled, Driven Steel H Pile <i>For Piles Driven In Water, Add</i>	143.83 30.95	
31 62 16 16-0013 Splices, Caps, And Points For H-Piles (31 62 16 16)		
31 62 16 16-0014 Rolled Steel H Pile Splices (31 62 16 16-0013)		
31 62 16 16-0015 EA 8" Rolled Steel H Pile Splice	358.32	
31 62 16 16-0016 EA 10" Rolled Steel H Pile Splice	433.81	
31 62 16 16-0017 EA 12" Rolled Steel H Pile Splice	568.74	
31 62 16 16-0018 EA 14" Rolled Steel H Pile Splice	606.49	
31 62 16 16-0019 Rolled Steel H Driving Caps (31 62 16 16-0013)		
31 62 16 16-0020 EA 8" Rolled Steel H Driving Cap	6,143.23	
31 62 16 16-0021 EA 10" Rolled Steel H Driving Cap	6,143.23	
31 62 16 16-0022 EA 12" Rolled Steel H Driving Cap	6,194.24	
31 62 16 16-0023 EA 14" Rolled Steel H Driving Cap	9,402.76	
31 62 16 16-0024 Rolled Steel H Standard Pile Points (31 62 16 16-0013)		
31 62 16 16-0025 EA 8" Rolled Steel H Standard Pile Point	396.07	
31 62 16 16-0026 EA 10" Rolled Steel H Standard Pile Point	433.81	
31 62 16 16-0027 EA 12" Rolled Steel H Standard Pile Point	568.74	
31 62 16 16-0028 EA 14" Rolled Steel H Standard Pile Point	681.98	
31 62 16 16-0029 EA 10" Rolled Steel H Standard Pile Point	568.74	
31 62 16 16-0030 EA 14" Rolled Steel H Standard Pile Point	755.10	
31 62 16 19 Unfilled Tubular Steel Piles (31 62 16)		
31 62 16 19-0001 Unfilled Tubular Driven Steel Piles (31 62 16 19)		
31 62 16 19-0002 VLF 8" Diameter x 29 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	42.04 20.52	
31 62 16 19-0003 VLF 8" Diameter x 36 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	48.02 21.12	
31 62 16 19-0004 VLF 8" Diameter x 43 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	54.48 21.77	
31 62 16 19-0005 VLF 10" Diameter x 34 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	48.02 21.12	
31 62 16 19-0006 VLF 10" Diameter x 41 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	53.70 21.69	
31 62 16 19-0007 VLF 10" Diameter x 55 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	66.26 22.94	
31 62 16 19-0008 VLF 12" Diameter x 42 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	56.03 22.78	
31 62 16 19-0009 VLF 12" Diameter x 50 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	62.67 23.45	
31 62 16 19-0010 VLF 12" Diameter x 54 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	66.37 23.82	
31 62 16 19-0011 VLF 12" Diameter x 65 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	76.71 24.85	
31 62 16 19-0012 VLF 14" Diameter x 46 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	60.67 25.04	
31 62 16 19-0013 VLF 14" Diameter x 55 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	68.19 25.79	
31 62 16 19-0014 VLF 14" Diameter x 64 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	75.72 26.54	
31 62 16 19-0015 VLF 14" Diameter x 72 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	83.24 27.30	
31 62 16 19-0016 VLF 16" Diameter x 52 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	67.53 27.95	
31 62 16 19-0017 VLF 16" Diameter x 63 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	76.32 28.83	
31 62 16 19-0018 VLF 16" Diameter x 83 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	93.47 30.54	
31 62 16 19-0019 VLF 18" Diameter x 59 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	82.67 31.25	
31 62 16 19-0020 VLF 18" Diameter x 71 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	94.10 32.40	
31 62 16 19-0021 VLF 18" Diameter x 93 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	115.81 34.57	
31 62 16 19-0022 Splices And Points For Pipe Piles (31 62 16 19)		
31 62 16 19-0023 Steel Pipe Pile Splices (31 62 16 19-0022)		
31 62 16 19-0024 EA 8" Diameter, Steel Pipe Pile Splice	241.47	
31 62 16 19-0025 EA 10" Diameter, Steel Pipe Pile Splice	258.41	
31 62 16 19-0026 EA 12" Diameter, Steel Pipe Pile Splice	337.07	
31 62 16 19-0027 EA 14" Diameter, Steel Pipe Pile Splice	353.77	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 62 Driven Piles**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 16 19-0028	EA	16" Diameter, Steel Pipe Pile Splice	425.99	
31 62 16 19-0029	EA	18" Diameter, Steel Pipe Pile Splice	512.72	
31 62 16 19-0030		Steel Pipe Standard Pile Points <small>(31 62 16 19-0022)</small>		
31 62 16 19-0031	EA	8" Diameter, Steel Pipe Standard Pile Point	241.64	
31 62 16 19-0032	EA	10" Diameter, Steel Pipe Standard Pile Point	255.21	
31 62 16 19-0033	EA	12" Diameter, Steel Pipe Standard Pile Point	288.71	
31 62 16 19-0034	EA	14" Diameter, Steel Pipe Standard Pile Point	326.01	
31 62 16 19-0035	EA	16" Diameter, Steel Pipe Standard Pile Point	359.92	
31 62 16 19-0036	EA	18" Diameter, Steel Pipe Standard Pile Point	415.51	
31 62 16 19-0037		Steel Pipe Heavy Duty Pile Points <small>(31 62 16 19-0022)</small>		
31 62 16 19-0038	EA	10" Diameter, Steel Pipe Heavy Duty Pile Point	354.42	
31 62 16 19-0039	EA	12" Diameter, Steel Pipe Heavy Duty Pile Point	371.37	
31 62 16 19-0040	EA	14" Diameter, Steel Pipe Heavy Duty Pile Point	416.06	
31 62 16 19-0041	EA	16" Diameter, Steel Pipe Heavy Duty Pile Point	483.88	
31 62 16 19-0042	EA	18" Diameter, Steel Pipe Heavy Duty Pile Point	544.99	
31 62 19		Timber Piles <small>(31 62)</small>		
31 62 19 00-0001		Friction Or End Bearing, Driven Treated Wood Piles <small>(31 62 19)</small>		
		Note: 12 LB Penta-treated/CF.		
31 62 19 00-0002	LF	Up To 30', 12" Butt x 8" Tip, Friction Or End Bearing, Driven Treated Wood Pile	40.05	
		For Piles Driven In Water, Add	15.34	
		For Untreated Pile, Deduct	-10.16	
		For Each Pile Tip Point, Add	12.50	
		For Each Pile Butt, Driving Cap, Add	20.10	
		For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0003	LF	>30' To 39', 12" Butt x 8" Tip, Friction Or End Bearing, Driven Treated Wood Pile	41.92	
		For Piles Driven In Water, Add	16.94	
		For Untreated Pile, Deduct	-10.27	
		For Each Pile Tip Point, Add	12.50	
		For Each Pile Butt, Driving Cap, Add	20.10	
		For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0004	LF	39' To 49', 12" Butt x 7" Tip, Friction Or End Bearing, Driven Treated Wood Pile	44.13	
		For Piles Driven In Water, Add	18.00	
		For Untreated Pile, Deduct	-10.74	
		For Each Pile Tip Point, Add	12.50	
		For Each Pile Butt, Driving Cap, Add	20.10	
		For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0005	LF	>49' To 59', 13" Butt x 7" Tip, Friction Or End Bearing, Driven Treated Wood Pile	47.33	
		For Piles Driven In Water, Add	20.03	
		For Untreated Pile, Deduct	-11.22	
		For Each Pile Tip Point, Add	12.50	
		For Each Pile Butt, Driving Cap, Add	20.10	
		For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0006	LF	>59' To 69', 13" Butt x 6" Tip, Friction Or End Bearing, Driven Treated Wood Pile	59.47	
		For Piles Driven In Water, Add	22.94	
		For Untreated Pile, Deduct	-15.02	
		For Each Pile Tip Point, Add	12.50	
		For Each Pile Butt, Driving Cap, Add	20.10	
		For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0007	LF	>69' To 79', 13" Butt x 6" Tip, Friction Or End Bearing, Driven Treated Wood Pile	74.56	
		For Piles Driven In Water, Add	27.85	
		For Untreated Pile, Deduct	-19.20	
		For Each Pile Tip Point, Add	12.50	
		For Each Pile Butt, Driving Cap, Add	20.10	
		For Each Splice For Pile >50', Add	139.40	
31 62 23		Composite Piles <small>(31 62)</small>		
31 62 23 13		Concrete-Filled Steel Piles <small>(31 62 23)</small>		
31 62 23 13-0001		Concrete-Filled Driven Steel Pipe Piles <small>(31 62 23 13)</small>		
		Note: Includes 4,000 PSI concrete grout. Excludes reinforcing.		
31 62 23 13-0002	VLF	8" Diameter x 29 LB/FT, Concrete-Filled Driven Steel Pipe Pile	46.05	
		For 5,000 PSI Concrete Grout Fill, Add	5.92	
		For Piles Driven In Water, Add	22.34	
31 62 23 13-0003	VLF	8" Diameter x 36 LB/FT, Concrete-Filled Driven Steel Pipe Pile	52.03	
		For 5,000 PSI Concrete Grout Fill, Add	6.51	
		For Piles Driven In Water, Add	22.93	
31 62 23 13-0004	VLF	8" Diameter x 43 LB/FT, Concrete-Filled Driven Steel Pipe Pile	58.49	
		For 5,000 PSI Concrete Grout Fill, Add	7.16	
		For Piles Driven In Water, Add	23.58	
31 62 23 13-0005	VLF	10" Diameter x 34 LB/FT, Concrete-Filled Driven Steel Pipe Pile	53.92	
		For 5,000 PSI Concrete Grout Fill, Add	8.50	
		For Piles Driven In Water, Add	23.53	
31 62 23 13-0006	VLF	10" Diameter x 41 LB/FT, Concrete-Filled Driven Steel Pipe Pile	59.60	
		For 5,000 PSI Concrete Grout Fill, Add	9.07	
		For Piles Driven In Water, Add	24.10	



Earthwork	31	15
Special Foundations and Load-bearing Elements	31 60	
Driven Piles	31 62	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 23 13-0007 VLF 10" Diameter x 55 LB/FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	72.16 10.32 25.35	
31 62 23 13-0008 VLF 12" Diameter x 42 LB/FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	64.32 11.63 26.09	
31 62 23 13-0009 VLF 12" Diameter x 50 LB/FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	70.97 12.29 26.75	
31 62 23 13-0010 VLF 12" Diameter x 54 LB/FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	74.66 12.66 27.12	
31 62 23 13-0011 VLF 12" Diameter x 65 LB/FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	85.00 13.70 28.16	
31 62 23 13-0012 VLF 14" Diameter x 46 LB/FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	71.74 14.65 30.16	
31 62 23 13-0013 VLF 14" Diameter x 55 LB/FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	79.26 15.40 30.91	
31 62 23 13-0014 VLF 14" Diameter x 64 LB/FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	86.79 16.16 31.67	
31 62 23 13-0015 VLF 14" Diameter x 72 LB/FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	94.31 16.91 32.42	
31 62 23 13-0016 VLF 16" Diameter x 52 LB/FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	79.76 18.38 32.32	
31 62 23 13-0017 VLF 16" Diameter x 63 LB/FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	88.56 19.26 33.20	
31 62 23 13-0018 VLF 16" Diameter x 83 LB/FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	105.71 20.98 34.92	
31 62 23 13-0019 VLF 18" Diameter x 59 LB/FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	97.52 23.46 36.07	
31 62 23 13-0020 VLF 18" Diameter x 71 LB/FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	108.95 24.60 37.21	
31 62 23 13-0021 VLF 18" Diameter x 93 LB/FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	130.66 26.77 39.38	
31 62 23 13-0022 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Piles <small>(31 62 23 13)</small> Note: End bearing, with fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.		
31 62 23 13-0023 VLF 12" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pipe <i>For Piles Driven In Water, Add</i>	56.27 19.22	
31 62 23 13-0024 VLF 14" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pipe <i>For Piles Driven In Water, Add</i>	67.89 21.36	
31 62 23 13-0025 VLF 16" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pipe <i>For Piles Driven In Water, Add</i>	76.68 23.36	
31 62 23 13-0026 VLF 18" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pipe <i>For Piles Driven In Water, Add</i>	83.40 25.33	
31 62 23 13-0027 Tapered Friction Concrete-Filled Driven Steel Piles <small>(31 62 23 13)</small> Note: With fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.		
31 62 23 13-0028 VLF 12" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pipe <i>For Piles Driven In Water, Add</i>	55.26 19.12	
31 62 23 13-0029 VLF 14" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pipe <i>For Piles Driven In Water, Add</i>	56.85 20.26	
31 62 23 13-0030 VLF 16" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pipe <i>For Piles Driven In Water, Add</i>	68.94 22.58	
31 62 23 13-0031 VLF 18" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pipe <i>For Piles Driven In Water, Add</i>	79.31 24.92	
31 62 23 13-0032 Thin Wall Shell Straight Sided Driven Steel Piles <small>(31 62 23 13)</small>		
31 62 23 13-0033 VLF 8" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pipe <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	33.90 14.86 0.05	
31 62 23 13-0034 VLF 10" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pipe <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	37.44 16.49 0.06	
31 62 23 13-0035 VLF 12" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pipe <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	40.96 18.12 0.06	
31 62 23 13-0036 VLF 14" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pipe <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	44.50 19.75 0.07	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 62 Driven Piles**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 23 13-0037 VLF 16" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile	48.05	
For Piles Driven In Water, Add	21.38	
For Thick Wall Shell, Add	0.07	
31 63 Bored Piles <small>(31 60)</small>		
31 63 36 Drilled Steel Piles <small>(31 63)</small>		
31 63 36 00-0001 Drill Hole <small>(31 63 36)</small>		
Note: Excludes removal of excess material.		
31 63 36 00-0002 Drilling Mobilization <small>(31 63 36 00-0001)</small>		
31 63 36 00-0003 EA >12" To 24" Diameter Hole, Drilling Mobilization	830.98	
31 63 36 00-0004 EA >24" Diameter Hole, Drilling Mobilization	1,107.97	
31 63 36 00-0005 Drill Hole In Soil <small>(31 63 36 00-0001)</small>		
31 63 36 00-0006 LF 18" Diameter, Up To 24' Depth, Drilled/Augered Hole	46.43	
31 63 36 00-0007 LF 20" Diameter, Up To 24' Depth, Drilled/Augered Hole	53.99	
31 63 36 00-0008 LF 22" Diameter, Up To 24' Depth, Drilled/Augered Hole	63.44	
31 63 36 00-0009 LF 24" Diameter, Up To 24' Depth, Drilled/Augered Hole	74.78	
31 63 36 00-0010 LF 26" Diameter, Up To 24' Depth, Drilled/Augered Hole	80.82	
31 63 36 00-0011 LF 28" Diameter, Up To 24' Depth, Drilled/Augered Hole	88.92	
31 63 36 00-0012 LF 30" Diameter, Up To 24' Depth, Drilled/Augered Hole	97.40	
31 63 36 00-0013 Steel H Piles <small>(31 63 36)</small>		
31 63 36 00-0014 Placed In Drilled Hole, Rolled Steel H-Section Piles <small>(31 63 36 00-0013)</small>		
Note: Includes guides, bracing and alignment.		
31 63 36 00-0015 VLF 8" x 8" x 36 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	49.62	
For >2,400 To 3,600, Deduct	-1.52	
For >3,600 To 4,800, Deduct	-3.05	
For >4,800 To 6,000, Deduct	-5.53	
For >6,000, Deduct	-8.01	
31 63 36 00-0016 VLF 10" x 10" x 42 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	56.57	
For >2,400 To 3,600, Deduct	-1.71	
For >3,600 To 4,800, Deduct	-3.43	
For >4,800 To 6,000, Deduct	-6.25	
For >6,000, Deduct	-9.08	
31 63 36 00-0017 VLF 10" x 10" x 57 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	72.51	
For >2,400 To 3,600, Deduct	-2.11	
For >3,600 To 4,800, Deduct	-4.22	
For >4,800 To 6,000, Deduct	-7.85	
For >6,000, Deduct	-11.47	
31 63 36 00-0018 VLF 12" x 12" x 53 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	68.60	
For >2,400 To 3,600, Deduct	-2.02	
For >3,600 To 4,800, Deduct	-4.04	
For >4,800 To 6,000, Deduct	-7.47	
For >6,000, Deduct	-10.90	
31 63 36 00-0019 VLF 12" x 12" x 63 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	79.23	
For >2,400 To 3,600, Deduct	-2.29	
For >3,600 To 4,800, Deduct	-4.58	
For >4,800 To 6,000, Deduct	-8.54	
For >6,000, Deduct	-12.50	
31 63 36 00-0020 VLF 12" x 12" x 74 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	91.95	
For >2,400 To 3,600, Deduct	-2.63	
For >3,600 To 4,800, Deduct	-5.26	
For >4,800 To 6,000, Deduct	-9.86	
For >6,000, Deduct	-14.46	
31 63 36 00-0021 VLF 12" x 12" x 84 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	102.58	
For >2,400 To 3,600, Deduct	-2.90	
For >3,600 To 4,800, Deduct	-5.79	
For >4,800 To 6,000, Deduct	-10.92	
For >6,000, Deduct	-16.05	
31 63 36 00-0022 VLF 14" x 14" x 73 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	91.21	
For >2,400 To 3,600, Deduct	-2.62	
For >3,600 To 4,800, Deduct	-5.24	
For >4,800 To 6,000, Deduct	-9.80	
For >6,000, Deduct	-14.36	
31 63 36 00-0023 VLF 14" x 14" x 89 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	109.28	
For >2,400 To 3,600, Deduct	-3.07	
For >3,600 To 4,800, Deduct	-6.15	
For >4,800 To 6,000, Deduct	-11.61	
For >6,000, Deduct	-17.07	
31 63 36 00-0024 VLF 14" x 14" x 102 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	123.17	
For >2,400 To 3,600, Deduct	-3.45	
For >3,600 To 4,800, Deduct	-6.90	
For >4,800 To 6,000, Deduct	-13.06	
For >6,000, Deduct	-19.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 63 36 00-0025 VLF 14" x 14" x 117 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	140.18	
<i>For >2,400 To 3,600, Deduct</i>	-3.87	
<i>For >3,600 To 4,800, Deduct</i>	-7.75	
<i>For >4,800 To 6,000, Deduct</i>	-14.76	
<i>For >6,000, Deduct</i>	-21.77	
31 63 36 00-0026 Welded Steel Stud Pins <small>(31 63 36 00-0013)</small>		
Note: Includes welding to steel piles.		
31 63 36 00-0027 EA 5/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins	11.94	
<i>For >50 To 150, Deduct</i>	-0.53	
<i>For >150 To 250, Deduct</i>	-1.09	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-2.22	
31 63 36 00-0028 EA 5/8" Diameter x 5" Long, Welded Steel Stud Pins.....	13.33	
<i>For >50 To 150, Deduct</i>	-0.53	
<i>For >150 To 250, Deduct</i>	-1.13	
<i>For >250 To 500, Deduct</i>	-1.72	
<i>For >500, Deduct</i>	-2.32	
31 63 36 00-0029 EA 5/8" Diameter x 7" Long, Welded Steel Stud Pins.....	14.68	
<i>For >50 To 150, Deduct</i>	-0.53	
<i>For >150 To 250, Deduct</i>	-1.16	
<i>For >250 To 500, Deduct</i>	-1.79	
<i>For >500, Deduct</i>	-2.42	
31 63 36 00-0030 EA 3/4" Diameter x 2-1/2" Long, Welded Steel Stud Pins	13.30	
<i>For >50 To 150, Deduct</i>	-0.56	
<i>For >150 To 250, Deduct</i>	-1.17	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.39	
31 63 36 00-0031 EA 3/4" Diameter x 5" Long, Welded Steel Stud Pins.....	15.42	
<i>For >50 To 150, Deduct</i>	-0.56	
<i>For >150 To 250, Deduct</i>	-1.22	
<i>For >250 To 500, Deduct</i>	-1.88	
<i>For >500, Deduct</i>	-2.54	
31 63 36 00-0032 EA 3/4" Diameter x 7" Long, Welded Steel Stud Pins.....	16.90	
<i>For >50 To 150, Deduct</i>	-0.56	
<i>For >150 To 250, Deduct</i>	-1.26	
<i>For >250 To 500, Deduct</i>	-1.96	
<i>For >500, Deduct</i>	-2.66	
31 63 36 00-0033 EA 7/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins	15.01	
<i>For >50 To 150, Deduct</i>	-0.58	
<i>For >150 To 250, Deduct</i>	-1.24	
<i>For >250 To 500, Deduct</i>	-1.91	
<i>For >500, Deduct</i>	-2.57	
31 63 36 00-0034 EA 7/8" Diameter x 5" Long, Welded Steel Stud Pins.....	18.45	
<i>For >50 To 150, Deduct</i>	-0.58	
<i>For >150 To 250, Deduct</i>	-1.33	
<i>For >250 To 500, Deduct</i>	-2.08	
<i>For >500, Deduct</i>	-2.83	
31 63 36 00-0035 EA 7/8" Diameter x 7" Long, Welded Steel Stud Pins.....	20.14	
<i>For >50 To 150, Deduct</i>	-0.58	
<i>For >150 To 250, Deduct</i>	-1.37	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.96	
31 63 36 00-0036 Concrete Fill <small>(31 63 36)</small>		
See CSI section 03 37 16 00-0001 for pumping equipment.		
31 63 36 00-0037 VLF 18" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	46.67	
31 63 36 00-0038 VLF 20" Diameter Hole Pumped Concrete Fill For Drilled Pile	51.84	
31 63 36 00-0039 VLF 22" Diameter Hole Pumped Concrete Fill For Drilled Pile	57.03	
31 63 36 00-0040 VLF 24" Diameter Hole Pumped Concrete Fill For Drilled Pile	62.21	
31 63 36 00-0041 VLF 26" Diameter Hole Pumped Concrete Fill For Drilled Pile	67.40	
31 63 36 00-0042 VLF 28" Diameter Hole Pumped Concrete Fill For Drilled Pile	72.58	
31 63 36 00-0043 VLF 30" Diameter Hole Pumped Concrete Fill For Drilled Pile	83.79	
31 64 Caissons <small>(31 60)</small>		
31 64 13 Box Caissons <small>(31 64)</small>		
31 64 13 00-0001 Caisson In Stable Ground No Casing Or Ground Water <small>(31 64 13)</small>		
Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64 13 00-0002 Caisson In Stable Ground <small>(31 64 13 00-0001)</small>		
Note: Includes 3000 PSI concrete and reinforcing.		
31 64 13 00-0003 VLF 18" Diameter Caisson, No Casing Stable Ground, No Ground Water.....	57.88	
Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.		
<i>For >50' To 100' Deep, Add</i>	6.03	
<i>For >100' To 150' Deep, Add</i>	14.47	
<i>For >150' To 200' Deep, Add</i>	19.83	
<i>For Right Angle Drilling, Add</i>	14.08	
<i>For >3 To 9, Deduct</i>	-1.85	
<i>For >9, Deduct</i>	-3.83	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 64 Caissons**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0004 VLF 24" Diameter Caisson, No Casing Stable Ground, No Ground Water.....	75.55	
Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.		
For >50' To 100' Deep, Add	8.57	
For >100' To 150' Deep, Add	18.89	
For >150' To 200' Deep, Add	26.77	
For Right Angle Drilling, Add	16.18	
For >3 To 9, Deduct	-3.08	
For >9, Deduct	-6.37	
31 64 13 00-0005 VLF 30" Diameter Caisson, No Casing Stable Ground, No Ground Water.....	109.25	
Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.		
For >50' To 100' Deep, Add	12.90	
For >100' To 150' Deep, Add	27.31	
For >150' To 200' Deep, Add	39.34	
For Right Angle Drilling, Add	21.83	
For >3 To 9, Deduct	-4.92	
For >9, Deduct	-10.18	
31 64 13 00-0006 VLF 36" Diameter Caisson, No Casing Stable Ground, No Ground Water.....	146.75	
Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.		
For >50' To 100' Deep, Add	17.82	
For >100' To 150' Deep, Add	36.69	
For >150' To 200' Deep, Add	53.46	
For Right Angle Drilling, Add	27.77	
For >3 To 9, Deduct	-7.08	
For >9, Deduct	-14.63	
31 64 13 00-0007 VLF 42" Diameter Caisson, No Casing Stable Ground, No Ground Water.....	191.78	
Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.		
For >50' To 100' Deep, Add	24.03	
For >100' To 150' Deep, Add	47.95	
For >150' To 200' Deep, Add	70.79	
For Right Angle Drilling, Add	33.99	
For >3 To 9, Deduct	-9.94	
For >9, Deduct	-20.54	
31 64 13 00-0008 VLF 48" Diameter Caisson No Casing Stable Ground, No Ground Water.....	231.92	
Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.		
For >50' To 100' Deep, Add	29.48	
For >100' To 150' Deep, Add	57.98	
For >150' To 200' Deep, Add	86.13	
For Right Angle Drilling, Add	39.78	
For >3 To 9, Deduct	-12.42	
For >9, Deduct	-25.66	
31 64 13 00-0009 VLF 54" Diameter Caisson No Casing Stable Ground, No Ground Water.....	284.68	
Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.		
For >50' To 100' Deep, Add	37.10	
For >100' To 150' Deep, Add	71.17	
For >150' To 200' Deep, Add	106.87	
For Right Angle Drilling, Add	45.97	
For >3 To 9, Deduct	-16.10	
For >9, Deduct	-33.27	
31 64 13 00-0010 VLF 60" Diameter Caisson No Casing Stable Ground, No Ground Water.....	337.83	
Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.		
For >50' To 100' Deep, Add	44.78	
For >100' To 150' Deep, Add	84.46	
For >150' To 200' Deep, Add	127.76	
For Right Angle Drilling, Add	52.21	
For >3 To 9, Deduct	-19.81	
For >9, Deduct	-40.94	
31 64 13 00-0011 VLF 66" Diameter Caisson No Casing Stable Ground, No Ground Water.....	397.90	
Note: 0.88 CY Concrete per VLF, 113 lbs rebar per VLF.		
For >50' To 100' Deep, Add	53.42	
For >100' To 150' Deep, Add	99.48	
For >150' To 200' Deep, Add	151.33	
For Right Angle Drilling, Add	59.37	
For >3 To 9, Deduct	-23.97	
For >9, Deduct	-49.53	
31 64 13 00-0012 VLF 72" Diameter Caisson No Casing Stable Ground, No Ground Water.....	467.63	
Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.		
For >50' To 100' Deep, Add	63.51	
For >100' To 150' Deep, Add	116.91	
For >150' To 200' Deep, Add	178.76	
For Right Angle Drilling, Add	67.50	
For >3 To 9, Deduct	-28.85	
For >9, Deduct	-59.63	
31 64 13 00-0013 VLF 78" Diameter Caisson No Casing Stable Ground, No Ground Water.....	537.41	
Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.		
For >50' To 100' Deep, Add	73.74	
For >100' To 150' Deep, Add	134.35	
For >150' To 200' Deep, Add	206.37	
For Right Angle Drilling, Add	75.22	
For >3 To 9, Deduct	-33.86	
For >9, Deduct	-69.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0014 VLF 84" Diameter Caisson No Casing Stable Ground, No Ground Water.....	612.11	
Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.		
For >50' To 100' Deep, Add	84.74	
For >100' To 150' Deep, Add	153.03	
For >150' To 200' Deep, Add	236.00	
For Right Angle Drilling, Add	83.33	
For >3 To 9, Deduct	-39.27	
For >9, Deduct	-81.16	
31 64 13 00-0015 For Bell Excavation And Concrete, Add <small>(31 64 13 00-0001)</small>		
31 64 13 00-0016 EA Bell Excavation And Concrete, 4' Bell Diameter Stable Ground, 24" Shaft, 0.44 CY	402.69	
For >50' To 100' Deep, Add	33.86	
For >100' To 150' Deep, Add	100.67	
For >150' To 200' Deep, Add	127.90	
For >3 To 9, Deduct	-5.32	
For >9, Deduct	-10.99	
31 64 13 00-0017 EA Bell Excavation And Concrete, 6' Bell Diameter Stable Ground, 30" Shaft, 1.57 CY	1,416.23	
For >50' To 100' Deep, Add	119.31	
For >100' To 150' Deep, Add	354.06	
For >150' To 200' Deep, Add	450.09	
For >3 To 9, Deduct	-18.92	
For >9, Deduct	-39.09	
31 64 13 00-0018 EA Bell Excavation And Concrete, 7' Bell Diameter Stable Ground, 36" Shaft, 2.33 CY	2,151.74	
For >50' To 100' Deep, Add	184.56	
For >100' To 150' Deep, Add	537.94	
For >150' To 200' Deep, Add	687.95	
For >3 To 9, Deduct	-31.82	
For >9, Deduct	-65.76	
31 64 13 00-0019 EA Bell Excavation And Concrete, 8' Bell Diameter Stable Ground, 42" Shaft, 3.30 CY	2,988.50	
For >50' To 100' Deep, Add	256.90	
For >100' To 150' Deep, Add	747.13	
For >150' To 200' Deep, Add	956.18	
For >3 To 9, Deduct	-44.73	
For >9, Deduct	-92.43	
31 64 13 00-0020 EA Bell Excavation And Concrete, 9' Bell Diameter Stable Ground, 48" Shaft, 4.48 CY	4,034.68	
For >50' To 100' Deep, Add	339.80	
For >100' To 150' Deep, Add	1,008.67	
For >150' To 200' Deep, Add	1,282.12	
For >3 To 9, Deduct	-53.79	
For >9, Deduct	-111.16	
31 64 13 00-0021 EA Bell Excavation And Concrete, 10' Bell Diameter Stable Ground, 60" Shaft, 5.24 CY	4,743.60	
For >50' To 100' Deep, Add	399.30	
For >100' To 150' Deep, Add	1,185.90	
For >150' To 200' Deep, Add	1,507.15	
For >3 To 9, Deduct	-63.05	
For >9, Deduct	-130.30	
31 64 13 00-0022 EA Bell Excavation And Concrete, 12' Bell Diameter Stable Ground, 72" Shaft, 8.74 CY	8,040.48	
For >50' To 100' Deep, Add	675.27	
For >100' To 150' Deep, Add	2,010.12	
For >150' To 200' Deep, Add	2,552.69	
For >3 To 9, Deduct	-105.41	
For >9, Deduct	-217.85	
31 64 13 00-0023 EA Bell Excavation And Concrete, 14' Bell Diameter Stable Ground, 84" Shaft, 13.6 CY	11,659.03	
For >50' To 100' Deep, Add	990.57	
For >100' To 150' Deep, Add	2,914.76	
For >150' To 200' Deep, Add	3,715.75	
For >3 To 9, Deduct	-163.53	
For >9, Deduct	-337.97	
31 64 13 00-0024 Caisson In Wet Ground, Casing Pulled <small>(31 64 13)</small>		
Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64 13 00-0025 Caisson In Wet Ground <small>(31 64 13 00-0024)</small>		
Note: Includes 3000 PSI concrete and reinforcing.		
31 64 13 00-0026 VLF 18" Diameter Caisson Wet Ground, Casing Pulled.....	63.12	
Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.		
For >50' To 100' Deep, Add	6.38	
For >100' To 150' Deep, Add	15.78	
For >150' To 200' Deep, Add	21.39	
For Right Angle Drilling, Add	15.95	
For >3 To 9, Deduct	-1.84	
For >9, Deduct	-3.81	
31 64 13 00-0027 VLF 24" Diameter Caisson Wet Ground, Casing Pulled.....	105.31	
Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.		
For >50' To 100' Deep, Add	10.66	
For >100' To 150' Deep, Add	26.33	
For >150' To 200' Deep, Add	35.70	
For Right Angle Drilling, Add	26.59	
For >3 To 9, Deduct	-3.08	
For >9, Deduct	-6.37	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 64 Caissons**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0028 VLF 30" Diameter Caisson Wet Ground, Casing Pulled	142.73	
Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.		
For >50' To 100' Deep, Add	15.24	
For >100' To 150' Deep, Add	35.68	
For >150' To 200' Deep, Add	49.38	
For Right Angle Drilling, Add	33.54	
For >3 To 9, Deduct	-4.92	
For >9, Deduct	-10.18	
31 64 13 00-0029 VLF 36" Diameter Caisson Wet Ground, Casing Pulled	197.16	
Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.		
For >50' To 100' Deep, Add	21.35	
For >100' To 150' Deep, Add	49.29	
For >150' To 200' Deep, Add	68.59	
For Right Angle Drilling, Add	45.41	
For >3 To 9, Deduct	-7.08	
For >9, Deduct	-14.63	
31 64 13 00-0030 VLF 42" Diameter Caisson Wet Ground, Casing Pulled	254.01	
Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.		
For >50' To 100' Deep, Add	28.38	
For >100' To 150' Deep, Add	63.50	
For >150' To 200' Deep, Add	89.46	
For Right Angle Drilling, Add	55.77	
For >3 To 9, Deduct	-9.94	
For >9, Deduct	-20.54	
31 64 13 00-0031 VLF 48" Diameter Caisson Wet Ground, Casing Pulled	305.72	
Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.		
For >50' To 100' Deep, Add	34.65	
For >100' To 150' Deep, Add	76.43	
For >150' To 200' Deep, Add	108.27	
For Right Angle Drilling, Add	65.61	
For >3 To 9, Deduct	-12.42	
For >9, Deduct	-25.66	
31 64 13 00-0032 VLF 54" Diameter Caisson Wet Ground, Casing Pulled	395.32	
Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.		
For >50' To 100' Deep, Add	44.85	
For >100' To 150' Deep, Add	98.83	
For >150' To 200' Deep, Add	140.06	
For Right Angle Drilling, Add	84.70	
For >3 To 9, Deduct	-16.10	
For >9, Deduct	-33.27	
31 64 13 00-0033 VLF 60" Diameter Caisson Wet Ground, Casing Pulled	484.34	
Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.		
For >50' To 100' Deep, Add	55.03	
For >100' To 150' Deep, Add	121.09	
For >150' To 200' Deep, Add	171.71	
For Right Angle Drilling, Add	103.49	
For >3 To 9, Deduct	-19.81	
For >9, Deduct	-40.94	
31 64 13 00-0034 VLF 66" Diameter Caisson Wet Ground, Casing Pulled	558.18	
Note: 0.87 CY Concrete per VLF, 113 lbs rebar per VLF.		
For >50' To 100' Deep, Add	64.64	
For >100' To 150' Deep, Add	139.55	
For >150' To 200' Deep, Add	199.41	
For Right Angle Drilling, Add	115.47	
For >3 To 9, Deduct	-23.97	
For >9, Deduct	-49.53	
31 64 13 00-0035 VLF 72" Diameter Caisson Wet Ground, Casing Pulled	641.64	
Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.		
For >50' To 100' Deep, Add	75.69	
For >100' To 150' Deep, Add	160.41	
For >150' To 200' Deep, Add	230.96	
For Right Angle Drilling, Add	128.40	
For >3 To 9, Deduct	-28.85	
For >9, Deduct	-59.63	
31 64 13 00-0036 VLF 78" Diameter Caisson Wet Ground, Casing Pulled	734.15	
Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.		
For >50' To 100' Deep, Add	87.51	
For >100' To 150' Deep, Add	183.54	
For >150' To 200' Deep, Add	265.40	
For Right Angle Drilling, Add	144.08	
For >3 To 9, Deduct	-33.86	
For >9, Deduct	-69.98	
31 64 13 00-0037 VLF 84" Diameter Caisson Wet Ground, Casing Pulled	831.97	
Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.		
For >50' To 100' Deep, Add	100.13	
For >100' To 150' Deep, Add	207.99	
For >150' To 200' Deep, Add	301.96	
For Right Angle Drilling, Add	160.28	
For >3 To 9, Deduct	-39.27	
For >9, Deduct	-81.16	

31 64 13 00-0038 For Bell Excavation And Concrete, Add (31 64 13 00-0024)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0039 EA Bell Excavation And Concrete, 4' Bell Diameter Wet Ground 24" Shaft, 0.44 CY	460.23	
<i>For >50' To 100' Deep, Add</i>	37.89	
<i>For >100' To 150' Deep, Add</i>	115.06	
<i>For >150' To 200' Deep, Add</i>	145.16	
<i>For >3 To 9, Deduct</i>	-5.32	
<i>For >9, Deduct</i>	-10.99	
31 64 13 00-0040 EA Bell Excavation And Concrete, 6' Bell Diameter Wet Ground, 30" Shaft, 1.57 CY	1,604.53	
<i>For >50' To 100' Deep, Add</i>	132.49	
<i>For >100' To 150' Deep, Add</i>	401.13	
<i>For >150' To 200' Deep, Add</i>	506.58	
<i>For >3 To 9, Deduct</i>	-18.92	
<i>For >9, Deduct</i>	-39.09	
31 64 13 00-0041 EA Bell Excavation And Concrete, 7' Bell Diameter Wet Ground, 36" Shaft, 2.33 CY	2,163.52	
<i>For >50' To 100' Deep, Add</i>	164.37	
<i>For >100' To 150' Deep, Add</i>	540.88	
<i>For >150' To 200' Deep, Add</i>	665.21	
<i>For >3 To 9, Deduct</i>	-12.12	
<i>For >9, Deduct</i>	-25.04	
31 64 13 00-0042 EA Bell Excavation And Concrete, 8' Bell Diameter Wet Ground, 42" Shaft, 3.3 CY	3,534.59	
<i>For >50' To 100' Deep, Add</i>	295.13	
<i>For >100' To 150' Deep, Add</i>	883.65	
<i>For >150' To 200' Deep, Add</i>	1,120.01	
<i>For >3 To 9, Deduct</i>	-44.73	
<i>For >9, Deduct</i>	-92.43	
31 64 13 00-0043 EA Bell Excavation And Concrete, 9' Bell Diameter Wet Ground, 48" Shaft, 4.48 CY	4,571.33	
<i>For >50' To 100' Deep, Add</i>	377.37	
<i>For >100' To 150' Deep, Add</i>	1,142.83	
<i>For >150' To 200' Deep, Add</i>	1,443.12	
<i>For >3 To 9, Deduct</i>	-53.79	
<i>For >9, Deduct</i>	-111.16	
31 64 13 00-0044 EA Bell Excavation And Concrete, 10' Bell Diameter Wet Ground, 60" Shaft, 5.24 CY	5,374.94	
<i>For >50' To 100' Deep, Add</i>	443.50	
<i>For >100' To 150' Deep, Add</i>	1,343.74	
<i>For >150' To 200' Deep, Add</i>	1,696.55	
<i>For >3 To 9, Deduct</i>	-63.05	
<i>For >9, Deduct</i>	-130.30	
31 64 13 00-0045 EA Bell Excavation And Concrete, 12' Bell Diameter Wet Ground, 72" Shaft, 8.74 CY	9,113.75	
<i>For >50' To 100' Deep, Add</i>	750.40	
<i>For >100' To 150' Deep, Add</i>	2,278.44	
<i>For >150' To 200' Deep, Add</i>	2,874.67	
<i>For >3 To 9, Deduct</i>	-105.41	
<i>For >9, Deduct</i>	-217.85	
31 64 13 00-0046 EA Bell Excavation And Concrete, 14' Bell Diameter Wet Ground, 84" Shaft, 13.6 CY	13,192.28	
<i>For >50' To 100' Deep, Add</i>	1,097.89	
<i>For >100' To 150' Deep, Add</i>	3,298.07	
<i>For >150' To 200' Deep, Add</i>	4,175.73	
<i>For >3 To 9, Deduct</i>	-163.53	
<i>For >9, Deduct</i>	-337.97	
31 64 13 00-0047 Caisson In Soft Rock And Medium Hard Shale <small>(31 64 13)</small>		
Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64 13 00-0048 Caisson In Soft Rock <small>(31 64 13 00-0047)</small>		
Note: Includes 3000 PSI concrete and reinforcing.		
31 64 13 00-0049 VLF 18" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water	222.68	
Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.		
<i>For Right Angle Drilling, Add</i>	71.79	
<i>For >3 To 9, Deduct</i>	-1.84	
<i>For >9, Deduct</i>	-3.81	
31 64 13 00-0050 VLF 24" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water	371.28	
Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.		
<i>For Right Angle Drilling, Add</i>	119.68	
<i>For >3 To 9, Deduct</i>	-3.08	
<i>For >9, Deduct</i>	-6.37	
31 64 13 00-0051 VLF 30" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water	560.91	
Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.		
<i>For Right Angle Drilling, Add</i>	179.91	
<i>For >3 To 9, Deduct</i>	-4.92	
<i>For >9, Deduct</i>	-10.18	
31 64 13 00-0052 VLF 36" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water	719.96	
Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.		
<i>For Right Angle Drilling, Add</i>	228.39	
<i>For >3 To 9, Deduct</i>	-7.08	
<i>For >9, Deduct</i>	-14.63	
31 64 13 00-0053 VLF 42" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water	927.46	
Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.		
<i>For >50' To 100' Deep, Add</i>	75.53	
<i>For >100' To 150' Deep, Add</i>	231.87	
<i>For >150' To 200' Deep, Add</i>	291.49	
<i>For Right Angle Drilling, Add</i>	291.48	
<i>For >3 To 9, Deduct</i>	-9.94	
<i>For >9, Deduct</i>	-20.54	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 64 Caissons**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0054	VLF		48" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,119.47	
			Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.		
			For Right Angle Drilling, Add	350.42	
			For >3 To 9, Deduct	-12.42	
			For >9, Deduct	-25.66	
31 64 13 00-0055	VLF		54" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,373.31	
			Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.		
			For >50' To 100' Deep, Add	113.30	
			For >100' To 150' Deep, Add	343.33	
			For >150' To 200' Deep, Add	433.46	
			For Right Angle Drilling, Add	426.99	
			For >3 To 9, Deduct	-16.10	
			For >9, Deduct	-33.27	
31 64 13 00-0056	VLF		60" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,626.79	
			Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.		
			For Right Angle Drilling, Add	503.35	
			For >3 To 9, Deduct	-19.81	
			For >9, Deduct	-40.94	
31 64 13 00-0057	VLF		66" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,796.22	
			Note: 0.88 CY Concrete per VLF, 113 lbs rebar per VLF.		
			For >50' To 100' Deep, Add	151.30	
			For >100' To 150' Deep, Add	449.06	
			For >150' To 200' Deep, Add	570.83	
			For Right Angle Drilling, Add	548.78	
			For >3 To 9, Deduct	-23.97	
			For >9, Deduct	-49.54	
31 64 13 00-0058	VLF		72" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,974.53	
			Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.		
			For Right Angle Drilling, Add	594.91	
			For >3 To 9, Deduct	-28.85	
			For >9, Deduct	-59.63	
31 64 13 00-0059	VLF		78" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	2,041.34	
			Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.		
			For >50' To 100' Deep, Add	179.01	
			For >100' To 150' Deep, Add	510.34	
			For >150' To 200' Deep, Add	657.55	
			For Right Angle Drilling, Add	601.59	
			For >3 To 9, Deduct	-33.86	
			For >9, Deduct	-69.98	
31 64 13 00-0060	VLF		84" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	2,432.64	
			Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.		
			For Right Angle Drilling, Add	720.51	
			For >3 To 9, Deduct	-39.27	
			For >9, Deduct	-81.16	
31 64 13 00-0061			For Bell Excavation And Concrete, Add <small>(31 64 13 00-0047)</small>		
31 64 13 00-0062	EA		Bell Excavation And Concrete, 4' Bell Diameter Soft Rock/Shale 24" Shaft 0.44 CY.....	778.11	
			For >3 To 9, Deduct	-5.32	
			For >9, Deduct	-10.99	
31 64 13 00-0063	EA		Bell Excavation And Concrete, 6' Bell Diameter Soft Rock/Shale 30" Shaft 1.57 CY.....	2,738.74	
			For >3 To 9, Deduct	-18.92	
			For >9, Deduct	-39.09	
31 64 13 00-0064	EA		Bell Excavation And Concrete, 7' Bell Diameter Soft Rock/Shale 36" Shaft 2.33 CY.....	4,114.49	
			For >3 To 9, Deduct	-31.82	
			For >9, Deduct	-65.76	
31 64 13 00-0065	EA		Bell Excavation And Concrete, 8' Bell Diameter Soft Rock/Shale 42" Shaft 3.3 CY.....	5,856.35	
			For >3 To 9, Deduct	-44.73	
			For >9, Deduct	-92.43	
31 64 13 00-0066	EA		Bell Excavation And Concrete, 9' Bell Diameter Soft Rock/Shale 48" Shaft 4.48 CY.....	7,724.72	
			For >3 To 9, Deduct	-53.79	
			For >9, Deduct	-111.16	
31 64 13 00-0067	EA		Bell Excavation And Concrete, 10' Bell Diameter Soft Rock/Shale 60" Shaft 5.24 CY.....	9,405.41	
			For >3 To 9, Deduct	-63.05	
			For >9, Deduct	-130.30	
31 64 13 00-0068	EA		Bell Excavation And Concrete, 12' Bell Diameter Soft Rock/Shale 72" Shaft 8.74 CY.....	14,252.61	
			For >3 To 9, Deduct	-105.41	
			For >9, Deduct	-217.85	
31 64 13 00-0069	EA		Bell Excavation And Concrete, 14' Bell Diameter Soft Rock/Shale 84" Shaft 13.6 CY.....	21,451.17	
			For >3 To 9, Deduct	-163.53	
			For >9, Deduct	-337.97	
31 64 13 00-0070			Caisson Setup And Removal <small>(31 64 13)</small>		
			Note: Includes mobilization of equipment, erection, dismantling of equipment, move off of site.		
31 64 13 00-0071	EA		Erect, Set Up, Dismantle And Removal Of Caisson 18" To 36" Diameter, Complete.....	3,639.94	
			For >3 To 9, Deduct	-18.05	
			For >9, Deduct	-37.30	
31 64 13 00-0072	EA		Erect, Set Up, Dismantle And Removal Of Caisson 48" To 84" Diameter, Complete.....	5,174.07	
			For >3 To 9, Deduct	-48.12	
			For >9, Deduct	-99.46	
31 64 13 00-0073	EA		Dismantle, Relocate, Erect And Set Up On Site At Different Location (During Same Phase Of Work), Caisson 18" To 36" Diameter.....	1,699.66	
31 64 13 00-0074	EA		Dismantle, Relocate, Erect And Set Up On Site At Different Location (During Same Phase Of Work), Caisson 48" To 84" Diameter.....	2,266.21	
31 64 13 00-0075	EA		Relocate Caisson Equipment To Different Hole On-Site Without Dismantling.....	141.64	



Earthwork	31	CS
Special Foundations and Load-bearing Elements	31 60	
Caissons	31 64	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 66 Special Foundation (31 60)

31 66 15 Helical Foundation Piles (31 66)

31 66 15 00-0001 Helical Pier Restoration (Atlas) (31 66 15)

31 66 15 00-0002	EA	Structural Steel Piers (Atlas Pier System Or Equal).....	3,188.64
		Note: Includes heavy duty bracket, pier platform, and 14' of 3.5" diameter pier sections, non-corrosive coating, hydraulic lifting, fasteners, and other related activities and materials. Excludes excavation and core drilling	
		<i>For >3 To 9, Deduct</i>	-239.15
		<i>For >9, Deduct</i>	-494.24
31 66 15 00-0003	EA	Pressure Injecting Grout For Slab Repairs, Per Location	401.34
		Note: Includes preparation, installing and removing grout injection pipes, and finishing. Excludes grout and core drilling.	
		<i>For >3 To 9, Deduct</i>	-30.10
		<i>For >9, Deduct</i>	-62.21
31 66 15 00-0004	CY	Pressure Injected Non-Shrink Grout	401.34
		<i>For >3 To 9, Deduct</i>	-30.10
		<i>For >9, Deduct</i>	-62.21

31 68 Foundation Anchors (31 60)

31 68 13 Rock Foundation Anchors (31 68)

31 68 13 00-0001 Materials And Placement (31 68 13)

31 68 13 00-0002 Hollow Core Prestressable Anchor, ASTM A615 (31 68 13 00-0001)

Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.

31 68 13 00-0003 3/4" Diameter (31 68 13 00-0002)

31 68 13 00-0004	EA	3/4" Rock Bolt, 5' Hollow Core Prestressable Anchor	165.11
		<i>For >3 To 9, Deduct</i>	-7.51
		<i>For >9, Deduct</i>	-15.52
31 68 13 00-0005	EA	3/4" Rock Bolt, 10' Hollow Core Prestressable Anchor	236.44
		<i>For >3 To 9, Deduct</i>	-11.24
		<i>For >9, Deduct</i>	-23.22
31 68 13 00-0006	EA	3/4" Rock Bolt, 15' Hollow Core Prestressable Anchor	286.11
		<i>For >3 To 9, Deduct</i>	-14.96
		<i>For >9, Deduct</i>	-30.92
31 68 13 00-0007	EA	3/4" Rock Bolt, 20' Hollow Core Prestressable Anchor	379.09
		<i>For >3 To 9, Deduct</i>	-18.69
		<i>For >9, Deduct</i>	-38.62

31 68 13 00-0008 1" Diameter (31 68 13 00-0002)

31 68 13 00-0009	EA	1" Rock Bolt, 5' Hollow Core Prestressable Anchor	206.63
		<i>For >3 To 9, Deduct</i>	-10.62
		<i>For >9, Deduct</i>	-21.96
31 68 13 00-0010	EA	1" Rock Bolt, 10' Hollow Core Prestressable Anchor	316.27
		<i>For >3 To 9, Deduct</i>	-17.22
		<i>For >9, Deduct</i>	-35.60
31 68 13 00-0011	EA	1" Rock Bolt, 15' Hollow Core Prestressable Anchor	404.26
		<i>For >3 To 9, Deduct</i>	-23.82
		<i>For >9, Deduct</i>	-49.23
31 68 13 00-0012	EA	1" Rock Bolt, 20' Hollow Core Prestressable Anchor	535.58
		<i>For >3 To 9, Deduct</i>	-30.42
		<i>For >9, Deduct</i>	-62.88

31 68 13 00-0013 1-3/8" Diameter (31 68 13 00-0002)

31 68 13 00-0014	EA	1-3/8" Rock Bolt, 5' Hollow Core Prestressable Anchor	334.64
		<i>For >3 To 9, Deduct</i>	-20.23
		<i>For >9, Deduct</i>	-41.80
31 68 13 00-0015	EA	1-3/8" Rock Bolt, 10' Hollow Core Prestressable Anchor	517.69
		<i>For >3 To 9, Deduct</i>	-32.33
		<i>For >9, Deduct</i>	-66.82
31 68 13 00-0016	EA	1-3/8" Rock Bolt, 15' Hollow Core Prestressable Anchor	679.11
		<i>For >3 To 9, Deduct</i>	-44.44
		<i>For >9, Deduct</i>	-91.84
31 68 13 00-0017	EA	1-3/8" Rock Bolt, 20' Hollow Core Prestressable Anchor	883.82
		<i>For >3 To 9, Deduct</i>	-56.54
		<i>For >9, Deduct</i>	-116.85

31 68 13 00-0018 2" Diameter (31 68 13 00-0002)

31 68 13 00-0019	EA	2" Rock Bolt, 5' Hollow Core Prestressable Anchor	723.98
		<i>For >3 To 9, Deduct</i>	-49.43
		<i>For >9, Deduct</i>	-102.15
31 68 13 00-0020	EA	2" Rock Bolt, 10' Hollow Core Prestressable Anchor	1,074.70
		<i>For >3 To 9, Deduct</i>	-74.11
		<i>For >9, Deduct</i>	-153.15

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 68 Foundation Anchors**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0021 EA 2" Rock Bolt, 15' Hollow Core Prestressable Anchor	1,403.72	
For >3 To 9, Deduct	-98.78	
For >9, Deduct	-204.15	
31 68 13 00-0022 EA 2" Rock Bolt, 20' Hollow Core Prestressable Anchor	1,776.10	
For >3 To 9, Deduct	-123.46	
For >9, Deduct	-255.16	
31 68 13 00-0023 Super High-Tensile Anchors, ASTM A-108 <small>(31 68 13 00-0001)</small>		
Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0024 3/4" Diameter <small>(31 68 13 00-0023)</small>		
31 68 13 00-0025 EA 3/4" Rock Bolt, 5' Super High-Tensile Anchor	123.10	
For >3 To 9, Deduct	-4.36	
For >9, Deduct	-9.01	
31 68 13 00-0026 EA 3/4" Rock Bolt, 10' Super High-Tensile Anchor	164.22	
For >3 To 9, Deduct	-5.82	
For >9, Deduct	-12.03	
31 68 13 00-0027 EA 3/4" Rock Bolt, 15' Super High-Tensile Anchor	183.61	
For >3 To 9, Deduct	-7.27	
For >9, Deduct	-15.03	
31 68 13 00-0028 EA 3/4" Rock Bolt, 20' Super High-Tensile Anchor	244.93	
For >3 To 9, Deduct	-8.63	
For >9, Deduct	-17.83	
31 68 13 00-0029 1" Diameter <small>(31 68 13 00-0023)</small>		
31 68 13 00-0030 EA 1" Rock Bolt, 5' Super High-Tensile Anchor	144.65	
For >3 To 9, Deduct	-5.98	
For >9, Deduct	-12.35	
31 68 13 00-0031 EA 1" Rock Bolt, 10' Super High-Tensile Anchor	200.53	
For >3 To 9, Deduct	-8.54	
For >9, Deduct	-17.66	
31 68 13 00-0032 EA 1" Rock Bolt, 15' Super High-Tensile Anchor	233.01	
For >3 To 9, Deduct	-10.98	
For >9, Deduct	-22.69	
31 68 13 00-0033 EA 1" Rock Bolt, 20' Super High-Tensile Anchor	308.81	
For >3 To 9, Deduct	-13.42	
For >9, Deduct	-27.73	
31 68 13 00-0034 1-1/4" Diameter <small>(31 68 13 00-0023)</small>		
31 68 13 00-0035 EA 1-1/4" Rock Bolt, 5' Super High-Tensile Anchor	207.94	
For >3 To 9, Deduct	-10.72	
For >9, Deduct	-22.16	
31 68 13 00-0036 EA 1-1/4" Rock Bolt, 10' Super High-Tensile Anchor	291.24	
For >3 To 9, Deduct	-15.35	
For >9, Deduct	-31.72	
31 68 13 00-0037 EA 1-1/4" Rock Bolt, 15' Super High-Tensile Anchor	352.50	
For >3 To 9, Deduct	-19.94	
For >9, Deduct	-41.21	
31 68 13 00-0038 EA 1-1/4" Rock Bolt, 20' Super High-Tensile Anchor	454.51	
For >3 To 9, Deduct	-24.34	
For >9, Deduct	-50.31	
31 68 13 00-0039 2" Diameter <small>(31 68 13 00-0023)</small>		
31 68 13 00-0040 EA 2" Rock Bolt, 5' Super High-Tensile Anchor	530.09	
For >3 To 9, Deduct	-34.88	
For >9, Deduct	-72.09	
31 68 13 00-0041 EA 2" Rock Bolt, 10' Super High-Tensile Anchor	752.67	
For >3 To 9, Deduct	-49.95	
For >9, Deduct	-103.24	
31 68 13 00-0042 EA 2" Rock Bolt, 15' Super High-Tensile Anchor	916.05	
For >3 To 9, Deduct	-62.21	
For >9, Deduct	-128.56	
31 68 13 00-0043 EA 2" Rock Bolt, 20' Super High-Tensile Anchor	1,132.64	
For >3 To 9, Deduct	-75.20	
For >9, Deduct	-155.42	
31 68 13 00-0044 Solid Rebar Anchors, ASTM A615 <small>(31 68 13 00-0001)</small>		
Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0045 3/4" Diameter <small>(31 68 13 00-0044)</small>		
31 68 13 00-0046 EA 3/4" Rock Bolt, 5' Solid Rebar Anchor	116.18	
For >3 To 9, Deduct	-3.84	
For >9, Deduct	-7.94	
31 68 13 00-0047 EA 3/4" Rock Bolt, 10' Solid Rebar Anchor	149.59	
For >3 To 9, Deduct	-4.72	
For >9, Deduct	-9.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0048 EA 3/4" Rock Bolt, 15' Solid Rebar Anchor.....	161.32	
<i>For >3 To 9, Deduct</i>	-5.60	
<i>For >9, Deduct</i>	-11.58	
31 68 13 00-0049 EA 3/4" Rock Bolt, 20' Solid Rebar Anchor.....	216.38	
<i>For >3 To 9, Deduct</i>	-6.48	
<i>For >9, Deduct</i>	-13.40	
31 68 13 00-0050 1" Diameter <small>(31 68 13 00-0044)</small>		
31 68 13 00-0051 EA 1" Rock Bolt, 5' Solid Rebar Anchor.....	129.50	
<i>For >3 To 9, Deduct</i>	-4.64	
<i>For >9, Deduct</i>	-10.00	
31 68 13 00-0052 EA 1" Rock Bolt, 10' Solid Rebar Anchor.....	171.61	
<i>For >3 To 9, Deduct</i>	-6.37	
<i>For >9, Deduct</i>	-13.17	
31 68 13 00-0053 EA 1" Rock Bolt, 15' Solid Rebar Anchor.....	192.09	
<i>For >3 To 9, Deduct</i>	-7.91	
<i>For >9, Deduct</i>	-16.35	
31 68 13 00-0054 EA 1" Rock Bolt, 20' Solid Rebar Anchor.....	255.84	
<i>For >3 To 9, Deduct</i>	-9.44	
<i>For >9, Deduct</i>	-19.52	
31 68 13 00-0055 1-1/4" Diameter <small>(31 68 13 00-0044)</small>		
31 68 13 00-0056 EA 1-1/4" Rock Bolt, 5' Solid Rebar Anchor.....	182.77	
<i>For >3 To 9, Deduct</i>	-8.84	
<i>For >9, Deduct</i>	-18.26	
31 68 13 00-0057 EA 1-1/4" Rock Bolt, 10' Solid Rebar Anchor.....	236.39	
<i>For >3 To 9, Deduct</i>	-11.23	
<i>For >9, Deduct</i>	-23.21	
31 68 13 00-0058 EA 1-1/4" Rock Bolt, 15' Solid Rebar Anchor.....	268.43	
<i>For >3 To 9, Deduct</i>	-13.64	
<i>For >9, Deduct</i>	-28.18	
31 68 13 00-0059 EA 1-1/4" Rock Bolt, 20' Solid Rebar Anchor.....	343.75	
<i>For >3 To 9, Deduct</i>	-16.04	
<i>For >9, Deduct</i>	-33.14	
31 68 13 00-0060 Resin Anchoring With Grade 60 Rebar <small>(31 68 13 00-0001)</small>		
Note: Pricing includes only material and labor to install anchors.. See CSI section 31 68 13 00-0081 for rebar collars, 31 68 13 00-0083 for resin cartridges, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0061 Rebar #6 <small>(31 68 13 00-0060)</small>		
31 68 13 00-0062 EA #6 Rebar Rock Anchor, 5' Resin Anchor With Grade 60 Rebar.....	69.43	
<i>For >3 To 9, Deduct</i>	-0.33	
<i>For >9, Deduct</i>	-0.69	
31 68 13 00-0063 EA #6 Rebar Rock Anchor, 10' Resin Anchor With Grade 60 Rebar.....	95.55	
<i>For >3 To 9, Deduct</i>	-0.67	
<i>For >9, Deduct</i>	-1.38	
31 68 13 00-0064 EA #6 Rebar Rock Anchor, 15' Resin Anchor With Grade 60 Rebar.....	100.01	
<i>For >3 To 9, Deduct</i>	-1.00	
<i>For >9, Deduct</i>	-2.08	
31 68 13 00-0065 EA #6 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	138.86	
<i>For >3 To 9, Deduct</i>	-0.67	
<i>For >9, Deduct</i>	-1.38	
31 68 13 00-0066 Rebar #8 <small>(31 68 13 00-0060)</small>		
31 68 13 00-0067 EA #8 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar.....	72.91	
<i>For >3 To 9, Deduct</i>	-0.60	
<i>For >9, Deduct</i>	-1.23	
31 68 13 00-0068 EA #8 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar.....	102.49	
<i>For >3 To 9, Deduct</i>	-1.19	
<i>For >9, Deduct</i>	-2.46	
31 68 13 00-0069 EA #8 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar.....	110.43	
<i>For >3 To 9, Deduct</i>	-1.79	
<i>For >9, Deduct</i>	-3.69	
31 68 13 00-0070 EA #8 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	161.67	
<i>For >3 To 9, Deduct</i>	-2.38	
<i>For >9, Deduct</i>	-4.92	
31 68 13 00-0071 Rebar #10 <small>(31 68 13 00-0060)</small>		
31 68 13 00-0072 EA #10 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar.....	77.87	
<i>For >3 To 9, Deduct</i>	-0.97	
<i>For >9, Deduct</i>	-2.00	
31 68 13 00-0073 EA #10 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar.....	112.41	
<i>For >3 To 9, Deduct</i>	-1.93	
<i>For >9, Deduct</i>	-4.00	
31 68 13 00-0074 EA #10 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar.....	125.31	
<i>For >3 To 9, Deduct</i>	-2.90	
<i>For >9, Deduct</i>	-6.00	

31	31 Earthwork
	31 60 Special Foundations and Load-bearing Elements
	31 68 Foundation Anchors



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	31 68 13 00-0075	EA	#10 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	181.51 -3.87 -7.99	
	31 68 13 00-0076		Rebar #14 <small>(31 68 13 00-0060)</small>		
	31 68 13 00-0077	EA	#14 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	89.77 -1.86 -3.84	
	31 68 13 00-0078	EA	#14 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	136.22 -3.72 -7.69	
	31 68 13 00-0079	EA	#14 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	161.02 -5.58 -11.53	
	31 68 13 00-0080	EA	#14 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	229.13 -7.44 -15.38	
	31 68 13 00-0081		Plastic Rebar Collars, Sizes #6-#14 <small>(31 68 13 00-0060)</small>		
	31 68 13 00-0082	EA	Plastic Rebar Collars For Rebar #4 To #14 <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	1.08 -0.08 -0.17	
	31 68 13 00-0083		12" Long Resin Cartridges <small>(31 68 13 00-0001)</small>		
	31 68 13 00-0084	EA	7/8" Resin Cartridge 12" Long <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	1.44 -0.11 -0.22	
	31 68 13 00-0085	EA	1" Resin Cartridge 12" Long <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	1.98 -0.15 -0.31	
	31 68 13 00-0086	EA	1-1/16" Resin Cartridge 12" Long <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	2.12 -0.16 -0.33	
	31 68 13 00-0087	EA	1-1/4" Resin Cartridge 12" Long <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	2.29 -0.17 -0.35	
	31 68 13 00-0088	EA	1-3/8" Resin Cartridge 12" Long <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	2.62 -0.20 -0.41	
	31 68 13 00-0089	EA	1-9/16" Resin Cartridge 12" Long <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	3.29 -0.25 -0.51	
	31 68 13 00-0090	EA	1-3/4" Resin Cartridge 12" Long <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	4.52 -0.34 -0.70	
	31 68 13 00-0091		Head Assembly <small>(31 68 13 00-0001)</small>		
	31 68 13 00-0092		3/4" Rod Diameter <small>(31 68 13 00-0091)</small>		
	31 68 13 00-0093	EA	3/4" Rod Head Assembly 1-5/8" Short Cone and Shell <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	21.70 -1.63 -3.36	
	31 68 13 00-0094	EA	3/4" Rod Head Assembly 1-3/4" Short Cone and Shell <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	18.28 -1.37 -2.83	
	31 68 13 00-0095	EA	3/4" Rod Head Assembly 1-7/8" Short Cone and Shell <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	19.17 -1.44 -2.97	
	31 68 13 00-0096	EA	3/4" Rod Head Assembly 1-3/4" Long Cone and Shell <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	34.42 -2.58 -5.34	
	31 68 13 00-0097	EA	3/4" Rod Head Assembly 1-7/8" Long Cone and Shell <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	34.42 -2.58 -5.34	
	31 68 13 00-0098	EA	3/4" Rod Head Assembly 1-3/4" Long Cone and Shell <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	32.61 -2.45 -5.05	
	31 68 13 00-0099		1" Rod Diameter <small>(31 68 13 00-0091)</small>		
	31 68 13 00-0100	EA	1" Rod Head Assembly 1-5/8" Short Cone and Shell <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	23.39 -1.75 -3.63	
	31 68 13 00-0101	EA	1" Rod Head Assembly 1-3/4" Short Cone and Shell <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	20.01 -1.50 -3.10	
	31 68 13 00-0102	EA	1" Rod Head Assembly 1-7/8" Short Cone and Shell <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	20.91 -1.57 -3.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0103 EA 1" Rod Head Assembly 1-3/4" Long Cone and Shell <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	36.21 -2.72 -5.61	
31 68 13 00-0104 EA 1" Rod Head Assembly 1-7/8" Long Cone and Shell <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	36.21 -2.72 -5.61	
31 68 13 00-0105 EA 1" Rod Head Assembly 1-3/4" Long Cone and Shell <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	34.52 -2.59 -5.35	
31 68 13 00-0106 1-1/4" Rod Diameter <small>(31 68 13 00-0091)</small>		
31 68 13 00-0107 EA 1-1/4" Rod Head Assembly 2" Short Cone and Shell <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	52.18 -3.91 -8.09	
31 68 13 00-0108 EA 1-1/4" Rod Head Assembly 2-1/4" Short Cone and Shell <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	60.96 -4.57 -9.45	
31 68 13 00-0109 EA 1-1/4" Rod Head Assembly 2-1/2" Short Cone and Shell <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	61.83 -4.64 -9.58	
31 68 13 00-0110 EA 1-1/4" Rod Head Assembly 2-1/4" Long Cone and Shell <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	54.83 -4.11 -8.50	
31 68 13 00-0111 EA 1-1/4" Rod Head Assembly 2-1/2" Long Cone and Shell <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	63.93 -4.79 -9.91	
31 68 13 00-0112 1-7/8" Rod Diameter <small>(31 68 13 00-0091)</small>		
31 68 13 00-0113 EA 1-7/8" Rod Head Assembly 3-1/2" Long Cone/Shell/Fl <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	205.37 -15.40 -31.83	
31 68 13 00-0114 EA 1-7/8" Rod Head Assembly 3" Long Cone and Shell <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	141.58 -10.62 -21.94	
31 68 13 00-0115 2" Rod Diameter <small>(31 68 13 00-0091)</small>		
31 68 13 00-0116 EA 2" Rod Head Assembly 3-1/2" Long Cone/Shell/Fl <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	205.37 -15.40 -31.83	
31 68 13 00-0117 EA 2" Rod Head Assembly 3" Long Cone and Shell <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	141.58 -10.62 -21.94	
31 68 13 00-0118 Steel Plates With Standard Hole And Washers <small>(31 68 13 00-0001)</small>		
31 68 13 00-0119 Steel Plates <small>(31 68 13 00-0118)</small>		
31 68 13 00-0120 EA 1/4" x 4" x 4" Steel Plate For Rock Bolt With Washer <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	2.92 -0.22 -0.45	
31 68 13 00-0121 EA 1/4" x 6" x 6" Steel Plate For Rock Bolt With Washer <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	5.40 -0.41 -0.84	
31 68 13 00-0122 EA 3/8" x 6" x 6" Steel Plate For Rock Bolt With Washer <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	7.52 -0.56 -1.17	
31 68 13 00-0123 EA 3/8" x 8" x 8" Steel Plate For Rock Bolt With Washer <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	13.18 -0.99 -2.04	
31 68 13 00-0124 EA 1/2" x 5" x 5" Steel Plate For Rock Bolt With Washer <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	5.12 -0.38 -0.79	
31 68 13 00-0125 EA 1/2" x 8" x 8" Steel Plate For Rock Bolt With Washer <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	13.44 -1.01 -2.08	
31 68 13 00-0126 EA 3/4" x 7" x 7" Steel Plate For Rock Bolt With Washer <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	22.30 -1.67 -3.46	
31 68 13 00-0127 EA 3/4" x 8" x 8" Steel Plate For Rock Bolt With Washer <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	31.60 -2.37 -4.90	
31 68 13 00-0128 EA 1" x 4" x 7" Steel Plate For Rock Bolt With Washer <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	18.97 -1.42 -2.94	
31 68 13 00-0129 EA 1" x 9" x 9" Steel Plate For Rock Bolt With Washer <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	53.66 -4.02 -8.32	
31 68 13 00-0130 EA 1" x 12" x 12" Steel Plate For Rock Bolt With Washer <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	79.07 -5.93 -12.26	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 68 Foundation Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0131	EA		1-1/4" x 5" x 8" Steel Plate For Rock Bolt With Washer	34.71	
			<i>For >3 To 9, Deduct</i>	-2.60	
			<i>For >9, Deduct</i>	-5.38	
31 68 13 00-0132	EA		1-1/4" x 11" x 11" Steel Plate For Rock Bolt With Washer	93.88	
			<i>For >3 To 9, Deduct</i>	-7.04	
			<i>For >9, Deduct</i>	-14.55	
31 68 13 00-0133	EA		1-1/2" x 5" x 10" Steel Plate For Rock Bolt With Washer	46.95	
			<i>For >3 To 9, Deduct</i>	-3.52	
			<i>For >9, Deduct</i>	-7.28	
31 68 13 00-0134	EA		1-1/2" x 12" x 12" Steel Plate For Rock Bolt With Washer	112.92	
			<i>For >3 To 9, Deduct</i>	-8.47	
			<i>For >9, Deduct</i>	-17.50	
31 68 13 00-0135	EA		1-3/4" x 5" x 10" Steel Plate For Rock Bolt With Washer	51.82	
			<i>For >3 To 9, Deduct</i>	-3.89	
			<i>For >9, Deduct</i>	-8.03	
31 68 13 00-0136	EA		1-3/4" x 12" x 12" Steel Plate For Rock Bolt With Washer	125.24	
			<i>For >3 To 9, Deduct</i>	-9.39	
			<i>For >9, Deduct</i>	-19.41	
31 68 13 00-0137			Hardened Washers <small>(31 68 13 00-0118)</small>		
31 68 13 00-0138	EA		Hardened Washer For 3/4" Diameter Rock Bolt.....	0.72	
			<i>For >3 To 9, Deduct</i>	-0.05	
			<i>For >9, Deduct</i>	-0.11	
31 68 13 00-0139	EA		Hardened Washer For 1" Diameter Rock Bolt.....	0.99	
			<i>For >3 To 9, Deduct</i>	-0.07	
			<i>For >9, Deduct</i>	-0.15	
31 68 13 00-0140	EA		Hardened Washer For 1-1/4" Diameter Rock Bolt	2.78	
			<i>For >3 To 9, Deduct</i>	-0.21	
			<i>For >9, Deduct</i>	-0.43	
31 68 13 00-0141	EA		Hardened Washer For 2" Diameter Rock Bolt.....	6.92	
			<i>For >3 To 9, Deduct</i>	-0.52	
			<i>For >9, Deduct</i>	-1.07	
31 68 13 00-0142			Beveled Washers <small>(31 68 13 00-0118)</small>		
31 68 13 00-0143	EA		Beveled Washer For 3/4" Diameter Rock Bolt	1.81	
			<i>For >3 To 9, Deduct</i>	-0.14	
			<i>For >9, Deduct</i>	-0.28	
31 68 13 00-0144	EA		Beveled Washer For 7/8" To 1-1/8" Diameter Rock Bolt.....	1.79	
			<i>For >3 To 9, Deduct</i>	-0.13	
			<i>For >9, Deduct</i>	-0.28	
31 68 13 00-0145	EA		Beveled Wash For 1-1/4" To 1-3/8" Diameter Rock Bolt.....	2.70	
			<i>For >3 To 9, Deduct</i>	-0.20	
			<i>For >9, Deduct</i>	-0.42	
31 68 13 00-0146	EA		Beveled Washer For 1-1/2" Diameter Rock Bolt	11.56	
			<i>For >3 To 9, Deduct</i>	-0.87	
			<i>For >9, Deduct</i>	-1.79	
31 68 13 00-0147	EA		Beveled Washer For 2" Diameter Rock Bolt	7.99	
			<i>For >3 To 9, Deduct</i>	-0.60	
			<i>For >9, Deduct</i>	-1.24	
31 68 13 00-0148			Hex Nuts <small>(31 68 13 00-0118)</small>		
31 68 13 00-0149	EA		Hex Nut For 3/4" Diameter Rock Bolt.....	1.41	
			<i>For >3 To 9, Deduct</i>	-0.11	
			<i>For >9, Deduct</i>	-0.22	
31 68 13 00-0150	EA		Hex Nut For 1" Diameter Rock Bolt.....	2.31	
			<i>For >3 To 9, Deduct</i>	-0.17	
			<i>For >9, Deduct</i>	-0.36	
31 68 13 00-0151	EA		Hex Nut For 1-1/4" Diameter Rock Bolt.....	9.45	
			<i>For >3 To 9, Deduct</i>	-0.71	
			<i>For >9, Deduct</i>	-1.46	
31 68 13 00-0152	EA		Hex Nut For 1-1/2" Diameter Rock Bolt.....	5.95	
			<i>For >3 To 9, Deduct</i>	-0.45	
			<i>For >9, Deduct</i>	-0.92	
31 68 13 00-0153	EA		Hex Nut For 2" Diameter Rock Bolt.....	37.97	
			<i>For >3 To 9, Deduct</i>	-2.85	
			<i>For >9, Deduct</i>	-5.89	
31 68 13 00-0154			Drilling Operation For Rockbolts <small>(31 68 13)</small>		
31 68 13 00-0155			Drill Holes For Rock Bolts <small>(31 68 13 00-0154)</small>		
31 68 13 00-0156			3/4" Diameter Bolt, 1-3/4" Hole <small>(31 68 13 00-0155)</small>		
31 68 13 00-0157	EA		Drill 1-3/4" Diameter Hole x 5' Long For 3/4" Diameter Rock Bolts	163.71	
31 68 13 00-0158	EA		Drill 1-3/4" Diameter Hole x 10' Long For 3/4" Diameter Rock Bolts	309.24	
31 68 13 00-0159	EA		Drill 1-3/4" Diameter Hole x 15' Long For 3/4" Diameter Rock Bolts	463.87	
31 68 13 00-0160	EA		Drill 1-3/4" Diameter Hole x 20' Long For 3/4" Diameter Rock Bolts	556.64	
31 68 13 00-0161			1" Diameter Bolt, 2" Hole <small>(31 68 13 00-0155)</small>		
31 68 13 00-0162	EA		Drill 2" Diameter Hole x 5' Long For 1" Diameter Rock Bolt.....	214.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0163 EA Drill 2" Diameter Hole x 10' Long For 1" Diameter Rock Bolt.....	397.59	
31 68 13 00-0164 EA Drill 2" Diameter Hole x 15' Long For 1" Diameter Rock Bolt.....	556.64	
31 68 13 00-0165 EA Drill 2" Diameter Hole x 20' Long For 1" Diameter Rock Bolt.....	695.79	
31 68 13 00-0166 1-1/4" Diameter Bolt, 2-1/4" Hole <small>(31 68 13 00-0155)</small>		
31 68 13 00-0167 EA Drill 2-1/4" Diameter Hole x 5' Long For 1-1/4" Diameter Rock Bolt.....	231.93	
31 68 13 00-0168 EA Drill 2-1/4" Diameter Hole x 10' Long For 1-1/4" Diameter Rock Bolt.....	463.87	
31 68 13 00-0169 EA Drill 2-1/4" Diameter Hole x 15' long For 1-1/4" Diameter Rock Bolt.....	695.79	
31 68 13 00-0170 EA Drill 2-1/4" Diameter Hole x 20' Long For 1-1/4" Diameter Rock Bolt.....	927.73	
31 68 13 00-0171 2" Diameter Bolt, 3-1/2" Hole <small>(31 68 13 00-0155)</small>		
31 68 13 00-0172 EA Drill 3-1/2" Diameter Hole x 5 Long For 2" Diameter Rock Bolt.....	278.31	
31 68 13 00-0173 EA Drill 3-1/2" Diameter Hole x 10' Long For 2" Diameter Rock Bolt.....	556.64	
31 68 13 00-0174 EA Drill 3-1/2" Diameter Hole x 15' Long For 2" Diameter Rock Bolts.....	927.73	
31 68 13 00-0175 EA Drill 3-1/2" Diameter Hole x 20' Long For 2" Diameter Rock Bolt.....	1,391.59	
31 68 13 00-0176 Tools <small>(31 68 13)</small>		
31 68 13 00-0177 Hydraulic Jacks, Monthly Rental <small>(31 68 13 00-0176)</small>		
31 68 13 00-0178 EA 1/2" To 1", 30 Ton Hydraulic Jack For Rock Bolt, 2" Stroke.....	504.61	
For >3 To 9, Deduct	-37.85	
For >9, Deduct	-78.21	
31 68 13 00-0179 EA 1-1/8" To 1-3/8", 60 Ton Hydraulic Jack For Rock Bolt, 3" Stroke.....	743.65	
For >3 To 9, Deduct	-55.77	
For >9, Deduct	-115.27	
31 68 13 00-0180 EA 1-1/8" To 1-3/8", 60 Ton Hydraulic Jack For Rock Bolt, 10" Stroke.....	1,247.55	
For >3 To 9, Deduct	-93.57	
For >9, Deduct	-193.37	
31 68 13 00-0181 EA 1-7/8" To 2", 100 Ton Hydraulic Jack For Rock Bolt, 10" Stroke.....	1,867.74	
For >3 To 9, Deduct	-140.08	
For >9, Deduct	-289.50	
31 68 13 00-0182 EA 1-7/8" To 2", 150 Ton Hydraulic Jack For Rock Bolt, 12" Stroke.....	2,791.93	
For >3 To 9, Deduct	-209.39	
For >9, Deduct	-432.75	
31 68 13 00-0183 Torque Wrenches And Ratchet Adapter, Monthly Rental <small>(31 68 13 00-0176)</small>		
31 68 13 00-0184 0-500 Foot Pounds (0-678J) <small>(31 68 13 00-0183)</small>		
31 68 13 00-0185 EA 1/2" To 1" Bolt Diameter Torque Wrench 0 To 500 Foot Pounds, Monthly Rental.....	176.58	
For >3 To 9, Deduct	-13.24	
For >9, Deduct	-27.37	
31 68 13 00-0186 EA Torque Wrench Ratchet Adapter Monthly Rental, 0 To 500 Foot Pounds.....	110.69	
For >3 To 9, Deduct	-8.30	
For >9, Deduct	-17.16	
31 68 13 00-0187 EA Torque Wrench With Adapter 0 To 500 Foot Pounds, Monthly Rental.....	287.48	
For >3 To 9, Deduct	-21.56	
For >9, Deduct	-44.56	
31 68 13 00-0188 0-600 Foot Pounds (0-814J) <small>(31 68 13 00-0183)</small>		
31 68 13 00-0189 EA 0 To 600 Foot Pounds Torque Wrench Self-Ratcheting, Monthly Rental.....	200.48	
For >3 To 9, Deduct	-15.04	
For >9, Deduct	-31.07	
31 68 13 00-0190 Up To 1,000 Foot Pounds (0-1356J) <small>(31 68 13 00-0183)</small>		
31 68 13 00-0191 EA 1-1/8" To 2" Bolt Diameter Torque Wrench 0 To 1,000 Foot Pounds, Monthly Rental.....	385.03	
For >3 To 9, Deduct	-28.88	
For >9, Deduct	-59.68	
31 68 13 00-0192 EA Torque Wrench Ratchet Adapter 0 To 1,000 Foot Pounds, Monthly Rental.....	94.97	
For >3 To 9, Deduct	-7.12	
For >9, Deduct	-14.72	
31 68 13 00-0193 EA Torque Wrench With Ratchet 0 To 1,000 Foot Pounds, Monthly Rental.....	480.00	
For >3 To 9, Deduct	-36.00	
For >9, Deduct	-74.40	
31 68 13 00-0194 Torque Multiplier, 4:1 Multiplier <small>(31 68 13 00-0176)</small>		
31 68 13 00-0195 EA Torque Multiplier, 4 To 1 Ratio.....	493.14	
For >3 To 9, Deduct	-36.99	
For >9, Deduct	-76.44	
31 68 13 00-0196 Pneumatic Drive Torque Wrench <small>(31 68 13 00-0176)</small>		
31 68 13 00-0197 EA Pneumatic Drive Torque Wrench 250 To 900 Foot Pounds (339J - 1220J).....	1,055.18	
For >3 To 9, Deduct	-79.14	
For >9, Deduct	-163.55	

31	31 Earthwork
	31 60 Special Foundations and Load-bearing Elements
	31 68 Foundation Anchors



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0198 Grouting <small>(31 68 13)</small>		
31 68 13 00-0199 Grouting With Pumps <small>(31 68 13 00-0198)</small>		
Note: Grout material and labor only.		
31 68 13 00-0200 GAL Rock Bolt Grouting, Hand Pump 1 To 2 GPM Delivery	17.14	
For >3 To 9, Deduct	-0.66	
For >9, Deduct	-1.37	
31 68 13 00-0201 GAL Rock Bolt Grouting, Air Pump 3 To 4 GPM Continuous Delivery	27.73	
For >3 To 9, Deduct	-0.66	
For >9, Deduct	-1.37	
31 68 13 00-0202 GAL Rock Bolt Grout, Air/Piston Pump 2 To 4 GPM Delivery	25.46	
For >3 To 9, Deduct	-0.66	
For >9, Deduct	-1.37	
31 68 13 00-0203 Grout Pumps, Monthly Rental <small>(31 68 13 00-0198)</small>		
31 68 13 00-0204 EA Hand Grout Pump, Monthly Rental	226.84	
For >3 To 9, Deduct	-17.01	
For >9, Deduct	-35.16	
31 68 13 00-0205 EA Air Powered Programmable Feed Grout Pump Monthly Rental	1,908.22	
For >3 To 9, Deduct	-143.12	
For >9, Deduct	-295.77	
31 68 13 00-0206 EA Air Powered, Piston Drive Grout Pump Monthly Rental	3,331.59	
For >3 To 9, Deduct	-249.87	
For >9, Deduct	-516.40	
31 68 13 00-0207 Rock Bolt Testing <small>(31 68 13)</small>		
31 68 13 00-0208 EA Rock Bolt Test, Low To Medium Capacity LF >100 Bolts Need Testing	416.59	
For >3 To 9, Deduct	-31.24	
For >9, Deduct	-64.57	

END OF SECTION 31



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 Exterior Improvements

32 01 Operation and Maintenance of Exterior Improvements ⁽³²⁾

32 01 11 Paving Cleaning ^(32 01)

32 01 11 53 Paint Removal from Paving ^(32 01 11)

32 01 11 53-0001 Remove Pavement Markings ^(32 01 11 53)

Note: Includes stripe removal by grinding, vacuuming of removed striped area and containment of debris.

32 01 11 53-0002	LF	Removal Of 4" Wide Painted Or Epoxy Pavement Striping	1.87
		<i>For Up To 250, Add</i>	0.94
		<i>For >250 To 1,000, Add</i>	0.47
		<i>For >5,000 To 10,000, Deduct</i>	-0.28
		<i>For >10,000 To 25,000, Deduct</i>	-0.47
		<i>For >25,000 To 50,000, Deduct</i>	-0.65
		<i>For >50,000, Deduct</i>	-0.75
32 01 11 53-0003	LF	Removal Of 6" Wide Painted Or Epoxy Pavement Striping	2.25
		<i>For Up To 250, Add</i>	1.13
		<i>For >250 To 1,000, Add</i>	0.56
		<i>For >5,000 To 10,000, Deduct</i>	-0.34
		<i>For >10,000 To 25,000, Deduct</i>	-0.56
		<i>For >25,000 To 50,000, Deduct</i>	-0.79
		<i>For >50,000, Deduct</i>	-0.90
32 01 11 53-0004	LF	Removal Of 8" Wide Painted Or Epoxy Pavement Striping	2.71
		<i>For Up To 250, Add</i>	1.36
		<i>For >250 To 1,000, Add</i>	0.68
		<i>For >5,000 To 10,000, Deduct</i>	-0.41
		<i>For >10,000 To 25,000, Deduct</i>	-0.68
		<i>For >25,000 To 50,000, Deduct</i>	-0.95
		<i>For >50,000, Deduct</i>	-1.08
32 01 11 53-0005	LF	Removal Of 12" Wide Painted Or Epoxy Pavement Striping	3.24
		<i>For Up To 250, Add</i>	1.62
		<i>For >250 To 1,000, Add</i>	0.81
		<i>For >5,000 To 10,000, Deduct</i>	-0.49
		<i>For >10,000 To 25,000, Deduct</i>	-0.81
		<i>For >25,000 To 50,000, Deduct</i>	-1.13
		<i>For >50,000, Deduct</i>	-1.30
32 01 11 53-0006	SF	Removal Of Painted Or Epoxy Pavement Marking, Letters Or Symbols.....	3.24
		<i>For Up To 250, Add</i>	1.62
		<i>For >250 To 1,000, Add</i>	0.81
		<i>For >5,000 To 10,000, Deduct</i>	-0.49
		<i>For >10,000 To 25,000, Deduct</i>	-0.81
		<i>For >25,000 To 50,000, Deduct</i>	-1.13
		<i>For >50,000, Deduct</i>	-1.30

32 01 11 53-0007 Remove Pavement Markings (Monterey County) ^(32 01 11 53)

32 01 11 53-0008	LF	Remove Thermoplastic Pavement Stripe.....	1.28
32 01 11 53-0009	SF	Remove Thermoplastic Pavement Marking	5.25

32 01 13 Flexible Paving Surface Treatment ^(32 01)

32 01 13 61 Slurry Seal (Latex Modified) ^(32 01 13)

32 01 13 61-0001 Asphalt Seal Coating, For Roads And Parking Lot ^(32 01 13 61)

Note: Includes sweeping and cleaning of area.

32 01 13 61-0002	EA	Asphalt Seal Coating Minimum	564.40
		Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	
32 01 13 61-0003	SY	Up To 500 SY, Type O Asphalt Seal Coating, No Aggregate, Per Coat.....	2.00
32 01 13 61-0004	SY	>500 To 1,000 SY, Type O Asphalt Seal Coating, No Aggregate, Per Coat.....	1.78
32 01 13 61-0005	SY	>1,000 SY, Type O Asphalt Seal Coating, No Aggregate, Per Coat.....	1.61
32 01 13 61-0006	SY	Up To 500 SY, Type I Slurry Seal Asphalt Coating, Per Coat.....	2.24
		Note: 1/8" thick.	
		<i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i>	0.30
		<i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i>	0.36
		<i>For Rubberized Polymer Modified Emulsion (RPME), Add</i>	0.46
		<i>For Each 0.5% Of Latex Addition, Add</i>	0.12
32 01 13 61-0007	SY	>500 To 1,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat	2.06
		Note: 1/8" thick.	
		<i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i>	0.29
		<i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i>	0.35
		<i>For Rubberized Polymer Modified Emulsion (RPME), Add</i>	0.45
		<i>For Each 0.5% Of Latex Addition, Add</i>	0.12
32 01 13 61-0008	SY	>1,000 To 5,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat	1.93
		Note: 1/8" thick.	
		<i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i>	0.28
		<i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i>	0.34
		<i>For Rubberized Polymer Modified Emulsion (RPME), Add</i>	0.44
		<i>For Each 0.5% Of Latex Addition, Add</i>	0.12

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 13 Flexible Paving Surface Treatment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 13 61-0009 SY >5,000 To 20,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat .....1.81 Note: 1/8" thick. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.28 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.34 For Rubberized Polymer Modified Emulsion (RPME), Add 0.44 For Each 0.5% Of Latex Addition, Add 0.12		
32 01 13 61-0010 SY >20,000 To 50,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat .....1.81 Note: 1/8" thick. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.28 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.34 For Rubberized Polymer Modified Emulsion (RPME), Add 0.44 For Each 0.5% Of Latex Addition, Add 0.12		
32 01 13 61-0011 SY >50,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat.....1.59 Note: 1/8" thick. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.27 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.33 For Rubberized Polymer Modified Emulsion (RPME), Add 0.43 For Each 0.5% Of Latex Addition, Add 0.12		
32 01 13 61-0012 SY Up To 500 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....3.03 Note: 1/4" thick, 14 to 18 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.32 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.38 For Rubberized Polymer Modified Emulsion (RPME), Add 0.48 For Each 0.5% Of Latex Addition, Add 0.17		
32 01 13 61-0013 SY >500 To 1,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat .....2.77 Note: 1/4" thick, 14 to 18 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.31 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.37 For Rubberized Polymer Modified Emulsion (RPME), Add 0.47 For Each 0.5% Of Latex Addition, Add 0.17		
32 01 13 61-0014 SY >1,000 To 5,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat .....2.56 Note: 1/4" thick, 14 to 18 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.30 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.36 For Rubberized Polymer Modified Emulsion (RPME), Add 0.46 For Each 0.5% Of Latex Addition, Add 0.17		
32 01 13 61-0015 SY >5,000 To 20,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat .....2.37 Note: 1/4" thick, 14 to 18 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.29 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.35 For Rubberized Polymer Modified Emulsion (RPME), Add 0.45 For Each 0.5% Of Latex Addition, Add 0.17		
32 01 13 61-0016 SY >20,000 To 50,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat .....2.19 Note: 1/4" thick, 14 to 18 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.28 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.34 For Rubberized Polymer Modified Emulsion (RPME), Add 0.44 For Each 0.5% Of Latex Addition, Add 0.17		
32 01 13 61-0017 SY >50,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....2.03 Note: 1/4" thick, 14 to 18 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.27 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.33 For Rubberized Polymer Modified Emulsion (RPME), Add 0.43 For Each 0.5% Of Latex Addition, Add 0.17		
32 01 13 61-0018 SY Up To 500 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....3.70 Note: 3/8" thick, 25 to 30 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.33 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.39 For Rubberized Polymer Modified Emulsion (RPME), Add 0.49 For Each 0.5% Of Latex Addition, Add 0.28		
32 01 13 61-0019 SY >500 To 1,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat .....3.41 Note: 3/8" thick, 25 to 30 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.31 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.37 For Rubberized Polymer Modified Emulsion (RPME), Add 0.47 For Each 0.5% Of Latex Addition, Add 0.28		
32 01 13 61-0020 SY >1,000 To 5,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat .....3.19 Note: 3/8" thick, 25 to 30 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.30 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.36 For Rubberized Polymer Modified Emulsion (RPME), Add 0.46 For Each 0.5% Of Latex Addition, Add 0.28		
32 01 13 61-0021 SY >5,000 To 20,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat .....2.99 Note: 3/8" thick, 25 to 30 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.29 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.35 For Rubberized Polymer Modified Emulsion (RPME), Add 0.45 For Each 0.5% Of Latex Addition, Add 0.28		
32 01 13 61-0022 SY >20,000 To 50,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat .....2.80 Note: 3/8" thick, 25 to 30 Lbs/SY. For Tire Rubber Modified Slurry Seal (TRMSS), Add 0.28 For Rubberized Emulsion Aggregate Slurry (REAS), Add 0.34 For Rubberized Polymer Modified Emulsion (RPME), Add 0.44 For Each 0.5% Of Latex Addition, Add 0.28		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 13 61-0023 SY >50,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat	2.62	
Note: 3/8" thick, 25 to 30 Lbs/SY.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.27	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.33	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.43	
For Each 0.5% Of Latex Addition, Add	0.28	
32 01 13 62 Asphalt Surface Treatment (32 01 13)		
32 01 13 62-0001 Polymer-Modified, Microsurfacing Emulsion (MSE Microsurfacing) (32 01 13 62)		
Note: Use a blend of emulsified quick-set polymer-modified emulsion asphalt and latex-based polymer. Includes sweeping and cleaning of area.		
32 01 13 62-0002 SY Up To 200 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	6.48	
32 01 13 62-0003 SY Up To 500 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	6.02	
32 01 13 62-0004 SY >500 To 1,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	5.63	
32 01 13 62-0005 SY >1,000 To 5,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	5.31	
32 01 13 62-0006 SY >5,000 To 10,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	5.01	
32 01 13 62-0007 SY >10,000 To 20,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	4.74	
32 01 13 62-0008 SY >20,000 To 50,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	4.55	
32 01 13 62-0009 SY >50,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	4.45	
32 01 16 Flexible Paving Rehabilitation (32 01)		
32 01 16 71 Cold Milling Asphalt Pavement (32 01 16)		
32 01 16 71-0001 Removal Of Asphalt Surface Course (32 01 16 71)		
Note: Includes direct loading into truck.		
32 01 16 71-0002 Production Cold Milling Of Roads And Parking Areas (32 01 16 71-0001)		
Note: For removal of entire lanes of roads or parking areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0050 for hauling.		
32 01 16 71-0003 SY Up To 3" Depth, Production Cold Milling Of Asphalt	4.09	
For Up To 2,500, Add	3.07	
For >2,500 To 5,000, Add	1.02	
For >10,000 To 25,000, Deduct	-0.41	
For >25,000, Deduct	-0.61	
32 01 16 71-0004 SY >3" To 6" Depth, Production Cold Milling Of Asphalt	5.45	
For Up To 2,500, Add	4.09	
For >2,500 To 5,000, Add	1.36	
For >10,000 To 25,000, Deduct	-0.55	
For >25,000, Deduct	-0.82	
32 01 16 71-0005 SY >6" To 12" Depth, Production Cold Milling Of Asphalt	7.24	
For Up To 2,500, Add	5.43	
For >2,500 To 5,000, Add	1.81	
For >10,000 To 25,000, Deduct	-0.72	
For >25,000, Deduct	-1.09	
32 01 16 71-0006 Limited Production Cold Milling (32 01 16 71-0001)		
Note: For cross sections of roadways, trenching, partial shoulders, and other small or narrow areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0050 for hauling.		
32 01 16 71-0007 SY Up To 3" Depth, Limited Cold Milling Of Asphalt	25.82	
For >100 To 1,000, Deduct	-12.91	
For >1,000, Deduct	-19.37	
32 01 16 71-0008 SY >3" To 6" Depth, Limited Cold Milling Of Asphalt	34.19	
For >100 To 1,000, Deduct	-17.10	
For >1,000, Deduct	-25.64	
32 01 16 71-0009 SY >6" To 12" Depth, Limited Cold Milling Of Asphalt	45.54	
For >100 To 1,000, Deduct	-22.77	
For >1,000, Deduct	-34.16	
32 01 16 71-0010 Grind, Leave In-Place Asphalt Grindings (32 01 16 71)		
Note: For use as subbase material, includes spreading and rolling.		
32 01 16 71-0011 SY Grind, Leave In-Place As Subbase Course, 6-9" Depth	6.66	
32 01 16 73 In Place Cold Reused Asphalt Paving (32 01 16)		
32 01 16 73-0001 Cold-In-Place-Full Depth Reclamation With Foam Asphalt (FDR-FA) (32 01 16 73)		
Note: Includes milling Up To 12" of existing AC surface. Excludes traffic control, grading, utilities adjustment and wearing course of either Chip Seal or HMA overlay of the finished surface.		
32 01 16 73-0002 SF Up To 30,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	4.53	
For >12" To 18" Depth, Add	1.54	
32 01 16 73-0003 SF >30,000 To 42,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	4.22	
For >12" To 18" Depth, Add	1.44	
32 01 16 73-0004 SF >42,000 To 71,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	3.54	
For >12" To 18" Depth, Add	1.24	
32 01 16 73-0005 SF >71,000 To 130,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	3.02	
For >12" To 18" Depth, Add	1.08	

32 Exterior Improvements
32 01 Operation and Maintenance of Exterior Improvements
32 01 16 Flexible Paving Rehabilitation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 16 73-0006	SF		>130,000 To 250,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA) <i>For >12" To 18" Depth, Add</i>	2.70 0.99	
32 01 16 73-0007	SF		>250,000 To 500,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA) <i>For >12" To 18" Depth, Add</i>	2.49 0.92	
32 01 16 73-0008	SF		>500,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA) <i>For >12" To 18" Depth, Add</i>	2.35 0.88	
32 01 16 73-0009			Cold-In-Place-Full Depth Reclamation Process With Cement (FDR-C) ^(32 01 16) ⁷³⁾ Note: Includes milling Up To 12" of existing AC surface. Excludes traffic control, grading, utilities adjustment and wearing course of either Chip Seal or HMA overlay of the finished surface.		
32 01 16 73-0010	SF		Up To 30,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C) <i>For >12" To 18" Depth, Add</i>	4.94 1.74	
32 01 16 73-0011	SF		>42,000 To 71,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C) <i>For >12" To 18" Depth, Add</i>	3.95 1.44	
32 01 16 73-0012	SF		>71,000 To 130,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C) <i>For >12" To 18" Depth, Add</i>	3.43 1.29	
32 01 16 73-0013	SF		>130,000 To 250,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C) <i>For >12" To 18" Depth, Add</i>	3.11 1.19	
32 01 16 73-0014	SF		>250,000 To 500,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C) <i>For >12" To 18" Depth, Add</i>	2.90 1.13	
32 01 16 73-0015	SF		>500,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C) <i>For >12" To 18" Depth, Add</i>	2.76 1.09	
32 01 16 73-0016			Supplemental Aggregate ^(32 01 16 73)		
32 01 16 73-0017	TON		Supplemental Aggregate.....	80.84	
32 01 16 73-0018			Cold-In-Place Recycling (CALTRAN) ^(32 01 16 73)		
32 01 16 73-0019	TON		Sand Cover (CIPR) <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 2,500, Deduct</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	58.00 -1.45 -2.90 -4.06 -5.22	
32 01 16 73-0020	SY		Cold In Place Recycling (CIPR) <i>For >10,000 To 25,000, Deduct</i> <i>For >25,000, Deduct</i>	6.50 -0.65 -0.98	
32 01 16 73-0021	TON		Cement (CIPR)..... <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 2,500, Deduct</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	135.00 -3.38 -6.75 -9.45 -12.15	
32 01 16 73-0022	TON		Emulsified Recycling Agent (CIPR)..... <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 2,500, Deduct</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	610.00 -15.25 -30.50 -42.70 -54.90	
32 01 16 73-0023	TON		Asphaltic Emulsion (CIPR)..... <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 2,500, Deduct</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	610.00 -15.25 -30.50 -42.70 -54.90	
32 01 16 74			In Place Hot Reused Asphalt Paving ^(32 01 16)		
32 01 16 74-0001			Reclamation, Pulverize And Blending With Existing ^(32 01 16 74) Note: Includes direct loading into truck.		
32 01 16 74-0002	SY		Up To 2" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	13.91	
32 01 16 74-0003	SY		Up To 2" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	6.95	
32 01 16 74-0004	SY		Up To 2" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	3.48	
32 01 16 74-0005	SY		Up To 2" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	3.29	
32 01 16 74-0006	SY		>2" To 3" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	3.79	
32 01 16 74-0007	SY		>2" To 3" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	15.18	
32 01 16 74-0008	SY		>2" To 3" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	7.59	
32 01 16 74-0009	SY		>2" To 3" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	3.57	
32 01 16 74-0010	SY		>3" To 4" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	16.69	
32 01 16 74-0011	SY		>3" To 4" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	8.34	
32 01 16 74-0012	SY		>3" To 4" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	4.18	
32 01 16 74-0013	SY		>3" To 4" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	3.85	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 16 74-0014 SY >4" To 8" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	18.21	
32 01 16 74-0015 SY >4" To 8" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	9.11	
32 01 16 74-0016 SY >4" To 8" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	4.55	
32 01 16 74-0017 SY >4" To 8" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.25	
32 01 16 74-0018 EA Mobilization And Demobilization For Reclamation, Pulverizing And Blending Crew	1,564.95	
 32 01 16 74-0019 Rejuvenate, Respread Asphalt Pavement <small>(32 01 16 74)</small>		
<i>Note: Includes direct loading into truck.</i>		
32 01 16 74-0020 SY Removal, Rejuvenation, And Respreading Of Asphalt Grindings To 1/2" Deep.....	11.17	
32 01 16 74-0021 SY Removal, Rejuvenation, And Respreading Of Asphalt Grindings To 1/2" Deep, Previously Sealed Cold Tar	13.09	
32 01 16 74-0022 TON Removal, Rejuvenation, And Respreading Of Asphalt Grindings	176.57	
 32 01 17 Flexible Paving Repair <small>(32 01)</small>		
<i>See CSI section 32 12 16 00-0000 for large area resurfacing.</i>		
32 01 17 61 Sealing Cracks in Asphalt Paving <small>(32 01 17)</small>		
<i>Note: Includes removing loose materials and cleaning.</i>		
32 01 17 61-0001 Hot-Applied, Pourable, Self-Adhesive Asphalt Binder Compounded With Standard Weight Aggregate Longitudinal Crack And Sealing Repair <small>(32 01 17 61)</small>		
<i>Note: Includes removing loose materials and cleaning.</i>		
32 01 17 61-0002 LF Up To 200 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.47	
<i>Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.</i>		
<i>For 3/4" x 1/2" Fill, Add</i>	0.40	
<i>For 1" x 1/2" Fill, Add</i>	0.75	
<i>For Backer Rod, Add</i>	0.83	
32 01 17 61-0003 LF >200 To 500 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	1.21	
<i>Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.</i>		
<i>For 3/4" x 1/2" Fill, Add</i>	0.34	
<i>For 1" x 1/2" Fill, Add</i>	0.63	
<i>For Backer Rod, Add</i>	0.76	
32 01 17 61-0004 LF >500 To 2,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	0.95	
<i>Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.</i>		
<i>For 3/4" x 1/2" Fill, Add</i>	0.27	
<i>For 1" x 1/2" Fill, Add</i>	0.51	
<i>For Backer Rod, Add</i>	0.68	
32 01 17 61-0005 LF >2,000 To 5,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	0.82	
<i>Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.</i>		
<i>For 3/4" x 1/2" Fill, Add</i>	0.24	
<i>For 1" x 1/2" Fill, Add</i>	0.45	
<i>For Backer Rod, Add</i>	0.64	
32 01 17 61-0006 LF >5,000 To 10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	0.73	
<i>Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.</i>		
<i>For 3/4" x 1/2" Fill, Add</i>	0.21	
<i>For 1" x 1/2" Fill, Add</i>	0.39	
<i>For Backer Rod, Add</i>	0.60	
32 01 17 61-0007 LF >10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	0.68	
<i>Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.</i>		
<i>For 3/4" x 1/2" Fill, Add</i>	0.19	
<i>For 1" x 1/2" Fill, Add</i>	0.37	
<i>For Backer Rod, Add</i>	0.58	
32 01 17 61-0008 LF Up To 200 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler	2.65	
<i>For 3/8" x 1/4" Fill, Add</i>	0.59	
<i>For 1/2" x 1/4" Fill, Add</i>	1.08	
<i>For 1/2" x 1/2" Fill, Add</i>	2.52	
32 01 17 61-0009 LF >200 To 500 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	2.13	
<i>For 3/8" x 1/4" Fill, Add</i>	0.48	
<i>For 1/2" x 1/4" Fill, Add</i>	0.89	
<i>For 1/2" x 1/2" Fill, Add</i>	2.07	
32 01 17 61-0010 LF >500 To 2,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.65	
<i>For 3/8" x 1/4" Fill, Add</i>	0.38	
<i>For 1/2" x 1/4" Fill, Add</i>	0.71	
<i>For 1/2" x 1/2" Fill, Add</i>	1.67	
32 01 17 61-0011 LF >2,000 To 5,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler	1.44	
<i>For 3/8" x 1/4" Fill, Add</i>	0.34	
<i>For 1/2" x 1/4" Fill, Add</i>	0.62	
<i>For 1/2" x 1/2" Fill, Add</i>	1.49	
32 01 17 61-0012 LF >5,000 To 10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.31	
<i>For 3/8" x 1/4" Fill, Add</i>	0.31	
<i>For 1/2" x 1/4" Fill, Add</i>	0.56	
<i>For 1/2" x 1/2" Fill, Add</i>	1.33	
32 01 17 61-0013 LF >10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.21	
<i>For 3/8" x 1/4" Fill, Add</i>	0.28	
<i>For 1/2" x 1/4" Fill, Add</i>	0.51	
<i>For 1/2" x 1/2" Fill, Add</i>	1.21	
32 01 17 61-0014 LF For Routing And Cleaning Of Crack, Add Per 1/2" Depth	0.47	

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 17 Flexible Paving Repair**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 17 61-0015 LNMI Crack Seal/Filler Per Lane (10' to 12' Wide) Per Mile Note: This work shall consist of removal of loose matter from cracks with brooms and compressed air and sealing the crack with rubber or other elastomeric modified asphalt, ASTM D 1190, D 3405 or AASHTO M-173. The sealant shall be applied from the bottom of the crack up and the sealant material shall be sprinkled with dry sand to prevent pick-up by traffic.	3,325.13	
32 01 17 63 Flexible Pavement Repair (32 01 17)		
32 01 17 63-0001 Temporary Pot Hole Repair (32 01 17 63) Note: Includes removal of loose material and moisture, bonding agent, compaction, safety cones and hauling up to 15 miles. Excludes signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.		
32 01 17 63-0002 EA Temporary Pot Hole Repairs With Cold Mix Modified, Up To 3 Tons.....	1,539.34	
32 01 17 63-0003 TON Temporary Pot Hole Repairs With Cold Mix Modified Note: Use for each ton over 3 tons.	466.71	
32 01 17 63-0004 EA Temporary Pot Hole Repairs With Cold Mix, Up To 3 Tons.....	1,466.72	
32 01 17 63-0005 TON Temporary Pot Hole Repairs With Cold Mix..... Note: Use for each ton over 3 tons.	442.50	
32 01 17 63-0006 EA Temporary Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons.....	1,430.41	
32 01 17 63-0007 TON Temporary Pot Hole Repairs With Hot Mix Modified..... Note: Use for each ton over 3 tons.	430.40	
32 01 17 63-0008 EA Temporary Pot Hole Repairs With Hot Mix, Up To 3 Tons.....	1,394.10	
32 01 17 63-0009 TON Temporary Pot Hole Repairs With Hot Mix..... Note: Use for each ton over 3 tons.	418.30	
32 01 17 63-0010 Permanent Pot Hole Repair (32 01 17 63) Note: Includes removal of loose material and moisture, saw cutting, chipping, squaring off, bonding agent, compaction and hauling up to 15 miles Tasks do not include signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.		
32 01 17 63-0011 EA Permanent Pot Hole Repairs With Cold Mix, Up To 3 Tons.....	1,643.87	
32 01 17 63-0012 TON Permanent Pot Hole Repairs With Cold Mix Note: Use for each ton over 3 tons.	534.57	
32 01 17 63-0013 EA Permanent Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons.....	1,607.56	
32 01 17 63-0014 TON Permanent Pot Hole Repairs With Hot Mix Modified..... Note: Use for each ton over 3 tons.	522.47	
32 01 17 63-0015 EA Permanent Pot Hole Repairs With Hot Mix, Up To 3 Tons.....	1,571.25	
32 01 17 63-0016 TON Permanent Pot Hole Repairs With Hot Mix..... Note: Use for each ton over 3 tons.	510.37	
32 01 17 63-0017 Asphalt Placement For Small Repairs (32 01 17 63) Note: This section is used for placing up to 100 tons of asphalt after a small area of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc. Includes mobilization of paving equipment such as a roller, placing the asphalt, compaction and hauling up to 15 miles. Excludes saw cutting, demolition of existing pavement, and new subbase material. Use approximately 0.055 tons per square yard per inch of depth. See CSI section 02 41 19 13-0057 for saw cutting. 32 12 16 13-0000 for areas requiring more than 100 tons.		
32 01 17 63-0018 EA Asphalt Placement For Small Repair Areas, Cold Mix Modified, Up To 3 Tons..... Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	2,131.36	
32 01 17 63-0019 TON Asphalt Placement For Small Repair Areas, Cold Mix Modified..... Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	281.79	
32 01 17 63-0020 EA Asphalt Placement For Small Repair Areas, Cold Mix, Up To 3 Tons..... Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	2,058.74	
32 01 17 63-0021 TON Asphalt Placement For Small Repair Areas, Cold Mix..... Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	257.58	
32 01 17 63-0022 EA Asphalt Placement For Small Repair Areas, Hot Mix Modified, Up To 3 Tons..... Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	2,022.43	
32 01 17 63-0023 TON Asphalt Placement For Small Repair Areas, Hot Mix Modified..... Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	245.48	
32 01 17 63-0024 EA Asphalt Placement For Small Repair Areas, Hot Mix, Up To 3 Tons..... Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	1,986.12	
32 01 17 63-0025 TON Asphalt Placement For Small Repair Areas, Hot Mix..... Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	233.38	
32 01 17 63-0026 Grind Asphalt (32 01 17 63)		
32 01 17 63-0027 SY Grinding Asphalt To Level Bump Or Raised Area.....	18.89	
32 01 26 Rigid Paving Rehabilitation (32 01)		
32 01 26 71 Grooving of Concrete Paving (32 01 26)		
32 01 26 71-0001 Roadway Grooving (32 01 26 71)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 26 71-0002 EA First 500 SY Of Pavement Grooving, Concrete, Longitudinal	3,568.08	
32 01 26 71-0003 SY Each SY Over First 500 SY Of Pavement Grooving, Concrete, Longitudinal	3.31	
32 01 26 71-0004 EA First 500 SY Of Pavement Grooving, Concrete, Traverse	3,974.97	
32 01 26 71-0005 SY Each SY Over First 500 SY Of Pavement Grooving, Concrete, Traverse	4.30	
32 01 26 71-0006 Rumble Strips (32 01 26 71)		
32 01 26 71-0007 EA First 5280 LF Of MIARDS, Rumble Strips, Asphalt	3,866.21	
32 01 26 71-0008 LF Each LF Over First 5280 LF Of MIARDS, Rumble Strips, Asphalt	0.70	
32 01 26 71-0009 EA First 2000 LF Of MIARDS, Rumble Strips, Concrete	4,308.53	
32 01 26 71-0010 LF Each LF Over First 2000 LF Of MIARDS, Rumble Strips, Concrete	0.79	
32 01 26 73 Milling Of Concrete Paving (32 01 26)		
32 01 26 73-0001 Removal Of Concrete (32 01 26 73)		
Note: Includes direct loading into truck.		
32 01 26 73-0002 Production Milling Of Roads And Parking Areas (32 01 26 73-0001)		
Note: For removal of entire lanes of roads or parking areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0050 for hauling.		
32 01 26 73-0003 SY Production Milling Of Concrete Per Inch	6.18	
32 01 26 73-0004 Limited Production Milling (32 01 26 73-0001)		
Note: For cross sections of roadways, trenching, partial shoulders, and other small or narrow areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0050 for hauling.		
32 01 26 73-0005 SY Limited Production Milling Of Concrete Per Inch	38.81	
32 01 90 Operation and Maintenance of Planting (32 01)		
Note: These tasks are to be used as requested by the owner to maintain existing conditions.		
32 01 90 13 Fertilizing (32 01 90)		
32 01 90 13-0001 MSF Fertilizer - 2 LB Of Nitrogen/MSF (Granular)	12.93	
32 01 90 13-0002 MSF Fertilizer - 2 LB Of Nitrogen/MSF (Liquid)	9.58	
32 01 90 13-0003 MSF Fertilizer - 0.5 LB Of Nitrogen/MSF (Granular)	10.45	
32 01 90 13-0004 MSF Fertilizer - 0.5 LB Of Nitrogen/MSF (Liquid)	8.62	
32 01 90 19 Mowing (32 01 90)		
32 01 90 19-0001 ACR Vegetation Cutting By Bush Hog	178.99	
Note: Includes normal debris removal, cutting, and trimming.		
For <1 Acre, Add		44.75
32 01 90 19-0002 MSF Mowing Vegetation With Riding Mower, >20,000 To 45,000 SF	6.20	
32 01 90 19-0003 MSF Mowing Vegetation With Riding Mower, >45,000 SF	4.81	
32 01 90 19-0004 MSF Clear Vegetation With Weed Trimmer, Up To 1,000 SF	22.06	
For Work On Slopes >2:1, Add		5.52
For Clearing Light Brush, Add		3.31
32 01 90 19-0005 MSF Clear Vegetation With Weed Trimmer, >1,000 SF	18.53	
For Work On Slopes >2:1, Add		4.63
For Clearing Light Brush, Add		2.78
32 01 90 19-0006 MSF Blow Or Vacuum Dispersed Non-Native Seed After Bulk Of Biomass Removed	18.28	
32 01 90 23 Pruning (32 01 90)		
32 01 90 23-0001 Tree Pruning (32 01 90 23)		
Note: Types of pruning for mature trees (these standards are established by the ISA - International Society of Arboriculture). Includes loading onto truck or dumpster.		
32 01 90 23-0002 Tree Pruning; Crown Cleaning (32 01 90 23-0001)		
Note: Crown cleaning or cleaning out is the removal of dead, dying, diseased, crowded, weakly attached, and low-vigor branches and waterspouts from a tree crown.		
32 01 90 23-0003 EA 1-1/2" Caliper, Tree Pruning (Crown Cleaning), By Hand	27.06	
32 01 90 23-0004 EA 2" Caliper, Tree Pruning (Crown Cleaning), By Hand	30.93	
32 01 90 23-0005 EA 2-1/2" Caliper, Tree Pruning (Crown Cleaning), By Hand	34.79	
32 01 90 23-0006 EA 3" Caliper, Tree Pruning (Crown Cleaning), By Hand	38.66	
32 01 90 23-0007 EA 4" Caliper, Tree Pruning (Crown Cleaning), By Hand	58.75	
32 01 90 23-0008 EA 4" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	99.23	
32 01 90 23-0009 EA 6" Caliper, Tree Pruning (Crown Cleaning), By Hand	102.81	
32 01 90 23-0010 EA 6" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	188.99	
32 01 90 23-0011 EA 9" Caliper, Tree Pruning (Crown Cleaning), By Hand	164.64	
32 01 90 23-0012 EA 9" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	302.31	
32 01 90 23-0013 EA 12" Caliper, Tree Pruning (Crown Cleaning), By Hand	190.24	
32 01 90 23-0014 EA 12" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	349.60	
32 01 90 23-0015 EA 18" Caliper, Tree Pruning (Crown Cleaning), By Hand	221.15	
32 01 90 23-0016 EA 18" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	406.30	
32 01 90 23-0017 EA 24" Caliper, Tree Pruning (Crown Cleaning), By Hand	269.20	
32 01 90 23-0018 EA 24" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	491.42	
32 01 90 23-0019 EA 30" Caliper, Tree Pruning (Crown Cleaning), By Hand	334.40	

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 90 Operation and Maintenance of Planting**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 01 90 23-0020	EA	30" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	619.34
32 01 90 23-0021	EA	36" Caliper, Tree Pruning (Crown Cleaning), By Hand	458.02
32 01 90 23-0022	EA	36" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	839.39
32 01 90 23-0023	EA	48" Caliper, Tree Pruning (Crown Cleaning), By Hand	726.63
32 01 90 23-0024	EA	48" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	1,349.89

32 01 90 23-0025**Tree Pruning; Crown Thinning** (32 01 90 23-0001)

Note: Crown thinning includes crown cleaning and the selective removal of branches to increase light penetration and air movement into the crown. Increased light and air stimulates and maintains interior foliage, which in turn improves branch taper and strength. Thinning reduces the wind-sail effect of the crown and the weight of the heavy limbs. Thinning the crown can emphasize the structural beauty of the trunk and branches as well as improve the growth of plants beneath the tree by increasing light penetration. When thinning the crown of mature trees, seldom should more than one-third of the live foliage be removed. At least one-half of the foliage should be on branches that arise in the lower two-thirds of the trees. Likewise, when thinning laterals from a limb, an effort should be made to retain inner lateral branches and leave the same distribution of foliage along the branch. Trees and branches so pruned will have stress more evenly distributed throughout the tree or along a branch.

32 01 90 23-0026	EA	1-1/2" Caliper, Tree Pruning (Crown Thinning), By Hand	33.17
32 01 90 23-0027	EA	2" Caliper, Tree Pruning (Crown Thinning), By Hand	37.89
32 01 90 23-0028	EA	2-1/2" Caliper, Tree Pruning (Crown Thinning), By Hand	42.60
32 01 90 23-0029	EA	3" Caliper, Tree Pruning (Crown Thinning), By Hand	47.39
32 01 90 23-0030	EA	4" Caliper, Tree Pruning (Crown Thinning), By Hand	71.98
32 01 90 23-0031	EA	4" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	121.52
32 01 90 23-0032	EA	6" Caliper, Tree Pruning (Crown Thinning), By Hand	125.94
32 01 90 23-0033	EA	6" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	231.51
32 01 90 23-0034	EA	9" Caliper, Tree Pruning (Crown Thinning), By Hand	201.71
32 01 90 23-0035	EA	9" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	370.32
32 01 90 23-0036	EA	12" Caliper, Tree Pruning (Crown Thinning), By Hand	233.02
32 01 90 23-0037	EA	12" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	428.24
32 01 90 23-0038	EA	18" Caliper, Tree Pruning (Crown Thinning), By Hand	270.91
32 01 90 23-0039	EA	18" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	497.69
32 01 90 23-0040	EA	24" Caliper, Tree Pruning (Crown Thinning), By Hand	329.73
32 01 90 23-0041	EA	24" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	602.01
32 01 90 23-0042	EA	30" Caliper, Tree Pruning (Crown Thinning), By Hand	409.61
32 01 90 23-0043	EA	30" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	758.68
32 01 90 23-0044	EA	36" Caliper, Tree Pruning (Crown Thinning), By Hand	561.05
32 01 90 23-0045	EA	36" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	1,028.27
32 01 90 23-0046	EA	48" Caliper, Tree Pruning (Crown Thinning), By Hand	890.10
32 01 90 23-0047	EA	48" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	1,653.62

32 01 90 23-0048**Tree Pruning; Crown Raising** (32 01 90 23-0001)

Note: Crown raising removes the lower branches of a tree in order to provide clearance for buildings, vehicles, pedestrians, and vistas. It is important that a tree have at least one-half of its foliage on branches that originate in the lower two-thirds of its trunk to ensure a well-formed, tapered structure and to uniformly distribute stress within a tree. When pruning for view, it is preferable to develop "windows" through the foliage of the tree, rather than to severely raise or reduce the crown.

32 01 90 23-0049	EA	1-1/2" Caliper, Tree Pruning (Crown Raising), By Hand	36.57
32 01 90 23-0050	EA	2" Caliper, Tree Pruning (Crown Raising), By Hand	41.75
32 01 90 23-0051	EA	2-1/2" Caliper, Tree Pruning (Crown Raising), By Hand	47.01
32 01 90 23-0052	EA	3" Caliper, Tree Pruning (Crown Raising), By Hand	52.19
32 01 90 23-0053	EA	4" Caliper, Tree Pruning (Crown Raising), By Hand	79.33
32 01 90 23-0054	EA	4" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	133.99
32 01 90 23-0055	EA	6" Caliper, Tree Pruning (Crown Raising), By Hand	138.77
32 01 90 23-0056	EA	6" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	255.13
32 01 90 23-0057	EA	9" Caliper, Tree Pruning (Crown Raising), By Hand	222.27
32 01 90 23-0058	EA	9" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	408.11
32 01 90 23-0059	EA	12" Caliper, Tree Pruning (Crown Raising), By Hand	256.83
32 01 90 23-0060	EA	12" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	471.98
32 01 90 23-0061	EA	18" Caliper, Tree Pruning (Crown Raising), By Hand	298.58
32 01 90 23-0062	EA	18" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	548.53
32 01 90 23-0063	EA	24" Caliper, Tree Pruning (Crown Raising), By Hand	363.45
32 01 90 23-0064	EA	24" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	663.43
32 01 90 23-0065	EA	30" Caliper, Tree Pruning (Crown Raising), By Hand	451.43
32 01 90 23-0066	EA	30" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	836.07
32 01 90 23-0067	EA	36" Caliper, Tree Pruning (Crown Raising), By Hand	618.35
32 01 90 23-0068	EA	36" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	1,133.16
32 01 90 23-0069	EA	48" Caliper, Tree Pruning (Crown Raising), By Hand	980.95
32 01 90 23-0070	EA	48" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	1,822.37

32 01 90 23-0071**Tree Pruning; Crown Reduction** (32 01 90 23-0001)

Note: Crown reduction is used to reduce the height and/or spread of a tree. Thinning cuts are most effective in maintaining the structural integrity and natural form of a tree and in delaying the time when it will need to be pruned again. The lateral to which a branch or trunk is cut should be at least one-half the diameter of the cut being made.

32 01 90 23-0072	EA	1-1/2" Caliper, Tree Pruning (Crown Reduction), By Hand	39.28
32 01 90 23-0073	EA	2" Caliper, Tree Pruning (Crown Reduction), By Hand	44.84
32 01 90 23-0074	EA	2-1/2" Caliper, Tree Pruning (Crown Reduction), By Hand	50.49
32 01 90 23-0075	EA	3" Caliper, Tree Pruning (Crown Reduction), By Hand	56.05
32 01 90 23-0076	EA	4" Caliper, Tree Pruning (Crown Reduction), By Hand	85.20
32 01 90 23-0077	EA	4" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	143.91



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 90 23-0078 EA 6" Caliper, Tree Pruning (Crown Reduction), By Hand	149.06	
32 01 90 23-0079 EA 6" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	274.02	
32 01 90 23-0080 EA 9" Caliper, Tree Pruning (Crown Reduction), By Hand	238.74	
32 01 90 23-0081 EA 9" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	438.35	
32 01 90 23-0082 EA 12" Caliper, Tree Pruning (Crown Reduction), By Hand	275.85	
32 01 90 23-0083 EA 12" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	506.95	
32 01 90 23-0084 EA 18" Caliper, Tree Pruning (Crown Reduction), By Hand	320.69	
32 01 90 23-0085 EA 18" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	589.15	
32 01 90 23-0086 EA 24" Caliper, Tree Pruning (Crown Reduction), By Hand	390.35	
32 01 90 23-0087 EA 24" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	712.57	
32 01 90 23-0088 EA 30" Caliper, Tree Pruning (Crown Reduction), By Hand	484.91	
32 01 90 23-0089 EA 30" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	898.06	
32 01 90 23-0090 EA 36" Caliper, Tree Pruning (Crown Reduction), By Hand	664.11	
32 01 90 23-0091 EA 36" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	1,217.16	
32 01 90 23-0092 EA 48" Caliper, Tree Pruning (Crown Reduction), By Hand	1,053.62	
32 01 90 23-0093 EA 48" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	1,957.32	

32 01 90 23-0094 Tree Pruning; Crown Restoration (32 01 90 23-0001)

Note: Crown restoration can improve the structure and appearance of trees that have been topped or severely pruned using heading cuts. One to three sprouts on main branch stubs should be selected to reform a more natural appearing crown. Selected vigorous sprouts may need to be thinned to a lateral, or even headed, to control length growth in order to ensure adequate attachment for the size of the sprout. Restoration may require several pruning's over a number of years.

32 01 90 23-0095 EA 1-1/2" Caliper, Tree Pruning (Crown Restoration), By Hand	45.07	
32 01 90 23-0096 EA 2" Caliper, Tree Pruning (Crown Restoration), By Hand	51.57	
32 01 90 23-0097 EA 2-1/2" Caliper, Tree Pruning (Crown Restoration), By Hand	57.98	
32 01 90 23-0098 EA 3" Caliper, Tree Pruning (Crown Restoration), By Hand	64.40	
32 01 90 23-0099 EA 4" Caliper, Tree Pruning (Crown Restoration), By Hand	97.88	
32 01 90 23-0100 EA 4" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	165.36	
32 01 90 23-0101 EA 6" Caliper, Tree Pruning (Crown Restoration), By Hand	171.33	
32 01 90 23-0102 EA 6" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	314.94	
32 01 90 23-0103 EA 9" Caliper, Tree Pruning (Crown Restoration), By Hand	274.39	
32 01 90 23-0104 EA 9" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	503.83	
32 01 90 23-0105 EA 12" Caliper, Tree Pruning (Crown Restoration), By Hand	317.06	
32 01 90 23-0106 EA 12" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	582.64	
32 01 90 23-0107 EA 18" Caliper, Tree Pruning (Crown Restoration), By Hand	368.55	
32 01 90 23-0108 EA 18" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	677.13	
32 01 90 23-0109 EA 24" Caliper, Tree Pruning (Crown Restoration), By Hand	448.65	
32 01 90 23-0110 EA 24" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	819.06	
32 01 90 23-0111 EA 30" Caliper, Tree Pruning (Crown Restoration), By Hand	557.35	
32 01 90 23-0112 EA 30" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	1,032.24	
32 01 90 23-0113 EA 36" Caliper, Tree Pruning (Crown Restoration), By Hand	763.39	
32 01 90 23-0114 EA 36" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	1,399.05	
32 01 90 23-0115 EA 48" Caliper, Tree Pruning (Crown Restoration), By Hand	1,211.03	
32 01 90 23-0116 EA 48" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	2,249.86	

32 01 90 23-0117 Palm Tree Pruning (32 01 90 23)

32 01 90 23-0118 EA Trim Mexican Palm Tree	81.97	
32 01 90 23-0119 EA Trim Date Palm Tree	184.96	
32 01 90 23-0120 LF Skin Palm Tree	21.02	
32 01 90 23-0121 EA Trim And Skin Palm Tree, Up To 30' Height	80.32	
32 01 90 23-0122 EA Trim And Skin Palm Tree, >30' To 60' Height	99.22	
32 01 90 23-0123 EA Trim And Skin Palm Tree, >60' To 80' Height	111.02	

32 01 90 23-0124 Shrub Pruning (32 01 90 23)

32 01 90 23-0125 MSF Shrub Pruning, Prune, Shrub Bed	88.10	
32 01 90 23-0126 EA Shrub Pruning, Prune, Shrub Under 3' Height	3.09	
32 01 90 23-0127 EA Shrub Pruning, Prune, Shrub 4' Height	6.96	
32 01 90 23-0128 EA Shrub Pruning, Prune, Shrub Over 6'	12.37	
32 01 90 23-0129 EA Shrub Pruning, Prune Trees From Ground	30.93	
32 01 90 23-0130 EA Shrub Pruning, Prune Trees From Ground, High Work	77.31	

32 01 90 23-0131 Root Pruning (32 01 90 23)

Note: Cut roots cleanly after excavation with clean, sharp tools, to promote callus formation and wound closure. Wounds to be dressed with a tree rooting hormone compound. Mix soil improvements (e.g., peat moss) with fill soil to promote new root growth. Backfill the excavation and water the soil around the roots to avoid leaving air pockets.

32 01 90 23-0132 EA Root Pruning, One Side Of Up To 1-1/2" Caliper Tree	15.46	
32 01 90 23-0133 EA Root Pruning, One Side Of 2" Caliper Tree	19.32	
32 01 90 23-0134 EA Root Pruning, One Side Of 2-1/2" Caliper Tree	23.20	
32 01 90 23-0135 EA Root Pruning, One Side Of 3" Caliper Tree	30.93	
32 01 90 23-0136 EA Root Pruning, One Side Of 4" Caliper Tree	46.39	
32 01 90 23-0137 EA Root Pruning, One Side Of >4" To 6" Caliper Tree	57.98	
32 01 90 23-0138 EA Root Pruning, One Side Of >6" To 9" Caliper Tree	81.18	
32 01 90 23-0139 EA Root Pruning, One Side Of >9" To 12" Caliper Tree	92.77	
32 01 90 23-0140 EA Root Pruning, One Side Of >12" To 18" Caliper Tree	108.24	
32 01 90 23-0141 EA Root Pruning, One Side Of >18" To 24" Caliper Tree	135.29	

32	Exterior Improvements
32 01	Operation and Maintenance of Exterior Improvements
32 01 90	Operation and Maintenance of Planting



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 01 90 23-0142	EA	Root Pruning, One Side Of >24" To 30" Caliper Tree	166.22
32 01 90 23-0143	EA	Root Pruning, One Side Of >30" To 36" Caliper Tree	193.28
32 01 90 23-0144	EA	Root Pruning, One Side Of >36" To 42" Caliper Tree	212.61
32 01 90 23-0145	EA	Root Pruning, One Side Of >42" To 48" Caliper Tree	231.94

32 01 90 26 Watering (32 01 90)

Note: Includes delivered water. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant.

32 01 90 26-0001 Watering Lawns, Plants And Trees (32 01 90 26)

Note: Includes delivered water and watering truck. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant. These tasks are to be used as requested by the owner for extended watering period for lawns, plants and trees.

32 01 90 26-0002	MSF	Watering Sod/Grass, Per Inch Of Water	39.23
32 01 90 26-0003	CSF	Watering Groundcover	6.11
32 01 90 26-0004	CSF	Watering Annuals And Perennials	10.93
32 01 90 26-0005	EA	Watering Trees, 1-1/2" To 5" Diameter By Hand	21.31
32 01 90 26-0006	EA	Watering Trees, 6" To 12" Diameter By Hand	28.01
32 01 90 26-0007	EA	Watering Trees, 13" To 18" Diameter By Hand	34.71
32 01 90 26-0008	EA	Watering Trees, >18" Diameter By Hand	42.72
32 01 90 26-0009	EA	Watering Shrub Or Bush By Hand	10.71

32 01 90 36 Weed and Brush Control (32 01 90)

32 01 90 36-0001 Herbicide, Push Or Hand Spreader Applied (32 01 90 36)

32 01 90 36-0002	MSF	Non-Selective Post Emergent Weed Herbicide (70.4 oz/acre or 1.62 oz/MSF)	7.14
		<i>For >45 To 90, Deduct</i>	-0.39
		<i>For >90 To 225, Deduct</i>	-1.10
		<i>For >225 To 870, Deduct</i>	-1.81
		<i>For >870, Deduct</i>	-2.20
32 01 90 36-0003	MSF	Non-Selective Post Emergent Woody Brush And Tree Herbicide (128 oz/acre or 2.94 oz/MSF)	7.60
		<i>For >45 To 90, Deduct</i>	-0.43
		<i>For >90 To 225, Deduct</i>	-1.19
		<i>For >225 To 870, Deduct</i>	-1.95
		<i>For >870, Deduct</i>	-2.38
32 01 90 36-0004	MSF	Selective Weed Herbicide (56 oz/Acre or 1.28 oz/MSF)	7.57
		Note: Includes pre and post emergent.	
		<i>For >45 To 90, Deduct</i>	-0.43
		<i>For >90 To 225, Deduct</i>	-1.19
		<i>For >225 To 870, Deduct</i>	-1.94
		<i>For >870, Deduct</i>	-2.37
32 01 90 36-0005	MSF	Selective Woody Brush And Tree Herbicide (72 oz/acre or 1.65 oz/MSF)	7.85
		Note: Includes pre and post emergents.	
		<i>For >45 To 90, Deduct</i>	-0.46
		<i>For >90 To 225, Deduct</i>	-1.24
		<i>For >225 To 870, Deduct</i>	-2.03
		<i>For >870, Deduct</i>	-2.48

32 01 90 39 Pesticides (32 01 90)

32 01 90 39-0001	MSF	Pesticide - Surface Eating	9.94
32 01 90 39-0002	MSF	Pesticide - Subsurface Eating	9.98
32 01 90 39-0003	MSF	Pesticide - Fungicide Application	10.71

32 01 90 43 Weed and Cultivate Beds (32 01 90)

32 01 90 43-0001	MSF	Weed Mulched Bed	37.70
32 01 90 43-0002	MSF	Weed Unmulched Bed	107.71
32 01 90 43-0003	MSF	Cultivate Bed	57.99

32 01 90 46 Hedge Trimming (32 01 90)

32 01 90 46-0001	LF	Trim 0-5' High Hedge, 0-3' Wide	5.09
32 01 90 46-0002	LF	Trim 0-5' High Hedge, 4-6' Wide	7.63
32 01 90 46-0003	LF	Trim 5-10' High Hedge, 0-3' Wide	11.56
32 01 90 46-0004	LF	Trim 5-10' High Hedge, 4-6' Wide	11.77

32 01 90 53 Plant Growth Regulator Application (32 01 90)

32 01 90 53-0001	EA	Plant Growth Regulator Application	5.50
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32 10 Bases, Ballasts, and Paving (32)

32 11 Base Courses (32 10)

32 11 16 Subbase Courses (32 11)

32 11 16 16 Aggregate Subbase Courses (32 11 16)



Exterior Improvements		32
Bases, Ballasts, and Paving		32 10
Base Courses		32 11

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 11 16 16-0001 Base And Subbase Courses For Roadways And Parking Areas (32 11 16 16)
 Note: Includes 3/4" To 1-1/2" aggregate material, hauling up to 15 miles, dumping, spreading, grading, compacting and watering. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

32 11 16 16-0002 Base And Subbase Courses By The CY (32 11 16 16-0001)

32 11 16 16-0003	CY	Class II Graded Crushed Aggregate Roadway Base Course.....	79.91	
32 11 16 16-0004	CY	Class III Graded Crushed Aggregate Roadway Base Course.....	77.31	
32 11 16 16-0005	CY	Recycled Base Course.....	100.78	

32 11 16 16-0006 Class II Base Courses By The SY (32 11 16 16-0001)

32 11 16 16-0007	SY	2" Class II Graded Crushed Aggregate Base Course.....	4.37	
		<i>For Up To 500, Add</i>	1.15	
		<i>For >500 To 1,000, Add</i>	0.44	
		<i>For >5,000 To 10,000, Deduct</i>	-0.17	
		<i>For >10,000, Deduct</i>	-0.28	
32 11 16 16-0008	SY	4" Class II Crushed Aggregate Base Course.....	8.76	
		<i>For Up To 500, Add</i>	2.31	
		<i>For >500 To 1,000, Add</i>	0.88	
		<i>For >5,000 To 10,000, Deduct</i>	-0.33	
		<i>For >10,000, Deduct</i>	-0.57	
32 11 16 16-0009	SY	6" Class II Crushed Aggregate Base Course.....	13.13	
		<i>For Up To 500, Add</i>	3.46	
		<i>For >500 To 1,000, Add</i>	1.31	
		<i>For >5,000 To 10,000, Deduct</i>	-0.50	
		<i>For >10,000, Deduct</i>	-0.85	
32 11 16 16-0010	SY	9" Class II Crushed Aggregate Base Course.....	19.70	
		<i>For Up To 500, Add</i>	5.20	
		<i>For >500 To 1,000, Add</i>	1.97	
		<i>For >5,000 To 10,000, Deduct</i>	-0.75	
		<i>For >10,000, Deduct</i>	-1.28	
32 11 16 16-0011	SY	12" Class II Crushed Aggregate Base Course.....	26.28	
		<i>For Up To 500, Add</i>	6.93	
		<i>For >500 To 1,000, Add</i>	2.63	
		<i>For >5,000 To 10,000, Deduct</i>	-1.00	
		<i>For >10,000, Deduct</i>	-1.71	

32 11 23 Aggregate Base Courses (32 11)

32 11 23 16 Aggregate Base Courses (32 11 23)

32 11 23 16-0001 Base Courses For Sidewalk (Asphalt Or Concrete) (32 11 23 16)
 Note: Includes material, hauling up to 15 miles, placement, spreading, grading, and compaction. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

32 11 23 16-0002	SF	2" Crushed Aggregate Base Course For Sidewalks.....	0.53	
		<i>For Up To 1,000, Add</i>	0.15	
		<i>For >1,000 To 2,500, Add</i>	0.05	
32 11 23 16-0003	SF	3" Crushed Aggregate Base Course For Sidewalks.....	0.76	
		<i>For Up To 1,000, Add</i>	0.21	
		<i>For >1,000 To 2,500, Add</i>	0.08	
32 11 23 16-0004	SF	4" Crushed Aggregate Base Course For Sidewalks.....	0.99	
		<i>For Up To 1,000, Add</i>	0.28	
		<i>For >1,000 To 2,500, Add</i>	0.10	
32 11 23 16-0005	SF	5" Crushed Aggregate Base Course For Sidewalks.....	1.27	
		<i>For Up To 1,000, Add</i>	0.36	
		<i>For >1,000 To 2,500, Add</i>	0.13	
32 11 23 16-0006	SF	6" Crushed Aggregate Base Course For Sidewalks.....	1.55	
		<i>For Up To 1,000, Add</i>	0.43	
		<i>For >1,000 To 2,500, Add</i>	0.16	
32 11 23 16-0007	SF	7" Crushed Aggregate Base Course For Sidewalks.....	1.80	
		<i>For Up To 1,000, Add</i>	0.50	
		<i>For >1,000 To 2,500, Add</i>	0.18	
32 11 23 16-0008	SF	8" Crushed Aggregate Base Course For Sidewalks.....	2.04	
		<i>For Up To 1,000, Add</i>	0.57	
		<i>For >1,000 To 2,500, Add</i>	0.20	

32 11 26 Asphaltic Base Courses (32 11)

32 11 26 19 Bituminous-Stabilized Base Courses (32 11 26)

32 11 26 19-0001 Bituminous-Stabilized Base Courses (32 11 26 19)

32 11 26 19-0002	CY	Bituminous Stabilized Base Course.....	101.06	
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Note: 3/4" ASTM C33.

32 12 Flexible Paving (32 10)

32 12 13 Preparatory Coats (32 12)

32 12 13 13 Tack Coats (32 12 13)

32 12 13 13-0001	TON	Tack Coat (Monterey County).....	1,301.62	
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32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**32 12 13 19 Prime Coats** (32 12 13)

32 12 13 19-0001	SY	Surface Prime Coat, 0.26 Gallon/SY.....	1.44
		<i>For Up To 150, Add</i>	0.32
		<i>For >150 To 300, Add</i>	0.14
		<i>For >300 To 500, Add</i>	0.07
		<i>For >3,500 To 5,000, Deduct</i>	-0.04
		<i>For >5,000, Deduct</i>	-0.10
32 12 13 19-0002	SY	Surface Prime Coat, 0.28 Gallon/SY.....	1.52
		<i>For Up To 150, Add</i>	0.34
		<i>For >150 To 300, Add</i>	0.15
		<i>For >300 To 500, Add</i>	0.08
		<i>For >3,500 To 5,000, Deduct</i>	-0.04
		<i>For >5,000, Deduct</i>	-0.10
32 12 13 19-0003	SY	Surface Prime Coat, 0.30 Gallon/SY.....	1.60
		<i>For Up To 150, Add</i>	0.36
		<i>For >150 To 300, Add</i>	0.16
		<i>For >300 To 500, Add</i>	0.08
		<i>For >3,500 To 5,000, Deduct</i>	-0.04
		<i>For >5,000, Deduct</i>	-0.11

32 12 16 Asphalt Paving (32 12)**32 12 16 13 Plant-Mix Asphalt Paving** (32 12 16)

Note: Includes delivery up to 15 miles, placement, rolling, finishing and sweeping. Excludes base, tack or price coat, seal coats and roadway fabrics (where required). See CSI section 01 74 19 00-0050 for hauling greater than 15 miles, 32 11 00 00-0000 for base courses, 32 12 13 13-0000 for tack coats, 32 12 13 19-0000 for prime coats, 32 12 16 39-0000 for roadway fabrics, 32 12 36 00-0000 for seal coats.

32 12 16 13-0001 Intermediate Binder Courses, Hot Mix Asphalt (HMA) (32 12 16 13)

Note: Meets Caltrans requirements.

32 12 16 13-0002	TON	Bituminous Hot Mix Intermediate Course 3,954 LB/CY.....	139.88
		Note: Includes Type A and Type B with 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section.	
		<i>For PG64-10 Asphalt, Add</i>	16.68
		<i>For Up To 25, Add</i>	19.15
		<i>For >25 To 50, Add</i>	10.58
		<i>For >500 To 1,000, Deduct</i>	-5.97
		<i>For >1,000 To 2,500, Deduct</i>	-10.82
		<i>For >2,500 To 5,000, Deduct</i>	-16.79
		<i>For >5,000, Deduct</i>	-24.07
32 12 16 13-0003	SY	1" Thick Bituminous Hot Mix Binder Course.....	7.92
		Note: Includes placement, rolling, finishing and sweeping.	
		<i>For PG64-10 Asphalt, Add</i>	0.92
		<i>For Up To 1,000, Add</i>	1.12
		<i>For >1,000 To 2,000, Add</i>	0.62
		<i>For >10,000 To 20,000, Deduct</i>	-0.34
		<i>For >20,000 To 50,000, Deduct</i>	-0.62
		<i>For >50,000 To 100,000, Deduct</i>	-0.96
		<i>For >100,000, Deduct</i>	-1.38
32 12 16 13-0004	SY	1-1/2" Thick Bituminous Hot Mix Binder Course.....	11.76
		Note: Includes placement, rolling, finishing and sweeping.	
		<i>For PG64-10 Asphalt, Add</i>	1.37
		<i>For Up To 700, Add</i>	1.64
		<i>For >700 To 1,400, Add</i>	0.91
		<i>For >7,000 To 14,000, Deduct</i>	-0.51
		<i>For >14,000 To 32,000, Deduct</i>	-0.93
		<i>For >32,000 To 64,000, Deduct</i>	-1.44
		<i>For >64,000, Deduct</i>	-2.07
32 12 16 13-0005	SY	2" Thick Bituminous Hot Mix Binder Course.....	15.21
		Note: Includes placement, rolling, finishing and sweeping.	
		<i>For PG64-10 Asphalt, Add</i>	1.83
		<i>For Up To 500, Add</i>	2.06
		<i>For >500 To 1,000, Add</i>	1.14
		<i>For >5,000 To 10,000, Deduct</i>	-0.67
		<i>For >10,000 To 24,000, Deduct</i>	-1.22
		<i>For >24,000 To 48,000, Deduct</i>	-1.89
		<i>For >48,000, Deduct</i>	-2.71
32 12 16 13-0006	SY	2-1/2" Thick Bituminous Hot Mix Binder Course.....	19.20
		Note: Includes placement, rolling, finishing and sweeping.	
		<i>For PG64-10 Asphalt, Add</i>	2.29
		<i>For Up To 400, Add</i>	2.63
		<i>For >400 To 800, Add</i>	1.45
		<i>For >4,000 To 8,000, Deduct</i>	-0.84
		<i>For >8,000 To 20,000, Deduct</i>	-1.53
		<i>For >20,000 To 40,000, Deduct</i>	-2.37
		<i>For >40,000, Deduct</i>	-3.41
32 12 16 13-0007	SY	3" Thick Bituminous Hot Mix Binder Course.....	23.05
		Note: Includes placement, rolling, finishing and sweeping.	
		<i>For PG64-10 Asphalt, Add</i>	2.75
		<i>For Up To 340, Add</i>	3.16
		<i>For >340 To 680, Add</i>	2.66
		<i>For >3,400 To 6,800, Deduct</i>	-1.01
		<i>For >6,800 To 17,000, Deduct</i>	-1.84
		<i>For >17,000 To 34,000, Deduct</i>	-2.85
		<i>For >34,000, Deduct</i>	-4.09



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0008 SY 3-1/2" Thick Bituminous Hot Mix Binder Course .....26.88 Note: Includes placement, rolling, finishing and sweeping.		
<i>For PG64-10 Asphalt, Add</i>	3.21	
<i>For Up To 280, Add</i>	3.68	
<i>For >280 To 560, Add</i>	2.03	
<i>For >2,800 To 5,600, Deduct</i>	-1.18	
<i>For >5,600 To 14,000, Deduct</i>	-2.14	
<i>For >14,000 To 28,000, Deduct</i>	-3.32	
<i>For >28,000, Deduct</i>	-4.77	
32 12 16 13-0009 SY 4" Thick Bituminous Hot Mix Binder Course .....30.72 Note: Includes placement, rolling, finishing and sweeping.		
<i>For PG64-10 Asphalt, Add</i>	3.66	
<i>For Up To 250, Add</i>	4.21	
<i>For >250 To 500, Add</i>	2.32	
<i>For >2,500 To 5,000, Deduct</i>	-1.35	
<i>For >5,000 To 12,000, Deduct</i>	-2.45	
<i>For >12,000 To 24,000, Deduct</i>	-3.80	
<i>For >24,000, Deduct</i>	-5.45	
32 12 16 13-0010 SY 5" Thick Bituminous Hot Mix Binder Course .....38.41 Note: Includes placement, rolling, finishing and sweeping.		
<i>For PG64-10 Asphalt, Add</i>	4.58	
<i>For Up To 200, Add</i>	5.26	
<i>For >200 To 400, Add</i>	2.91	
<i>For >2,000 To 4,000, Deduct</i>	-1.68	
<i>For >4,000 To 10,000, Deduct</i>	-3.06	
<i>For >10,000 To 20,000, Deduct</i>	-4.75	
<i>For >20,000, Deduct</i>	-6.82	
32 12 16 13-0011 SY 6" Thick Bituminous Hot Mix Binder Course .....46.08 Note: Includes placement, rolling, finishing and sweeping.		
<i>For PG64-10 Asphalt, Add</i>	5.49	
<i>For Up To 160, Add</i>	6.31	
<i>For >160 To 320, Add</i>	3.49	
<i>For >1,600 To 3,200, Deduct</i>	-2.02	
<i>For >3,200 To 6,000, Deduct</i>	-3.67	
<i>For >8,000 To 16,000, Deduct</i>	-5.70	
<i>For >16,000, Deduct</i>	-8.18	
32 12 16 13-0012 Surface Courses, Hot Mix Asphalt (HMA) <small>(32 12 16 13)</small>		
Note: Meets Caltrans requirements.		
32 12 16 13-0013 TON Bituminous Hot Mix Surface Course 3954 LB/CY .....141.98 Note: Includes Type A and Type B with 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section.		
<i>For PG64-10 Asphalt, Add</i>	2.65	
<i>For Up To 25, Add</i>	20.65	
<i>For >25 To 50, Add</i>	11.58	
<i>For >500 To 1,000, Deduct</i>	-5.81	
<i>For >1,000 To 2,500, Deduct</i>	-10.57	
<i>For >2,500 To 5,000, Deduct</i>	-16.38	
<i>For >5,000, Deduct</i>	-23.51	
32 12 16 13-0014 TON Tire Rubber Modified Paving Asphalt (TRMAC) Surface Course (MAC-15TR).....157.50 Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping.		
<i>For Up To 25, Add</i>	23.28	
<i>For >25 To 50, Add</i>	13.10	
<i>For >500 To 1,000, Deduct</i>	-6.38	
<i>For Warm Mix Additive, Add</i>	7.52	
32 12 16 13-0015 TON Asphalt Rubberized Hot Mix (ARHM) Surface Course .....168.11 Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping.		
<i>For Up To 25, Add</i>	24.34	
<i>For >25 To 50, Add</i>	13.63	
<i>For >500 To 1,000, Deduct</i>	-6.91	
<i>For >1,000 To 2,500, Deduct</i>	-12.55	
<i>For >2,500 To 5,000, Deduct</i>	-19.46	
<i>For >5,000, Deduct</i>	-27.92	
<i>For Warm Mix Additive, Add</i>	8.21	
32 12 16 13-0016 SY 1" Thick Bituminous Hot Mix Surface Course.....7.72 Note: Includes placement, rolling, finishing and sweeping.		
<i>For PG64-10 Asphalt, Add</i>	0.14	
<i>For Up To 1,000, Add</i>	1.16	
<i>For >1,000 To 2,000, Add</i>	0.66	
<i>For >10,000 To 20,000, Deduct</i>	-0.32	
<i>For >20,000 To 50,000, Deduct</i>	-0.59	
<i>For >50,000 To 100,000, Deduct</i>	-0.91	
<i>For >100,000, Deduct</i>	-1.31	
32 12 16 13-0017 SY 1-1/2" Thick Bituminous Hot Mix Surface Course .....11.45 Note: Includes placement, rolling, finishing and sweeping.		
<i>For PG64-10 Asphalt, Add</i>	0.21	
<i>For Up To 700, Add</i>	1.70	
<i>For >700 To 1,400, Add</i>	0.96	
<i>For >7,000 To 14,000, Deduct</i>	-0.48	
<i>For >14,000 To 32,000, Deduct</i>	-0.88	
<i>For >32,000 To 64,000, Deduct</i>	-1.35	
<i>For >64,000, Deduct</i>	-1.95	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0018 SY 2" Thick Bituminous Hot Mix Surface Course.....	14.70	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	0.28	
For Up To 500, Add	2.11	
For >500 To 1,000, Add	1.18	
For >5,000 To 10,000, Deduct	-0.63	
For >10,000 To 24,000, Deduct	-1.14	
For >24,000 To 48,000, Deduct	-1.77	
For >48,000, Deduct	-2.55	
32 12 16 13-0019 SY 2-1/2" Thick Bituminous Hot Mix Surface Course	18.61	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	0.35	
For Up To 400, Add	2.71	
For >400 To 800, Add	1.52	
For >4,000 To 8,000, Deduct	-0.79	
For >8,000 To 20,000, Deduct	-1.44	
For >20,000 To 40,000, Deduct	-2.23	
For >40,000, Deduct	-3.21	
32 12 16 13-0020 SY 3" Thick Bituminous Hot Mix Surface Course.....	22.33	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	0.42	
For Up To 340, Add	3.25	
For >340 To 680, Add	2.66	
For >3,400 To 6,800, Deduct	-0.95	
For >6,800 To 17,000, Deduct	-1.73	
For >17,000 To 34,000, Deduct	-2.68	
For >34,000, Deduct	-3.85	
32 12 16 13-0021 CSF Type F Asphalt Surface Cap 1/8" To 1/4" Thick For Use Only On Top Concrete Filled Trench.....	70.11	
32 12 16 13-0022 Hand Placed, Hot Mix Asphalt (HMA) (32 12 16 13)		
32 12 16 13-0023 TON Hand Placed Hot Mixed Asphalt 3,954 LB/CY	344.38	
Note: For small areas not reachable by machine. Includes placement, rolling, finishing and sweeping.		
32 12 16 19 Cold-Mix Asphalt Paving (32 12 16)		
Note: 0.5 Gal asphalt/SY per inch depth; well graded granular aggregate.		
32 12 16 19-0001 Cold Mix Asphalt (CMA) Pavement (32 12 16 19)		
Note: 0.5 Gal asphalt/SY per inch depth; well graded granular aggregate.		
32 12 16 19-0002 SY Cold Laid Asphalt Pavement, Traveling Plant Mixed In Windrows, Compacted 4" Course	12.49	
32 12 16 19-0003 SY Cold Laid Asphalt Pavement, Rotary Plant Mixed In Place, Compacted 4" Course	12.15	
32 12 16 19-0004 SY Cold Laid Asphalt Pavement, Central Stationary Plant, Mixed, Compacted 4" Course.....	19.63	
32 12 16 39 Paving Fabrics (32 12 16)		
See CSI section 31 32 19 16-0000 for geotextile fabric.		
32 12 16 39-0001 SY 3.6 Oz/SY, 90 LB Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-38A/O)	1.08	
For Up To 50, Add	0.25	
For >50 To 150, Add	0.19	
For >150 To 250, Add	0.12	
For >250 To 500, Add	0.06	
32 12 16 39-0002 SY 4.1 Oz/SY, 101 LB Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-42 A/O).....	1.16	
For Up To 50, Add	0.27	
For >50 To 150, Add	0.20	
For >150 To 250, Add	0.13	
For >250 To 500, Add	0.06	
32 12 16 43 Waterproofing Membranes (32 12 16)		
32 12 16 43-0001 Waterproofing Membranes (32 12 16 43)		
32 12 16 43-0002 SY Up To 500 SY, Preformed Rubberized Asphalt Membrane.....	33.01	
32 12 16 43-0003 SY >500 To 1,000 SY, Preformed Rubberized Asphalt Membrane	24.75	
32 12 16 43-0004 SY >1,000 SY, Preformed Rubberized Asphalt Membrane	15.41	
32 12 33 Flexible Paving Surface Treatments (32 12)		
32 12 33 00-0001 Bituminous Surface Treatment For Roadways (32 12 33)		
Note: 0.25 Gal bitumen per SY and 30 lb of gravel/SY.		
32 12 33 00-0002 SY Single Course Bituminous Treatment, Prepare And Clean Surface Roadway	2.94	
32 12 33 00-0003 SY Double Course Bituminous Treatment, Prepare And Clean Surface Roadway.....	5.28	
32 12 33 00-0004 Bituminous Surface Treatment For Trails (32 12 33)		
Note: 0.25 Gal bitumen per SY and 20 lb of gravel/SY.		
32 12 33 00-0005 SY Bituminous Surface Treatment, For Trails.....	2.01	
32 12 36 Seal Coats (32 12)		
See CSI section 32 01 13 62-0000 for slurry seal.		
32 12 36 13 Asphaltic Seal and Fog Coats (32 12 36)		



		Exterior Improvements	32
		Bases, Ballasts, and Paving	32 10
		Flexible Paving	32 12

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 13-0001 Asphalt Emulsion, Fog Seal (Monterey County) <small>(32 12 36 13)</small>		
32 12 36 13-0002 TON Asphaltic Emulsion, Fog Seal (Monterey County).....	1,218.83	
32 12 36 13-0003 Asphalt Emulsion Seal Coat (Chip Seal) <small>(32 12 36 13)</small>		
Note: Includes initial sweeping prior to placement, cleaning of area, rolling and final sweeping. Excludes crack repair, fog sealer, and any additional consecutive days sweeping following final sweeping.		
32 12 36 13-0004 Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) <small>(32 12 36 13-0003)</small>		
Note: 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.15 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 13-0005 SY Up To 200 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.85	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.22</i>	
32 12 36 13-0006 SY >200 To 500 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.68	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.22</i>	
32 12 36 13-0007 SY >500 To 1,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.55	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.22</i>	
32 12 36 13-0008 SY >1,000 To 5,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.41	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.22</i>	
32 12 36 13-0009 SY >5,000 To 10,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.33	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.22</i>	
32 12 36 13-0010 SY >10,000 To 20,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.26	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.22</i>	
32 12 36 13-0011 SY >20,000 To 50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.19	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.22</i>	
32 12 36 13-0012 SY >50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.16	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.22</i>	
32 12 36 13-0013 Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) <small>(32 12 36 13-0003)</small>		
Note: 16 to 25 Pounds Per SY of 5/16" No. 8 with 0.25 to 0.35 gallons asphalt emulsion per SY.		
32 12 36 13-0014 SY Up To 200 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.42	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.27</i>	
32 12 36 13-0015 SY >200 To 500 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.20	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.27</i>	
32 12 36 13-0016 SY >500 To 1,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.04	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.27</i>	
32 12 36 13-0017 SY >1,000 To 5,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.98	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.27</i>	
32 12 36 13-0018 SY >5,000 To 10,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.74	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.27</i>	
32 12 36 13-0019 SY >10,000 To 20,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.61	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.27</i>	
32 12 36 13-0020 SY >20,000 To 50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.51	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.27</i>	
32 12 36 13-0021 SY >50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.47	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.27</i>	
32 12 36 13-0022 Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) <small>(32 12 36 13-0003)</small>		
Note: 20 to 30 Pounds Per SY of 3/8" No. 6 with 0.25 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0023 SY Up To 200 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.91	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.32</i>	
32 12 36 13-0024 SY >200 To 500 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.63	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.32</i>	
32 12 36 13-0025 SY >500 To 1,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.42	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.32</i>	
32 12 36 13-0026 SY >1,000 To 5,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.18	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.32</i>	
32 12 36 13-0027 SY >5,000 To 10,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.05	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.32</i>	
32 12 36 13-0028 SY >10,000 To 20,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.85	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.32</i>	
32 12 36 13-0029 SY >20,000 To 50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.72	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.32</i>	
32 12 36 13-0030 SY >50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.68	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.32</i>	
32 12 36 13-0031 Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) <small>(32 12 36 13-0003)</small>		
Note: 23 to 35 Pounds Per SY of 1/2" No. 4 with 0.30 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0032 SY Up To 200 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.98	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.37</i>	
32 12 36 13-0033 SY >200 To 500 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.69	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.37</i>	
32 12 36 13-0034 SY >500 To 1,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.49	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.37</i>	
32 12 36 13-0035 SY >1,000 To 5,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.25	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.37</i>	
32 12 36 13-0036 SY >5,000 To 10,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.12	
<i>For Each Additional 0.5% Latex Additive, Add</i>	<i>0.37</i>	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 13-0037	SY		>10,000 To 20,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.00	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.37	
32 12 36 13-0038	SY		>20,000 To 50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	2.80	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.37	
32 12 36 13-0039	SY		>50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	2.75	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.37	
32 12 36 13-0040			Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) ⁽³²⁾		
			<small>12 36 13-0003</small> Note: First coat 23 to 30 Pounds Per SY of 1/2" No. 4 with 0.20 to 0.35 gallons asphalt emulsion per SY, Second coat 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.20 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 13-0041	SY		Up To 200 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	6.18	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.53	
32 12 36 13-0042	SY		>200 To 500 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.72	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.53	
32 12 36 13-0043	SY		>500 To 1,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.40	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.53	
32 12 36 13-0044	SY		>1,000 To 5,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.01	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.53	
32 12 36 13-0045	SY		>5,000 To 10,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.79	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.53	
32 12 36 13-0046	SY		>10,000 To 20,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.54	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.53	
32 12 36 13-0047	SY		>20,000 To 50,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.32	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.53	
32 12 36 13-0048	SY		>50,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.25	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.53	
32 12 36 13-0049			Sand Sealer ^(32 12 36 13)		
			Note: A sand seal is an application of asphalt binder followed by placement of a layer of sand or fine aggregate, and then rolled to embed the sand or fine aggregate into the binder. Includes sweeping and cleaning of area.		
32 12 36 13-0050	SY		Up To 200 SY, Sand Seal	2.25	
32 12 36 13-0051	SY		>200 To 500 SY, Sand Seal.....	1.42	
32 12 36 13-0052	SY		>500 To 1,000 SY, Sand Seal.....	1.41	
32 12 36 13-0053	SY		>1,000 To 5,000 SY, Sand Seal.....	1.22	
32 12 36 13-0054	SY		>5,000 To 10,000 SY, Sand Seal.....	1.12	
32 12 36 13-0055	SY		>10,000 To 20,000 SY, Sand Seal.....	1.04	
32 12 36 13-0056	SY		>20,000 To 50,000 SY, Sand Seal.....	0.97	
32 12 36 13-0057	SY		>50,000 SY, Sand Seal.....	0.95	
32 12 36 16			Coal Tar Seal Coats ^(32 12 36)		
32 12 36 16-0001			Thermoplastic Coal-Tar Asphalt Seal ^(32 12 36 16)		
			Note: Includes sweeping and cleaning of area.		
32 12 36 16-0002	SY		Up To 500 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	7.71	
32 12 36 16-0003	SY		>500 To 1,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	7.11	
32 12 36 16-0004	SY		>1,000 To 5,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	6.22	
32 12 36 16-0005	SY		>5,000 To 20,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	5.48	
32 12 36 16-0006	SY		>20,000 To 50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	4.56	
32 12 36 16-0007	SY		>50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	3.66	
32 12 36 16-0008	SY		Up To 500 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	9.03	
32 12 36 16-0009	SY		>500 To 1,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	8.38	
32 12 36 16-0010	SY		>1,000 To 5,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	7.35	
32 12 36 16-0011	SY		>5,000 To 20,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	6.52	
32 12 36 16-0012	SY		>20,000 To 50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	5.47	
32 12 36 16-0013	SY		>50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	4.43	
32 12 43			Porous Flexible Paving ^(32 12)		
32 12 43 00-0001			Flexible Recycled Plastic Porous Grid ^(32 12 43)		
			Note: Includes sand fill in rings. Excludes base, earth work and grass or sod.		
32 12 43 00-0002	SY		1" Thick, Recycled Plastic Flexible Pavement With Sand Fill.....	30.57	
			Note: Includes sand fill in rings. Excludes base, earth work and grass or sod. Invisible Structures, Inc.; Grasspave2.		
			<i>For Up To 100, Add</i>	10.67	
			<i>For >100 To 500, Add</i>	2.74	
			<i>For >1,000 To 5,000, Deduct</i>	-1.21	
			<i>For >5,000, Deduct</i>	-2.37	
32 12 73			Asphalt Paving Joint Sealants ^(32 12)		
32 12 73 00-0001			Expansion Joint In Sidewalk ^(32 12 73)		
32 12 73 00-0002	LF		For Hot Asphalt Poured Over Expansion Joint In Sidewalk	4.08	
32 13			Rigid Paving ^(32 10)		
32 13 13			Concrete Paving ^(32 13)		
			Note: The following section includes spreading and placing delivered Portland cement concrete mix.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 13 33 Plain Concrete Paving (32 13 13)		
32 13 13 33-001 Concrete Paving Assemblies (32 13 13 33)		
<p>Note: Includes forms, wire mesh (where necessary), two mat layers #3-#6 reinforcing rods at 12" on center with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float and finish. Excludes excavation, base and earthwork. Includes concrete paving machine. To be used for roadways, driveways, parking areas, or other areas of vehicular traffic. See CSI section 03 05 13 00-0001 for color additive.</p>		
32 13 13 33-002 4,500 PSI Concrete Paving Assembly (32 13 13 33-0001)		
32 13 13 33-0003 SY 4" 4,500 PSI Concrete Paving Assembly	61.38	
For 2,500 PSI Concrete, Deduct	-4.10	
For 3,000 PSI Concrete, Deduct	-2.67	
For 3,500 PSI Concrete, Deduct	-2.14	
For 4,000 PSI Concrete, Deduct	-0.93	
For 5,000 PSI Concrete, Add	0.57	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	4.63	
For <12' Wide Pass, Add	10.00	
For 24' Or Greater Wide Pass, Deduct	-12.28	
For Air Entrainment, Add	1.78	
For Slipforming, Deduct	-6.14	
For Up To 100, Add	22.57	
For >100 To 250, Add	13.07	
For >250 To 500, Add	6.53	
For >1,000 To 2,000, Deduct	-1.78	
For >2,000 To 5,000, Deduct	-3.32	
For >5,000 To 10,000, Deduct	-4.85	
For >10,000 To 20,000, Deduct	-6.39	
For >20,000, Deduct	-7.92	
32 13 13 33-0004 SY 5" 4,500 PSI Concrete Paving Assembly	73.34	
For 2,500 PSI Concrete, Deduct	-5.14	
For 3,000 PSI Concrete, Deduct	-3.35	
For 3,500 PSI Concrete, Deduct	-2.68	
For 4,000 PSI Concrete, Deduct	-1.16	
For 5,000 PSI Concrete, Add	0.72	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	5.81	
For <12' Wide Pass, Add	11.63	
For 24' Or Greater Wide Pass, Deduct	-14.67	
For Air Entrainment, Add	2.24	
For Slipforming, Deduct	-7.33	
For Up To 100, Add	26.11	
For >100 To 250, Add	15.29	
For >250 To 500, Add	7.65	
For >1,000 To 2,000, Deduct	-2.24	
For >2,000 To 5,000, Deduct	-4.07	
For >5,000 To 10,000, Deduct	-5.90	
For >10,000 To 20,000, Deduct	-7.74	
For >20,000, Deduct	-9.57	
32 13 13 33-0005 SY 6" 4,500 PSI Concrete Paving Assembly	78.17	
For 2,500 PSI Concrete, Deduct	-5.43	
For 3,000 PSI Concrete, Deduct	-3.54	
For 3,500 PSI Concrete, Deduct	-2.83	
For 4,000 PSI Concrete, Deduct	-1.23	
For 5,000 PSI Concrete, Add	0.75	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	6.13	
For <12' Wide Pass, Add	12.47	
For 24' Or Greater Wide Pass, Deduct	-15.63	
For Air Entrainment, Add	2.36	
For Slipforming, Deduct	-7.82	
For Up To 100, Add	28.03	
For >100 To 250, Add	16.37	
For >250 To 500, Add	8.19	
For >1,000 To 2,000, Deduct	-2.36	
For >2,000 To 5,000, Deduct	-4.31	
For >5,000 To 10,000, Deduct	-6.27	
For >10,000 To 20,000, Deduct	-8.22	
For >20,000, Deduct	-10.18	
32 13 13 33-0006 SY 7" 4,500 PSI Concrete Paving Assembly	93.83	
For 2,500 PSI Concrete, Deduct	-6.84	
For 3,000 PSI Concrete, Deduct	-4.46	
For 3,500 PSI Concrete, Deduct	-3.57	
For 4,000 PSI Concrete, Deduct	-1.55	
For 5,000 PSI Concrete, Add	0.95	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	7.74	
For <12' Wide Pass, Add	14.53	
For 24' Or Greater Wide Pass, Deduct	-18.77	
For Air Entrainment, Add	2.98	
For Slipforming, Deduct	-9.38	
For Up To 100, Add	32.50	
For >100 To 250, Add	19.22	
For >250 To 500, Add	9.61	
For >1,000 To 2,000, Deduct	-2.98	
For >2,000 To 5,000, Deduct	-5.32	
For >5,000 To 10,000, Deduct	-7.67	
For >10,000 To 20,000, Deduct	-10.01	
For >20,000, Deduct	-12.36	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 13 Rigid Paving**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 13	33-0007	SY	8" 4,500 PSI Concrete Paving Assembly	106.50	
			<i>For 2,500 PSI Concrete, Deduct</i>	-7.51	
			<i>For 3,000 PSI Concrete, Deduct</i>	-4.90	
			<i>For 3,500 PSI Concrete, Deduct</i>	-3.92	
			<i>For 4,000 PSI Concrete, Deduct</i>	-1.70	
			<i>For 5,000 PSI Concrete, Add</i>	1.04	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	8.49	
			<i>For <12' Wide Pass, Add</i>	16.83	
			<i>For 24' Or Greater Wide Pass, Deduct</i>	-21.30	
			<i>For Air Entrainment, Add</i>	3.27	
			<i>For Slipforming, Deduct</i>	-10.65	
			<i>For Up To 100, Add</i>	37.78	
			<i>For >100 To 250, Add</i>	22.15	
			<i>For >250 To 500, Add</i>	11.08	
			<i>For >1,000 To 2,000, Deduct</i>	-3.27	
			<i>For >2,000 To 5,000, Deduct</i>	-5.93	
			<i>For >5,000 To 10,000, Deduct</i>	-8.59	
			<i>For >10,000 To 20,000, Deduct</i>	-11.25	
			<i>For >20,000, Deduct</i>	-13.92	
32 13 13	33-0008	SY	9" 4,500 PSI Concrete Paving Assembly	120.95	
			<i>For 2,500 PSI Concrete, Deduct</i>	-8.68	
			<i>For 3,000 PSI Concrete, Deduct</i>	-5.66	
			<i>For 3,500 PSI Concrete, Deduct</i>	-4.53	
			<i>For 4,000 PSI Concrete, Deduct</i>	-1.96	
			<i>For 5,000 PSI Concrete, Add</i>	1.21	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	9.81	
			<i>For <12' Wide Pass, Add</i>	18.92	
			<i>For 24' Or Greater Wide Pass, Deduct</i>	-24.19	
			<i>For Air Entrainment, Add</i>	3.77	
			<i>For Slipforming, Deduct</i>	-12.10	
			<i>For Up To 100, Add</i>	42.39	
			<i>For >100 To 250, Add</i>	24.97	
			<i>For >250 To 500, Add</i>	12.48	
			<i>For >1,000 To 2,000, Deduct</i>	-3.77	
			<i>For >2,000 To 5,000, Deduct</i>	-6.80	
			<i>For >5,000 To 10,000, Deduct</i>	-9.82	
			<i>For >10,000 To 20,000, Deduct</i>	-12.84	
			<i>For >20,000, Deduct</i>	-15.87	
32 13 13	33-0009	SY	10" 4,500 PSI Concrete Paving Assembly	134.50	
			<i>For 2,500 PSI Concrete, Deduct</i>	-9.55	
			<i>For 3,000 PSI Concrete, Deduct</i>	-6.23	
			<i>For 3,500 PSI Concrete, Deduct</i>	-4.98	
			<i>For 4,000 PSI Concrete, Deduct</i>	-2.16	
			<i>For 5,000 PSI Concrete, Add</i>	1.33	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	10.79	
			<i>For <12' Wide Pass, Add</i>	21.17	
			<i>For 24' Or Greater Wide Pass, Deduct</i>	-26.90	
			<i>For Air Entrainment, Add</i>	4.15	
			<i>For Slipforming, Deduct</i>	-13.45	
			<i>For Up To 100, Add</i>	47.50	
			<i>For >100 To 250, Add</i>	27.90	
			<i>For >250 To 500, Add</i>	13.95	
			<i>For >1,000 To 2,000, Deduct</i>	-4.15	
			<i>For >2,000 To 5,000, Deduct</i>	-7.51	
			<i>For >5,000 To 10,000, Deduct</i>	-10.88	
			<i>For >10,000 To 20,000, Deduct</i>	-14.24	
			<i>For >20,000, Deduct</i>	-17.60	
32 13 13	33-0010	SY	12" 4,500 PSI Concrete Paving Assembly	160.10	
			<i>For 2,500 PSI Concrete, Deduct</i>	-11.30	
			<i>For 3,000 PSI Concrete, Deduct</i>	-7.37	
			<i>For 3,500 PSI Concrete, Deduct</i>	-5.90	
			<i>For 4,000 PSI Concrete, Deduct</i>	-2.56	
			<i>For 5,000 PSI Concrete, Add</i>	1.57	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	12.78	
			<i>For <12' Wide Pass, Add</i>	25.28	
			<i>For 24' Or Greater Wide Pass, Deduct</i>	-32.02	
			<i>For Air Entrainment, Add</i>	4.92	
			<i>For Slipforming, Deduct</i>	-16.01	
			<i>For Up To 100, Add</i>	56.74	
			<i>For >100 To 250, Add</i>	33.29	
			<i>For >250 To 500, Add</i>	16.64	
			<i>For >1,000 To 2,000, Deduct</i>	-4.92	
			<i>For >2,000 To 5,000, Deduct</i>	-8.92	
			<i>For >5,000 To 10,000, Deduct</i>	-12.92	
			<i>For >10,000 To 20,000, Deduct</i>	-16.92	
			<i>For >20,000, Deduct</i>	-20.93	



		Exterior Improvements	32
		Bases, Ballasts, and Paving	32 10
		Rigid Paving	32 13

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 13 33-0011 SY 15" 4,500 PSI Concrete Paving Assembly	202.71	
For 2,500 PSI Concrete, Deduct	-13.88	
For 3,000 PSI Concrete, Deduct	-9.05	
For 3,500 PSI Concrete, Deduct	-7.24	
For 4,000 PSI Concrete, Deduct	-3.14	
For 5,000 PSI Concrete, Add	1.93	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	15.69	
For <12' Wide Pass, Add	32.57	
For 24' Or Greater Wide Pass, Deduct	-40.54	
For Air Entrainment, Add	6.04	
For Slipforming, Deduct	-20.27	
For Up To 100, Add	73.34	
For >100 To 250, Add	42.71	
For >250 To 500, Add	21.35	
For >1,000 To 2,000, Deduct	-6.04	
For >2,000 To 5,000, Deduct	-11.10	
For >5,000 To 10,000, Deduct	-16.17	
For >10,000 To 20,000, Deduct	-21.24	
For >20,000, Deduct	-26.31	
32 13 16 Decorative Concrete Paving (32 13)		
32 13 16 13 Patterned Concrete Paving (32 13 16)		
See CSI section 32 17 26 00-0000 for tactile warning surfaces.		
32 13 16 13-0001 SF For Patterned (Tactile) Finish In Concrete Sidewalk	4.39	
32 13 43 Pervious Concrete Paving (32 13)		
32 13 43 00-0001 Pervious Concrete Assembly (32 13 43)		
Note: Pervious concrete is a special concrete mix with high porosity that allows water to pass through it. For paving and sidewalks.		
32 13 43 00-0002 SF 6" Thick Pervious Concrete Paving	14.24	
Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing.		
For >5,000 To 30,000, Deduct	-1.55	
For >30,000 To 100,000, Deduct	-2.87	
For >100,000, Deduct	-3.57	
32 13 43 00-0003 SF 9" Thick Pervious Concrete Paving	17.90	
Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing.		
For >5,000 To 30,000, Deduct	-1.90	
For >30,000 To 100,000, Deduct	-3.46	
For >100,000, Deduct	-4.29	
32 13 73 Concrete Paving Joint Sealants (32 13)		
32 13 73 13 Fuel-Resistant Concrete Paving Joint Sealants (32 13 73)		
32 13 73 13-0001 Concrete Pavement Joint And Crack Repair (32 13 73 13)		
Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.		
32 13 73 13-0002 LF Pavement Sealing, Roads Resealing Joints In Concrete Pavements For Roads	8.02	
32 13 73 16 Field-Molded Concrete Paving Joint Sealants (32 13 73)		
32 13 73 16-0001 Preformed Elastomeric Concrete Pavement Joint And Crack Repair (32 13 73 16)		
Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.		
32 13 73 16-0002 LF Joint Sealing, Concrete Pavement Preformed Elastomeric	12.04	
32 13 73 19 Compression Concrete Paving Joint Sealants (32 13 73)		
32 13 73 19-0001 Silicone Joint Sealant For Concrete Pavement (32 13 73 19)		
Note: Installation includes high pressure water wash, sand blast, sweeping, cleaning area, backer rod and Dow Corning 888 silicone sealant. Demolition includes removal of existing material where saw cutting is not required. Excludes saw cutting.		
32 13 73 19-0002 LF 1/4" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	9.21	2.19
32 13 73 19-0003 LF 3/8" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	9.61	2.23
32 13 73 19-0004 LF 1/2" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	10.04	2.28
32 13 73 19-0005 LF 3/4" x 3/8" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	11.43	2.32
32 13 73 19-0006 LF 1" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	13.09	2.38
32 13 73 19-0007 LF 1-1/2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	15.47	2.42
32 13 73 19-0008 LF 2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	19.36	2.47
32 14 Unit Paving (32 10)		
32 14 09 Paver Restraints (32 14)		
32 14 09 00-0001 Paver Restraints (32 14 09)		
Note: Paver restraints are used along the edge of a group of pavers as a locking border. Flexible or rigid sections. Includes stakes and connecting devices. Excludes pavers, bedding, excavation, base course and compaction.		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 14 Unit Paving**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 09 00-0002 LF Up To 2" Height, Vinyl Paver Restraint	3.82	0.97
For >1,000 To 2,000, Deduct	-0.50	
For >2,000 To 4,000, Deduct	-0.73	
For >4,000, Deduct	-0.93	
32 14 09 00-0003 LF Up To 2" Height, Galvanized Steel Paver Restraint	4.13	0.97
For >500 To 1,000, Deduct	-0.13	
For >1,000 To 2,000, Deduct	-0.26	
For >2,000, Deduct	-0.39	
32 14 09 00-0004 LF Up To 1" Height, Aluminum Paver Restraint	3.98	0.97
For >250 To 500, Deduct	-0.24	
For >500 To 1,000, Deduct	-0.36	
For >1,000 To 1,500, Deduct	-0.61	
32 14 09 00-0005 LF >1" To 2" Height, Aluminum Paver Restraint	4.66	0.97
For >250 To 500, Deduct	-0.31	
For >500 To 1,000, Deduct	-0.47	
For >1,000 To 1,500, Deduct	-0.78	
32 14 09 00-0006 LF >2" To 3" Height, Aluminum Paver Restraint	5.96	0.97
For >250 To 500, Deduct	-0.44	
For >500 To 1,000, Deduct	-0.66	
For >1,000 To 1,500, Deduct	-1.10	
32 14 09 00-0007 LF >3" To 4" Height, Aluminum Paver Restraint	6.97	0.97
For >250 To 500, Deduct	-0.54	
For >500 To 1,000, Deduct	-0.81	
For >1,000 To 1,500, Deduct	-1.36	

32 14 11 Bedding for Unit Paving (32 14)**32 14 11 00-0001 Bedding For Brick, Precast Concrete Paver And Stone Sidewalk (32 14 11)**

Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

32 14 11 00-0002 SF 1" To 2" Sand Bedding, Screeded	1.05	
For Up To 100, Add	0.46	
For >100 To 500, Add	0.13	
For >1,000 To 5,000, Deduct	-0.08	
For >5,000, Deduct	-0.12	
32 14 11 00-0003 SF 1" To 2" Stone Dust Bedding, Screeded	1.28	
For Up To 100, Add	0.51	
For >100 To 500, Add	0.14	
For >1,000 To 5,000, Deduct	-0.08	
For >5,000, Deduct	-0.13	
32 14 11 00-0004 SF 3" Stone Dust Bedding, Screeded	1.67	
For Up To 100, Add	0.65	
For >100 To 500, Add	0.17	
For >1,000 To 5,000, Deduct	-0.09	
For >5,000, Deduct	-0.16	
32 14 11 00-0005 SF 4" Stone Dust Bedding, Screeded	2.13	
For Up To 100, Add	0.81	
For >100 To 500, Add	0.22	
For >1,000 To 5,000, Deduct	-0.11	
For >5,000, Deduct	-0.20	
32 14 11 00-0006 SF 1" Mortar Bedding	3.27	
For Up To 100, Add	1.45	
For >100 To 500, Add	0.42	
For >1,000 To 5,000, Deduct	-0.25	
For >5,000, Deduct	-0.40	
32 14 11 00-0007 SF 2" Mortar Bedding	4.85	
For Up To 100, Add	2.05	
For >100 To 500, Add	0.58	
For >1,000 To 5,000, Deduct	-0.34	
For >5,000, Deduct	-0.55	
32 14 11 00-0008 SF Thin-Set Latex Portland Cement Mortar	1.65	
For Up To 100, Add	0.75	
For >100 To 500, Add	0.22	
For >1,000 To 5,000, Deduct	-0.14	
For >5,000, Deduct	-0.21	

32 14 13 Precast Concrete Unit Paving (32 14)**32 14 13 16 Precast Concrete Unit Paving Slabs (32 14 13)****32 14 13 16-0001 Precast Concrete Paver Sidewalk (32 14 13 16)**

Note: Square, rectangular, or interlocking pervious pavers. Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.

32 14 13 16-0002 SF 2-3/8" Thick, Up To 32 SI Precast Concrete Paver	12.35	3.14
Note: Includes 2-1/2" x 5", 4" x 4", 4" x 6", 5" x 5", 4" x 8" and other similar size pavers.		
For 2-3/4" Concrete Paver, Add	1.22	
For 3-1/8" Concrete Paver, Add	1.99	
For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.93	
For Up To 100, Add	4.66	
For >100 To 500, Add	1.25	
For >1,000 To 5,000, Deduct	-0.63	
For >5,000, Deduct	-1.13	



		Exterior Improvements	32
		Bases, Ballasts, and Paving	32 10
		Unit Paving	32 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 13 16-0003 SF 2-3/8" Thick, >32 to 64 SI Precast Concrete Paver.....	11.78	2.86
Note: Includes 5" x 7", 6" x 6", 8" x 8" and other similar size pavers.		
For 2-3/4" Concrete Paver, Add		
For 3-1/8" Concrete Paver, Add		
For Cement/Sand Mix Or Polymeric Sand Joints, Add		
For Up To 100, Add		
For >100 To 500, Add		
For >1,000 To 5,000, Deduct		
For >5,000, Deduct		
32 14 13 16-0004 SF 2-3/8" Thick, >64 to 144 SI Precast Concrete Paver.....	11.25	2.27
Note: Includes 6" x 12", 12" x 12" and other similar size pavers.		
For 2-3/4" Concrete Paver, Add		
For 3-1/8" Concrete Paver, Add		
For Cement/Sand Mix Or Polymeric Sand Joints, Add		
For Up To 100, Add		
For >100 To 500, Add		
For >1,000 To 5,000, Deduct		
For >5,000, Deduct		
32 14 13 16-0005 SF 2-3/8" Thick, >144 SI Precast Concrete Paver.....	10.78	2.36
Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers.		
For 2-3/4" Concrete Paver, Add		
For 3-1/8" Concrete Paver, Add		
For Cement/Sand Mix Or Polymeric Sand Joints, Add		
For Up To 100, Add		
For >100 To 500, Add		
For >1,000 To 5,000, Deduct		
For >5,000, Deduct		
32 14 13 16-0006 SF 2-3/8" Thick, Precast Concrete Paver, Combinations And Patterns.....	11.51	2.72
Note: Patterns made by combining pavers from two or more size groups.		
For 2-3/4" Concrete Paver, Add		
For 3-1/8" Concrete Paver, Add		
For Cement/Sand Mix Or Polymeric Sand Joints, Add		
For Up To 100, Add		
For >100 To 500, Add		
For >1,000 To 5,000, Deduct		
For >5,000, Deduct		
32 14 13 19 Porous Precast Concrete Unit Paving (32 14 13)		
32 14 13 19-0001 Turf Block (32 14 13 19)		
Note: Grass grid, open-cell unit paver, geoblock.		
32 14 13 19-0002 SF 3-1/8" Thick, Precast Concrete Turf Block	10.06	2.72
For Up To 100, Add		
For >100 To 500, Add		
For >1,000 To 5,000, Deduct		
For >5,000, Deduct		
32 14 16 Brick Unit Paving (32 14)		
32 14 16 00-0001 Brick Paver Sidewalk (32 14 16)		
Note: Includes sand joints. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 16 00-0002 SF 4" x 8" x 2-1/4" Brick Paver, Laid Flat	12.34	3.14
For 1-3/8" Thick Paver, Deduct		
For 2-3/4" Thick Paver (Vehicular), Add		
For Cement/Sand Mix Or Polymeric Sand Joints, Add		
For Up To 100, Add		
For >100 To 500, Add		
For >1,000 To 5,000, Deduct		
For >5,000, Deduct		
32 14 16 00-0003 SF 4" x 8" x 2-1/4" Brick, Laid On Edge.....	17.90	3.58
For 1-3/8" Thick Paver, Deduct		
For 2-3/4" Thick Paver (Vehicular), Add		
For Cement/Sand Mix Or Polymeric Sand Joints, Add		
For Up To 100, Add		
For >100 To 500, Add		
For >1,000 To 5,000, Deduct		
For >5,000, Deduct		
32 14 33 Plastic Paving (32 14)		
32 14 33 13 Permeable Plastic Paving (32 14 33)		
32 14 33 13-0001 Turf Block Plastic Paving (32 14 33 13)		
32 14 33 13-0002 SF 4" Thick Recycled Polyvinyl Chloride (PVC) Plastic Turf Block.....	14.58	2.72
For Up To 100, Add		
For >100 To 500, Add		
For >1,000 To 5,000, Deduct		
For >5,000, Deduct		
32 14 40 Stone Paving (32 14)		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 14 Unit Paving**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 40 00-0001			Slate Paver Sidewalk <small>(32 14 40)</small> Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 40 00-0002	SF		1" Thick, Up to 54 SI Slate Paver Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	15.99 1.06 -8.21 -5.74 5.30 1.32 -0.52 -1.10	2.60
32 14 40 00-0003	SF		1" Thick, >54 to 108 SI Slate Paver Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	15.52 1.01 -8.09 -5.67 5.06 1.25 -0.47 -1.03	2.36
32 14 40 00-0004	SF		1" Thick, >108 to 216 SI Slate Paver Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	14.70 0.93 -7.88 -5.55 4.65 1.13 -0.39 -0.91	1.95
32 14 40 00-0005	SF		1" Thick, >216 SI Slate Paver Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	14.35 0.90 -7.80 -5.50 4.48 1.07 -0.36 -0.86	1.77
32 14 40 00-0006	SF		1" Thick, Slate Paver, Combinations And Patterns Note: Patterns made by combining pavers from two or more size groups. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	15.07 0.97 -7.98 -5.61 4.84 1.18 -0.43 -0.97	2.14
32 14 40 00-0007			Granite Paver Sidewalk <small>(32 14 40)</small> Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 40 00-0008	SF		1" Thick, Up to 54 SI Granite Paver Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 2" Granite Paver, Add For 3" Granite Paver, Add For 4" Granite Paver, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	22.95 1.41 1.15 2.30 2.56 7.04 1.67 -0.52 -1.31	2.60
32 14 40 00-0009	SF		1" Thick, >54 to 108 SI Granite Paver Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 2" Granite Paver, Add For 3" Granite Paver, Add For 4" Granite Paver, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	22.48 1.36 1.12 2.25 2.48 6.80 1.60 -0.47 -1.24	2.36
32 14 40 00-0010	SF		1" Thick, >108 to 216 SI Granite Paver Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 2" Granite Paver, Add For 3" Granite Paver, Add For 4" Granite Paver, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	21.66 1.28 1.08 2.17 2.36 6.39 1.47 -0.39 -1.12	1.95



		Exterior Improvements	32
		Bases, Ballasts, and Paving	32 10
		Unit Paving	32 14

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 40 00-0011	SF		1" Thick, >216 SI Granite Paver..... Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24" and other similar size pavers. <i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i> <i>For 2" Granite Paver, Add</i> <i>For 3" Granite Paver, Add</i> <i>For 4" Granite Paver, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	21.31 1.24 1.07 2.13 2.31 6.22 1.42 -0.36 -1.07	1.77
32 14 40 00-0012	SF		1" Thick, Granite Paver, Combinations And Patterns..... Note: Patterns made by combining pavers from two or more size groups. <i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i> <i>For 2" Granite Paver, Add</i> <i>For 3" Granite Paver, Add</i> <i>For 4" Granite Paver, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	22.03 1.32 1.10 2.20 2.42 6.58 1.53 -0.43 -1.17	2.14
32 14 40 00-0013			Cobble Stone <small>(32 14 40)</small> Note: Includes 6" thick 2,500 psi concrete mix with various colors of rounded 4" to 8" diameter cobble stones, half embedded in concrete.		
32 14 40 00-0014	SF		4" to 8" diameter cobble stones, various colors, Up To 500 SF	27.05	
32 14 40 00-0015	SF		4" to 8" diameter cobble stones, various colors, > 500 SF	21.19	
32 15 Aggregate Surfacing <small>(32 10)</small>					
32 15 40 Crushed Stone Surfacing <small>(32 15)</small> Note: Includes delivery up to 15 miles from supplier, placement, rolling and compaction water. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.					
32 15 40 00-0001			Gravel Surfacing And Spreading <small>(32 15 40)</small> Note: Includes delivered material, placement, rolling and compaction water.		
32 15 40 00-0002	CY		Gravel Surfacing And Spreading.....	79.39	
32 15 40 00-0003			Limestone Screenings <small>(32 15 40)</small> Note: Includes delivered material, placement, rolling and compaction water. For trail maintenance.		
32 15 40 00-0004	CY		Limestone Screenings For Trail	72.67	
32 15 40 00-0005			Decomposed Granite <small>(32 15 40)</small> Note: Includes delivered material, placement, rolling and compaction water.		
32 15 40 00-0006	SY		3" To 4" Thick Decomposed Granite Screenings With Stabilizer Pathway..... Note: Placed in 2 lifts. <i>For Additional 2" Lift</i> <i>For >45 To 180, Deduct</i> <i>For >180 To 450, Deduct</i> <i>For >450, Deduct</i>	14.67 7.34 -1.02 -1.30 -1.59	
32 16 Curbs, Gutters, Sidewalks, and Driveways <small>(32 10)</small>					
32 16 13 Curbs and Gutters <small>(32 16)</small> Note: Includes transitions. Demolition Includes two saw cuts (each end) of curbs and gutters for lengths up to 100'. See CSI section 02 41 19 13-0057 for additional saw cuts within the 100'.					
32 16 13 13 Cast-In-Place Concrete Curbs and Gutters <small>(32 16 13)</small> Note: Includes concrete, forms, rebar (where required), rebar chairs (where necessary), expansion joints, finish and curing.					
32 16 13 13-0001			Cast In Place Concrete Curbs <small>(32 16 13 13)</small> Note: Includes delivered concrete, forms, rebar, chairs (where necessary), expansion joints, finish and curing.		
32 16 13 13-0002	LF		"B3" Cast In Place Concrete Curb.....	10.88	9.48
32 16 13 13-0003	LF		"B3" Cast In Place Concrete Curb - Radius	12.39	10.90
32 16 13 13-0004	LF		"B1" Cast In Place Concrete Curb.....	25.07	9.48
32 16 13 13-0005	LF		"B1" Cast In Place Concrete Curb - Radius	28.68	10.43
32 16 13 13-0006	LF		"A1-150" Cast In Place Concrete Curb	24.35	9.48
32 16 13 13-0007	LF		"A1-150" Cast In Place Concrete Curb - Radius	27.87	10.43
32 16 13 13-0008	LF		"A1-200" Cast In Place Concrete Curb	25.38	9.48
32 16 13 13-0009	LF		"A1-200" Cast In Place Concrete Curb - Radius.....	29.03	10.43
32 16 13 13-0010	LF		6" x 12" Cast In Place Concrete Curb (Type A1-6)..... <i>For Mountable Curb, Add</i> <i>For Up To 20, Add</i> <i>For >20 To 50, Add</i> <i>For >50 To 100, Add</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i>	19.10 1.30 11.40 6.46 2.47 -2.47 -4.18	9.48

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 16 Curbs, Gutters, Sidewalks, and Driveways**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0011 LF 6" x 12" Cast In Place Concrete Curb - Radius (Type A1-6).....	21.88	10.90
For Mountable Curb, Add	1.51	
For Up To 20, Add	13.14	
For >20 To 50, Add	7.45	
For >50 To 100, Add	2.85	
For >500 To 1,000, Deduct	-2.85	
For >1,000, Deduct	-4.82	
32 16 13 13-0012 LF 6" x 14" Cast In Place Concrete Curb (Type A1-8).....	21.04	9.48
For Mountable Curb, Add	1.41	
For Up To 20, Add	12.50	
For >20 To 50, Add	7.08	
For >50 To 100, Add	2.71	
For >500 To 1,000, Deduct	-2.71	
For >1,000, Deduct	-4.59	
32 16 13 13-0013 LF 6" x 14" Cast In Place Concrete Curb - Radius (Type A1-8).....	24.10	10.90
For Mountable Curb, Add	1.65	
For Up To 20, Add	14.42	
For >20 To 50, Add	8.17	
For >50 To 100, Add	3.12	
For >500 To 1,000, Deduct	-3.12	
For >1,000, Deduct	-5.29	
32 16 13 13-0014 LF 6" x 16" Cast In Place Concrete Curb.....	23.22	9.48
For Mountable Curb, Add	1.51	
For Up To 20, Add	13.64	
For >20 To 50, Add	7.72	
For >50 To 100, Add	2.96	
For >500 To 1,000, Deduct	-2.96	
For >1,000, Deduct	-5.02	
32 16 13 13-0015 LF 6" x 16" Cast In Place Concrete Curb - Radius.....	26.50	14.21
For Mountable Curb, Add	1.77	
For Up To 20, Add	15.72	
For >20 To 50, Add	8.90	
For >50 To 100, Add	3.41	
For >500 To 1,000, Deduct	-3.41	
For >1,000, Deduct	-5.78	
32 16 13 13-0016 LF 6" x 18" Cast In Place Concrete Curb.....	24.97	9.48
For Mountable Curb, Add	1.59	
For Up To 20, Add	14.57	
For >20 To 50, Add	8.24	
For >50 To 100, Add	3.16	
For >500 To 1,000, Deduct	-3.16	
For >1,000, Deduct	-5.37	
32 16 13 13-0017 LF 6" x 18" Cast In Place Concrete Curb - Radius.....	28.20	10.90
For Mountable Curb, Add	1.83	
For Up To 20, Add	16.54	
For >20 To 50, Add	9.36	
For >50 To 100, Add	3.59	
For >500 To 1,000, Deduct	-3.59	
For >1,000, Deduct	-6.09	
32 16 13 13-0018 LF 6" x 24" Cast In Place Concrete Curb.....	28.89	10.43
For Mountable Curb, Add	1.68	
For Up To 20, Add	16.31	
For >20 To 50, Add	9.21	
For >50 To 100, Add	3.55	
For >500 To 1,000, Deduct	-3.55	
For >1,000, Deduct	-6.05	
32 16 13 13-0019 LF 6" x 24" Cast In Place Concrete Curb - Radius.....	32.30	11.84
For Mountable Curb, Add	1.90	
For Up To 20, Add	18.31	
For >20 To 50, Add	10.34	
For >50 To 100, Add	3.98	
For >500 To 1,000, Deduct	-3.98	
For >1,000, Deduct	-6.78	
32 16 13 13-0020 LF 12" x 24" Cast In Place Concrete Curb.....	38.68	11.84
For Mountable Curb, Add	1.54	
For Up To 20, Add	19.58	
For >20 To 50, Add	10.98	
For >50 To 100, Add	4.30	
For >500 To 1,000, Deduct	-4.30	
For >1,000, Deduct	-7.42	
32 16 13 13-0021 LF 12" x 24" Cast In Place Concrete Curb - Radius.....	43.02	13.26
For Mountable Curb, Add	1.75	
For Up To 20, Add	21.87	
For >20 To 50, Add	12.26	
For >50 To 100, Add	4.80	
For >500 To 1,000, Deduct	-4.80	
For >1,000, Deduct	-8.28	
32 16 13 13-0022 EA Additional Finish For Handicap Drop Section In Curb.....	71.06	

32 16 13 13-0023 Cast In Place Concrete Curb And Gutter (32 16 13 13)

Note: Includes concrete, forms, rebar, chairs (where necessary), transitions, expansion joints, finish and curing.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0024 LF "A2-6 Modified" Concrete Curb And Gutter - Straight	28.18	11.50
<i>For Up To 20, Add</i>	18.92	
<i>For >20 To 50, Add</i>	10.47	
<i>For >50 To 100, Add</i>	4.23	
<i>For >500 To 1,000, Deduct</i>	-3.42	
<i>For >1,000, Deduct</i>	-5.84	
<i>For Mountable Or Rolled Curb And Gutter, Add</i>	1.57	
32 16 13 13-0025 LF "A2-6 Modified" Concrete Curb And Gutter - Radius.....	31.23	11.50
<i>For Up To 20, Add</i>	20.94	
<i>For >20 To 50, Add</i>	11.57	
<i>For >50 To 100, Add</i>	4.68	
<i>For >500 To 1,000, Deduct</i>	-3.77	
<i>For >1,000, Deduct</i>	-6.43	
<i>For Mountable Or Rolled Curb And Gutter, Add</i>	1.70	
32 16 13 13-0026 LF "A2-6" Concrete Curb And Gutter - Straight.....	36.71	15.33
<i>For Up To 20, Add</i>	25.09	
<i>For >20 To 50, Add</i>	14.08	
<i>For >50 To 100, Add</i>	5.51	
<i>For >500 To 1,000, Deduct</i>	-4.90	
<i>For >1,000, Deduct</i>	-8.27	
<i>For Mountable Or Rolled Curb And Gutter, Add</i>	2.73	
32 16 13 13-0027 LF "A2-6" Concrete Curb And Gutter - Radius.....	48.05	17.25
<i>For Up To 20, Add</i>	32.28	
<i>For >20 To 50, Add</i>	17.86	
<i>For >50 To 100, Add</i>	7.21	
<i>For >500 To 1,000, Deduct</i>	-5.85	
<i>For >1,000, Deduct</i>	-9.98	
<i>For Mountable Or Rolled Curb And Gutter, Add</i>	2.70	
32 16 13 13-0028 LF "B-2" Concrete Curb And Gutter - Straight.....	45.90	16.77
<i>For Up To 20, Add</i>	30.89	
<i>For >20 To 50, Add</i>	17.12	
<i>For >50 To 100, Add</i>	6.89	
<i>For >500 To 1,000, Deduct</i>	-5.65	
<i>For >1,000, Deduct</i>	-9.62	
<i>For Mountable Or Rolled Curb And Gutter, Add</i>	2.67	
32 16 13 13-0029 LF "B-2" Concrete Curb And Gutter - Radius.....	47.69	16.77
<i>For Up To 20, Add</i>	31.97	
<i>For >20 To 50, Add</i>	17.66	
<i>For >50 To 100, Add</i>	7.15	
<i>For >500 To 1,000, Deduct</i>	-5.74	
<i>For >1,000, Deduct</i>	-9.80	
<i>For Mountable Or Rolled Curb And Gutter, Add</i>	2.58	
32 16 13 13-0030 LF 6" x 12" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	26.47	11.50
<i>For Up To 20, Add</i>	17.90	
<i>For >20 To 50, Add</i>	9.95	
<i>For >50 To 100, Add</i>	3.97	
<i>For >500 To 1,000, Deduct</i>	-3.34	
<i>For >1,000, Deduct</i>	-5.67	
<i>For Mountable Or Rolled Curb And Gutter, Add</i>	1.66	
32 16 13 13-0031 LF 6" x 12" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	28.85	15.33
<i>For Up To 20, Add</i>	19.51	
<i>For >20 To 50, Add</i>	10.86	
<i>For >50 To 100, Add</i>	4.33	
<i>For >500 To 1,000, Deduct</i>	-3.65	
<i>For >1,000, Deduct</i>	-6.19	
<i>For Mountable Or Rolled Curb And Gutter, Add</i>	1.83	
32 16 13 13-0032 LF 6" x 18" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	33.71	12.74
<i>For Up To 20, Add</i>	22.77	
<i>For >20 To 50, Add</i>	12.65	
<i>For >50 To 100, Add</i>	5.06	
<i>For >500 To 1,000, Deduct</i>	-4.23	
<i>For >1,000, Deduct</i>	-7.18	
<i>For Mountable Or Rolled Curb And Gutter, Add</i>	2.08	
32 16 13 13-0033 LF 6" x 18" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	37.21	14.19
<i>For Up To 20, Add</i>	25.15	
<i>For >20 To 50, Add</i>	13.99	
<i>For >50 To 100, Add</i>	5.58	
<i>For >500 To 1,000, Deduct</i>	-4.69	
<i>For >1,000, Deduct</i>	-7.96	
<i>For Mountable Or Rolled Curb And Gutter, Add</i>	2.34	
32 16 13 13-0034 LF 6" x 24" Cast In Place Concrete Gutter With 6" Curb And Face - Straight (Type A3-6)	40.94	15.33
<i>For Up To 20, Add</i>	27.63	
<i>For >20 To 50, Add</i>	15.35	
<i>For >50 To 100, Add</i>	6.14	
<i>For >500 To 1,000, Deduct</i>	-5.11	
<i>For >1,000, Deduct</i>	-8.69	
<i>For Mountable Or Rolled Curb And Gutter, Add</i>	2.50	
32 16 13 13-0035 LF 6" x 24" Cast In Place Concrete Gutter With 6" Curb And Face - Radius (Type A3-6)	45.56	17.25
<i>For Up To 20, Add</i>	30.79	
<i>For >20 To 50, Add</i>	17.12	
<i>For >50 To 100, Add</i>	6.83	
<i>For >500 To 1,000, Deduct</i>	-5.73	
<i>For >1,000, Deduct</i>	-9.73	
<i>For Mountable Or Rolled Curb And Gutter, Add</i>	2.84	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 16 Curbs, Gutters, Sidewalks, and Driveways**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0036 LF 6" x 30" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	48.67	18.21
For Up To 20, Add	32.84	
For >20 To 50, Add	18.24	
For >50 To 100, Add	7.30	
For >500 To 1,000, Deduct	-6.08	
For >1,000, Deduct	-10.33	
For Mountable Or Rolled Curb And Gutter, Add	2.97	
32 16 13 13-0037 LF 6" x 30" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	53.43	20.13
For Up To 20, Add	36.08	
For >20 To 50, Add	20.05	
For >50 To 100, Add	8.01	
For >500 To 1,000, Deduct	-6.70	
For >1,000, Deduct	-11.38	
For Mountable Or Rolled Curb And Gutter, Add	3.30	
32 16 13 13-0038 LF 6" x 36" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	56.38	21.08
For Up To 20, Add	38.04	
For >20 To 50, Add	21.13	
For >50 To 100, Add	8.46	
For >500 To 1,000, Deduct	-7.04	
For >1,000, Deduct	-11.96	
For Mountable Or Rolled Curb And Gutter, Add	3.43	
32 16 13 13-0039 LF 6" x 36" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	61.32	23.00
For Up To 20, Add	41.39	
For >20 To 50, Add	23.00	
For >50 To 100, Add	9.20	
For >500 To 1,000, Deduct	-7.67	
For >1,000, Deduct	-13.03	
For Mountable Or Rolled Curb And Gutter, Add	3.76	
32 16 13 13-0040 LF 6" x 42" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	64.10	23.96
For Up To 20, Add	43.25	
For >20 To 50, Add	24.02	
For >50 To 100, Add	9.62	
For >500 To 1,000, Deduct	-8.00	
For >1,000, Deduct	-13.60	
For Mountable Or Rolled Curb And Gutter, Add	3.90	
32 16 13 13-0041 LF 6" x 42" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	71.12	26.83
For Up To 20, Add	48.04	
For >20 To 50, Add	26.70	
For >50 To 100, Add	10.67	
For >500 To 1,000, Deduct	-8.92	
For >1,000, Deduct	-15.16	
For Mountable Or Rolled Curb And Gutter, Add	4.41	

32 16 13 14 Machine Formed, Slip Form Curbs (32 16 13)

Note: Includes delivered concrete, steel, expansion joints and finish.

32 16 13 14-0001	EA	Curbs, Machine Formed, Slip Form (32 16 13 14)		
		Note: Includes delivered concrete, steel, expansion joints and finish.		
32 16 13 14-0002	EA	Machine Formed Concrete Curb Minimum Set-Up Charge (One Time Per Job)	1,356.79	
		Note: For projects where the total curbing charge is less than the minimum set-up charge, use this task exclusively. This task shall not be used in conjunction with any other tasks in this section.		
32 16 13 14-0003	LF	6" x 12" Straight Concrete Curb, Machine Formed	14.23	
32 16 13 14-0004	LF	6" x 12" Curved Concrete Curb, Machine Formed	18.72	
32 16 13 14-0005	LF	6" x 18" Straight Concrete Curb, Machine Formed	18.91	
32 16 13 14-0006	LF	6" x 18" Curved Concrete Curb, Machine Formed	23.97	

32 16 13 16 Steel Faced Curbs (32 16 13)

Note: Fabrication includes handicap and other curb access cuts.

32 16 13 16-0001	EA	Sidewalk/Curb Facing (32 16 13 16)		
		Note: Fabrication includes handicap and other curb access cuts.		
32 16 13 16-0002	LF	3" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	13.96	4.78
		For Curved Section, Add	3.18	
32 16 13 16-0003	LF	4" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	15.39	5.43
		For Curved Section, Add	3.57	
32 16 13 16-0004	LF	6" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	20.52	6.08
		For Curved Section, Add	4.34	
32 16 13 16-0005	LF	8" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	25.02	6.84
		For Curved Section, Add	5.05	
32 16 13 16-0006	LF	10" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	30.45	7.49
		For Curved Section, Add	5.85	
32 16 13 16-0007	LF	12" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	39.77	9.55
		For Curved Section, Add	7.54	
32 16 13 16-0008	LF	13" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	46.12	12.37
		For Curved Section, Add	9.23	
32 16 13 16-0009	EA	Sidewalk/Curb Steel Facing, Pedestrian Ramps, Two Drops Per Section	141.54	
32 16 13 16-0010	EA	Pedestrian/Handicap Ramp, Complete	111.64	

32 16 13 19 Cast-In-Place Concrete Drainage Ditches (32 16 13)

Note: Includes concrete, forms, rebar (where required), rebar chairs (where necessary), expansion joints, finish and curing.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 19-0001 Valley Gutter, Cast In Place <small>(32 16 13 19)</small>		
<i>Note: Includes concrete, forms, rebar, expansion joints, finish and curing.</i>		
32 16 13 19-0002 LF 2' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	23.01	
<i>For Up To 20, Add</i>	9.87	
<i>For >20 To 50, Add</i>	5.46	
<i>For >50 To 100, Add</i>	2.20	
<i>For >500 To 1,000, Deduct</i>	-2.20	
<i>For >1,000, Deduct</i>	-3.88	
32 16 13 19-0003 LF 2-1/2' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	28.28	
<i>For Up To 20, Add</i>	12.00	
<i>For >20 To 50, Add</i>	6.64	
<i>For >50 To 100, Add</i>	2.68	
<i>For >500 To 1,000, Deduct</i>	-2.68	
<i>For >1,000, Deduct</i>	-4.73	
32 16 13 19-0004 LF 3' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	33.50	
<i>For Up To 20, Add</i>	14.10	
<i>For >20 To 50, Add</i>	7.79	
<i>For >50 To 100, Add</i>	3.15	
<i>For >500 To 1,000, Deduct</i>	-3.15	
<i>For >1,000, Deduct</i>	-5.57	
32 16 13 19-0005 LF 3-1/2' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	38.70	
<i>For Up To 20, Add</i>	16.18	
<i>For >20 To 50, Add</i>	8.93	
<i>For >50 To 100, Add</i>	3.62	
<i>For >500 To 1,000, Deduct</i>	-3.62	
<i>For >1,000, Deduct</i>	-6.40	
32 16 13 19-0006 LF 4' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	43.90	
<i>For Up To 20, Add</i>	18.26	
<i>For >20 To 50, Add</i>	10.08	
<i>For >50 To 100, Add</i>	4.09	
<i>For >500 To 1,000, Deduct</i>	-4.09	
<i>For >1,000, Deduct</i>	-7.23	
32 16 13 19-0007 LF 5' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	52.50	
<i>For Up To 20, Add</i>	21.16	
<i>For >20 To 50, Add</i>	11.65	
<i>For >50 To 100, Add</i>	4.76	
<i>For >500 To 1,000, Deduct</i>	-4.76	
<i>For >1,000, Deduct</i>	-8.45	
32 16 13 19-0008 LF 6' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	60.83	
<i>For Up To 20, Add</i>	23.88	
<i>For >20 To 50, Add</i>	13.11	
<i>For >50 To 100, Add</i>	5.38	
<i>For >500 To 1,000, Deduct</i>	-5.38	
<i>For >1,000, Deduct</i>	-9.60	
32 16 13 19-0009 SF >6' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	10.14	
<i>For Up To 100, Add</i>	3.98	
<i>For >100 To 250, Add</i>	2.18	
<i>For >250 To 500, Add</i>	0.90	
<i>For >2,500 To 5,000, Deduct</i>	-0.90	
<i>For >5,000, Deduct</i>	-1.60	
32 16 13 19-0010 LF 2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	25.45	
<i>For Up To 20, Add</i>	10.64	
<i>For >20 To 50, Add</i>	5.88	
<i>For >50 To 100, Add</i>	2.38	
<i>For >500 To 1,000, Deduct</i>	-2.38	
<i>For >1,000, Deduct</i>	-4.21	
32 16 13 19-0011 LF 2-1/2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	31.48	
<i>For Up To 20, Add</i>	13.07	
<i>For >20 To 50, Add</i>	7.21	
<i>For >50 To 100, Add</i>	2.93	
<i>For >500 To 1,000, Deduct</i>	-2.93	
<i>For >1,000, Deduct</i>	-5.18	
32 16 13 19-0012 LF 3' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	37.13	
<i>For Up To 20, Add</i>	15.23	
<i>For >20 To 50, Add</i>	8.39	
<i>For >50 To 100, Add</i>	3.42	
<i>For >500 To 1,000, Deduct</i>	-3.42	
<i>For >1,000, Deduct</i>	-6.05	
32 16 13 19-0013 LF 3-1/2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	42.92	
<i>For Up To 20, Add</i>	17.49	
<i>For >20 To 50, Add</i>	9.64	
<i>For >50 To 100, Add</i>	3.93	
<i>For >500 To 1,000, Deduct</i>	-3.93	
<i>For >1,000, Deduct</i>	-6.96	
32 16 13 19-0014 LF 4' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	48.71	
<i>For Up To 20, Add</i>	19.75	
<i>For >20 To 50, Add</i>	10.87	
<i>For >50 To 100, Add</i>	4.44	
<i>For >500 To 1,000, Deduct</i>	-4.44	
<i>For >1,000, Deduct</i>	-7.87	
32 16 13 19-0015 LF 5' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	58.39	
<i>For Up To 20, Add</i>	22.93	
<i>For >20 To 50, Add</i>	12.59	
<i>For >50 To 100, Add</i>	5.17	
<i>For >500 To 1,000, Deduct</i>	-5.17	
<i>For >1,000, Deduct</i>	-9.22	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 16 Curbs, Gutters, Sidewalks, and Driveways**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 19-0016	LF		6' Wide Cast In Place Concrete Valley Gutter, 7" Thick	67.77	
			<i>For Up To 20, Add</i>	25.91	
			<i>For >20 To 50, Add</i>	14.19	
			<i>For >50 To 100, Add</i>	5.86	
			<i>For >500 To 1,000, Deduct</i>	-5.86	
			<i>For >1,000, Deduct</i>	-10.49	
32 16 13 19-0017	SF		>6' Wide Cast In Place Concrete Valley Gutter, 7" Thick	11.30	
			<i>For Up To 100, Add</i>	4.32	
			<i>For >100 To 250, Add</i>	2.37	
			<i>For >250 To 500, Add</i>	0.98	
			<i>For >2,500 To 5,000, Deduct</i>	-0.98	
			<i>For >5,000, Deduct</i>	-1.75	
32 16 13 19-0018	LF		2' Wide Cast In Place Concrete Valley Gutter, 8" Thick	25.46	
			<i>For Up To 20, Add</i>	10.93	
			<i>For >20 To 50, Add</i>	6.05	
			<i>For >50 To 100, Add</i>	2.44	
			<i>For >500 To 1,000, Deduct</i>	-2.44	
			<i>For >1,000, Deduct</i>	-4.30	
32 16 13 19-0019	LF		2-1/2' Wide Cast In Place Concrete Valley Gutter, 8" Thick	31.32	
			<i>For Up To 20, Add</i>	13.31	
			<i>For >20 To 50, Add</i>	7.36	
			<i>For >50 To 100, Add</i>	2.98	
			<i>For >500 To 1,000, Deduct</i>	-2.98	
			<i>For >1,000, Deduct</i>	-5.25	
32 16 13 19-0020	LF		3' Wide Cast In Place Concrete Valley Gutter, 8" Thick	37.08	
			<i>For Up To 20, Add</i>	15.62	
			<i>For >20 To 50, Add</i>	8.63	
			<i>For >50 To 100, Add</i>	3.50	
			<i>For >500 To 1,000, Deduct</i>	-3.50	
			<i>For >1,000, Deduct</i>	-6.17	
32 16 13 19-0021	LF		3-1/2' Wide Cast In Place Concrete Valley Gutter, 8" Thick	42.86	
			<i>For Up To 20, Add</i>	17.94	
			<i>For >20 To 50, Add</i>	9.91	
			<i>For >50 To 100, Add</i>	4.02	
			<i>For >500 To 1,000, Deduct</i>	-4.02	
			<i>For >1,000, Deduct</i>	-7.10	
32 16 13 19-0022	LF		4' Wide Cast In Place Concrete Valley Gutter, 8" Thick	48.63	
			<i>For Up To 20, Add</i>	20.26	
			<i>For >20 To 50, Add</i>	11.18	
			<i>For >50 To 100, Add</i>	4.54	
			<i>For >500 To 1,000, Deduct</i>	-4.54	
			<i>For >1,000, Deduct</i>	-8.02	
32 16 13 19-0023	LF		5' Wide Cast In Place Concrete Valley Gutter, 8" Thick	58.15	
32 16 13 19-0024	LF		6' Wide Cast In Place Concrete Valley Gutter, 8" Thick	67.36	
32 16 13 19-0025	SF		>6' Wide Cast In Place Concrete Valley Gutter, 8" Thick	11.23	
			<i>For Up To 100, Add</i>	4.42	
			<i>For >100 To 250, Add</i>	2.43	
			<i>For >250 To 500, Add</i>	1.00	
			<i>For >2,500 To 5,000, Deduct</i>	-1.00	
			<i>For >5,000, Deduct</i>	-1.77	
32 16 13 19-0026			Gutter Intersections <small>(32 16 13 19)</small>		
			Note: Assembly includes installation, concrete, forms, rebar, expansion joints, finish and curing.		
32 16 13 19-0027	EA		Cast In Place Concrete Cross Gutter At T Section	1,180.42	
32 16 13 19-0028	EA		8' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter	1,407.94	
32 16 13 19-0029	EA		10' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter	2,199.91	
32 16 13 19-0030	EA		15' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter	4,949.80	
32 16 13 19-0031	EA		20' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter	8,799.65	
32 16 13 19-0032	EA		25' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter	13,749.45	
32 16 13 19-0033	EA		30' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter	19,799.21	
32 16 13 19-0034			Driveway Approach, Cast In Place <small>(32 16 13 19)</small>		
			Note: Includes concrete, forms, rebar, expansion joints, finish and curing.		
32 16 13 19-0035	SF		4 Cast In Place Concrete Driveway Approach	13.22	
			<i>For Up To 100, Add</i>	5.72	
			<i>For >100 To 500, Add</i>	1.63	
			<i>For >1,000 To 5,000, Deduct</i>	-0.97	
			<i>For >5,000, Deduct</i>	-2.11	
32 16 13 19-0036	SF		6" Cast In Place Concrete Driveway Approach	18.05	
			<i>For Up To 100, Add</i>	7.81	
			<i>For >100 To 500, Add</i>	2.22	
			<i>For >1,000 To 5,000, Deduct</i>	-1.32	
			<i>For >5,000, Deduct</i>	-2.88	
32 16 13 23			Precast Concrete Curbs and Gutters <small>(32 16 13)</small>		
32 16 13 23-0001			Precast Concrete Curb <small>(32 16 13 23)</small>		
32 16 13 23-0002	LF		6" x 18" Precast Concrete Curb	44.27	8.88
32 16 13 23-0003	LF		6" x 18" Precast Concrete Curb, Radius	53.34	10.20
32 16 13 23-0004	LF		6" x 20" Precast Concrete Curb	47.30	8.88
32 16 13 23-0005	LF		6" x 20" Precast Concrete Curb, Radius	57.34	10.20
32 16 13 23-0006	LF		7" x 18" Precast Concrete Curb	48.69	8.88



Exterior Improvements		32
Bases, Ballasts, and Paving		32 10
Curbs, Gutters, Sidewalks, and Driveways		32 16

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 23-0007	LF		7" x 18" Precast Concrete Curb, Radius	58.94	10.20
32 16 13 23-0008	LF		7" x 20" Precast Concrete Curb	52.12	8.88
32 16 13 23-0009	LF		7" x 20" Precast Concrete Curb, Radius	63.30	10.20
32 16 13 33 Asphalt Curbs (32 16 13)					
32 16 13 33-0001			Asphalt Curbs (32 16 13 33)		
32 16 13 33-0002	LF		6" Wide x 6" High Asphalt Curb 64 LF/TON, Bituminous, Plain	12.00	4.88
32 16 13 33-0003	LF		8" Wide x 6" High Asphalt Curb 50 LF/TON, Bituminous, Plain	13.51	5.43
32 16 13 33-0004	LF		8" Wide x 8" High Asphalt Curb 44 LF/TON, Bituminous, Plain	14.89	5.96
32 16 13 43 Stone Curbs (32 16 13)					
32 16 13 43-0001			Remove And Reset Stone And Precast Curbing (32 16 13 43)		
			Note: Includes storage and cleaning.		
32 16 13 43-0002	LF		Removal And Resetting Of Stone Or Precast Curbing.....	34.21	
			Note: Includes storage and cleaning.		
32 16 23 Sidewalks (32 16)					
32 16 23 00-0001			Cast In Place Concrete Sidewalk (32 16 23)		
			Note: Includes finish grading, delivered concrete (up to 3500 PSI) by chute, formwork, 1/4" radius joints and edges, polyethylene sheeting, control joints, expansion joints, screed, broom finish, and curing. Excludes excavation, base, base compaction and welded wire reinforcement. For bar or fiber reinforcing, add bar or fiber reinforcing tasks. See CSI section 03 21 00 00-0000 for reinforcing steel, 03 31 13 00-0081 for buggies, 03 31 13 00-0088 for small quantity purchases, 03 37 16 00-0001 for pumping with boom truck, 31 00 00 00-0000 for excavation, 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course.		
32 16 23 00-0002	SF		4" Cast In Place Concrete Sidewalk.....	9.38	
			For Up To 100, Add	3.89	
			For >100 To 500, Add	1.09	
			For Welded Wire Reinforcement, Add	0.74	
			For >1,000 To 5,000, Deduct	-0.62	
			For >5,000, Deduct	-1.39	
32 16 23 00-0003	SF		5" Cast In Place Concrete Sidewalk.....	10.25	
			For Up To 100, Add	4.16	
			For >100 To 500, Add	1.15	
			For Welded Wire Reinforcement, Add	0.74	
			For >1,000 To 5,000, Deduct	-0.64	
			For >5,000, Deduct	-1.47	
32 16 23 00-0004	SF		6" Cast In Place Concrete Sidewalk.....	11.15	
			For Up To 100, Add	4.44	
			For >100 To 500, Add	1.22	
			For Welded Wire Reinforcement, Add	0.74	
			For >1,000 To 5,000, Deduct	-0.66	
			For >5,000, Deduct	-1.55	
32 16 23 00-0005	SF		7" Cast In Place Concrete Sidewalk.....	13.10	
			For Up To 100, Add	5.15	
			For >100 To 500, Add	1.41	
			For Welded Wire Reinforcement, Add	0.74	
			For >1,000 To 5,000, Deduct	-0.75	
			For >5,000, Deduct	-1.78	
32 16 23 00-0006	SF		8" Cast In Place Concrete Sidewalk.....	13.89	
			For Up To 100, Add	5.38	
			For >100 To 500, Add	1.46	
			For Welded Wire Reinforcement, Add	0.74	
			For >1,000 To 5,000, Deduct	-0.76	
			For >5,000, Deduct	-1.84	
32 16 23 00-0007	SF		For Exposed Aggregate Finish In Sidewalk	2.20	
32 16 23 00-0008	EA		Finish Concrete Handicap Drop Section In Sidewalk.....	131.89	
			Note: Excludes patterned (tactile) finish.		
32 16 23 00-0009			Bituminous Sidewalk (32 16 23)		
			Note: Includes finish grading, delivered asphalt, formwork, control joints, expansion joints, and compaction. Excludes excavation, base, and base compaction. See CSI section 31 00 00 00-0000 for excavation, 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course.		
32 16 23 00-0010	SY		1" Bituminous Sidewalk.....	8.63	
			For Up To 100, Add	3.18	
			For >100 To 500, Add	0.84	
			For >1,000 To 5,000, Deduct	-0.41	
			For >5,000, Deduct	-0.84	
32 16 23 00-0011	SY		1-1/2" Bituminous Sidewalk	10.84	
			For Up To 100, Add	3.94	
			For >100 To 500, Add	1.03	
			For >1,000 To 5,000, Deduct	-0.49	
			For >5,000, Deduct	-1.03	
32 16 23 00-0012	SY		2" Bituminous Sidewalk.....	15.13	
			For Up To 100, Add	5.31	
			For >100 To 500, Add	1.37	
			For >1,000 To 5,000, Deduct	-0.61	
			For >5,000, Deduct	-1.37	

32	Exterior Improvements
32 10	Bases, Ballasts, and Paving
32 16	Curbs, Gutters, Sidewalks, and Driveways



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 23 00-0013 SY 2-1/2" Bituminous Sidewalk.....	18.91	
For Up To 100, Add	6.62	
For >100 To 500, Add	1.70	
For >1,000 To 5,000, Deduct	-0.76	
For >5,000, Deduct	-1.70	
32 16 23 00-0014 SY 3" Bituminous Sidewalk.....	21.82	
For Up To 100, Add	7.50	
For >100 To 500, Add	1.91	
For >1,000 To 5,000, Deduct	-0.82	
For >5,000, Deduct	-1.91	
32 16 23 00-0015 SY 3-1/2" Bituminous Sidewalk.....	25.25	
For Up To 100, Add	8.57	
For >100 To 500, Add	2.16	
For >1,000 To 5,000, Deduct	-0.90	
For >5,000, Deduct	-2.16	
32 16 43 Asphalt Dike (32 16)		
32 16 43 00-0001 Asphalt Dike (32 16-43)		
32 16 43 00-0002 LF Type A, Asphalt Dike, 11" Base, 5" Top, 6" Height	6.45	
32 16 43 00-0003 LF Type B, Asphalt Dike, 13" Base, 5" Top, 8" Height	8.86	
32 16 43 00-0004 LF Type C-6, Asphalt Dike, 18" Base, 6" Top, 6" Height	8.86	
32 16 43 00-0005 LF Type C-8, Asphalt Dike, 22" Base, 6" Top, 8" Height	12.70	
32 16 43 00-0006 LF Type C-9, Asphalt Dike, 24" Base, 6" Top, 9" Height	15.04	
32 16 43 00-0007 LF Type D, Asphalt Dike, 8" Base, 4" Top, 2" Height	3.37	
32 16 43 00-0008 LF Type E, Mountable Asphalt Dike, 16" Base, 12" Top, 2" Height Front, 6" Height Back	9.20	
32 16 43 00-0009 LF Type F, Mountable Asphalt Dike, 26" Base, 20" Top, 2" Height Front, 8" Height Back	14.20	
32 16 43 00-0010 LF CALTRANS Type A, Asphalt Dike, 11" Base, 5" Top, 6" Height	6.45	
32 16 43 00-0011 LF CALTRANS Type C, Asphalt Dike, 8" Base, 4" Top, 2" Height	3.37	
32 16 43 00-0012 LF CALTRANS Type D, Mountable Asphalt Dike, 26" Base, 20" Top, 2" Height Front, 8" Height Back.....	14.20	
32 16 43 00-0013 LF CALTRANS Type E, Mountable Asphalt Dike, 16" Base, 12" Top, 2" Height Front, 6" Height Back.....	9.20	
32 16 43 00-0014 LF CALTRANS Type F, Asphalt Dike, 8" Base, 4" Top, 4" Height	4.95	
32 17 Paving Specialties (32 10)		
32 17 13 Parking Bumpers (32 17)		
Note: Includes dowels set.		
32 17 13 16 Plastic Parking Bumpers (32 17 13)		
32 17 13 16-0001 EA 4" x 6" x 4' Recycled Plastic Wheel Stop.....	89.79	6.27
32 17 13 16-0002 EA 4" x 6" x 6' Recycled Plastic Wheel Stop.....	100.94	6.27
32 17 13 19 Precast Concrete Parking Bumpers (32 17 13)		
32 17 13 19-0001 EA 6" x 8" x 4' Precast Concrete Wheel Stop With Dowels	43.70	18.88
32 17 13 19-0002 EA 6" x 6" x 6' Precast Concrete Wheel Stop With Dowels	50.50	18.88
32 17 13 19-0003 EA 6" x 8" x 6' Precast Concrete Wheel Stop With Dowels	51.47	18.88
32 17 13 19-0004 EA 6" x 10" x 6' Precast Concrete Wheel Stop With Dowels	53.48	18.88
32 17 13 19-0005 EA 8" x 4-1/2" x 6' Precast Concrete Wheel Stop With Dowels	50.50	18.88
32 17 13 19-0006 EA 8" x 13" x 6' Precast Concrete Wheel Stop With Dowels	61.57	18.88
32 17 13 19-0007 EA 8" x 12" x 8' Precast Concrete Wheel Stop With Dowels	127.30	20.40
32 17 13 19-0008 EA Removal And Relocation Of Precast Concrete Wheel Stop.....	30.22	
32 17 13 19-0009 EA Removal And Relocation Of Plastic Or Wood Wheel Stop.....	19.65	
32 17 13 19-0010 EA 7.625" x 7.625" x 6' Precast Concrete Wheel Stop	89.49	18.88
32 17 13 19-0011 EA 7.625" x 7.625" x 8' Precast Concrete Wheel Stop	130.98	18.88
32 17 13 23 Rubber Parking Bumpers (32 17 13)		
32 17 13 23-0001 EA 3' Recycled Rubber Wheel Stop	26.69	6.27
32 17 13 23-0002 EA 4' Recycled Rubber Wheel Stop	31.07	6.27
32 17 13 23-0003 EA 5' Recycled Rubber Wheel Stop	32.83	6.27
32 17 13 23-0004 EA 6' Recycled Rubber Wheel Stop	35.46	6.27
32 17 13 26 Wood Parking Bumpers (32 17 13)		
32 17 13 26-0001 LF 4" x 4" Timber Barrier With Saddles For Cars, Pressure Treated	13.29	1.51
32 17 13 26-0002 LF 6" x 6" Timber Barriers With Saddle For Trucks, Pressure Treated	20.10	1.51
32 17 16 Manufactured Traffic-Calming Devices (32 17)		
32 17 16 00-0001 Modular Rubber Speed Tables (32 17 16)		
Note: 3" high flat topped speed humps, 18" x 42" modular rubber construction. Trafficlogix.		
32 17 16 00-0002 SF Up To 24' Road Width x 7' Run Modular Rubber Speed Table	52.07	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0003 SF Up To 24' Road Width x 14' Run Modular Rubber Speed Table	45.47	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 16 00-0004 SF Up To 24' Road Width x 21' Run Modular Rubber Speed Table.....	42.59	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0005 SF >24' To 30' Road Width x 7' Run Modular Rubber Speed Table.....	49.80	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0006 SF >24' To 30' Road Width x 14' Run Modular Rubber Speed Table.....	43.71	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0007 SF >24' To 30' Road Width x 21' Run Modular Rubber Speed Table.....	41.14	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0008 SF >30' To 40' Road Width x 7' Run Modular Rubber Speed Table.....	47.50	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0009 SF >30' To 40' Road Width x 14' Run Modular Rubber Speed Table.....	42.33	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0010 SF >30' To 40' Road Width x 21' Run Modular Rubber Speed Table.....	39.93	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0011 Asphalt Speed Table (32 17 16)		
Note: Excludes pavement markings or reflectors.		
32 17 16 00-0012 LF Up to 36" Wide Asphalt Speed Table With 3" Center Crown	32.27	
Note: Tapered on edges to roadway.		
32 17 16 00-0013 LF >36" To 48" Wide Asphalt Speed Table With 3" Center Crown	38.11	
Note: Tapered on edges to roadway.		
32 17 16 00-0014 LF Up to 36" Wide Asphalt Speed Table With 4" Center Crown	40.57	
Note: Tapered on edges to roadway.		
32 17 16 00-0015 LF >36" To 48" Wide Asphalt Speed Table With 4" Center Crown	47.94	
Note: Tapered on edges to roadway.		
32 17 16 00-0016 LF Up to 36" Wide Asphalt Speed Table With 6" Center Crown	49.47	
Note: Tapered on edges to roadway.		
32 17 16 00-0017 LF >36" To 48" Wide Asphalt Speed Table With 6" Center Crown	55.32	
Note: Tapered on edges to roadway.		
32 17 16 00-0018 Speed Bumps (32 17 16)		
Note: Excludes pavement markings or reflectors.		
32 17 16 00-0019 LF 2-1/4" High x 10-1/2" Wide, Asphalt Speed Bump	34.01	1.63
32 17 16 00-0020 LF 2-1/4" High x 12" Wide, Recycled Rubber Speed Bump	26.15	1.08
32 17 16 00-0021 LF 2-5/8" High x 12" Wide, Recycled Plastic Speed Bump	57.54	1.08
32 17 23 Pavement Markings (32 17)		
32 17 23 13 Painted Pavement Markings (32 17 23)		
32 17 23 13-0001 Pavement Striping Minimum Charge (32 17 23 13)		
32 17 23 13-0002 EA Pavement Striping Minimum Charge	369.42	
32 17 23 13-0003 Striping, Letters, Symbols And Markers for Roads And Airports (32 17 23 13)		
Note: Includes primers, adhesive and glass beads where required. For broken line quantities use total lane length. Per Coat.		
32 17 23 13-0004 Epoxy Reflective Pavement Marking (32 17 23 13-0003)		
Note: 15 mil thickness.		
32 17 23 13-0005 LF Single 4" Wide Solid Line, Epoxy Reflective Pavement Striping	0.47	
For 20 Mil Thickness, Add 0.09		
For Up To 5,000 LF, Add 0.09		
For >25,000 LF, Deduct -0.07		
For Broken Line (25% Solid), Deduct -0.19		
32 17 23 13-0006 LF Single 6" Wide Solid Line, Epoxy Reflective Pavement Striping	0.64	
For 20 Mil Thickness, Add 0.14		
For Up To 5,000 LF, Add 0.13		
For >25,000 LF, Deduct -0.10		
For Broken Line (25% Solid), Deduct -0.28		
32 17 23 13-0007 LF Single 8" Wide Solid Line, Epoxy Reflective Pavement Striping	0.79	
For 20 Mil Thickness, Add 0.17		
For Up To 5,000 LF, Add 0.16		
For >25,000 LF, Deduct -0.12		
For Broken Line (25% Solid), Deduct -0.34		
32 17 23 13-0008 LF Single 12" Wide Solid Line, Epoxy Reflective Pavement Striping	1.17	
For 20 Mil Thickness, Add 0.27		
For Up To 5,000 LF, Add 0.23		
For >25,000 LF, Deduct -0.18		
For Broken Line (25% Solid), Deduct -0.55		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0009	LF		Double 4" Wide Solid Lines, Epoxy Reflective Pavement Striping	0.71	
			<i>For 20 Mil Thickness, Add</i>	0.17	
			<i>For Up To 5,000 LF, Add</i>	0.14	
			<i>For >25,000 LF, Deduct</i>	-0.11	
			<i>For Broken Line On One Side, Deduct</i>	-0.18	
			<i>For Double Broken Line, Deduct</i>	-0.37	
32 17 23 13-0010	LF		Double 6" Wide Solid Lines, Epoxy Reflective Pavement Striping	1.00	
			<i>For 20 Mil Thickness, Add</i>	0.26	
			<i>For Up To 5,000 LF, Add</i>	0.20	
			<i>For >25,000 LF, Deduct</i>	-0.15	
			<i>For Broken Line On One Side, Deduct</i>	-0.27	
			<i>For Double Broken Line, Deduct</i>	-0.55	
32 17 23 13-0011	SF		Solid Area, Epoxy Reflective Pavement Marking	6.85	
			Note: Use this task for: lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
			<i>For 20 Mil Thickness, Add</i>	0.71	
32 17 23 13-0012	EA		6" High, Letter/Number, Epoxy Reflective Pavement Marking	4.31	
			<i>For 20 Mil Thickness, Add</i>	0.36	
			<i>For <10, Add</i>	0.57	
			<i>For >50 To 100, Deduct</i>	-0.28	
			<i>For >100 To 200, Deduct</i>	-0.38	
			<i>For >200, Deduct</i>	-0.76	
32 17 23 13-0013	EA		12" High, Letter/Number, Epoxy Reflective Pavement Marking	7.62	
			<i>For 20 Mil Thickness, Add</i>	0.92	
			<i>For <10, Add</i>	0.86	
			<i>For >50 To 100, Deduct</i>	-0.43	
			<i>For >100 To 200, Deduct</i>	-0.57	
			<i>For >200, Deduct</i>	-1.15	
32 17 23 13-0014	EA		24" High, Letter/Number, Epoxy Reflective Pavement Marking	12.82	
			<i>For 20 Mil Thickness, Add</i>	1.58	
			<i>For <10, Add</i>	1.43	
			<i>For >50 To 100, Deduct</i>	-0.71	
			<i>For >100 To 200, Deduct</i>	-0.95	
			<i>For >200, Deduct</i>	-1.90	
32 17 23 13-0015	EA		36" High, Letter/Number, Epoxy Reflective Pavement Marking	24.83	
			<i>For 20 Mil Thickness, Add</i>	2.89	
			<i>For <10, Add</i>	2.85	
			<i>For >50 To 100, Deduct</i>	-1.43	
			<i>For >100 To 200, Deduct</i>	-1.90	
			<i>For >200, Deduct</i>	-3.80	
32 17 23 13-0016	EA		48" High, Letter/Number, Epoxy Reflective Pavement Marking	28.89	
			<i>For 20 Mil Thickness, Add</i>	3.59	
			<i>For <10, Add</i>	3.20	
			<i>For >50 To 100, Deduct</i>	-1.60	
			<i>For >100 To 200, Deduct</i>	-2.13	
			<i>For >200, Deduct</i>	-4.27	
32 17 23 13-0017	EA		72" High, Letter/Number, Epoxy Reflective Pavement Marking	51.76	
			<i>For 20 Mil Thickness, Add</i>	6.50	
			<i>For <10, Add</i>	5.69	
			<i>For >50 To 100, Deduct</i>	-2.85	
			<i>For >100 To 200, Deduct</i>	-3.80	
			<i>For >200, Deduct</i>	-7.59	
32 17 23 13-0018	EA		96" High, Letter/Number, Epoxy Reflective Pavement Marking	69.14	
			<i>For 20 Mil Thickness, Add</i>	8.60	
			<i>For <10, Add</i>	7.65	
			<i>For >50 To 100, Deduct</i>	-3.82	
			<i>For >100 To 200, Deduct</i>	-5.10	
			<i>For >200, Deduct</i>	-10.19	
32 17 23 13-0019	EA		120" High, Letter/Number, Epoxy Reflective Pavement Marking	103.70	
			<i>For 20 Mil Thickness, Add</i>	16.67	
			<i>For <10, Add</i>	9.47	
			<i>For >50 To 100, Deduct</i>	-4.74	
			<i>For >100 To 200, Deduct</i>	-6.32	
			<i>For >200, Deduct</i>	-12.63	
32 17 23 13-0020	SF		Letter/Number, Epoxy Reflective Pavement Marking	7.04	
			<i>For 20 Mil Thickness, Add</i>	0.72	
32 17 23 13-0021	SF		Symbols, Epoxy Reflective Pavement Marking	8.97	
			Note: Handicap, railroad, diamond, arrows, etc.		
32 17 23 13-0022			Alkyd/Solvent Based/Latex Reflective Pavement Marking <small>(32 17 23 13-0003)</small>		
			Note: 15 mil thickness.		
32 17 23 13-0023	LF		Single 4" Wide Solid Line, Painted Reflective Pavement Striping	0.28	
			Note: Includes solvent based and latex paints.		
			<i>For Up To 5,000 LF, Add</i>	0.06	
			<i>For >25,000 LF, Deduct</i>	-0.04	
			<i>For Broken Line (25% Solid), Deduct</i>	-0.05	
32 17 23 13-0024	LF		Single 6" Wide Solid Line, Painted Reflective Pavement Striping	0.37	
			Note: Includes solvent based and latex paints.		
			<i>For Up To 5,000 LF, Add</i>	0.07	
			<i>For >25,000 LF, Deduct</i>	-0.06	
			<i>For Broken Line (25% Solid), Deduct</i>	-0.08	
32 17 23 13-0025	LF		Single 8" Wide Solid Line, Painted Reflective Pavement Striping	0.46	
			Note: Includes solvent based and latex paints.		
			<i>For Up To 5,000 LF, Add</i>	0.09	
			<i>For >25,000 LF, Deduct</i>	-0.07	
			<i>For Broken Line (25% Solid), Deduct</i>	-0.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0026 LF Single 12" Wide Solid Line, Painted Reflective Pavement Striping.....	0.62	
Note: Includes solvent based and latex paints.		
For Up To 5,000 LF, Add	0.12	
For >25,000 LF, Deduct	-0.09	
For Broken Line (25% Solid), Deduct	-0.14	
32 17 23 13-0027 LF Double 4" Wide Solid Lines, Painted Reflective Pavement Striping.....	0.41	
For Up To 5,000 LF, Add	0.08	
For >25,000 LF, Deduct	-0.06	
For Broken Line On One Side, Deduct	-0.05	
For Double Broken Line, Deduct	-0.09	
32 17 23 13-0028 LF Double 6" Wide Solid Lines, Painted Reflective Pavement Striping.....	0.61	
For Up To 5,000 LF, Add	0.12	
For >25,000 LF, Deduct	-0.09	
For Broken Line On One Side, Deduct	-0.07	
For Double Broken Line, Deduct	-0.14	
32 17 23 13-0029 SF Solid Area, Painted Reflective Pavement Striping	5.72	
Note: Use this task for: lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
32 17 23 13-0030 EA 6" (15 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	4.09	
Note: Includes solvent based and latex paints.		
For <10, Add	0.57	
For >50 To 100, Deduct	-0.28	
For >100 To 200, Deduct	-0.38	
For >200, Deduct	-0.76	
32 17 23 13-0031 EA 12" (31 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	6.83	
Note: Includes solvent based and latex paints.		
For <10, Add	0.86	
For >50 To 100, Deduct	-0.43	
For >100 To 200, Deduct	-0.57	
For >200, Deduct	-1.15	
32 17 23 13-0032 EA 24" (61 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	11.43	
Note: Includes solvent based and latex paints.		
For <10, Add	1.43	
For >50 To 100, Deduct	-0.71	
For >100 To 200, Deduct	-0.95	
For >200, Deduct	-1.90	
32 17 23 13-0033 EA 36" (91 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	22.39	
Note: Includes solvent based and latex paints.		
For <10, Add	2.85	
For >50 To 100, Deduct	-1.43	
For >100 To 200, Deduct	-1.90	
For >200, Deduct	-3.80	
32 17 23 13-0034 EA 48" (122 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	25.71	
Note: Includes solvent based and latex paints.		
For <10, Add	3.20	
For >50 To 100, Deduct	-1.60	
For >100 To 200, Deduct	-2.13	
For >200, Deduct	-4.27	
32 17 23 13-0035 EA 72" (183 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	45.96	
Note: Includes solvent based and latex paints.		
For <10, Add	5.69	
For >50 To 100, Deduct	-2.85	
For >100 To 200, Deduct	-3.80	
For >200, Deduct	-7.59	
32 17 23 13-0036 EA 96" (244 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	61.51	
Note: Includes solvent based and latex paints.		
For <10, Add	7.65	
For >50 To 100, Deduct	-3.82	
For >100 To 200, Deduct	-5.10	
For >200, Deduct	-10.19	
32 17 23 13-0037 EA 120" (305 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	86.67	
Note: Includes solvent based and latex paints.		
For <10, Add	9.47	
For >50 To 100, Deduct	-4.74	
For >100 To 200, Deduct	-6.32	
For >200, Deduct	-12.63	
32 17 23 13-0038 SF Letter/Number, Painted Reflective Pavement Marking.....	6.49	
Note: Includes solvent based and latex paints.		
32 17 23 13-0039 SF Symbols, Painted Reflective Pavement Marking.....	7.77	
Note: Handicap, railroad, diamond, arrows, etc. Includes solvent based and latex paints.		
32 17 23 13-0040 Pavement Marking (CALTRANS) (32 17 23 13)		
Note: Per LF of detail.		
32 17 23 13-0041 LF CALTRANS Detail 1 Centerline, Painted Reflective Pavement Striping.....	0.24	
For Up To 5,000 LF, Add	0.05	
For >25,000 LF, Deduct	-0.04	
32 17 23 13-0042 LF CALTRANS Detail 2 Centerline, Painted Reflective Pavement Striping.....	0.34	
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.05	
32 17 23 13-0043 LF CALTRANS Detail 4 Centerline	0.58	
For Up To 5,000 LF, Add	0.12	
For >25,000 LF, Deduct	-0.09	
32 17 23 13-0044 LF CALTRANS Detail 5 Centerline, Painted Reflective Pavement Striping.....	0.24	
For Up To 5,000 LF, Add	0.05	
For >25,000 LF, Deduct	-0.04	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0045 LF CALTRANS Detail 6 Centerline, Painted Reflective Pavement Striping.....	0.34	
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.05	
32 17 23 13-0046 LF CALTRANS Detail 7 Centerline.....	0.43	
For Up To 5,000 LF, Add	0.09	
For >25,000 LF, Deduct	-0.06	
32 17 23 13-0047 LF CALTRANS Detail 8 Lanelines, Painted Reflective Pavement Striping.....	0.24	
For Up To 5,000 LF, Add	0.05	
For >25,000 LF, Deduct	-0.04	
32 17 23 13-0048 LF CALTRANS Detail 9 Lanelines, Painted Reflective Pavement Striping.....	0.34	
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.05	
32 17 23 13-0049 LF CALTRANS Detail 10 Lanelines.....	0.58	
For Up To 5,000 LF, Add	0.12	
For >25,000 LF, Deduct	-0.09	
32 17 23 13-0050 LF CALTRANS Detail 11 Lanelines, Painted Reflective Pavement Striping.....	0.24	
For Up To 5,000 LF, Add	0.05	
For >25,000 LF, Deduct	-0.04	
32 17 23 13-0051 LF CALTRANS Detail 12 Lanelines, Painted Reflective Pavement Striping.....	0.33	
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.05	
32 17 23 13-0052 LF CALTRANS Detail 13 Lanelines.....	0.43	
For Up To 5,000 LF, Add	0.09	
For >25,000 LF, Deduct	-0.06	
32 17 23 13-0053 LF CALTRANS Detail 14 Lanelines.....	0.43	
For Up To 5,000 LF, Add	0.09	
For >25,000 LF, Deduct	-0.06	
32 17 23 13-0054 LF CALTRANS Detail 14A Lanelines, Painted Reflective Pavement Striping	0.33	
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.05	
32 17 23 13-0055 LF CALTRANS Detail 15 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.31	
For Up To 5,000 LF, Add	0.06	
For >25,000 LF, Deduct	-0.05	
For Broken Line On One Side, Deduct	-0.03	
For Double Broken Line, Deduct	-0.07	
32 17 23 13-0056 LF CALTRANS Detail 16 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.70	
For Up To 5,000 LF, Add	0.14	
For >25,000 LF, Deduct	-0.11	
32 17 23 13-0057 LF CALTRANS Detail 17 No Passing Zones-One Direction Lanelines	1.71	
For Up To 5,000 LF, Add	0.34	
For >25,000 LF, Deduct	-0.26	
32 17 23 13-0058 LF CALTRANS Detail 18 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.31	
For Up To 5,000 LF, Add	0.06	
For >25,000 LF, Deduct	-0.05	
For Broken Line On One Side, Deduct	-0.03	
For Double Broken Line, Deduct	-0.07	
32 17 23 13-0059 LF CALTRANS Detail 19 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.60	
For Up To 5,000 LF, Add	0.12	
For >25,000 LF, Deduct	-0.09	
32 17 23 13-0060 LF CALTRANS Detail 20 No Passing Zones-One Direction Lanelines	1.45	
For Up To 5,000 LF, Add	0.29	
For >25,000 LF, Deduct	-0.22	
32 17 23 13-0061 LF CALTRANS Detail 21 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping	0.36	
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.05	
For Broken Line On One Side, Deduct	-0.05	
For Double Broken Line, Deduct	-0.11	
32 17 23 13-0062 LF CALTRANS Detail 22 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping	0.75	
For Up To 5,000 LF, Add	0.15	
For >25,000 LF, Deduct	-0.11	
32 17 23 13-0063 LF CALTRANS Detail 23 No Passing Zones-Two Direction Lanelines	2.03	
For Up To 5,000 LF, Add	0.41	
For >25,000 LF, Deduct	-0.30	
32 17 23 13-0064 LF CALTRANS Detail 24 Left Edgelines, Painted Reflective Pavement Striping	0.29	
For Up To 5,000 LF, Add	0.06	
For >25,000 LF, Deduct	-0.04	
32 17 23 13-0065 LF CALTRANS Detail 25 Left Edgelines, Painted Reflective Pavement Striping	0.39	
For Up To 5,000 LF, Add	0.08	
For >25,000 LF, Deduct	-0.06	
32 17 23 13-0066 LF CALTRANS Detail 25A Left Edgelines, Painted Reflective Pavement Striping.....	0.48	
For Up To 5,000 LF, Add	0.10	
For >25,000 LF, Deduct	-0.07	
32 17 23 13-0067 LF CALTRANS Detail 26 Left Edgelines	0.10	
For Up To 5,000 LF, Add	0.02	
For >25,000 LF, Deduct	-0.02	
32 17 23 13-0068 LF CALTRANS Detail 27 Left Edgelines, Painted Reflective Pavement Striping	0.46	
For Up To 5,000 LF, Add	0.09	
For >25,000 LF, Deduct	-0.07	
32 17 23 13-0069 LF CALTRANS Detail 27B Right Edgelines, Painted Reflective Pavement Striping	0.29	
For Up To 5,000 LF, Add	0.06	
For >25,000 LF, Deduct	-0.04	
32 17 23 13-0070 LF CALTRANS Detail 27C Right Edgeline Extension Through Intersections, Painted Reflective Pavement Striping.....	0.23	
For Up To 5,000 LF, Add	0.05	
For >25,000 LF, Deduct	-0.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0071 LF CALTRANS Detail 28 Median Islands, Painted Reflective Pavement Striping.....	0.73	
<i>For Up To 5,000 LF, Add</i>	0.15	
<i>For >25,000 LF, Deduct</i>	-0.11	
<i>For Broken Line On One Side, Deduct</i>	-0.11	
<i>For Double Broken Line, Deduct</i>	-0.22	
32 17 23 13-0072 LF CALTRANS Detail 29 Median Islands, Painted Reflective Pavement Striping.....	1.12	
<i>For Up To 5,000 LF, Add</i>	0.22	
<i>For >25,000 LF, Deduct</i>	-0.17	
32 17 23 13-0073 LF CALTRANS Detail 30 Median Islands.....	4.08	
<i>For Up To 5,000 LF, Add</i>	0.82	
<i>For >25,000 LF, Deduct</i>	-0.61	
32 17 23 13-0074 LF CALTRANS Detail 31 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping.....	0.62	
<i>For Up To 5,000 LF, Add</i>	0.12	
<i>For >25,000 LF, Deduct</i>	-0.09	
<i>For Broken Line On One Side, Deduct</i>	-0.07	
<i>For Double Broken Line, Deduct</i>	-0.14	
32 17 23 13-0075 LF CALTRANS Detail 32 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping.....	1.10	
<i>For Up To 5,000 LF, Add</i>	0.22	
<i>For >25,000 LF, Deduct</i>	-0.17	
32 17 23 13-0076 LF CALTRANS Detail 33 Two-Way Left Turn Lanes.....	2.79	
<i>For Up To 5,000 LF, Add</i>	0.56	
<i>For >25,000 LF, Deduct</i>	-0.42	
32 17 23 13-0077 LF CALTRANS Detail 34 Intersection Treatments, Painted Reflective Pavement Striping	0.60	
<i>For Up To 5,000 LF, Add</i>	0.12	
<i>For >25,000 LF, Deduct</i>	-0.09	
32 17 23 13-0078 LF CALTRANS Detail 34A Intersection Treatments, Painted Reflective Pavement Striping.....	0.31	
<i>For Up To 5,000 LF, Add</i>	0.06	
<i>For >25,000 LF, Deduct</i>	-0.05	
32 17 23 13-0079 LF CALTRANS Detail 35 Intersection Treatments, Painted Reflective Pavement Striping	0.71	
<i>For Up To 5,000 LF, Add</i>	0.14	
<i>For >25,000 LF, Deduct</i>	-0.11	
32 17 23 13-0080 LF CALTRANS Detail 35A Intersection Treatments, Painted Reflective Pavement Striping.....	0.31	
<i>For Up To 5,000 LF, Add</i>	0.06	
<i>For >25,000 LF, Deduct</i>	-0.05	
32 17 23 13-0081 LF CALTRANS Detail 36 Exit Ramp Neutral Area (Gore) Treatment, Painted Reflective Pavement Striping.....	1.30	
<i>For Up To 5,000 LF, Add</i>	0.26	
<i>For >25,000 LF, Deduct</i>	-0.20	
32 17 23 13-0082 LF CALTRANS Detail 36A Entrance Ramp Neutral Area (Merge) Treatment, Painted Reflective Pavement Striping.....	0.87	
<i>For Up To 5,000 LF, Add</i>	0.17	
<i>For >25,000 LF, Deduct</i>	-0.13	
32 17 23 13-0083 LF CALTRANS Detail 36B Entrance Ramp Neutral Area (Acceleration Lane) Treatment, Painted Reflective Pavement Striping	0.93	
<i>For Up To 5,000 LF, Add</i>	0.19	
<i>For >25,000 LF, Deduct</i>	-0.14	
32 17 23 13-0084 LF CALTRANS Detail 37 Lane Drop At Exit Ramps, Painted Reflective Pavement Striping	0.80	
<i>For Up To 5,000 LF, Add</i>	0.16	
<i>For >25,000 LF, Deduct</i>	-0.12	
32 17 23 13-0085 LF CALTRANS Detail 37A Lane Drop At Exit Ramps	1.36	
<i>For Up To 5,000 LF, Add</i>	0.27	
<i>For >25,000 LF, Deduct</i>	-0.20	
32 17 23 13-0086 LF CALTRANS Detail 37B Lane Drop At Intersections, Painted Reflective Pavement Striping	0.80	
<i>For Up To 5,000 LF, Add</i>	0.16	
<i>For >25,000 LF, Deduct</i>	-0.12	
32 17 23 13-0087 LF CALTRANS Detail 37C Lane Drop At Intersections.....	1.36	
<i>For Up To 5,000 LF, Add</i>	0.27	
<i>For >25,000 LF, Deduct</i>	-0.20	
32 17 23 13-0088 LF CALTRANS Detail 38 Channelizing Line, Painted Reflective Pavement Striping	0.78	
<i>For Up To 5,000 LF, Add</i>	0.16	
<i>For >25,000 LF, Deduct</i>	-0.12	
32 17 23 13-0089 LF CALTRANS Detail 38A Channelizing Line, Painted Reflective Pavement Striping	0.59	
<i>For Up To 5,000 LF, Add</i>	0.12	
<i>For >25,000 LF, Deduct</i>	-0.09	
32 17 23 13-0090 LF CALTRANS Detail 38B Channelizing Line, Painted Reflective Pavement Striping	0.98	
<i>For Up To 5,000 LF, Add</i>	0.20	
<i>For >25,000 LF, Deduct</i>	-0.15	
32 17 23 13-0091 LF CALTRANS Detail 38C Channelizing Line.....	2.03	
<i>For Up To 5,000 LF, Add</i>	0.41	
<i>For >25,000 LF, Deduct</i>	-0.30	
32 17 23 13-0092 LF CALTRANS Detail 39 Bike Lane Line, Painted Reflective Pavement Striping	0.36	
<i>For Up To 5,000 LF, Add</i>	0.07	
<i>For >25,000 LF, Deduct</i>	-0.05	
32 17 23 13-0093 LF CALTRANS Detail 39A Intersection Line Bike Lane, Painted Reflective Pavement Striping	0.30	
<i>For Up To 5,000 LF, Add</i>	0.06	
<i>For >25,000 LF, Deduct</i>	-0.05	
32 17 23 13-0094 LF CALTRANS Detail 40 Lane Line Extensions Through Intersections, Painted Reflective Pavement Striping	0.23	
<i>For Up To 5,000 LF, Add</i>	0.05	
<i>For >25,000 LF, Deduct</i>	-0.03	
32 17 23 13-0095 LF CALTRANS Detail 40A Lane Line Extensions Through Intersections.....	0.99	
<i>For Up To 5,000 LF, Add</i>	0.20	
<i>For >25,000 LF, Deduct</i>	-0.15	
32 17 23 13-0096 LF CALTRANS Detail 41 Center Line Extensions Through Intersections, Painted Reflective Pavement Striping	0.23	
<i>For Up To 5,000 LF, Add</i>	0.05	
<i>For >25,000 LF, Deduct</i>	-0.03	
32 17 23 13-0097 LF CALTRANS Detail 41A Center Line Extensions Through Intersections.....	0.99	
<i>For Up To 5,000 LF, Add</i>	0.20	
<i>For >25,000 LF, Deduct</i>	-0.15	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0098 EA CALTRANS 10' Arrow, Type I, Painted Reflective Pavement Marking	103.41	
For <10, Add	13.85	
For >50 To 100, Deduct	-6.92	
For >100 To 200, Deduct	-9.23	
For >200, Deduct	-18.47	
32 17 23 13-0099 EA CALTRANS 18' Arrow, Type I, Painted Reflective Pavement Marking	181.36	
For <10, Add	24.24	
For >50 To 100, Deduct	-12.12	
For >100 To 200, Deduct	-16.16	
For >200, Deduct	-32.32	
32 17 23 13-0100 EA CALTRANS 24' Arrow, Type I, Painted Reflective Pavement Marking	227.66	
For <10, Add	30.47	
For >50 To 100, Deduct	-15.23	
For >100 To 200, Deduct	-20.31	
For >200, Deduct	-40.63	
32 17 23 13-0101 EA CALTRANS 24' Arrow With Single (L or R) Turn Arrow, Type II, Painted Reflective Pavement Marking.....	331.06	
For <10, Add	44.32	
For >50 To 100, Deduct	-22.16	
For >100 To 200, Deduct	-29.55	
For >200, Deduct	-59.09	
32 17 23 13-0102 EA CALTRANS 24' Arrow With Both (L and R) Turn Arrows, Type II, Painted Reflective Pavement Marking.....	434.48	
For <10, Add	58.17	
For >50 To 100, Deduct	-29.09	
For >100 To 200, Deduct	-38.78	
For >200, Deduct	-77.56	
32 17 23 13-0103 EA CALTRANS 24' Arrow Single (L or R) Turn Arrow, Type III, Painted Reflective Pavement Marking.....	305.61	
For <10, Add	40.86	
For >50 To 100, Deduct	-20.43	
For >100 To 200, Deduct	-27.24	
For >200, Deduct	-54.48	
32 17 23 13-0104 EA CALTRANS 24' Arrow Both (L and R) Turn Arrows, Type III, Painted Reflective Pavement Marking	533.27	
For <10, Add	71.33	
For >50 To 100, Deduct	-35.66	
For >100 To 200, Deduct	-47.55	
For >200, Deduct	-95.10	
32 17 23 13-0105 EA CALTRANS 8' Turn Arrow (L or R), Type IV, Painted Reflective Pavement Marking.....	108.82	
For <10, Add	14.54	
For >50 To 100, Deduct	-7.27	
For >100 To 200, Deduct	-9.70	
For >200, Deduct	-19.39	
32 17 23 13-0106 EA CALTRANS 24' Arrow, Type V, Painted Reflective Pavement Marking	238.47	
For <10, Add	31.85	
For >50 To 100, Deduct	-15.93	
For >100 To 200, Deduct	-21.24	
For >200, Deduct	-42.47	
32 17 23 13-0107 EA CALTRANS 18' Arrow, Type VI, Painted Reflective Pavement Marking	305.61	
For <10, Add	40.86	
For >50 To 100, Deduct	-20.43	
For >100 To 200, Deduct	-27.24	
For >200, Deduct	-54.48	
32 17 23 13-0108 EA CALTRANS 13' Arrow With Single (L or R) Turn Arrow, Type VII, Painted Reflective Pavement Marking	196.95	
For <10, Add	26.31	
For >50 To 100, Deduct	-13.16	
For >100 To 200, Deduct	-17.54	
For >200, Deduct	-35.09	
32 17 23 13-0109 EA CALTRANS 15' Arrow With Both (L and R) Turn Arrows, Type VIII, Painted Reflective Pavement Marking	259.31	
For <10, Add	34.62	
For >50 To 100, Deduct	-17.31	
For >100 To 200, Deduct	-23.08	
For >200, Deduct	-46.17	
32 17 23 13-0110 EA CALTRANS 5' Arrow, Bike Lane, Painted Reflective Pavement Marking.....	51.71	
For <10, Add	6.93	
For >50 To 100, Deduct	-3.46	
For >100 To 200, Deduct	-4.62	
For >200, Deduct	-9.23	
32 17 23 13-0111 EA CALTRANS Railroad Crossing Symbol, Painted Reflective Pavement Marking	493.96	
Note: Excludes variable width transverse lines.		
For <10, Add	65.79	
For >50 To 100, Deduct	-32.89	
For >100 To 200, Deduct	-43.86	
For >200, Deduct	-87.72	
32 17 23 13-0112 SF CALTRANS Solid Area, Painted Reflective Pavement Marking.....	6.43	
32 17 23 13-0113 EA CALTRANS Bike Lane Symbol Without Person, Painted Reflective Pavement Marking	46.26	
Note: Approximate overall dimensions: 4' width x 8' height.		
For <10, Add	4.98	
For >50 To 100, Deduct	-2.49	
For >100 To 200, Deduct	-3.32	
For >200, Deduct	-6.65	
32 17 23 13-0114 EA CALTRANS Bike Lane Symbol With Person, Painted Reflective Pavement Marking	48.99	
Note: Approximate overall dimensions: 4' width x 8' height.		
For <10, Add	5.26	
For >50 To 100, Deduct	-2.63	
For >100 To 200, Deduct	-3.51	
For >200, Deduct	-7.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0115 EA CALTRANS Diamond Symbol, Painted Reflective Pavement Marking	82.57	
<i>For <10, Add</i>	11.08	
<i>For >50 To 100, Deduct</i>	-5.54	
<i>For >100 To 200, Deduct</i>	-7.39	
<i>For >200, Deduct</i>	-14.77	
32 17 23 13-0116 EA CALTRANS International Symbol Of Accessibility (ISA) Marking, Painted Reflective Pavement Marking.....	167.78	
<i>For <10, Add</i>	22.44	
<i>For >50 To 100, Deduct</i>	-11.22	
<i>For >100 To 200, Deduct</i>	-14.96	
<i>For >200, Deduct</i>	-29.92	
32 17 23 13-0117 EA CALTRANS Bike Loop Detector Symbol, Painted Reflective Pavement Marking	36.61	
Note: Approximate overall dimensions: 4' width x 8' height.		
<i>For <10, Add</i>	5.26	
<i>For >50 To 100, Deduct</i>	-2.63	
<i>For >100 To 200, Deduct</i>	-3.51	
<i>For >200, Deduct</i>	-7.02	
32 17 23 13-0118 SF CALTRANS Letter/Number, Painted Reflective Pavement Marking	6.52	
32 17 23 13-0119 SF CALTRANS Symbols, Painted Reflective Pavement Marking.....	7.26	
Note: Handicap, railroad, diamond, arrows, etc.		
32 17 23 13-0120 Pavement Striping, Letters And Symbols For Parking Areas (32 17 23 13)		
Note: Includes primers. Per Coat.		
32 17 23 13-0121 Painted Pavement Marking For Parking Areas (32 17 23 13-0120)		
Note: 15 mil thickness.		
32 17 23 13-0122 LF Single 4" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.08	
32 17 23 13-0123 LF Single 6" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.18	
32 17 23 13-0124 LF Single 8" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.25	
32 17 23 13-0125 LF Single 12" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.40	
32 17 23 13-0126 SF Solid Area, Painted Pavement Marking For Parking Areas.....	5.69	
Note: Use task for lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
32 17 23 13-0127 EA 6" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	3.98	
<i>For Up To 10, Add</i>	0.55	
<i>For >50 To 100, Deduct</i>	-0.28	
<i>For >100 To 200, Deduct</i>	-0.37	
<i>For >200, Deduct</i>	-0.74	
32 17 23 13-0128 EA 12" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	6.59	
<i>For Up To 10, Add</i>	0.83	
<i>For >50 To 100, Deduct</i>	-0.42	
<i>For >100 To 200, Deduct</i>	-0.55	
<i>For >200, Deduct</i>	-1.11	
32 17 23 13-0129 EA 24" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	11.08	
<i>For Up To 10, Add</i>	1.38	
<i>For >50 To 100, Deduct</i>	-0.69	
<i>For >100 To 200, Deduct</i>	-0.92	
<i>For >200, Deduct</i>	-1.85	
32 17 23 13-0130 EA 36" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	20.78	
<i>For Up To 10, Add</i>	2.63	
<i>For >50 To 100, Deduct</i>	-1.32	
<i>For >100 To 200, Deduct</i>	-1.75	
<i>For >200, Deduct</i>	-3.51	
32 17 23 13-0131 EA 42" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	27.74	
<i>For Up To 10, Add</i>	3.60	
<i>For >50 To 100, Deduct</i>	-1.80	
<i>For >100 To 200, Deduct</i>	-2.40	
<i>For >200, Deduct</i>	-4.80	
32 17 23 13-0132 EA 48" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas.....	33.77	
<i>For Up To 10, Add</i>	4.43	
<i>For >50 To 100, Deduct</i>	-2.22	
<i>For >100 To 200, Deduct</i>	-2.96	
<i>For >200, Deduct</i>	-5.91	
32 17 23 13-0133 EA 72" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas.....	44.63	
<i>For Up To 10, Add</i>	5.54	
<i>For >50 To 100, Deduct</i>	-2.77	
<i>For >100 To 200, Deduct</i>	-3.69	
<i>For >200, Deduct</i>	-7.39	
32 17 23 13-0134 EA Through Lane Arrow, Painted Pavement Marking For Parking Areas.....	76.52	
Note: Approximate overall dimensions: 3-1/2' width x 10' height.		
32 17 23 13-0135 EA Turn Lane Arrow, Painted Pavement Marking For Parking Areas.....	86.01	
Note: Approximate overall dimensions: 6' width x 8' height.		
32 17 23 13-0136 EA Dual Turn Lane Arrow, Painted Pavement Marking For Parking Areas.....	118.71	
Note: Approximate overall dimensions: 11' width x 8' height.		
32 17 23 13-0137 EA Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas.....	120.90	
Note: Approximate overall dimensions: 7' width x 13' height.		
32 17 23 13-0138 EA Dual Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas.....	154.86	
Note: Approximate overall dimensions: 9' width x 15' height.		
32 17 23 13-0139 EA Handicap Symbol For Standard Parking Stalls, Painted Pavement Marking For Parking Areas.....	32.44	
Note: Approximate overall dimensions: 2-2/3' width x 3' height. White or blue symbol. Excludes striping.		
<i>For Blue Background With White Symbol, Add</i>	22.18	
<i>For Blue Background With White Symbol And Border, Add</i>	27.72	
32 17 23 13-0140 EA Handicap Symbol For Van Parking Stalls, Painted Pavement Marking For Parking Areas.....	45.63	
Note: Approximate overall dimensions: 4-1/3' width x 5' height. White or blue symbol. Excludes striping.		
<i>For Blue Background With White Symbol, Add</i>	43.39	
<i>For Blue Background With White Symbol And Border, Add</i>	54.24	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 17 23 13-0141	Painted Curbs <small>(32 17 23 13)</small>		
	Note: All colors.		
32 17 23 13-0142	LF Reflective Painted Curb	3.04	
32 17 23 13-0143	LF Reflective Painted Curb And Gutter	5.75	
32 17 23 13-0144	LF Painted Curb	2.45	
32 17 23 13-0145	LF Painted Curb And Gutter	5.22	
32 17 23 13-0146	Markings For Outdoor Play Areas, Courts <small>(32 17 23 13)</small>		
32 17 23 13-0147	LF 2" Wide Marking For Outdoor Play Areas	0.78	
32 17 23 13-0148	LF 3" Wide Marking For Outdoor Play Areas	0.89	
32 17 23 13-0149	LF 4" Wide Marking For Outdoor Play Areas	1.01	
32 17 23 13-0150	LF 6" Wide Marking For Outdoor Play Areas	1.19	
32 17 23 13-0151	EA Paint Playground Game Lines On Asphalt Or Concrete (Hop Scotch, 4 Square, Numbers Games, Etcetera).....	310.34	
32 17 23 23	Raised Pavement Markings <small>(32 17 23)</small>		
32 17 23 23-0001	Raised Pavement Markers (RPMs) <small>(32 17 23 23)</small>		
32 17 23 23-0002	EA One-Way Reflective, Raised Pavement Marker (RPM).....	4.52	2.33
	Note: Type G, H or R		
	<i>For >100, Deduct</i>	-0.45	
32 17 23 23-0003	EA Two-Way Reflective, Raised Pavement Marker (RPM).....	4.76	2.33
	Note: Type B, C, D, AC, RA or RR		
	<i>For >100, Deduct</i>	-0.48	
32 17 23 23-0004	EA 4" Diameter, Round Reflective, Raised Pavement Marker (RPM)	5.60	2.33
	<i>For >100, Deduct</i>	-0.56	
32 17 23 23-0005	EA 4" Diameter, Non-Reflective, Raised Pavement Marker (RPM)	4.21	2.33
	Note: Type A or AY		
	<i>For >100, Deduct</i>	-0.42	
32 17 23 23-0006	Snowplowable Pavement Markers <small>(32 17 23 23)</small>		
32 17 23 23-0007	EA One-Way Reflective, Snowplowable Pavement Marker With Center Rail	60.52	27.44
	Note: Type G, H or R		
32 17 23 23-0008	EA Two-Way Reflective, Snowplowable Pavement Marker With Center Rail	60.73	27.44
	Note: Type B, C, D, AC, RA or RR		
32 17 23 23-0009	EA Removal And Replacement Of Reflector For One-Way Reflective, Recessed (Plowable) Pavement Marker	16.76	
32 17 23 23-0010	EA Removal And Replacement Of Reflectors For Two-Way Reflective, Recessed (Plowable) Pavement Marker.....	21.54	
32 17 23 33	Plastic Pavement Markings <small>(32 17 23)</small>		
32 17 23 33-0001	Thermoplastic Pavement Striping, Letters, Symbols And Markers For Roads <small>(32 17 23 33)</small>		
	Note: Includes primers, adhesive and glass beads where required. For broken line modifier quantity use total lane length.		
32 17 23 33-0002	Thermoplastic Reflective Pavement Marking <small>(32 17 23 33-0001)</small>		
	Note: 90 mil thickness.		
32 17 23 33-0003	LF Single 4" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping.....	1.16	
	<i>For Up To 5,000 LF, Add</i>	0.23	
	<i>For >25,000 LF, Deduct</i>	-0.17	
	<i>For 60 mils Thick, Deduct</i>	-0.15	
	<i>For 125 mils Thick, Add</i>	0.20	
	<i>For Broken Line (25% Solid), Deduct</i>	-0.65	
32 17 23 33-0004	LF Single 6" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping.....	1.65	
	Note: Includes yellow or white.		
	<i>For Up To 5,000 LF, Add</i>	0.33	
	<i>For >25,000 LF, Deduct</i>	-0.25	
	<i>For 60 mils Thick, Deduct</i>	-0.23	
	<i>For 125 mils Thick, Add</i>	0.29	
	<i>For Broken Line (25% Solid), Deduct</i>	-0.98	
32 17 23 33-0005	LF Single 8" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping.....	2.17	
	Note: Includes yellow or white.		
	<i>For Up To 5,000 LF, Add</i>	0.43	
	<i>For >25,000 LF, Deduct</i>	-0.33	
	<i>For 60 mils Thick, Deduct</i>	-0.30	
	<i>For 125 mils Thick, Add</i>	0.39	
	<i>For Broken Line (25% Solid), Deduct</i>	-1.30	
32 17 23 33-0006	LF Single 12" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping.....	3.17	
	Note: Includes yellow or white.		
	<i>For Up To 5,000 LF, Add</i>	0.63	
	<i>For >25,000 LF, Deduct</i>	-0.48	
	<i>For 60 mils Thick, Deduct</i>	-0.46	
	<i>For 125 mils Thick, Add</i>	0.59	
	<i>For Broken Line (25% Solid), Deduct</i>	-1.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0007 LF Double 4" Wide Solid Lines, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	2.17	
Note: Includes yellow or white.		
For Up To 5,000 LF, Add	0.43	
For >25,000 LF, Deduct	-0.33	
For 60 mils Thick, Deduct	-0.30	
For 125 mils Thick, Add	0.39	
For Broken Line On One Side, Deduct	-0.65	
For Double Broken Line, Deduct	-1.30	
32 17 23 33-0008 LF Double 6" Wide Solid Lines, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	3.17	
Note: Includes yellow or white.		
For Up To 5,000 LF, Add	0.63	
For >25,000 LF, Deduct	-0.48	
For 60 mils Thick, Deduct	-0.46	
For 125 mils Thick, Add	0.59	
For Broken Line On One Side, Deduct	-0.98	
For Double Broken Line, Deduct	-1.95	
32 17 23 33-0009 SF Solid Area, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	8.12	
Note: Includes yellow or white.		
For 60 mils Thick, Deduct	-0.45	
For 125 mils Thick, Add	0.58	
32 17 23 33-0010 EA 6" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	5.42	
For Up To 10, Add	0.62	
For >50 To 100, Deduct	-0.31	
For >100 To 200, Deduct	-0.42	
For >200, Deduct	-0.83	
For 60 mils Thick, Deduct	-0.22	
For 125 mils Thick, Add	0.28	
32 17 23 33-0011 EA 12" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	10.83	
For Up To 10, Add	0.94	
For >50 To 100, Deduct	-0.47	
For >100 To 200, Deduct	-0.63	
For >200, Deduct	-1.25	
For 60 mils Thick, Deduct	-0.80	
For 125 mils Thick, Add	1.03	
32 17 23 33-0012 EA 24" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	18.42	
For Up To 10, Add	1.56	
For >50 To 100, Deduct	-0.78	
For >100 To 200, Deduct	-1.04	
For >200, Deduct	-2.09	
For 60 mils Thick, Deduct	-1.40	
For 125 mils Thick, Add	1.80	
32 17 23 33-0013 EA 36" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	35.01	
For Up To 10, Add	3.14	
For >50 To 100, Deduct	-1.57	
For >100 To 200, Deduct	-2.10	
For >200, Deduct	-4.19	
For 60 mils Thick, Deduct	-2.46	
For 125 mils Thick, Add	3.16	
32 17 23 33-0014 EA 48" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	41.71	
For Up To 10, Add	3.52	
For >50 To 100, Deduct	-1.76	
For >100 To 200, Deduct	-2.35	
For >200, Deduct	-4.69	
For 60 mils Thick, Deduct	-3.20	
For 125 mils Thick, Add	4.11	
32 17 23 33-0015 EA 72" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	75.10	
For Up To 10, Add	6.26	
For >50 To 100, Deduct	-3.13	
For >100 To 200, Deduct	-4.17	
For >200, Deduct	-8.35	
For 60 mils Thick, Deduct	-5.84	
For 125 mils Thick, Add	7.51	
32 17 23 33-0016 EA 96" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	99.95	
For Up To 10, Add	8.41	
For >50 To 100, Deduct	-4.20	
For >100 To 200, Deduct	-5.61	
For >200, Deduct	-11.21	
For 60 mils Thick, Deduct	-7.68	
For 125 mils Thick, Add	9.88	
32 17 23 33-0017 EA 120" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	167.41	
For Up To 10, Add	10.41	
For >50 To 100, Deduct	-5.21	
For >100 To 200, Deduct	-6.94	
For >200, Deduct	-13.89	
For 60 mils Thick, Deduct	-17.15	
For 125 mils Thick, Add	22.05	
32 17 23 33-0018 SF Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	9.43	
For 60 mils Thick, Deduct	-0.55	
For 125 mils Thick, Add	0.71	
32 17 23 33-0019 SY Cross Hatch, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	28.89	
Note: Per SY of area.		
For 60 mils Thick, Deduct	-1.02	
For 125 mils Thick, Add	1.31	
32 17 23 33-0020 EA Handicap Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	248.95	
For 60 mils Thick, Deduct	-12.72	
For 125 mils Thick, Add	16.36	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0021 EA Railroad Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	738.28	
For 60 mils Thick, Deduct	-38.72	
For 125 mils Thick, Add	49.78	
32 17 23 33-0022 EA Bike Lane Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	137.03	
Note: Approximate overall dimensions: 4' width x 8' height.		
For 60 mils Thick, Deduct	-17.52	
For 125 mils Thick, Add	22.52	
32 17 23 33-0023 EA Diamond Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	119.07	
For 60 mils Thick, Deduct	-6.08	
For 125 mils Thick, Add	7.82	
32 17 23 33-0024 SF Symbols, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	10.82	
Note: Handicap, railroad, diamond, arrows, etc.		
For 60 mils Thick, Deduct	-0.55	
For 125 mils Thick, Add	0.71	
32 17 23 33-0025 EA 10' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	151.53	
For 60 mils Thick, Deduct	-7.74	
For 125 mils Thick, Add	9.96	
32 17 23 33-0026 EA 18' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	270.60	
For 60 mils Thick, Deduct	-13.83	
For 125 mils Thick, Add	17.78	
32 17 23 33-0027 EA 24' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	335.55	
For 60 mils Thick, Deduct	-17.15	
For 125 mils Thick, Add	22.05	
32 17 23 33-0028 EA 24' Arrow With Single (L or R) Turn Arrow, Type II, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	487.08	
For 60 mils Thick, Deduct	-24.89	
For 125 mils Thick, Add	32.00	
32 17 23 33-0029 EA 24' Arrow With Both (L and R) Turn Arrows, Type II, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	638.62	
For 60 mils Thick, Deduct	-32.63	
For 125 mils Thick, Add	41.96	
32 17 23 33-0030 EA 24' Arrow Single (L or R) Turn Arrow, Type III, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	454.60	
For 60 mils Thick, Deduct	-23.23	
For 125 mils Thick, Add	29.87	
32 17 23 33-0031 EA 24' Arrow Both (L and R) Turn Arrows, Type III, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	790.16	
For 60 mils Thick, Deduct	-40.38	
For 125 mils Thick, Add	51.91	
32 17 23 33-0032 EA 8' Turn Arrow (L or R), Type IV, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	162.37	
For 60 mils Thick, Deduct	-8.30	
For 125 mils Thick, Add	10.67	
32 17 23 33-0033 EA 24' Arrow, Type V, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	357.19	
For 60 mils Thick, Deduct	-18.25	
For 125 mils Thick, Add	23.47	
32 17 23 33-0034 EA 18' Arrow, Type VI, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	454.60	
For 60 mils Thick, Deduct	-23.23	
For 125 mils Thick, Add	29.87	
32 17 23 33-0035 EA 13' Arrow With Single (L or R) Turn Arrow, Type VII, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	292.25	
For 60 mils Thick, Deduct	-14.93	
For 125 mils Thick, Add	19.20	
32 17 23 33-0036 EA 15' Arrow With Both (L and R) Turn Arrows, Type VIII, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	389.67	
For 60 mils Thick, Deduct	-19.91	
For 125 mils Thick, Add	25.60	
32 17 23 33-0037 EA 5' Arrow, Bike Lane, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	75.77	
For 60 mils Thick, Deduct	-3.87	
For 125 mils Thick, Add	4.98	
32 17 23 33-0038 Thermoplastic Reflective Pavement Striping By Hand For Repairs (32 17 23 33-0001)	2.82	
32 17 23 33-0039 LF Single 4" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	2.82	
For 60 mils Thick, Deduct	-0.15	
For 125 mils Thick, Add	0.20	
32 17 23 33-0040 LF Single 6" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	3.53	
For 60 mils Thick, Deduct	-0.23	
For 125 mils Thick, Add	0.29	
32 17 23 33-0041 LF Single 8" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	4.32	
For 60 mils Thick, Deduct	-0.30	
For 125 mils Thick, Add	0.39	
32 17 23 33-0042 LF Single 12" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	6.19	
For 60 mils Thick, Deduct	-0.46	
For 125 mils Thick, Add	0.59	
32 17 23 33-0043 LF Single 24" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	11.04	
For 60 mils Thick, Deduct	-0.91	
For 125 mils Thick, Add	1.17	
32 17 23 33-0044 Preformed, Patterned Reflective Pavement Marking Tape (32 17 23 33-0001)		
Note: Applied with pressure sensitive adhesive. Includes adhesive. 60 mil thickness. (3M Stamark 380 Series).		
32 17 23 33-0045 LF Single 4" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping	2.42	
Note: Includes yellow or white.		
For Up To 5,000 LF, Add	0.48	
For >25,000 LF, Deduct	-0.36	
32 17 23 33-0046 LF Single 6" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping	3.57	
Note: Includes yellow or white.		
For Up To 5,000 LF, Add	0.71	
For >25,000 LF, Deduct	-0.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0047 LF Single 8" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping .....4.74 Note: Includes yellow or white. For Up To 5,000 LF, Add 0.95 For >25,000 LF, Deduct -0.71	4.74	
32 17 23 33-0048 LF Single 12" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping .....7.01 Note: Includes yellow or white. For Up To 5,000 LF, Add 1.40 For >25,000 LF, Deduct -1.05	7.01	
32 17 23 33-0049 SF Solid Area, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Marking Tape .....20.33 Note: Includes yellow or white.	20.33	
32 17 23 33-0050 EA 6" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape .....30.06 For <10, Add 1.14 For >50 To 100, Deduct -0.57 For >100 To 200, Deduct -0.76 For >200, Deduct -1.51	30.06	
32 17 23 33-0051 EA 12" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape .....52.40 For <10, Add 1.44 For >50 To 100, Deduct -0.72 For >100 To 200, Deduct -0.96 For >200, Deduct -1.92	52.40	
32 17 23 33-0052 EA 24" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape .....90.48 For <10, Add 2.85 For >50 To 100, Deduct -1.43 For >100 To 200, Deduct -1.90 For >200, Deduct -3.80	90.48	
32 17 23 33-0053 EA 36" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape .....132.50 For <10, Add 5.71 For >50 To 100, Deduct -2.85 For >100 To 200, Deduct -3.80 For >200, Deduct -7.61	132.50	
32 17 23 33-0054 EA 48" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape .....154.97 For <10, Add 6.40 For >50 To 100, Deduct -3.20 For >100 To 200, Deduct -4.27 For >200, Deduct -8.53	154.97	
32 17 23 33-0055 EA 72" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape .....202.14 For <10, Add 11.39 For >50 To 100, Deduct -5.69 For >100 To 200, Deduct -7.59 For >200, Deduct -15.18	202.14	
32 17 23 33-0056 EA 96" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape .....258.64 For <10, Add 15.29 For >50 To 100, Deduct -7.64 For >100 To 200, Deduct -10.19 For >200, Deduct -20.39	258.64	
32 17 23 33-0057 EA 120" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape .....323.94 For <10, Add 18.95 For >50 To 100, Deduct -9.47 For >100 To 200, Deduct -12.63 For >200, Deduct -25.26	323.94	
32 17 23 33-0058 SF Preformed Arrow, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape .....21.06	21.06	
32 17 23 33-0059 SF Preformed Symbol, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape .....22.45 Note: Handicap, railroad, diamond symbol, etc.	22.45	
32 17 23 33-0060 Preformed, Thermoplastic Reflective Pavement Marking <small>(32 17 23 33-0001)</small> Note: Heat applied. (Flint PreMark or HotTape Series).		
32 17 23 33-0061 EA Preformed Bike Lane Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....236.13 Note: Approximate overall dimensions: 4' width x 8' height.	236.13	
32 17 23 33-0062 EA Preformed Railroad Crossing Symbol, 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....624.15 Note: Approximate overall dimensions: 8' width x 20' height. Excludes transverse lines.	624.15	
32 17 23 33-0063 EA Preformed Preferential Lane Symbol (Diamond), 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....134.09 Note: Approximate overall dimensions: 3-1/4' width x 13' height.	134.09	
32 17 23 33-0064 EA 6' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....117.38 Note: Approximate overall dimensions: 2' width x 6' height.	117.38	
32 17 23 33-0065 EA 9-1/2' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....212.26 Note: Approximate overall dimensions: 3-1/4' width x 9-1/2' height.	212.26	
32 17 23 33-0066 EA 4' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....132.91 Note: Approximate overall dimensions: 3' width x 4' height.	132.91	
32 17 23 33-0067 EA 8' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....234.16 Note: Approximate overall dimensions: 6' width x 8' height.	234.16	
32 17 23 33-0068 EA Preformed Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....388.09 Note: Approximate overall dimensions: 7-1/4' width x 12-3/4' height.	388.09	
32 17 23 33-0069 EA Preformed Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....574.78 Note: Approximate overall dimensions: 11-1/4' width x 13-1/4' height.	574.78	
32 17 23 33-0070 EA Preformed Elongated Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....221.30 Note: Approximate overall dimensions: 1-2/3' width x 12' height.	221.30	
32 17 23 33-0071 EA Preformed Elongated Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....243.20 Note: Approximate overall dimensions: 3' width x 12' height.	243.20	
32 17 23 33-0072 EA Preformed Elongated Dual Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....431.02 Note: Approximate overall dimensions: 5-1/2' width x 12' height.	431.02	
32 17 23 33-0073 EA Preformed Elongated Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape .....398.24 Note: Approximate overall dimensions: 3-1/2' width x 20' height.	398.24	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0074	EA	Preformed Elongated Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape.....	401.01	
		Note: Approximate overall dimensions: 5-1/2' width x 20' height.		
32 17 23 33-0075	EA	Preformed Lane-Reduction Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape.....	539.18	
		Note: Approximate overall dimensions: 5-1/2' width x 18' height.		
32 17 23 33-0076		Pavement Marking (Monterey County) <small>(32 17 23 33-0001)</small>		
32 17 23 33-0077	SF	Thermoplastic Pavement Marking (Monterey County).....	8.27	
32 17 23 33-0078		Thermoplastic Pavement Striping, Letters And Symbols For Parking Areas		
		<small>(32 17 23 33)</small>		
32 17 23 33-0079		Thermoplastic Pavement Marking Symbols For Parking Areas <small>(32 17 23 33-0078)</small>		
		Note: Heat applied. (Flint PreMark Series).		
32 17 23 33-0080	EA	28" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas.....	84.69	
		Note: White or blue symbol. Excludes striping.		
32 17 23 33-0081	EA	39" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas.....	294.21	
32 17 23 33-0082	EA	40" x 40" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas.....	171.43	
		Note: White symbol on blue background. Excludes striping.		
32 17 23 33-0083	EA	45" x 45" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas.....	204.39	
		Note: White symbol on blue background. Excludes striping.		
32 17 23 33-0084	EA	48" x 48" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas.....	213.95	
32 17 26 Tactile Warning Surfaces <small>(32 17)</small>				
32 17 26 00-0001		Vitrified Polymer Composite (VPC); (Armor Tile) <small>(32 17 26)</small>		
		Note: Truncated dome, raised strips or directional bars. All colors.		
32 17 26 00-0002	SF	Surface Applied VPC Truncated Dome Detectable Warning Surface.....	56.24	9.12
		Note: Includes adhesive, fasteners and sealant at perimeter. Also raised strips or directional bars. All colors.		
32 17 26 00-0003	SF	Embedded, VPC Truncated Dome Detectable Warning Surface.....	44.39	9.12
		Note: Also raised strips or directional bars. All colors.		
32 17 26 00-0004	EA	30.5" x 24" x 2" Precast Concrete Truncated Dome Panel Set In Thinset.....	315.55	
32 17 26 00-0005	LF	24" Wide Temporary Truncated Dome Strips, Screw Down Only Into Asphalt Or Concrete.....	75.70	18.22
32 17 26 00-0006		Fiber-Reinforced, Polymermodified Cement And Coated With Acrylic Resin Emulsion (SatetyStep TD) <small>(32 17 26)</small>		
		Note: Pre-molded tactile dome sheet. All colors.		
32 17 26 00-0007	SF	Up To 15 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT).....	62.81	9.12
		Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 top coat sealer and SSTD-1250 finish . All colors. 2' or 3' width.		
32 17 26 00-0008	SF	>15 To 36 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT).....	54.61	9.12
		Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 top coat sealer and SSTD-1250 finish . All colors. 2' or 3' width.		
32 18 Athletic and Recreational Surfacing <small>(32 10)</small>				
32 18 16 Synthetic Resilient Surfacing <small>(32 18)</small>				
32 18 16 13 Playground Protective Surfacing <small>(32 18 16)</small>				
32 18 16 13-0001		Tile Playground Surface Material <small>(32 18 16 13)</small>		
		Note: Black. With or without channel bottom. Includes transition section and curbs. Excludes sub base.		
32 18 16 13-0002	SF	1-3/4" Thick, Resilient Rubber Tile.....	15.74	2.11
		For Manufacturer's Standard Colors, Add	0.85	
		For Interlocking Tiles, Add	1.88	
		For Mechanically Fastened, Add	1.66	
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0003	SF	2" Thick, Resilient Rubber Tile.....	16.14	2.23
		For Manufacturer's Standard Colors, Add	0.85	
		For Interlocking Tiles, Add	1.88	
		For Mechanically Fastened, Add	1.74	
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0004	SF	2-1/4" Thick, Resilient Rubber Tile.....	16.93	2.49
		For Manufacturer's Standard Colors, Add	0.85	
		For Interlocking Tiles, Add	1.88	
		For Mechanically Fastened, Add	1.90	
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0005	SF	2-1/2" Thick, Resilient Rubber Tile.....	17.72	2.76
		For Manufacturer's Standard Colors, Add	0.85	
		For Interlocking Tiles, Add	1.88	
		For Mechanically Fastened, Add	2.06	
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 16 13-0006 SF 2-3/4" Thick, Resilient Rubber Tile.....	19.72	3.02
<i>For Manufacturer's Standard Colors, Add</i>	0.64	
<i>For Interlocking Tiles, Add</i>	2.13	
<i>For Mechanically Fastened, Add</i>	2.22	
<i>For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add</i>	1.50	
32 18 16 13-0007 SF 3" Thick, Resilient Rubber Tile.....	20.60	3.32
<i>For Manufacturer's Standard Colors, Add</i>	0.64	
<i>For Interlocking Tiles, Add</i>	2.13	
<i>For Mechanically Fastened, Add</i>	2.39	
<i>For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add</i>	1.50	
32 18 16 13-0008 SF 3-1/4" Thick, Resilient Rubber Tile.....	21.50	3.62
<i>For Manufacturer's Standard Colors, Add</i>	0.64	
<i>For Interlocking Tiles, Add</i>	2.13	
<i>For Mechanically Fastened, Add</i>	2.57	
<i>For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add</i>	1.50	
32 18 16 13-0009 SF 3-1/2" Thick, Resilient Rubber Tile.....	23.56	3.87
<i>For Manufacturer's Standard Colors, Add</i>	0.36	
<i>For Interlocking Tiles, Add</i>	2.37	
<i>For Mechanically Fastened, Add</i>	2.74	
<i>For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add</i>	1.50	
32 18 16 13-0010 SF 3-3/4" Thick, Resilient Rubber Tile.....	24.35	4.18
<i>For Manufacturer's Standard Colors, Add</i>	0.36	
<i>For Interlocking Tiles, Add</i>	2.37	
<i>For Mechanically Fastened, Add</i>	2.90	
<i>For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add</i>	1.50	
32 18 16 13-0011 SF 4" Thick, Resilient Rubber Tile.....	25.22	4.42
<i>For Manufacturer's Standard Colors, Add</i>	0.36	
<i>For Interlocking Tiles, Add</i>	2.37	
<i>For Mechanically Fastened, Add</i>	3.07	
<i>For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add</i>	1.50	
32 18 16 13-0012 SF 4-1/2" Thick, Resilient Rubber Tile.....	28.93	4.97
<i>For Manufacturer's Standard Colors, Add</i>	0.35	
<i>For Interlocking Tiles, Add</i>	2.78	
<i>For Mechanically Fastened, Add</i>	3.40	
<i>For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add</i>	1.50	
32 18 16 13-0013 Loose Laid Playground Surface Material <small>(32 18 16 13)</small>		
<i>Note: Excludes sub base.</i>		
32 18 16 13-0014 SF 3" Loose Laid Wood Fiber Safety Surface.....	1.79	0.31
32 18 16 13-0015 SF 6" Loose Laid Wood Fiber Safety Surface.....	2.44	0.39
32 18 16 13-0016 SF 9" Loose Laid Wood Fiber Safety Surface.....	3.17	0.48
32 18 16 13-0017 SF 12" Loose Laid Wood Fiber Safety Surface.....	4.48	0.71
32 18 16 13-0018 SF 3" Loose Laid Synthetic Fiber Safety Surface.....	2.87	0.31
32 18 16 13-0019 SF 6" Loose Laid Synthetic Fiber Safety Surface.....	3.55	0.39
32 18 16 13-0020 SF 9" Loose Laid Synthetic Fiber Safety Surface.....	5.66	0.48
32 18 16 13-0021 SF 12" Loose Laid Synthetic Fiber Safety Surface.....	6.94	0.71
32 18 16 13-0022 SF 8" FIBAR System.....	11.52	1.18
<i>Note: Includes drainage system on 6" centers, felt, edge railing and 8" wood fiber.</i>		
32 18 16 13-0023 SF 12" FIBAR System.....	14.57	1.58
<i>Note: Includes drainage system on 6" centers, felt, edge railing and 12" wood fiber.</i>		
32 18 16 13-0024 Poured In Place Playground Surfacing <small>(32 18 16 13)</small>		
<i>Note: Includes SBR base mat, 100% color ethylene propylene diene monomer (EPDM) top surface and 5 year warranty. Includes primer for base mat and top surface. Includes all colors. Excludes base preparation.</i>		
32 18 16 13-0025 SF Up To 4' Critical Fall Height (1-3/4") Poured In Place Rubber Playground Surfacing.....	13.60	2.42
<i>For Up To 2,000, Add</i>	3.14	
<i>For >2,000 To 3,000, Add</i>	2.20	
<i>For >3,000 To 4,000, Add</i>	1.49	
<i>For >4,000 To 5,000, Add</i>	0.95	
<i>For >5,000 To 7,000, Add</i>	0.39	
<i>For Aliphatic (Non Yellowing) Binder, Add</i>	2.95	
<i>For Each 10% Of Area In Black Instead Of Color, Deduct</i>	-0.41	
32 18 16 13-0026 SF 5' Critical Fall Height (2") Poured In Place Rubber Playground Surfacing.....	14.03	2.69
<i>For Up To 2,000, Add</i>	3.23	
<i>For >2,000 To 3,000, Add</i>	2.27	
<i>For >3,000 To 4,000, Add</i>	1.54	
<i>For >4,000 To 5,000, Add</i>	0.98	
<i>For >5,000 To 7,000, Add</i>	0.40	
<i>For Aliphatic (Non Yellowing) Binder, Add</i>	2.95	
<i>For Each 10% Of Area In Black Instead Of Color, Deduct</i>	-0.41	
32 18 16 13-0027 SF 6' Critical Fall Height (2-1/2") Poured In Place Rubber Playground Surfacing.....	15.14	3.07
<i>For Up To 2,000, Add</i>	3.49	
<i>For >2,000 To 3,000, Add</i>	2.45	
<i>For >3,000 To 4,000, Add</i>	1.66	
<i>For >4,000 To 5,000, Add</i>	1.06	
<i>For >5,000 To 7,000, Add</i>	0.44	
<i>For Aliphatic (Non Yellowing) Binder, Add</i>	2.95	
<i>For Each 10% Of Area In Black Instead Of Color, Deduct</i>	-0.41	

32	Exterior Improvements
32 10	Bases, Ballasts, and Paving
32 18	Athletic and Recreational Surfacing



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 16 13-0028 SF 7' Critical Fall Height (3") Poured In Place Rubber Playground Surfacing	16.36	3.27
For Up To 2,000, Add	3.77	
For >2,000 To 3,000, Add	2.65	
For >3,000 To 4,000, Add	1.79	
For >4,000 To 5,000, Add	1.14	
For >5,000 To 7,000, Add	0.47	
For Aliphatic (Non Yellowing) Binder, Add	2.95	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.41	
32 18 16 13-0029 SF 8' Critical Fall Height (3-1/2") Poured In Place Rubber Playground Surfacing	17.56	3.44
For Up To 2,000, Add	4.05	
For >2,000 To 3,000, Add	2.84	
For >3,000 To 4,000, Add	1.92	
For >4,000 To 5,000, Add	1.23	
For >5,000 To 7,000, Add	0.50	
For Aliphatic (Non Yellowing) Binder, Add	2.95	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.41	
32 18 16 13-0030 SF 9' Critical Fall Height (4") Poured In Place Rubber Playground Surfacing	18.59	3.64
For Up To 2,000, Add	4.28	
For >2,000 To 3,000, Add	3.00	
For >3,000 To 4,000, Add	2.04	
For >4,000 To 5,000, Add	1.30	
For >5,000 To 7,000, Add	0.53	
For Aliphatic (Non Yellowing) Binder, Add	2.95	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.41	
32 18 16 13-0031 SF 10' Critical Fall Height (4-1/2") Poured In Place Rubber Playground Surfacing	19.79	3.84
For Up To 2,000, Add	4.56	
For >2,000 To 3,000, Add	3.20	
For >3,000 To 4,000, Add	2.17	
For >4,000 To 5,000, Add	1.38	
For >5,000 To 7,000, Add	0.57	
For Aliphatic (Non Yellowing) Binder, Add	2.95	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.41	
32 18 16 13-0032 SF 12' Critical Fall Height (5-1/2") Poured In Place Rubber Playground Surfacing	22.21	4.30
For Up To 2,000, Add	5.12	
For >2,000 To 3,000, Add	3.59	
For >3,000 To 4,000, Add	2.43	
For >4,000 To 5,000, Add	1.55	
For >5,000 To 7,000, Add	0.64	
For Aliphatic (Non Yellowing) Binder, Add	2.95	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.41	
32 18 16 13-0033 SF Top Only (1/2") Poured In Place Playground Surfacing	8.89	
Note: Not used with new surfacing system tasks.		
For Up To 2,000, Add	3.13	
For >2,000 To 3,000, Add	2.02	
For >3,000 To 4,000, Add	1.22	
For >4,000 To 5,000, Add	0.73	
For >5,000 To 7,000, Add	0.33	
For Aliphatic (Non Yellowing) Binder, Add	2.95	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.41	
32 18 16 13-0034 EA Simple Graphics Including Hopscotch, Four Square Or Geometric Shapes (5 Per 1,000 SF) For Poured In Place Playground Surfacing.....	2,387.73	
32 18 16 13-0035 Synthetic Playground Turf (Sporturf) <small>(32 18 16 13)</small>		
Note: Excludes base preparation, aggregate, or drainage.		
32 18 16 13-0036 SF 60 OZ/SY Face Weight, Tufted Polyethylene Monofilament Classic Spine/ Texturized Polypropylene Synthetic Turf (Sporturf PL929)	7.66	
32 18 16 13-0037 SF 71 OZ/SY Face Weight, Tufted Polyethylene Monofilament Classic Spine/ Texturized Polypropylene Synthetic Turf (Mirage PL906).....	6.78	
32 18 16 13-0038 SF 2" Foam Padding (Sporturf)	4.43	
32 18 16 13-0039 CF Sand/Ruber Infill (Sporturf)	45.77	
32 18 23 Athletic Surfacing <small>(32 18)</small>		
32 18 23 13 Baseball Field Surfacing <small>(32 18 23)</small>		
32 18 23 13-0001 Clay Infield Maintenance <small>(32 18 23 13)</small>		
32 18 23 13-0002 MSF Playing Field Maintenance (Clay - Nail Drag)	10.05	
32 18 23 13-0003 MSF Playing Field Maintenance (Clay - Screen Drag)	10.05	
32 18 23 13-0004 CY Playing Field Maintenance Of Clay	84.01	
32 18 23 13-0005 Ton Medium Pro Baseball Infield Mix (Diamond Select 60/40 Pro Infield Mix).....	133.33	
32 18 23 23 Field Sport Surfacing <small>(32 18 23)</small>		
32 18 23 23-0001 Turf Field Maintenance <small>(32 18 23 23)</small>		
32 18 23 23-0002 ACR Turf Aeration (Minimum 6" Penetration).....	135.29	
32 18 23 23-0003 MSF Top Dressing 1/8" - 1/4" Sand.....	12.79	
32 18 23 23-0004 BAG Envirofill, 50 LB Bag.....	97.78	
32 18 23 29 Synthetic Field Sport Surfacing <small>(32 18 23)</small>		
32 18 23 29-0001 Synthetic Turf <small>(32 18 23 29)</small>		



Exterior Improvements		32
Bases, Ballasts, and Paving		32 10
Athletic and Recreational Surfacing		32 18

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0002			Synthetic Turf (AstroTurf) <small>(32 18 23 29-0001)</small>		
			Note: Tasks include labor, equipment and material required to install the task.		
32 18 23 29-0003			Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT) <small>(32 18 23 29-0002)</small>		
32 18 23 29-0004			38 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 38) <small>(32 18 23 29-0003)</small>		
32 18 23 29-0005	SF		38 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 38)	6.11	
			<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
			<i>For Cryo Rubber Infill, Add</i>	0.26	
			<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.31	
			<i>For Cryo Rubber And Sand Infill, Add</i>	0.36	
32 18 23 29-0006	EA		Football Markings For AstroTurf® GameDay Grass™ MT 38 Fields	18,924.98	
32 18 23 29-0007	EA		Baseball Markings For AstroTurf® GameDay Grass™ MT 38 Fields	15,425.64	
32 18 23 29-0008	EA		Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 38 Fields.....	4,641.98	
			Note: Per sport.		
32 18 23 29-0009	EA		Endzone Lettering For AstroTurf® GameDay Grass™ MT 38 Fields	1,713.96	
			Note: Per letter. Excludes outline.		
32 18 23 29-0010	EA		Colored Endzone For AstroTurf® GameDay Grass™ MT 38 Fields.....	1,642.54	
			Note: Per endzone.		
32 18 23 29-0011	EA		Simple Logo For AstroTurf® GameDay Grass™ MT 38 Fields.....	14,283.00	
			Note: Block letter.		
32 18 23 29-0012	EA		Deluxe Logo For AstroTurf® GameDay Grass™ MT 38 Fields	20,710.35	
			Note: Graphic.		
32 18 23 29-0013			41 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 41) <small>(32 18 23 29-0003)</small>		
32 18 23 29-0014	SF		41 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 41)	6.97	
			<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
			<i>For Cryo Rubber Infill, Add</i>	0.26	
			<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.31	
			<i>For Cryo Rubber And Sand Infill, Add</i>	0.36	
32 18 23 29-0015	EA		Football Markings For AstroTurf® GameDay Grass™ MT 41 Fields	19,282.17	
32 18 23 29-0016	EA		Baseball Markings For AstroTurf® GameDay Grass™ MT 41 Fields	15,997.06	
32 18 23 29-0017	EA		Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 41 Fields.....	4,999.08	
			Note: Per sport.		
32 18 23 29-0018	EA		Endzone Lettering For AstroTurf® GameDay Grass™ MT 41 Fields	1,856.80	
			Note: Per letter. Excludes outline.		
32 18 23 29-0019	EA		Colored Endzone For AstroTurf® GameDay Grass™ MT 41 Fields.....	1,713.97	
			Note: Per endzone.		
32 18 23 29-0020	EA		Simple Logo For AstroTurf® GameDay Grass™ MT 41 Fields.....	14,997.24	
			Note: Block letter.		
32 18 23 29-0021	EA		Deluxe Logo For AstroTurf® GameDay Grass™ MT 41 Fields	21,746.00	
			Note: Graphic.		
32 18 23 29-0022			45 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 45) <small>(32 18 23 29-0003)</small>		
32 18 23 29-0023	SF		45 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 45)	7.09	
			<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
			<i>For Cryo Rubber Infill, Add</i>	0.26	
			<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.31	
			<i>For Cryo Rubber And Sand Infill, Add</i>	0.36	
32 18 23 29-0024	EA		Football Markings For AstroTurf® GameDay Grass™ MT 45 Fields	19,639.24	
32 18 23 29-0025	EA		Baseball Markings For AstroTurf® GameDay Grass™ MT 45 Fields	17,282.53	
32 18 23 29-0026	EA		Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 45 Fields.....	5,356.16	
			Note: Per sport.		
32 18 23 29-0027	EA		Endzone Lettering For AstroTurf® GameDay Grass™ MT 45 Fields	1,999.63	
			Note: Per letter. Excludes outline.		
32 18 23 29-0028	EA		Colored Endzone For AstroTurf® GameDay Grass™ MT 45 Fields.....	1,785.39	
			Note: Per endzone.		
32 18 23 29-0029	EA		Simple Logo For AstroTurf® GameDay Grass™ MT 45 Fields.....	15,711.39	
			Note: Block letter.		
32 18 23 29-0030	EA		Deluxe Logo For AstroTurf® GameDay Grass™ MT 45 Fields	22,781.52	
			Note: Graphic.		
32 18 23 29-0031			Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D) <small>(32 18 23 29-0002)</small>		
32 18 23 29-0032			52 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3DX 52) <small>(32 18 23 29-0031)</small>		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 18 Athletic and Recreational Surfacing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0033	SF	52 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3DX 52).....	7.90	
		<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
		<i>For Cryo Rubber Infill, Add</i>	0.20	
		<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.25	
		<i>For Cryo Rubber And Sand Infill, Add</i>	0.30	
32 18 23 29-0034	EA	Football Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields	20,353.28	
32 18 23 29-0035	EA	Baseball Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields	21,710.16	
32 18 23 29-0036	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields	6,070.28	
		Note: Per sport.		
32 18 23 29-0037	EA	Endzone Lettering For AstroTurf® GameDay Grass™ 3DX 52 Fields.....	2,285.28	
		Note: Per letter. Excludes outline.		
32 18 23 29-0038	EA	Colored Endzone For AstroTurf® GameDay Grass™ 3DX 52 Fields	1,928.20	
		Note: Per endzone.		
32 18 23 29-0039	EA	Simple Logo For AstroTurf® GameDay Grass™ 3DX 52 Fields.....	17,139.60	
		Note: Block letter.		
32 18 23 29-0040	EA	Deluxe Logo For AstroTurf® GameDay Grass™ 3DX 52 Fields.....	24,852.42	
		Note: Graphic.		
32 18 23 29-0041		60 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3DX 60) <small>(32 18 23 29-0031)</small>		
32 18 23 29-0042	SF	60 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3DX 60).....	8.16	
		<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
		<i>For Cryo Rubber Infill, Add</i>	0.20	
		<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.25	
		<i>For Cryo Rubber And Sand Infill, Add</i>	0.30	
32 18 23 29-0043	EA	Football Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields	20,710.35	
32 18 23 29-0044	EA	Baseball Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields	24,138.27	
32 18 23 29-0045	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields	6,427.35	
		Note: Per sport.		
32 18 23 29-0046	EA	Endzone Lettering For AstroTurf® GameDay Grass™ 3DX 60 Fields.....	2,428.11	
		Note: Per letter. Excludes outline.		
32 18 23 29-0047	EA	Colored Endzone For AstroTurf® GameDay Grass™ 3DX 60 Fields	1,999.62	
		Note: Per endzone.		
32 18 23 29-0048	EA	Simple Logo For AstroTurf® GameDay Grass™ 3DX 60 Fields.....	17,853.75	
		Note: Block letter.		
32 18 23 29-0049	EA	Deluxe Logo For AstroTurf® GameDay Grass™ 3DX 60 Fields.....	25,887.94	
		Note: Graphic.		
32 18 23 29-0050		52 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D 52) <small>(32 18 23 29-0031)</small>		
32 18 23 29-0051	SF	52 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3D 52)	8.18	
		<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
		<i>For Cryo Rubber Infill, Add</i>	0.20	
		<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.25	
		<i>For Cryo Rubber And Sand Infill, Add</i>	0.30	
32 18 23 29-0052	EA	Football Markings For AstroTurf® GameDay Grass™ 3D 52 Fields.....	21,067.42	
32 18 23 29-0053	EA	Baseball Markings For AstroTurf® GameDay Grass™ 3D 52 Fields.....	24,281.10	
32 18 23 29-0054	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3D 52 Fields.....	6,784.42	
		Note: Per sport.		
32 18 23 29-0055	EA	Endzone Lettering For AstroTurf® GameDay Grass™ 3D 52 Fields.....	2,570.94	
		Note: Per letter. Excludes outline.		
32 18 23 29-0056	EA	Colored Endzone For AstroTurf® GameDay Grass™ 3D 52 Fields	2,071.04	
		Note: Per endzone.		
32 18 23 29-0057	EA	Simple Logo For AstroTurf® GameDay Grass™ 3D 52 Fields	18,567.90	
		Note: Block letter.		
32 18 23 29-0058	EA	Deluxe Logo For AstroTurf® GameDay Grass™ 3D 52 Fields	26,923.46	
		Note: Graphic.		
32 18 23 29-0059		60 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D 60) <small>(32 18 23 29-0031)</small>		
32 18 23 29-0060	SF	60 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3D 60)	8.32	
		<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
		<i>For Cryo Rubber Infill, Add</i>	0.20	
		<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.25	
		<i>For Cryo Rubber And Sand Infill, Add</i>	0.30	
32 18 23 29-0061	EA	Football Markings For AstroTurf® GameDay Grass™ 3D 60 Fields.....	21,424.50	
32 18 23 29-0062	EA	Baseball Markings For AstroTurf® GameDay Grass™ 3D 60 Fields.....	25,852.23	
32 18 23 29-0063	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3D 60 Fields.....	7,141.50	
		Note: Per sport.		
32 18 23 29-0064	EA	Endzone Lettering For AstroTurf® GameDay Grass™ 3D 60 Fields.....	2,856.60	
		Note: Per letter. Excludes outline.		
32 18 23 29-0065	EA	Colored Endzone For AstroTurf® GameDay Grass™ 3D 60 Fields	2,142.45	
		Note: Per endzone.		
32 18 23 29-0066	EA	Simple Logo For AstroTurf® GameDay Grass™ 3D 60 Fields	19,282.05	
		Note: Block letter.		



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	32 18 23 29-0067	EA Deluxe Logo For AstroTurf® GameDay Grass™ 3D 60 Fields..... Note: Graphic.	27,958.97	
	32 18 23 29-0068	Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ XPe) <small>(32 18 23 29-0002)</small>		
	32 18 23 29-0069	38 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ XPe 38) <small>(32 18 23 29-0068)</small>		
	32 18 23 29-0070	SF 38 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ XPe 38).....	6.71	
		<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
		<i>For Cryo Rubber Infill, Add</i>	0.26	
		<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.31	
		<i>For Cryo Rubber And Sand Infill, Add</i>	0.36	
	32 18 23 29-0071	EA Football Markings For AstroTurf® GameDay Grass™ XPe 38 Fields.....	18,210.93	
	32 18 23 29-0072	EA Baseball Markings For AstroTurf® GameDay Grass™ XPe 38 Fields.....	13,426.10	
	32 18 23 29-0073	EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ XPe 38 Fields..... Note: Per sport.	3,927.85	
	32 18 23 29-0074	EA Endzone Lettering For AstroTurf® GameDay Grass™ XPe 38 Fields..... Note: Per letter. Excludes outline.	1,428.31	
	32 18 23 29-0075	EA Colored Endzone For AstroTurf® GameDay Grass™ XPe 38 Fields.....	1,499.72	
	32 18 23 29-0076	EA Simple Logo For AstroTurf® GameDay Grass™ XPe 38 Fields..... Note: Block letter.	12,854.78	
	32 18 23 29-0077	EA Deluxe Logo For AstroTurf® GameDay Grass™ XPe 38 Fields..... Note: Graphic.	18,639.43	
	32 18 23 29-0078	42 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ XPe 42) <small>(32 18 23 29-0068)</small>		
	32 18 23 29-0079	SF 42 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ XPe 42).....	5.93	
		<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
		<i>For Cryo Rubber Infill, Add</i>	0.26	
		<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.31	
		<i>For Cryo Rubber And Sand Infill, Add</i>	0.36	
	32 18 23 29-0080	EA Football Markings For AstroTurf® GameDay Grass™ XPe 42 Fields.....	18,567.90	
	32 18 23 29-0081	EA Baseball Markings For AstroTurf® GameDay Grass™ XPe 42 Fields.....	14,283.00	
	32 18 23 29-0082	EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ XPe 42 Fields..... Note: Per sport.	4,284.90	
	32 18 23 29-0083	EA Endzone Lettering For AstroTurf® GameDay Grass™ XPe 42 Fields..... Note: Per letter. Excludes outline.	1,571.13	
	32 18 23 29-0084	EA Colored Endzone For AstroTurf® GameDay Grass™ XPe 42 Fields..... Note: Per endzone.	1,571.13	
	32 18 23 29-0085	EA Simple Logo For AstroTurf® GameDay Grass™ XPe 42 Fields..... Note: Block letter.	13,568.85	
	32 18 23 29-0086	EA Deluxe Logo For AstroTurf® GameDay Grass™ XPe 42 Fields..... Note: Graphic.	19,674.83	
	32 18 23 29-0087	Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Attached Pad (AstroTurf® PureGrass®) <small>(32 18 23 29-0002)</small>		
	32 18 23 29-0088	SF Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Attached Pad (AstroTurf® PureGrass®).....	12.90	
	32 18 23 29-0089	SF Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® PureGrass®).....	11.59	
	32 18 23 29-0090	EA Football Markings For AstroTurf® PureGrass® Fields.....	35,238.64	
	32 18 23 29-0091	EA Baseball Markings For AstroTurf® PureGrass® Fields.....	41,864.72	
	32 18 23 29-0092	EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® PureGrass® Fields..... Note: Per sport.	10,240.29	
	32 18 23 29-0093	EA Endzone Lettering For AstroTurf® PureGrass® Fields..... Note: Per letter. Excludes outline.	3,915.40	
	32 18 23 29-0094	EA Colored Endzone For AstroTurf® PureGrass® Fields..... Note: Per endzone.	2,906.28	
	32 18 23 29-0095	EA Simple Logo For AstroTurf® PureGrass® Fields..... Note: Block letter.	26,156.52	
	32 18 23 29-0096	EA Deluxe Logo For AstroTurf® PureGrass® Fields..... Note: Graphic.	38,401.09	
	32 18 23 29-0097	Synthetic Turf (G9 Turf) <small>(32 18 23 29-0001)</small>		
		Note: Tasks include labor, equipment and material required to install the task.		
	32 18 23 29-0098	SF 2-1/2" Height, 53 Ounce, Tufted 3/8" Gauge Monofilament Synthetic Turf With Thatch Layer And Ethylene Propylene Diene Monomer (EPDM) Infill (G9 Turf Playmaker Turf)..... Note: For football and multi-sport fields. Excludes preparation of sub-base, grooming, sports lines and logos.	7.27	
		<i>For >35,000, Deduct</i>	-0.66	
	32 18 23 29-0099	SF 2" Height, 48 Ounce, Tufted 3/8" Gauge Monofilament Synthetic Turf With Thatch Layer And Ethylene Propylene Diene Monomer (EPDM) Infill (G9 Turf Striker Turf)..... Note: For all sports other than football. Excludes preparation of sub-base, grooming, sports lines and logos.	7.20	
		<i>For >35,000, Deduct</i>	-0.66	

32 Exterior Improvements
32 10 Bases, Ballasts, and Paving
32 18 Athletic and Recreational Surfacing



MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
32 18 23 29-0100	SF	1-3/4" Height, 72 Ounce, Tufted 3/8" Gauge, Two-Color Monofilament Synthetic Turf With Thatch Layer And Acrylic Coated Sand Infill (G9 Turf Perennial Turf).....	7.51		
Note: For landscaped areas or playgrounds. Excludes preparation of sub-base, grooming, sports lines and logos.					
32 18 23 29-0101	EA	Football Inlays For G9 Synthetic Turf.....	48,715.33		
Note: Includes field grid, numbers, arrows, coach's box and kick off lines.					
32 18 23 29-0102	EA	Soccer Inlays For G9 Synthetic Turf.....	21,109.98		
32 18 23 29-0103	EA	Boys Lacrosse Inlays For G9 Synthetic Turf.....	21,109.98		
32 18 23 29-0104	EA	Girls Lacrosse Inlays For G9 Synthetic Turf.....	21,109.98		
32 18 23 29-0105	EA	Field Hockey Inlays For G9 Synthetic Turf.....	21,109.98		
32 18 23 29-0106	EA	Endzone Lettering For G9 Synthetic Turf.....	2,435.77		
Note: Priced per letter. Includes single color outlining.					
32 18 23 29-0107	SF	Ethylene Propylene Diene Monomer (EPDM) Black Infill For G9 Synthetic Turf.....	2.28		
32 18 23 29-0108	SF	Ethylene Propylene Diene Monomer (EPDM) Color Infill For G9 Synthetic Turf.....	5.95		
32 18 23 29-0109	SF	Styrene-Butadiene Rubber (SBR) Infill For G9 Synthetic Turf.....	1.70		
32 18 23 29-0110	SF	Sand Infill For G9 Synthetic Turf.....	0.86		
32 18 23 29-0111	SF	Acrylic Coated Sand Infill For G9 Synthetic Turf.....	1.41		
32 18 23 29-0112	EA	Gmax Compaction And Hardness Test For G9 Synthetic Turf.....	1,623.84		
Note: Includes a comprehensive report.					
32 18 23 29-0113	EA	Safety Bridge Over Track For G9 Synthetic Turf.....	16,238.44		
32 18 23 29-0114	SF	Clean And Groom Synthetic Turf.....	0.53		
Note: Includes using equipment to pick up metal particles in the field, air vacuum the top 2-5 mm of infill, clean and screen to remove broken strands, dirt, bandage, etc.					
<i>For >10,000 To 30,000, Deduct</i>			-0.21		
<i>For >30,000 To 60,000, Deduct</i>			-0.37		
<i>For >60,000, Deduct</i>			-0.41		
32 18 23 29-0115	SF	Rejuvenate Synthetic Turf And Reinstall Existing Infill.....	3.64		
Note: Includes using equipment to extract 10 to 20 mm of infill by delivering high pressure air into the carpet, decompacting the surface and driving out the infill leaving the fiber standing straight up. Includes reinstalling the old infill that was removed.					
32 18 23 29-0116	SF	Rejuvenate Synthetic Turf For Installation Of New Infill.....	4.05		
Note: Includes using equipment to extract 10 to 20 mm of infill by delivering high pressure air into the carpet, decompacting the surface and driving out the infill leaving the fiber standing straight up. Includes disposing of the old infill. Excludes new infill.					
32 18 23 29-0117	SF	Drainage Layer For G9 Synthetic Turf.....	3.32		
Note: Used for drainage over asphalt or on roof tops.					
32 18 23 29-0118	SF	15 mm, Shock Pad For G9 Synthetic Turf.....	2.04		
Note: Used for additional Gmax for a stone base field.					
32 18 23 29-0119	EA	Single Visit Repair Call To Repair Up To 300 LF Of Inlay Lines Or Seams On G9 Synthetic Turf.....	3,236.20		
Note: Includes field inspection and report.					
32 18 23 29-0120	LF	Repair Inlay Lines Or Seams On G9 Synthetic Turf.....	8.90		
Note: Linear foot price for repairs over the initial repair call maximum of 300 LF.					
32 18 23 29-0121	LF	Nailer Used To Attach G9 Synthetic Turf.....	3.56		
32 18 23 29-0122	SF	Removal And Recycling Of Existing Field.....	2.51		
Note: Includes removal, shipping and recycling of infill, fibers and backing.					

32 18 23 33 Running Track Surfacing (32 18 23)

32 18 23 33-0001	Running Track Surfacing (32 18 23 33)				
32 18 23 33-0002	SY	2-1/2" Asphaltic Concrete Running Track Surfacing.....	29.97		
32 18 23 33-0003	Running Track Seal And Colored Surfaces (32 18 23 33)				
32 18 23 33-0004	SY	1 Seal Coat, Striping Of Track.....	17.53		
Note: Includes certification.					

32 18 23 39 Synthetic Running Track Surfacing (32 18 23)

32 18 23 39-0001	Synthetic Running Track Surfacing (XPLODE™) And Striping (32 18 23 39)				
Note: Includes labor, equipment and material required to install the task. Excludes asphalt base.					
32 18 23 39-0002	SY	Paved-In-Place Styrene-Butadiene Rubber (SBR) Or Ethylene Propylene Diene Monomer (EPDM) Rubber Granule Base Mat With Polyurethane Binder, Synthetic Running Track Surfacing (XPLODE™ M100).....	50.92	6.02	
<i>For >5,500, Deduct</i>			-5.60		
<i>For Up To 4,000, Add</i>			17.82		
32 18 23 39-0003	SY	Paved-In-Place Styrene-Butadiene Rubber (SBR) Granule Base Mat With Polyurethane Binder Finished With A Textured And Pigmented Polyurethane And Ethylene Propylene Diene Monomer (EPDM) Rubber Structural Spray Coat, Synthetic Running Track Surfacing (XPLODE™ MS200).....	68.34	6.02	
<i>For >5,500, Deduct</i>			-7.52		
<i>For Up To 4,000, Add</i>			23.92		
<i>For Custom Color Upgrade, Add</i>			6.49		
<i>For Aliphatic Top Coating, Add</i>			12.30		
32 18 23 39-0004	SY	Paved-In-Place Ethylene Propylene Diene Monomer (EPDM) Rubber Granule Base Mat With Polyurethane Binder, Two-Component Polyurethane Sealer Layer And Two-Component Polyurethane Wearing Layer With Embedded Ethylene Propylene Diene Monomer (EPDM) Rubber, Synthetic Running Track Surfacing (XPLODE™ MSX500).....	114.85	6.02	
<i>For >5,500, Deduct</i>			-6.89		
<i>For Up To 4,000, Add</i>			40.20		
<i>For Custom Color Upgrade, Add</i>			8.84		
<i>For Aliphatic Top Coating, Add</i>			16.42		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 39-0005	SY		Full Pour Two-Component Polyurethane Track System With Embedded Ethylene Propylene Diene Monomer (EPDM) Rubber Surface, Synthetic Running Track Surfacing (XPLODE™ MSX5000).....	148.36	6.02
			For >5,500, Deduct	-8.90	
			For Up To 4,000, Add	51.93	
			For Custom Color Upgrade, Add	11.57	
			For Aliphatic Top Coating, Add	16.91	
32 18 23 39-0006	SY		Latex Binder, Synthetic Running Track Surfacing (XPLODE™ Plexitrac® Lightning).....	46.39	
			For >5,500, Deduct	-5.10	
			For Up To 4,000, Add	16.24	
32 18 23 39-0007	SY		Latex Binder, Synthetic Running Track Surfacing (XPLODE™ Plexitrac® Accelerator).....	52.21	
			For >5,500, Deduct	-7.57	
			For Up To 4,000, Add	18.27	
32 18 23 39-0008	SY		Spray Retop XPLODE™ M100/MS200 Running Tracks.....	45.86	
			For Up To 4,000, Add	16.05	
			For >5,500, Deduct	-4.49	
32 18 23 39-0009	SY		Sandwich Retop XPLODE™ MSX500 Running Tracks.....	88.77	
			For Up To 4,000, Add	31.07	
			For >5,500, Deduct	-9.36	
32 18 23 39-0010	SY		Retop XPLODE™ Plexitrac® Lightning Running Tracks.....	25.82	
			Note: Two layers.		
			For Up To 4,000, Add	9.04	
			For >5,500, Deduct	-4.27	
32 18 23 39-0011	SY		Retop XPLODE™ Plexitrac® Accelerator Running Tracks.....	31.44	
			Note: Two layers.		
			For Up To 4,000, Add	11.00	
			For >5,500, Deduct	-4.27	
32 18 23 39-0012	EA		Restripe XPLODE™ Running Track.....	10,673.44	
			Note: Includes two coats of acrylic resurfacer and two coats of color.		
			For College Track Restriping, Add	1,940.62	
32 18 23 53 Tennis Court Surfacing (32 18 23)					
32 18 23 53-0001			Tennis Court Surfacing (32 18 23 53) See CSI section 32 18 23 61-0000 for 100% acrylic tennis court surfacing.		
32 18 23 53-0002	SY		Tennis Court Bituminous Pavement, 2-1/2" Thick.....	32.01	
32 18 23 53-0003			Tennis Court Markings (32 18 23 53)		
32 18 23 53-0004	EA		Paint Markings On Asphalt Tennis Court 2 Coats.....	478.28	
32 18 23 56 Natural Tennis Court Surfacing (32 18 23)					
32 18 23 56-0001	SY		Clay Tennis Court.....	44.26	
32 18 23 56-0002	SY		Tennis Court, Pulverized Natural Greenstone, Fast Dry.....	49.25	
			Note: Includes 4" base.		
32 18 23 56-0003	SY		Tennis Court, Rubber-Cork Base Resilient Pavement.....	18.14	
32 18 23 56-0004	SY		Resurface Clay Tennis Court.....	12.81	
32 18 23 56-0005	SY		Resurface Tennis Court, Pulverized Natural Greenstone.....	10.85	
32 18 23 56-0006	SY		Resurface Tennis Court, Resilient Pavement.....	7.60	
32 18 23 61 Multi-Use, Tennis Court, Basketball Court Athletic Surfacing (32 18 23)					
32 18 23 61-0001			100% Acrylic Athletic Surfacing System (Plexipave®) (32 18 23 61) Note: Excludes asphalt or concrete sub base and repairs of sub base.		
32 18 23 61-0002			Surface Preparation For Athletic Surfacing System (Plexipave®) (32 18 23 61-0001)		
32 18 23 61-0003	SY		100% Acrylic Resurfacer, Athletic Surfacing System (California Products Plexipave® Acrylic Resurfacer), Per Coat.....	1.39	
			Note: Includes ultra fine silica sand. Applied with rubber squeegee.		
32 18 23 61-0004	SY		Acid Etching Concrete Pre-Treatment For Plexipave® Athletic Surfacing System (California Products Plexipave® Concrete Preparer®), Per Coat.....	0.77	
			Note: For previously uncoated portland cement concrete. Applied with broom.		
32 18 23 61-0005	SY		Two-Part, Water Based Epoxy Primer For Plexipave® Athletic Surfacing System (California Products Plexipave® Ti-Coat®), Per Coat.....	1.99	
			Note: For new or uncoated portland cement concrete. Applied with a short nap phenolic roller.		
32 18 23 61-0006	SY		Up To 1/2" Thick, Acrylic Latex Patching Compound, Athletic Surfacing System (California Products Plexipave® Court Patch Binder), Per Coat.....	81.99	
			Note: For patching depressions and uneven texture in new or existing asphalt or concrete surfaces. Includes ultra fine silica sand and portland cement. Applied with trowel or metal screed.		
32 18 23 61-0007			Surface Coatings For Athletic Surfacing System (Plexipave®) (32 18 23 61-0001) Note: Standard colors include dark green, Florida green, light green, maroon, Sahara sand, brown, California red, and cape gray.		
32 18 23 61-0008	SY		100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), First Coat.....	2.99	
			Note: Includes ultra fine silica sand. Applied with rubber squeegee.		
			For Pacific Blue, Add	0.17	
			For US Open Blue, Add	0.60	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 18 Athletic and Recreational Surfacing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 61-0009	SY	100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), Second Coat Note: Includes ultra fine silica sand. Applied with rubber squeegee. For Pacific Blue, Add For US Open Blue, Add	2.40 0.12 0.43	
32 18 23 61-0010	SY	100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), Third Coat Note: Price per coat for third or additional coats. Includes ultra fine silica sand. Applied with rubber squeegee. For Pacific Blue, Add For US Open Blue, Add	2.08 0.10 0.34	
32 18 23 61-0011	SY	Non-Textured, 100% Acrylic Emulsion Color Coating Finish, Athletic Surfacing System (California Products Plexipave® Plexichrome®), Per Coat Note: Non-textured finish coat over Plexipave® for faster playing surfaces. Applied with rubber squeegee followed by wide hair-type push broom. For Pacific Blue, Add For US Open Or Australian Open Blue, Add For Pro Purple, Add	2.21 0.06 0.39 1.01	
32 18 23 61-0012		Line Striping For Athletic Surfacing System (Plexipave®) (32 18 23 61-0001)		
32 18 23 61-0013	SY	Tennis Or Basketball Court Line Striping For Athletic Surfacing System, Per SY Of Court (California Products Plexipave® Hi-Hide Plexicolor®) Note: Textured or non-textured highly reflective line marking paint.	1.31	
32 18 23 61-0014		Cushion Coatings For Athletic Surfacing System (Plexipave® Plexicushion®) (32 18 23 61-0001)		
32 18 23 61-0015	SY	Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), First Coat Note: Applied with rubber squeegee.	4.99	
32 18 23 61-0016	SY	Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), Second Coat Note: Applied with rubber squeegee.	6.87	
32 18 23 61-0017	SY	Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), Third Coat Note: Price per coat for third or additional coats. Applied with rubber squeegee.	5.89	
32 18 23 61-0018	SY	Resilient Latex Undercoating, Athletic Surfacing System (California Products Plexipave® Plexicushion®), First Coat Note: Applied with rubber squeegee.	4.37	
32 18 23 61-0019	SY	Resilient Latex Undercoating, Athletic Surfacing System (California Products Plexipave® Plexicushion®), Second Coat Note: Price per coat for second or additional coats. Applied with rubber squeegee.	3.29	
32 18 23 61-0020		Resurface Athletic Court (32 18 23 61)		
32 18 23 61-0021	SY	Note: Excludes asphalt or concrete sub base and repairs of sub base. Court Resurfacing System, 2 Coats Resurfacer, 2 Coats Color, And Sand (SealMaster).....	2.08	
32 30 Site Improvements (32)				
32 31 Fences and Gates (32 30)				
32 31 11 Gate Operators (32 31)				
32 31 11 00-0001		Gate Operators (32 31 11) Note: Excludes gates, electrical connections, access controls and concrete foundation.		
32 31 11 00-0002		Swing Gate Actuator (DKS™ DoorKing®) (32 31 11 00-0001)		
32 31 11 00-0003		Single Gate, Swing Gate Actuator (32 31 11 00-0002)		
32 31 11 00-0004	EA	Up To 10' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Actuator (DKS™ DoorKing® 6003)..... Note: Includes one primary operator with a 10' wide gate capacity.	1,520.42	188.52
32 31 11 00-0005	EA	Up To 14' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Actuator (DKS™ DoorKing® 6002)..... Note: Includes one primary operator with a 14' wide gate capacity.	2,015.89	188.52
32 31 11 00-0006		Dual Gate, Swing Gate Actuator (32 31 11 00-0002)		
32 31 11 00-0007	EA	Up To 10' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Actuator (DKS™ DoorKing® 6003) Note: Includes one primary and one secondary operator each with a 10' wide gate capacity.	3,040.85	377.04
32 31 11 00-0008	EA	Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Actuator (DKS™ DoorKing® 6002) Note: Includes one primary and one secondary operator each with a 14' wide gate capacity.	4,031.79	377.04
32 31 11 00-0009		Swing Gate Operators (DKS™ DoorKing®) (32 31 11 00-0001)		
32 31 11 00-0010		Single Gate, Swing Gate Operators (32 31 11 00-0009)		
32 31 11 00-0011	EA	400 LB Capacity, Up To 10' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6050) Note: Includes one primary operator with a 10' wide and 400 LB gate capacity.	3,070.34	188.52
32 31 11 00-0012	EA	500 LB Capacity, Up To 14' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6100) Note: Includes one primary operator with a 14' wide and 500 LB gate capacity.	3,337.13	188.52



	Exterior Improvements	32
	Site Improvements	32 30
	Fences and Gates	32 31

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 11 00-0013	EA		700 LB Capacity, Up To 18' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6500)..... Note: Includes one primary operator with an 18' wide and 700 LB gate capacity. <i>For 208/230/460 Volt AC, Add</i>	4,518.63 322.50	188.52
32 31 11 00-0014	EA		800 LB Capacity, Up To 22' Wide Gate, 1 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6500)..... Note: Includes one primary operator with a 22' wide and 800 LB gate capacity. <i>For 208/230/460 Volt AC, Add</i>	5,115.73 322.50	188.52
32 31 11 00-0015			Dual Gate, Swing Gate Operators (32 31 11 00-0009)		
32 31 11 00-0016	EA		400 LB Capacity, Up To 10' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6050)..... Note: Includes one primary and one secondary operator each with a 10' wide and 400 LB gate capacity.	5,441.96	377.04
32 31 11 00-0017	EA		500 LB Capacity, Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6100)..... Note: Includes one primary and one secondary operator each with a 14' wide and 500 LB gate capacity.	5,975.54	377.04
32 31 11 00-0018	EA		700 LB Capacity, Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6500)..... Note: Includes one primary and one secondary operator each with an 18' wide and 700 LB gate capacity. <i>For 208/230/460 Volt AC, Add</i>	8,325.82 322.50	377.04
32 31 11 00-0019	EA		800 LB Capacity, Up To 22' Wide Gates, 1 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6500)..... Note: Includes one primary and one secondary operator each with a 22' wide and 800 LB gate capacity. <i>For 208/230/460 Volt AC, Add</i>	9,634.36 322.50	377.04
32 31 11 00-0020			Sliding Gate Operators (DKS™ DoorKing®) (32 31 11 00-0001)		
32 31 11 00-0021	EA		300 LB Capacity, Up To 16' Wide Gate, 1/2 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9050)..... Note: Includes operator, chain brackets, hardware and 20' of #41 chain.	1,793.36	188.52
32 31 11 00-0022	EA		1,000 LB Capacity, Up To 30' Wide Gate, 1/2 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9100)..... Note: Includes operator, chain brackets, hardware and 20' of #41 chain.	2,512.55	226.22
32 31 11 00-0023	EA		1,500 LB Capacity, Up To 45' Wide Gate, 1 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9150)..... Note: Includes operator, chain brackets, hardware and 20' of #40 chain.	3,113.41	226.22
32 31 11 00-0024	EA		3,000 LB Capacity, Up To 100' Wide Gate, 1 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9210)..... Note: Includes operator, chain brackets, hardware and 20' of #50 chain.	4,068.66	263.93
32 31 11 00-0025	EA		2,000 LB Capacity, Up To 100' Wide Gate, 1 HP Motor, 208/230 Volt AC, Variable Speed, Sliding Gate Operator (DKS™ DoorKing® 9220)..... Note: Includes operator, chain brackets, hardware and 20' of #50 chain.	4,995.70	263.93
32 31 11 00-0026	EA		5,000 LB Capacity, Up To 100' Wide Gate, 3 HP Motor, 208/230 Volt AC, Variable Speed, Sliding Gate Operator (DKS™ DoorKing® 9230)..... Note: Includes operator, chain brackets, hardware and 20' of #60 chain.	6,822.20	301.63
32 31 11 00-0027	EA		5,000 LB Capacity, Up To 100' Wide Gate, 3 HP Motor, 208/230 Volt AC, High Speed, Sliding Gate Operator (DKS™ DoorKing® 9530)..... Note: Includes operator, chain brackets, hardware and 20' of #60 chain.	11,418.79	301.63
32 31 11 00-0028	EA		10,000 LB Capacity, Up To 160' Wide Gate, 5 HP Motor, 208/230 Volt AC, High Speed, Sliding Gate Operator (DKS™ DoorKing® 9550)..... Note: Includes operator, chain brackets, hardware and 20' of #60 chain.	19,374.08	339.34
32 31 11 00-0029			Accessories For Gate Actuators And Operators (DKS™ DoorKing®) (32 31 11 00-0001)		
32 31 11 00-0030	EA		Single Channel Detector Loop For Gate Actuators And Operators (DKS™ DoorKing® 9410).....	517.38	
32 31 11 00-0031	EA		Two Channel Detector Loop For Gate Actuators And Operators (DKS™ DoorKing® 9409).....	1,008.08	
32 31 11 00-0032	EA		Heater Kit For Gate Actuators And Operators (DKS™ DoorKing® 1601).....	658.99	
32 31 11 00-0033	EA		Photoelectric Eye For Gate Actuators And Operators (DKS™ DoorKing® 8080-031).....	721.69	
32 31 11 00-0034	EA		Reversing Edge Sensor For Gate Actuators And Operators (DKS™ DoorKing® 8080-020).....	645.46	
32 31 11 00-0035	EA		Post Mount Base Plate For Gate Actuators And Operators (DKS™ DoorKing® 9310).....	461.25	
32 31 11 00-0036	LF		#40 Chain For Sliding Gate Operators.....	6.33	
32 31 11 00-0037	LF		#41 Chain For Sliding Gate Operators.....	5.04	
32 31 11 00-0038	LF		#50 Chain For Sliding Gate Operators.....	7.04	
32 31 11 00-0039	LF		#60 Chain For Sliding Gate Operators.....	6.69	
32 31 11 00-0040	EA		Exterior Keypad Gate Operator (Linear AK-11).....	545.25	126.47
32 31 11 00-0041			Sliding Gate Operator (LiftMaster) (32 31 11 00-0001)		
32 31 11 00-0042	EA		Up To 1,500 LB Capacity, 120/230 Volt, Single Phase, Sliding Gate Operator With 24 Volt DC Motor (Liftmaster® CSL24U)..... Note: Includes 30' Chain, Retro-Reflective Photoelectric Sensor and Reflector Hoods (LMRRUL) and 5' Resistive Safety Edge (S505AL). <i>For Monitored Wireless Edge Receiver And Transmitter Option (Liftmaster LMWEKITU), Add</i> <i>For Plug-In Loop Detector Option (Liftmaster LOOPETLM), Add</i> <i>For LED Strobe Light With Siren (Liftmaster SL-1301-SAQ), Add</i> <i>For 10 Watt Solar Panel (Liftmaster SP10W12V), Add</i> <i>For Each Additional 10' Chain, Add</i>	2,486.76 168.32 120.48 59.33 238.49 35.72	226.22

32 31 13 Chain Link Fences and Gates (32 31)

32 Exterior Improvements

32 30 Site Improvements

32 31 Fences and Gates



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT UNIT COST
DEMOLITION UNIT COST

32 31 13 13 Chain Link Fences and Gates (32 31 13)

32 31 13 13-0001

Post Holes (32 31 13 13)

Note: Excludes spreading of excess material on site or loading and removal of excavated material from site. See CSI section 02 41 19 13-0081 for core drilling in concrete, 02 41 19 13-0219 for core drilling in asphalt.

32 31 13 13-0002

Auger By Machine Fence Post Hole In Soil (32 31 13 13-0001)

32 31 13 13-0003	VLF	Up To 2-1/2" Diameter Hole, Auger By Machine Fence Post Hole In Soil	8.51
32 31 13 13-0004	VLF	2-1/2" Diameter Hole, Auger By Machine Fence Post Hole In Soil	9.57
32 31 13 13-0005	VLF	3" Diameter Hole, Auger By Machine Fence Post Hole In Soil	11.35
32 31 13 13-0006	VLF	4" Diameter Hole, Auger By Machine Fence Post Hole In Soil	12.76
32 31 13 13-0007	VLF	6" Diameter Hole, Auger By Machine Fence Post Hole In Soil	13.93
32 31 13 13-0008	VLF	8" Diameter Hole, Auger By Machine Fence Post Hole In Soil	15.31
32 31 13 13-0009	VLF	10" Diameter Hole, Auger By Machine Fence Post Hole In Soil	17.02
32 31 13 13-0010	VLF	12" Diameter Hole, Auger By Machine Fence Post Hole In Soil	19.15
32 31 13 13-0011	VLF	18" Diameter Hole, Auger By Machine Fence Post Hole In Soil	21.88
32 31 13 13-0012	VLF	24" Diameter Hole, Auger By Machine Fence Post Hole In Soil	25.53
32 31 13 13-0013	VLF	30" Diameter Hole, Auger By Machine Fence Post Hole In Soil	30.64
32 31 13 13-0014	VLF	36" Diameter Hole, Auger By Machine Fence Post Hole In Soil	38.30

32 31 13 13-0015

Post Hole In Rock (32 31 13 13-0001)

32 31 13 13-0016	CF	Jackhammer Post Hole In Rock	62.85
32 31 13 13-0017	CF	Rock Drill Post Hole In Rock	18.08

32 31 13 13-0018

Fill For Post Holes (32 31 13 13-0001)

See CSI section 03 21 00 00-0000 for reinforcing steel.

32 31 13 13-0019

Concrete Fill For Post Holes (32 31 13 13-0018)

32 31 13 13-0020	VLF	Up To 2-1/2" Diameter, Concrete Fill For Post Hole	5.72
32 31 13 13-0021	VLF	2-1/2" Diameter, Concrete Fill For Post Hole	7.32
32 31 13 13-0022	VLF	3" Diameter, Concrete Fill For Post Hole	8.16
32 31 13 13-0023	VLF	4" Diameter, Concrete Fill For Post Hole	9.57
32 31 13 13-0024	VLF	6" Diameter, Concrete Fill For Post Hole	13.63
32 31 13 13-0025	VLF	8" Diameter, Concrete Fill For Post Hole	18.20
32 31 13 13-0026	VLF	10" Diameter, Concrete Fill For Post Hole	22.33
32 31 13 13-0027	VLF	12" Diameter, Concrete Fill For Post Hole	26.16
32 31 13 13-0028	VLF	18" Diameter, Concrete Fill For Post Hole	36.24
32 31 13 13-0029	VLF	24" Diameter, Concrete Fill For Post Hole	45.57
32 31 13 13-0030	VLF	30" Diameter, Concrete Fill For Post Hole	54.72
32 31 13 13-0031	VLF	36" Diameter, Concrete Fill For Post Hole	64.31

32 31 13 13-0032

Grout Fill For Post Holes (32 31 13 13-0018)

32 31 13 13-0033	VLF	Up To 2-1/2" Diameter, Grout Fill For Post Hole	6.59
32 31 13 13-0034	VLF	2-1/2" Diameter, Grout Fill For Post Hole	8.47
32 31 13 13-0035	VLF	3" Diameter, Grout Fill For Post Hole	9.32
32 31 13 13-0036	VLF	4" Diameter, Grout Fill For Post Hole	10.69
32 31 13 13-0037	VLF	6" Diameter, Grout Fill For Post Hole	15.06
32 31 13 13-0038	VLF	8" Diameter, Grout Fill For Post Hole	20.11
32 31 13 13-0039	VLF	10" Diameter, Grout Fill For Post Hole	24.59
32 31 13 13-0040	VLF	12" Diameter, Grout Fill For Post Hole	28.68
32 31 13 13-0041	VLF	18" Diameter, Grout Fill For Post Hole	39.00
32 31 13 13-0042	VLF	24" Diameter, Grout Fill For Post Hole	48.33
32 31 13 13-0043	VLF	30" Diameter, Grout Fill For Post Hole	57.44
32 31 13 13-0044	VLF	36" Diameter, Grout Fill For Post Hole	66.86

32 31 13 13-0045

Compacted Earth Fill For Post Holes (32 31 13 13-0018)

32 31 13 13-0046	VLF	Up To 2-1/2" Diameter, Compacted Earth Fill For Post Hole	4.19
32 31 13 13-0047	VLF	2-1/2" Diameter, Compacted Earth Fill For Post Hole	5.46
32 31 13 13-0048	VLF	3" Diameter, Compacted Earth Fill For Post Hole	5.71
32 31 13 13-0049	VLF	4" Diameter, Compacted Earth Fill For Post Hole	5.88
32 31 13 13-0050	VLF	6" Diameter, Compacted Earth Fill For Post Hole	7.85
32 31 13 13-0051	VLF	8" Diameter, Compacted Earth Fill For Post Hole	10.47
32 31 13 13-0052	VLF	10" Diameter, Compacted Earth Fill For Post Hole	12.57
32 31 13 13-0053	VLF	12" Diameter, Compacted Earth Fill For Post Hole	14.25
32 31 13 13-0054	VLF	18" Diameter, Compacted Earth Fill For Post Hole	17.36
32 31 13 13-0055	VLF	24" Diameter, Compacted Earth Fill For Post Hole	19.48
32 31 13 13-0056	VLF	30" Diameter, Compacted Earth Fill For Post Hole	21.37
32 31 13 13-0057	VLF	36" Diameter, Compacted Earth Fill For Post Hole	23.04

32 31 13 13-0058

Fence Posts (32 31 13 13)

Note: Demolition excludes concrete footing removal on posts and excavation. See CSI section 31 23 16 36-0009 for hand excavation for footing removal (where required), 32 31 13 13-0001 for drilling for augering holes and backfill.

32 31 13 13-0059

Fence Posts (32 31 13 13-0058)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0060 1-7/8" H-Beam Post Without Top Rail Fitting, Galvanized Steel (32 31 13 13-0059) <i>Note: Includes cap and accessories.</i>		
32 31 13 13-0061 LF 1-7/8" Galvanized H-beam Post, Up To 6' In Length	15.27	2.81
<i>For Each Top Rail Fitting, Add</i>	0.85	
32 31 13 13-0062 LF 1-7/8" Galvanized H-beam Post, 7' To 10' In Length	14.46	2.40
<i>For Each Top Rail Fitting, Add</i>	0.85	
32 31 13 13-0063 LF 1-7/8" Galvanized H-beam Post, 11' To 15' In Length	13.49	1.98
<i>For Each Top Rail Fitting, Add</i>	0.85	
32 31 13 13-0064 LF 1-7/8" Galvanized H-beam Post, 16' To 20' In Length	12.70	1.56
<i>For Each Top Rail Fitting, Add</i>	0.85	
32 31 13 13-0065 LF 1-7/8" Galvanized H-beam Post, 21' To 24' In Length	12.18	1.35
<i>For Each Top Rail Fitting, Add</i>	0.85	
32 31 13 13-0066 LF 1-7/8" Galvanized H-beam Post, >24' In Length	11.36	0.94
<i>For Each Top Rail Fitting, Add</i>	0.85	
 32 31 13 13-0067 Post Without Top Rail Fitting, Galvanized Steel (1.66" Nominal) (32 31 13 13-0059) <i>Note: 1-5/8" outside diameter, Schedule 40. Includes cap and accessories.</i>		
32 31 13 13-0068 LF Up To 6' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	10.57	2.60
<i>For Each Top Rail Fitting, Add</i>	0.85	
<i>For Each Single Barbed Wire Arm, Add</i>	1.90	
<i>For Each Double Barbed Wire Arm, Add</i>	3.40	
<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	1.34	
<i>For Vinyl Coated, Add</i>	3.22	
<i>For Powder Coated, Add</i>	4.29	
<i>For Aluminum Coated, Add</i>	6.70	
<i>For Schedule 20, Deduct</i>	-1.07	
<i>For Schedule 80, Add</i>	3.09	
32 31 13 13-0069 LF 7' To 10' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	9.77	2.19
<i>For Each Top Rail Fitting, Add</i>	0.85	
<i>For Each Single Barbed Wire Arm, Add</i>	1.90	
<i>For Each Double Barbed Wire Arm, Add</i>	3.40	
<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	1.34	
<i>For Vinyl Coated, Add</i>	3.22	
<i>For Powder Coated, Add</i>	4.29	
<i>For Aluminum Coated, Add</i>	6.70	
<i>For Schedule 20, Deduct</i>	-1.07	
<i>For Schedule 80, Add</i>	3.01	
32 31 13 13-0070 LF 11' To 15' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	8.87	1.77
<i>For Each Top Rail Fitting, Add</i>	0.85	
<i>For Each Single Barbed Wire Arm, Add</i>	1.90	
<i>For Each Double Barbed Wire Arm, Add</i>	3.40	
<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	1.34	
<i>For Vinyl Coated, Add</i>	3.22	
<i>For Powder Coated, Add</i>	4.29	
<i>For Aluminum Coated, Add</i>	6.70	
<i>For Schedule 20, Deduct</i>	-1.07	
<i>For Schedule 80, Add</i>	2.92	
32 31 13 13-0071 LF 16' To 20' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	8.17	1.35
<i>For Each Top Rail Fitting, Add</i>	0.85	
<i>For Each Single Barbed Wire Arm, Add</i>	1.90	
<i>For Each Double Barbed Wire Arm, Add</i>	3.40	
<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	1.34	
<i>For Vinyl Coated, Add</i>	3.22	
<i>For Powder Coated, Add</i>	4.29	
<i>For Aluminum Coated, Add</i>	6.70	
<i>For Schedule 20, Deduct</i>	-1.07	
<i>For Schedule 80, Add</i>	2.85	
32 31 13 13-0072 LF 21' To 24' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	7.71	1.15
<i>For Each Top Rail Fitting, Add</i>	0.85	
<i>For Each Single Barbed Wire Arm, Add</i>	1.90	
<i>For Each Double Barbed Wire Arm, Add</i>	3.40	
<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	1.34	
<i>For Vinyl Coated, Add</i>	3.22	
<i>For Powder Coated, Add</i>	4.29	
<i>For Aluminum Coated, Add</i>	6.70	
<i>For Schedule 20, Deduct</i>	-1.07	
<i>For Schedule 80, Add</i>	2.81	
32 31 13 13-0073 LF >24' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	7.20	0.94
<i>For Each Top Rail Fitting, Add</i>	0.85	
<i>For Each Single Barbed Wire Arm, Add</i>	1.90	
<i>For Each Double Barbed Wire Arm, Add</i>	3.40	
<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	1.34	
<i>For Vinyl Coated, Add</i>	3.22	
<i>For Powder Coated, Add</i>	4.29	
<i>For Aluminum Coated, Add</i>	6.70	
<i>For Schedule 20, Deduct</i>	-1.07	
<i>For Schedule 80, Add</i>	2.76	
 32 31 13 13-0074 Post Without Top Rail Fitting, Galvanized Steel (1.90" Nominal) (32 31 13 13-0059) <i>Note: 2" outside diameter, Schedule 40. Includes cap and accessories.</i>		

32	32 Exterior Improvements
	32 30 Site Improvements
	32 31 Fences and Gates



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT	COST	UNIT COST
32 31 13 13-0075	LF 2" Outside Diameter Galvanized Steel Post, Up To 6' In Length..... <i>For Each Top Rail Fitting, Add</i> <i>For Each Single Barbed Wire Arm, Add</i> <i>For Each Double Barbed Wire Arm, Add</i> <i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i> <i>For Vinyl Coated, Add</i> <i>For Powder Coated, Add</i> <i>For Aluminum Coated, Add</i> <i>For Schedule 20, Deduct</i> <i>For Schedule 80, Add</i>		11.94	2.71
			1.35	
			2.65	
			4.88	
			1.64	
			3.93	
			5.24	
			8.19	
			-1.31	
			3.68	
32 31 13 13-0076	LF 2" Outside Diameter Galvanized Steel Post, 7' To 10' In Length <i>For Each Top Rail Fitting, Add</i> <i>For Each Single Barbed Wire Arm, Add</i> <i>For Each Double Barbed Wire Arm, Add</i> <i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i> <i>For Vinyl Coated, Add</i> <i>For Powder Coated, Add</i> <i>For Aluminum Coated, Add</i> <i>For Schedule 20, Deduct</i> <i>For Schedule 80, Add</i>		11.22	2.29
			1.35	
			2.65	
			4.88	
			1.64	
			3.93	
			5.24	
			8.19	
			-1.31	
			3.61	
32 31 13 13-0077	LF 2" Outside Diameter Galvanized Steel Post, 11' To 15' In Length <i>For Each Top Rail Fitting, Add</i> <i>For Each Single Barbed Wire Arm, Add</i> <i>For Each Double Barbed Wire Arm, Add</i> <i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i> <i>For Vinyl Coated, Add</i> <i>For Powder Coated, Add</i> <i>For Aluminum Coated, Add</i> <i>For Schedule 20, Deduct</i> <i>For Schedule 80, Add</i>		10.27	1.87
			1.35	
			2.65	
			4.88	
			1.64	
			3.93	
			5.24	
			8.19	
			-1.31	
			3.52	
32 31 13 13-0078	LF 2" Outside Diameter Galvanized Steel Post, 16' To 20' In Length <i>For Each Top Rail Fitting, Add</i> <i>For Each Single Barbed Wire Arm, Add</i> <i>For Each Double Barbed Wire Arm, Add</i> <i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i> <i>For Vinyl Coated, Add</i> <i>For Powder Coated, Add</i> <i>For Aluminum Coated, Add</i> <i>For Schedule 20, Deduct</i> <i>For Schedule 80, Add</i>		9.53	1.46
			1.35	
			2.65	
			4.88	
			1.64	
			3.93	
			5.24	
			8.19	
			-1.31	
			3.44	
32 31 13 13-0079	LF 2" Outside Diameter Galvanized Steel Post, 21' To 24' In Length <i>For Each Top Rail Fitting, Add</i> <i>For Each Single Barbed Wire Arm, Add</i> <i>For Each Double Barbed Wire Arm, Add</i> <i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i> <i>For Vinyl Coated, Add</i> <i>For Powder Coated, Add</i> <i>For Aluminum Coated, Add</i> <i>For Schedule 20, Deduct</i> <i>For Schedule 80, Add</i>		9.03	1.25
			1.35	
			2.65	
			4.88	
			1.64	
			3.93	
			5.24	
			8.19	
			-1.31	
			3.39	
32 31 13 13-0080	LF 2" Outside Diameter Galvanized Steel Post, >24' In Length <i>For Each Top Rail Fitting, Add</i> <i>For Each Single Barbed Wire Arm, Add</i> <i>For Each Double Barbed Wire Arm, Add</i> <i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i> <i>For Vinyl Coated, Add</i> <i>For Powder Coated, Add</i> <i>For Aluminum Coated, Add</i> <i>For Schedule 20, Deduct</i> <i>For Schedule 80, Add</i>		8.56	1.04
			1.35	
			2.65	
			4.88	
			1.64	
			3.93	
			5.24	
			8.19	
			-1.31	
			3.35	
32 31 13 13-0081	Post Without Top Rail Fitting, Galvanized Steel (2.375" Nominal) (32 31 13 13-0059) Note: 2-1/2" outside diameter, Schedule 40. Includes cap and accessories.			
32 31 13 13-0082	LF 2-1/2" Outside Diameter Galvanized Steel Post, Up To 6' In Length <i>For Each Top Rail Fitting, Add</i> <i>For Each Single Barbed Wire Arm, Add</i> <i>For Each Double Barbed Wire Arm, Add</i> <i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i> <i>For Vinyl Coated, Add</i> <i>For Powder Coated, Add</i> <i>For Aluminum Coated, Add</i> <i>For Schedule 20, Deduct</i> <i>For Schedule 80, Add</i>		14.39	2.92
			1.35	
			2.65	
			4.88	
			2.18	
			5.22	
			6.96	
			10.88	
			-1.74	
			4.75	
32 31 13 13-0083	LF 2-1/2" Outside Diameter Galvanized Steel Post, 7' To 10' In Length <i>For Each Top Rail Fitting, Add</i> <i>For Each Single Barbed Wire Arm, Add</i> <i>For Each Double Barbed Wire Arm, Add</i> <i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i> <i>For Vinyl Coated, Add</i> <i>For Powder Coated, Add</i> <i>For Aluminum Coated, Add</i> <i>For Schedule 20, Deduct</i> <i>For Schedule 80, Add</i>		13.58	2.50
			1.35	
			2.65	
			4.88	
			2.18	
			5.22	
			6.96	
			10.88	
			-1.74	
			4.66	



Exterior Improvements	32	
Site Improvements	32 30	32
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0084 LF 2-1/2" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	12.61	1.98
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.18	
For Vinyl Coated, Add	5.22	
For Powder Coated, Add	6.96	
For Aluminum Coated, Add	10.88	
For Schedule 20, Deduct	-1.74	
For Schedule 80, Add	4.57	
32 31 13 13-0085 LF 2-1/2" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	11.82	1.56
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.18	
For Vinyl Coated, Add	5.22	
For Powder Coated, Add	6.96	
For Aluminum Coated, Add	10.88	
For Schedule 20, Deduct	-1.74	
For Schedule 80, Add	4.49	
32 31 13 13-0086 LF 2-1/2" Outside Diameter Galvanized Steel Post, 21 To 24' In Length	11.30	1.35
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.18	
For Vinyl Coated, Add	5.22	
For Powder Coated, Add	6.96	
For Aluminum Coated, Add	10.88	
For Schedule 20, Deduct	-1.74	
For Schedule 80, Add	4.44	
32 31 13 13-0087 LF 2-1/2" Outside Diameter Galvanized Steel Post, >24' In Length	10.81	1.04
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.18	
For Vinyl Coated, Add	5.22	
For Powder Coated, Add	6.96	
For Aluminum Coated, Add	10.88	
For Schedule 20, Deduct	-1.74	
For Schedule 80, Add	4.39	
32 31 13 13-0088 Post Without Top Rail Fitting, Galvanized Steel (2.875" Nominal) <small>(32 31 13 13-0059)</small>		
Note: 3" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0089 LF 3" Outside Diameter Galvanized Steel Post, Up To 6' In Length	19.26	3.12
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	3.25	
For Vinyl Coated, Add	7.81	
For Powder Coated, Add	10.41	
For Aluminum Coated, Add	16.26	
For Schedule 20, Deduct	-2.60	
For Schedule 80, Add	6.87	
32 31 13 13-0090 LF 3" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	18.40	2.71
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	3.25	
For Vinyl Coated, Add	7.81	
For Powder Coated, Add	10.41	
For Aluminum Coated, Add	16.26	
For Schedule 20, Deduct	-2.60	
For Schedule 80, Add	6.78	
32 31 13 13-0091 LF 3" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	17.35	2.19
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	3.25	
For Vinyl Coated, Add	7.81	
For Powder Coated, Add	10.41	
For Aluminum Coated, Add	16.26	
For Schedule 20, Deduct	-2.60	
For Schedule 80, Add	6.68	
32 31 13 13-0092 LF 3" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	16.49	1.77
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	3.25	
For Vinyl Coated, Add	7.81	
For Powder Coated, Add	10.41	
For Aluminum Coated, Add	16.26	
For Schedule 20, Deduct	-2.60	
For Schedule 80, Add	6.59	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0093	LF	3" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	15.91	1.46
		<i>For Each Top Rail Fitting, Add</i>	1.85	
		<i>For Each Single Barbed Wire Arm, Add</i>	3.85	
		<i>For Each Double Barbed Wire Arm, Add</i>	7.05	
		<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	3.25	
		<i>For Vinyl Coated, Add</i>	7.81	
		<i>For Powder Coated, Add</i>	10.41	
		<i>For Aluminum Coated, Add</i>	16.26	
		<i>For Schedule 20, Deduct</i>	-2.60	
		<i>For Schedule 80, Add</i>	6.53	
32 31 13 13-0094	LF	3" Outside Diameter Galvanized Steel Post, >24' In Length	15.36	1.15
		<i>For Each Top Rail Fitting, Add</i>	1.85	
		<i>For Each Single Barbed Wire Arm, Add</i>	3.85	
		<i>For Each Double Barbed Wire Arm, Add</i>	7.05	
		<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	3.25	
		<i>For Vinyl Coated, Add</i>	7.81	
		<i>For Powder Coated, Add</i>	10.41	
		<i>For Aluminum Coated, Add</i>	16.26	
		<i>For Schedule 20, Deduct</i>	-2.60	
		<i>For Schedule 80, Add</i>	6.48	
32 31 13 13-0095		Post Without Top Rail Fitting, Galvanized Steel, (4.00" Nominal) <small>(32 31 13 13-0099)</small>		
		Note: 4" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0096	LF	4" Outside Diameter Galvanized Steel Post, Up To 6' In Length	27.73	3.33
		<i>For Each Top Rail Fitting, Add</i>	2.60	
		<i>For Each Single Barbed Wire Arm, Add</i>	5.10	
		<i>For Each Double Barbed Wire Arm, Add</i>	11.25	
		<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	5.29	
		<i>For Vinyl Coated, Add</i>	12.68	
		<i>For Powder Coated, Add</i>	16.91	
		<i>For Aluminum Coated, Add</i>	26.43	
		<i>For Schedule 20, Deduct</i>	-4.23	
		<i>For Schedule 80, Add</i>	10.81	
32 31 13 13-0097	LF	4" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	26.63	2.71
		<i>For Each Top Rail Fitting, Add</i>	2.60	
		<i>For Each Single Barbed Wire Arm, Add</i>	5.10	
		<i>For Each Double Barbed Wire Arm, Add</i>	11.25	
		<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	5.29	
		<i>For Vinyl Coated, Add</i>	12.68	
		<i>For Powder Coated, Add</i>	16.91	
		<i>For Aluminum Coated, Add</i>	26.43	
		<i>For Schedule 20, Deduct</i>	-4.23	
		<i>For Schedule 80, Add</i>	10.70	
32 31 13 13-0098	LF	4" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	25.71	2.29
		<i>For Each Top Rail Fitting, Add</i>	2.60	
		<i>For Each Single Barbed Wire Arm, Add</i>	5.10	
		<i>For Each Double Barbed Wire Arm, Add</i>	11.25	
		<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	5.29	
		<i>For Vinyl Coated, Add</i>	12.68	
		<i>For Powder Coated, Add</i>	16.91	
		<i>For Aluminum Coated, Add</i>	26.43	
		<i>For Schedule 20, Deduct</i>	-4.23	
		<i>For Schedule 80, Add</i>	10.60	
32 31 13 13-0099	LF	4" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	24.80	1.87
		<i>For Each Top Rail Fitting, Add</i>	2.60	
		<i>For Each Single Barbed Wire Arm, Add</i>	5.10	
		<i>For Each Double Barbed Wire Arm, Add</i>	11.25	
		<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	5.29	
		<i>For Vinyl Coated, Add</i>	12.68	
		<i>For Powder Coated, Add</i>	16.91	
		<i>For Aluminum Coated, Add</i>	26.43	
		<i>For Schedule 20, Deduct</i>	-4.23	
		<i>For Schedule 80, Add</i>	10.51	
32 31 13 13-0100	LF	4" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	24.79	1.87
		<i>For Each Top Rail Fitting, Add</i>	2.60	
		<i>For Each Single Barbed Wire Arm, Add</i>	5.10	
		<i>For Each Double Barbed Wire Arm, Add</i>	11.25	
		<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	5.29	
		<i>For Vinyl Coated, Add</i>	12.68	
		<i>For Powder Coated, Add</i>	16.91	
		<i>For Aluminum Coated, Add</i>	26.43	
		<i>For Schedule 20, Deduct</i>	-4.23	
		<i>For Schedule 80, Add</i>	10.51	
32 31 13 13-0101	LF	4" Outside Diameter Galvanized Steel Post, >24' In Length	23.74	1.35
		<i>For Each Top Rail Fitting, Add</i>	2.60	
		<i>For Each Single Barbed Wire Arm, Add</i>	5.10	
		<i>For Each Double Barbed Wire Arm, Add</i>	11.25	
		<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	5.29	
		<i>For Vinyl Coated, Add</i>	12.68	
		<i>For Powder Coated, Add</i>	16.91	
		<i>For Aluminum Coated, Add</i>	26.43	
		<i>For Schedule 20, Deduct</i>	-4.23	
		<i>For Schedule 80, Add</i>	10.41	



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0102 Post Without Top Rail Fitting, Galvanized Steel (6.625" Nominal) <small>(32 31 13 13-0059)</small>		
Note: 6-5/8" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0103 LF 6-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length	52.14	3.65
For Each Top Rail Fitting, Add	4.55	
For Each Single Barbed Wire Arm, Add	7.15	
For Each Double Barbed Wire Arm, Add	14.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	11.21	
For Vinyl Coated, Add	26.89	
For Powder Coated, Add	35.86	
For Aluminum Coated, Add	56.03	
For Schedule 20, Deduct	-8.96	
For Schedule 80, Add	22.25	
32 31 13 13-0104 LF 6-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	50.95	3.02
For Each Top Rail Fitting, Add	4.55	
For Each Single Barbed Wire Arm, Add	7.15	
For Each Double Barbed Wire Arm, Add	14.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	11.21	
For Vinyl Coated, Add	26.89	
For Powder Coated, Add	35.86	
For Aluminum Coated, Add	56.03	
For Schedule 20, Deduct	-8.96	
For Schedule 80, Add	22.13	
32 31 13 13-0105 LF 6-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	49.90	2.50
For Each Top Rail Fitting, Add	4.55	
For Each Single Barbed Wire Arm, Add	7.15	
For Each Double Barbed Wire Arm, Add	14.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	11.21	
For Vinyl Coated, Add	26.89	
For Powder Coated, Add	35.86	
For Aluminum Coated, Add	56.03	
For Schedule 20, Deduct	-8.96	
For Schedule 80, Add	22.02	
32 31 13 13-0106 LF 6-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	48.88	1.98
For Each Top Rail Fitting, Add	4.55	
For Each Single Barbed Wire Arm, Add	7.15	
For Each Double Barbed Wire Arm, Add	14.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	11.21	
For Vinyl Coated, Add	26.89	
For Powder Coated, Add	35.86	
For Aluminum Coated, Add	56.03	
For Schedule 20, Deduct	-8.96	
For Schedule 80, Add	21.92	
32 31 13 13-0107 LF 6-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	48.30	1.77
For Each Top Rail Fitting, Add	4.55	
For Each Single Barbed Wire Arm, Add	7.15	
For Each Double Barbed Wire Arm, Add	14.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	11.21	
For Vinyl Coated, Add	26.89	
For Powder Coated, Add	35.86	
For Aluminum Coated, Add	56.03	
For Schedule 20, Deduct	-8.96	
For Schedule 80, Add	21.86	
32 31 13 13-0108 LF 6-5/8" Outside Diameter Galvanized Steel Post, >24' In Length	47.72	1.46
For Each Top Rail Fitting, Add	4.55	
For Each Single Barbed Wire Arm, Add	7.15	
For Each Double Barbed Wire Arm, Add	14.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	11.21	
For Vinyl Coated, Add	26.89	
For Powder Coated, Add	35.86	
For Aluminum Coated, Add	56.03	
For Schedule 20, Deduct	-8.96	
For Schedule 80, Add	21.80	
32 31 13 13-0109 Post Without Top Rail Fitting, Galvanized Steel (8.625" Nominal) <small>(32 31 13 13-0059)</small>		
Note: 8-5/8" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0110 LF 8-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length	99.97	4.06
For Each Top Rail Fitting, Add	7.50	
For Each Single Barbed Wire Arm, Add	9.15	
For Each Double Barbed Wire Arm, Add	18.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	22.96	
For Vinyl Coated, Add	55.11	
For Powder Coated, Add	73.48	
For Aluminum Coated, Add	114.81	
For Schedule 20, Deduct	-18.37	
For Schedule 80, Add	44.90	
32 31 13 13-0111 LF 8-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	98.65	3.44
For Each Top Rail Fitting, Add	7.50	
For Each Single Barbed Wire Arm, Add	9.15	
For Each Double Barbed Wire Arm, Add	18.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	22.96	
For Vinyl Coated, Add	55.11	
For Powder Coated, Add	73.48	
For Aluminum Coated, Add	114.81	
For Schedule 20, Deduct	-18.37	
For Schedule 80, Add	44.77	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0112 LF 8-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	97.48	2.81
For Each Top Rail Fitting, Add	7.50	
For Each Single Barbed Wire Arm, Add	9.15	
For Each Double Barbed Wire Arm, Add	18.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	22.96	
For Vinyl Coated, Add	55.11	
For Powder Coated, Add	73.48	
For Aluminum Coated, Add	114.81	
For Schedule 20, Deduct	-18.37	
For Schedule 80, Add	44.65	
32 31 13 13-0113 LF 8-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	96.32	2.19
For Each Top Rail Fitting, Add	7.50	
For Each Single Barbed Wire Arm, Add	9.15	
For Each Double Barbed Wire Arm, Add	18.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	22.96	
For Vinyl Coated, Add	55.11	
For Powder Coated, Add	73.48	
For Aluminum Coated, Add	114.81	
For Schedule 20, Deduct	-18.37	
For Schedule 80, Add	44.54	
32 31 13 13-0114 LF 8-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	95.71	1.87
For Each Top Rail Fitting, Add	7.50	
For Each Single Barbed Wire Arm, Add	9.15	
For Each Double Barbed Wire Arm, Add	18.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	22.96	
For Vinyl Coated, Add	55.11	
For Powder Coated, Add	73.48	
For Aluminum Coated, Add	114.81	
For Schedule 20, Deduct	-18.37	
For Schedule 80, Add	44.47	
32 31 13 13-0115 LF 8-5/8" Outside Diameter Galvanized Steel Post, >24' In Length	95.07	1.56
For Each Top Rail Fitting, Add	7.50	
For Each Single Barbed Wire Arm, Add	9.15	
For Each Double Barbed Wire Arm, Add	18.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	22.96	
For Vinyl Coated, Add	55.11	
For Powder Coated, Add	73.48	
For Aluminum Coated, Add	114.81	
For Schedule 20, Deduct	-18.37	
For Schedule 80, Add	44.41	
32 31 13 13-0116 Driven Post Supports (32 31 13 13)		
Note: OZ-Post.		
32 31 13 13-0117 Driven Post Support For Round Chain Link Fence Posts (32 31 13 13-0116)		
32 31 13 13-0118 EA 26" Driven Post Support For 1-5/8" Round Chain Link Fence Post.....	59.51	
Note: OZ-Post GB-700.		
32 31 13 13-0119 EA 26" Driven Post Support For 1-7/8" To 2" Round Chain Link Fence Post	59.51	
Note: OZ-Post HB-700.		
32 31 13 13-0120 EA 26" Driven Post Support For 2-3/8" To 2-1/2" Round Chain Link Fence Post	60.84	
Note: OZ-Post IS-600.		
32 31 13 13-0121 EA 32" Driven Post Support For 2-3/8" To 2-1/2" Round Chain Link Fence Post	73.45	
Note: OZ-Post ISW-850.		
32 31 13 13-0122 Driven Post Support For Square Ornamental Fence Posts (32 31 13 13-0116)		
32 31 13 13-0123 EA 34" Driven Post Support For 1-3/4" Square Ornamental Fence Post.....	69.44	
Note: OZ-Post C175-850.		
32 31 13 13-0124 EA 24" Driven Post Support For 2" Square Ornamental Fence Post.....	67.44	
Note: OZ-Post I2-600.		
32 31 13 13-0125 EA 34" Driven Post Support For 2" Square Ornamental Fence Post.....	69.84	
Note: OZ-Post I2-850.		
32 31 13 13-0126 EA 34" Driven Post Support For 2-1/2" Square Ornamental Fence Post.....	73.45	
Note: OZ-Post I25-850.		
32 31 13 13-0127 EA 34" Driven Post Support For 3" Square Ornamental Fence Post	73.45	
Note: OZ-Post I3-850.		
32 31 13 13-0128 Driven Post Support For Wooden Fence Posts (32 31 13 13-0116)		
32 31 13 13-0129 EA 24" Driven Post Support For 3-1/2" Square Wooden Fence Post	66.62	
Note: OZ-Post T4-600.		
32 31 13 13-0130 EA 34" Driven Post Support For 3-1/2" Square Wooden Fence Post	71.44	
Note: OZ-Post T4-850.		
32 31 13 13-0131 EA 34" Driven Post Support For 3-3/4" Square Wooden Fence Post	76.11	
Note: OZ-Post C4-850.		
32 31 13 13-0132 EA 34" Driven Post Support For 4" Square Wooden Fence Post	76.12	
Note: OZ-Post P4-850.		
32 31 13 13-0133 EA 36" Driven Post Support For 4" x 6" Wooden Fence Post.....	84.80	
Note: OZ-Post T46-850.		
32 31 13 13-0134 EA 36" Driven Post Support For 6" Square Wooden Fence Post	90.93	
Note: OZ-Post T6-850.		
32 31 13 13-0135 Driven Post Support For Vinyl Fence Posts (32 31 13 13-0116)		



	Exterior Improvements	32
	Site Improvements	32 30
	Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0136 EA 24" Driven Post Support For 3-1/2" Square Vinyl Fence Post..... Note: OZ-Post T4-600.	66.62	
32 31 13 13-0137 EA 34" Driven Post Support For 3-1/2" Square Vinyl Fence Post..... Note: OZ-Post T4-850.	71.44	
32 31 13 13-0138 EA 34" Driven Post Support For 4" Square Vinyl Fence Post..... Note: OZ-Post P4-850.	76.12	
32 31 13 13-0139 EA 34" Driven Post Support For 5" Square Vinyl Fence Post..... Note: OZ-Post P4-850.	77.18	
32 31 13 13-0140 Chain Link Fence Assemblies <small>(32 31 13 13)</small>		
32 31 13 13-0141 Chain Link Fence Assembly With 2-1/2" Line Post And 3" Corner Posts <small>(32 31 13 13-0140)</small> Note: Includes 2" 9 gauge coiled spring mesh (knuckled selvedge), tension bars, post tension bands, wire ties, truss rod (at corners or posts), 1-5/8" top rail, 1-5/8" bottom rail, 2-1/2" line post and 3" corner posts. Posts exclude drilling or augering in soil or rock, concrete or soil fill. Heights indicated are from ground to top of installed pole. Minimum 2' bury with up to one third of exposed post height to be buried in ground. Excludes grounding. Demolition excludes concrete footing removal on posts and excavation. See CSI section 26 05 26 00-0000 for grounding, 31 23 16 36-0009 for hand excavation for footing removal (where required), 32 31 13 13-0670 for barb wire attachments.		
32 31 13 13-0142 Galvanized <small>(32 31 13 13-0141)</small>		
32 31 13 13-0143 LF 3' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post..... <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	30.82	3.54
32 31 13 13-0144 LF 3'-6" Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post..... <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	32.04	3.54
32 31 13 13-0145 LF 4' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post..... <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	33.10	3.54
32 31 13 13-0146 LF 5' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post..... <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	35.59	3.54

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0147	LF	6' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	38.60	3.54
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	2.72	
			<i>For 13 Gauge Fabric, Deduct</i>	-7.94	
			<i>For 11 Gauge Fabric, Deduct</i>	-4.64	
			<i>For 6 Gauge Fabric, Add</i>	7.29	
			<i>For 1" Mesh Fabric, Add</i>	9.94	
			<i>For 1-3/4" Mesh Fabric, Add</i>	3.98	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.99	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-2.65	
			<i>For Posts 8' On Centers, Add</i>	2.12	
			<i>For Posts 5' On Centers, Add</i>	7.97	
			<i>For Up To 100, Add</i>	7.36	
			<i>For >100 To 250, Add</i>	2.72	
			<i>For >2,500 To 5,000, Deduct</i>	-1.36	
			<i>For >5,000, Deduct</i>	-2.72	
32 31 13	13-0148	LF	7' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	40.18	5.31
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	2.83	
			<i>For 13 Gauge Fabric, Deduct</i>	-8.29	
			<i>For 11 Gauge Fabric, Deduct</i>	-4.84	
			<i>For 6 Gauge Fabric, Add</i>	7.61	
			<i>For 1" Mesh Fabric, Add</i>	10.37	
			<i>For 1-3/4" Mesh Fabric, Add</i>	4.15	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.07	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-2.77	
			<i>For Posts 8' On Centers, Add</i>	2.20	
			<i>For Posts 5' On Centers, Add</i>	8.29	
			<i>For Up To 100, Add</i>	7.66	
			<i>For >100 To 250, Add</i>	2.83	
			<i>For >2,500 To 5,000, Deduct</i>	-1.41	
			<i>For >5,000, Deduct</i>	-2.83	
32 31 13	13-0149	LF	8' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	45.38	6.20
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.14	
			<i>For 13 Gauge Fabric, Deduct</i>	-9.73	
			<i>For 11 Gauge Fabric, Deduct</i>	-5.68	
			<i>For 6 Gauge Fabric, Add</i>	8.93	
			<i>For 1" Mesh Fabric, Add</i>	12.18	
			<i>For 1-3/4" Mesh Fabric, Add</i>	4.87	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.44	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.25	
			<i>For Posts 8' On Centers, Add</i>	2.48	
			<i>For Posts 5' On Centers, Add</i>	9.30	
			<i>For Up To 100, Add</i>	8.55	
			<i>For >100 To 250, Add</i>	3.14	
			<i>For >2,500 To 5,000, Deduct</i>	-1.57	
			<i>For >5,000, Deduct</i>	-3.14	
32 31 13	13-0150	LF	9' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	48.45	7.97
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.33	
			<i>For 13 Gauge Fabric, Deduct</i>	-10.50	
			<i>For 11 Gauge Fabric, Deduct</i>	-6.14	
			<i>For 6 Gauge Fabric, Add</i>	9.64	
			<i>For 1" Mesh Fabric, Add</i>	13.15	
			<i>For 1-3/4" Mesh Fabric, Add</i>	5.26	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.63	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.51	
			<i>For Posts 8' On Centers, Add</i>	2.64	
			<i>For Posts 5' On Centers, Add</i>	9.91	
			<i>For Up To 100, Add</i>	9.09	
			<i>For >100 To 250, Add</i>	3.33	
			<i>For >2,500 To 5,000, Deduct</i>	-1.67	
			<i>For >5,000, Deduct</i>	-3.33	
32 31 13	13-0151	LF	10' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	51.52	8.86
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.53	
			<i>For 13 Gauge Fabric, Deduct</i>	-11.28	
			<i>For 11 Gauge Fabric, Deduct</i>	-6.59	
			<i>For 6 Gauge Fabric, Add</i>	10.36	
			<i>For 1" Mesh Fabric, Add</i>	14.12	
			<i>For 1-3/4" Mesh Fabric, Add</i>	5.65	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.82	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.77	
			<i>For Posts 8' On Centers, Add</i>	2.80	
			<i>For Posts 5' On Centers, Add</i>	10.51	
			<i>For Up To 100, Add</i>	9.63	
			<i>For >100 To 250, Add</i>	3.53	
			<i>For >2,500 To 5,000, Deduct</i>	-1.76	
			<i>For >5,000, Deduct</i>	-3.53	



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0152 LF 12' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	57.26	10.63
<i>For Each Additional Foot >12, Add</i>	3.82	
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.90	
<i>For 13 Gauge Fabric, Deduct</i>	-12.72	
<i>For 11 Gauge Fabric, Deduct</i>	-7.43	
<i>For 6 Gauge Fabric, Add</i>	11.68	
<i>For 1" Mesh Fabric, Add</i>	15.93	
<i>For 1-3/4" Mesh Fabric, Add</i>	6.37	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-3.19	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-4.25	
<i>For Posts 8' On Centers, Add</i>	3.11	
<i>For Posts 5' On Centers, Add</i>	11.65	
<i>For Up To 100, Add</i>	10.65	
<i>For >100 To 250, Add</i>	3.90	
<i>For >2,500 To 5,000, Deduct</i>	-1.95	
<i>For >5,000, Deduct</i>	-3.90	
32 31 13 13-0153 Vinyl Coated <small>(32 31 13 13-0141)</small>		
32 31 13 13-0154 LF 4' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	34.37	3.54
<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	3.01	
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	2.43	
<i>For 13 Gauge Fabric, Deduct</i>	-6.97	
<i>For 11 Gauge Fabric, Deduct</i>	-4.07	
<i>For 6 Gauge Fabric, Add</i>	6.40	
<i>For 1" Mesh Fabric, Add</i>	8.72	
<i>For 1-3/4" Mesh Fabric, Add</i>	3.49	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.74	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-2.33	
<i>For Posts 8' On Centers, Add</i>	1.89	
<i>For Posts 5' On Centers, Add</i>	7.12	
<i>For Up To 100, Add</i>	6.59	
<i>For >100 To 250, Add</i>	2.43	
<i>For >2,500 To 5,000, Deduct</i>	-1.22	
<i>For >5,000, Deduct</i>	-2.43	
32 31 13 13-0155 LF 5' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	37.19	3.54
<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	3.36	
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	2.60	
<i>For 13 Gauge Fabric, Deduct</i>	-7.79	
<i>For 11 Gauge Fabric, Deduct</i>	-4.55	
<i>For 6 Gauge Fabric, Add</i>	7.15	
<i>For 1" Mesh Fabric, Add</i>	9.75	
<i>For 1-3/4" Mesh Fabric, Add</i>	3.90	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.95	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-2.60	
<i>For Posts 8' On Centers, Add</i>	2.04	
<i>For Posts 5' On Centers, Add</i>	7.65	
<i>For Up To 100, Add</i>	7.06	
<i>For >100 To 250, Add</i>	2.60	
<i>For >2,500 To 5,000, Deduct</i>	-1.30	
<i>For >5,000, Deduct</i>	-2.60	
32 31 13 13-0156 LF 6' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	41.85	3.54
<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	3.92	
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	2.88	
<i>For 13 Gauge Fabric, Deduct</i>	-9.07	
<i>For 11 Gauge Fabric, Deduct</i>	-5.30	
<i>For 6 Gauge Fabric, Add</i>	8.33	
<i>For 1" Mesh Fabric, Add</i>	11.36	
<i>For 1-3/4" Mesh Fabric, Add</i>	4.54	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.27	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.03	
<i>For Posts 8' On Centers, Add</i>	2.28	
<i>For Posts 5' On Centers, Add</i>	8.56	
<i>For Up To 100, Add</i>	7.85	
<i>For >100 To 250, Add</i>	2.88	
<i>For >2,500 To 5,000, Deduct</i>	-1.44	
<i>For >5,000, Deduct</i>	-2.88	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0157	LF	7' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	43.96	5.31
			<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	4.14	
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.01	
			<i>For 13 Gauge Fabric, Deduct</i>	-9.60	
			<i>For 11 Gauge Fabric, Deduct</i>	-5.61	
			<i>For 6 Gauge Fabric, Add</i>	8.81	
			<i>For 1" Mesh Fabric, Add</i>	12.02	
			<i>For 1-3/4" Mesh Fabric, Add</i>	4.81	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.40	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.21	
			<i>For Posts 8' On Centers, Add</i>	2.39	
			<i>For Posts 5' On Centers, Add</i>	8.97	
			<i>For Up To 100, Add</i>	8.23	
			<i>For >100 To 250, Add</i>	3.01	
			<i>For >2,500 To 5,000, Deduct</i>	-1.51	
			<i>For >5,000, Deduct</i>	-3.01	
32 31 13	13-0158	LF	8' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	49.78	6.20
			<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	4.86	
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.36	
			<i>For 13 Gauge Fabric, Deduct</i>	-11.26	
			<i>For 11 Gauge Fabric, Deduct</i>	-6.58	
			<i>For 6 Gauge Fabric, Add</i>	10.33	
			<i>For 1" Mesh Fabric, Add</i>	14.09	
			<i>For 1-3/4" Mesh Fabric, Add</i>	5.64	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.82	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.76	
			<i>For Posts 8' On Centers, Add</i>	2.70	
			<i>For Posts 5' On Centers, Add</i>	10.09	
			<i>For Up To 100, Add</i>	9.21	
			<i>For >100 To 250, Add</i>	3.36	
			<i>For >2,500 To 5,000, Deduct</i>	-1.68	
			<i>For >5,000, Deduct</i>	-3.36	
32 31 13	13-0159	LF	9' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	53.17	7.97
			<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	5.24	
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.57	
			<i>For 13 Gauge Fabric, Deduct</i>	-12.15	
			<i>For 11 Gauge Fabric, Deduct</i>	-7.09	
			<i>For 6 Gauge Fabric, Add</i>	11.15	
			<i>For 1" Mesh Fabric, Add</i>	15.20	
			<i>For 1-3/4" Mesh Fabric, Add</i>	6.08	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-3.04	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-4.05	
			<i>For Posts 8' On Centers, Add</i>	2.88	
			<i>For Posts 5' On Centers, Add</i>	10.75	
			<i>For Up To 100, Add</i>	9.80	
			<i>For >100 To 250, Add</i>	3.57	
			<i>For >2,500 To 5,000, Deduct</i>	-1.78	
			<i>For >5,000, Deduct</i>	-3.57	
32 31 13	13-0160	LF	10' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	56.56	8.86
			<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	5.63	
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.78	
			<i>For 13 Gauge Fabric, Deduct</i>	-13.03	
			<i>For 11 Gauge Fabric, Deduct</i>	-7.61	
			<i>For 6 Gauge Fabric, Add</i>	11.97	
			<i>For 1" Mesh Fabric, Add</i>	16.32	
			<i>For 1-3/4" Mesh Fabric, Add</i>	6.53	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-3.26	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-4.35	
			<i>For Posts 8' On Centers, Add</i>	3.06	
			<i>For Posts 5' On Centers, Add</i>	11.42	
			<i>For Up To 100, Add</i>	10.39	
			<i>For >100 To 250, Add</i>	3.78	
			<i>For >2,500 To 5,000, Deduct</i>	-1.89	
			<i>For >5,000, Deduct</i>	-3.78	
32 31 13	13-0161	LF	12' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	61.70	10.63
			<i>For Each Additional Foot >12, Add</i>	4.07	
			<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	6.16	
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	4.12	
			<i>For 13 Gauge Fabric, Deduct</i>	-14.26	
			<i>For 11 Gauge Fabric, Deduct</i>	-8.33	
			<i>For 6 Gauge Fabric, Add</i>	13.09	
			<i>For 1" Mesh Fabric, Add</i>	17.86	
			<i>For 1-3/4" Mesh Fabric, Add</i>	7.14	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-3.57	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-4.76	
			<i>For Posts 8' On Centers, Add</i>	3.33	
			<i>For Posts 5' On Centers, Add</i>	12.45	
			<i>For Up To 100, Add</i>	11.32	
			<i>For >100 To 250, Add</i>	4.12	
			<i>For >2,500 To 5,000, Deduct</i>	-2.06	
			<i>For >5,000, Deduct</i>	-4.12	



Exterior Improvements	32
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0162 Rails <small>(32 31 13 13)</small> Note: Includes rail end fittings.		
32 31 13 13-0163 SS-20 Chain Link Fence Rails <small>(32 31 13 13-0162)</small> Note: Includes tie wires.		
32 31 13 13-0164 LF 1-3/8" Galvanized Steel Rail, 0.08" Wall Thickness, Tie Wires And Fittings	5.47	1.15
For SS15, Deduct	-0.31	
For SS40, Add	0.77	
32 31 13 13-0165 LF 1-3/8" Vinyl Coated Rail, 0.08" Wall Thickness, Tie Wires And Fittings	6.50	1.15
For SS40, Add	0.41	
For Powder Coated, Add	0.82	
For Aluminum Coated, Add	1.64	
32 31 13 13-0166 LF 1-5/8" Galvanized Steel Rail, 0.085" Wall Thickness, Tie Wires And Fittings	6.69	1.31
For SS15, Deduct	-0.41	
For SS40, Add	1.02	
32 31 13 13-0167 LF 1-5/8" Vinyl Coated Rail, 0.085" Wall Thickness, Tie Wires And Fittings	8.07	1.31
For SS40, Add	0.55	
For Powder Coated, Add	1.09	
For Aluminum Coated, Add	2.19	
32 31 13 13-0168 LF 2" Galvanized Steel Rail, 0.09" Wall Thickness, Tie Wires And Fittings	7.83	1.46
For SS40, Add	1.23	
32 31 13 13-0169 LF 2" Vinyl Coated Rail, 0.09" Wall Thickness, Tie Wires And Fittings	9.48	1.46
For SS40, Add	0.66	
For Powder Coated, Add	1.31	
For Aluminum Coated, Add	2.62	
32 31 13 13-0170 Fabric <small>(32 31 13 13)</small>		
32 31 13 13-0171 Fabric, Galvanized Chain Link <small>(32 31 13 13-0170)</small>		
32 31 13 13-0172 LF 3' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	9.90	2.08
For 1-1/4" Mesh Fabric, Add	0.88	
For 2 Oz Galvanized Or Zinc Coating, Add	0.78	
For 13 Gauge Fabric, Deduct	-1.41	
For 11 Gauge Fabric, Deduct	-0.78	
For 6 Gauge Fabric, Add	2.50	
For 1" Mesh Fabric, Add	2.35	
For 1-1/4" Mesh Fabric, Add	1.57	
For 1-3/4" Mesh Fabric, Add	0.94	
For 2-1/8" Mesh Fabric, Deduct	-0.47	
For 2-3/8" Mesh Fabric, Deduct	-0.63	
32 31 13 13-0173 LF 3'-6" Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	10.93	2.35
For 1-1/4" Mesh Fabric, Add	1.02	
For 2 Oz Galvanized Or Zinc Coating, Add	0.91	
For 13 Gauge Fabric, Deduct	-1.64	
For 11 Gauge Fabric, Deduct	-0.91	
For 6 Gauge Fabric, Add	2.91	
For 1" Mesh Fabric, Add	2.73	
For 1-1/4" Mesh Fabric, Add	1.82	
For 1-3/4" Mesh Fabric, Add	1.09	
For 2-1/8" Mesh Fabric, Deduct	-0.55	
For 2-3/8" Mesh Fabric, Deduct	-0.73	
32 31 13 13-0174 LF 4' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	11.83	2.60
For 1-1/4" Mesh Fabric, Add	1.12	
For 2 Oz Galvanized Or Zinc Coating, Add	1.00	
For 13 Gauge Fabric, Deduct	-1.80	
For 11 Gauge Fabric, Deduct	-1.00	
For 6 Gauge Fabric, Add	3.21	
For 1" Mesh Fabric, Add	3.01	
For 1-1/4" Mesh Fabric, Add	2.01	
For 1-3/4" Mesh Fabric, Add	1.20	
For 2-1/8" Mesh Fabric, Deduct	-0.60	
For 2-3/8" Mesh Fabric, Deduct	-0.80	
32 31 13 13-0175 LF 5' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	13.34	3.12
For 1-1/4" Mesh Fabric, Add	1.40	
For 2 Oz Galvanized Or Zinc Coating, Add	1.25	
For 13 Gauge Fabric, Deduct	-2.25	
For 11 Gauge Fabric, Deduct	-1.25	
For 6 Gauge Fabric, Add	4.00	
For 1" Mesh Fabric, Add	3.75	
For 1-1/4" Mesh Fabric, Add	2.50	
For 1-3/4" Mesh Fabric, Add	1.50	
For 2-1/8" Mesh Fabric, Deduct	-0.75	
For 2-3/8" Mesh Fabric, Deduct	-1.00	
32 31 13 13-0176 LF 6' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	14.93	3.65
For 1-1/4" Mesh Fabric, Add	1.68	
For 2 Oz Galvanized Or Zinc Coating, Add	1.50	
For 13 Gauge Fabric, Deduct	-2.70	
For 11 Gauge Fabric, Deduct	-1.50	
For 6 Gauge Fabric, Add	4.80	
For 1" Mesh Fabric, Add	4.50	
For 1-1/4" Mesh Fabric, Add	3.00	
For 1-3/4" Mesh Fabric, Add	1.80	
For 2-1/8" Mesh Fabric, Deduct	-0.90	
For 2-3/8" Mesh Fabric, Deduct	-1.20	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0177	LF	7' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	16.61	4.17
			For 1-1/4" Mesh Fabric, Add	1.96	
			For 2 Oz Galvanized Or Zinc Coating, Add	1.75	
			For 13 Gauge Fabric, Deduct	-3.15	
			For 11 Gauge Fabric, Deduct	-1.75	
			For 6 Gauge Fabric, Add	5.59	
			For 1" Mesh Fabric, Add	5.24	
			For 1-1/4" Mesh Fabric, Add	3.50	
			For 1-3/4" Mesh Fabric, Add	2.10	
			For 2-1/8" Mesh Fabric, Deduct	-1.05	
			For 2-3/8" Mesh Fabric, Deduct	-1.40	
32 31 13	13-0178	LF	8' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	18.43	5.21
			For 1-1/4" Mesh Fabric, Add	2.24	
			For 2 Oz Galvanized Or Zinc Coating, Add	2.00	
			For 13 Gauge Fabric, Deduct	-3.60	
			For 11 Gauge Fabric, Deduct	-2.00	
			For 6 Gauge Fabric, Add	6.40	
			For 1" Mesh Fabric, Add	6.00	
			For 1-1/4" Mesh Fabric, Add	4.00	
			For 1-3/4" Mesh Fabric, Add	2.40	
			For 2-1/8" Mesh Fabric, Deduct	-1.20	
			For 2-3/8" Mesh Fabric, Deduct	-1.60	
32 31 13	13-0179	LF	10' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	21.89	5.73
			For 1-1/4" Mesh Fabric, Add	2.91	
			For 2 Oz Galvanized Or Zinc Coating, Add	2.60	
			For 13 Gauge Fabric, Deduct	-4.68	
			For 11 Gauge Fabric, Deduct	-2.60	
			For 6 Gauge Fabric, Add	8.31	
			For 1" Mesh Fabric, Add	7.79	
			For 1-1/4" Mesh Fabric, Add	5.20	
			For 1-3/4" Mesh Fabric, Add	3.12	
			For 2-1/8" Mesh Fabric, Deduct	-1.56	
			For 2-3/8" Mesh Fabric, Deduct	-2.08	
32 31 13	13-0180	LF	12' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	24.96	6.25
			For 1-1/4" Mesh Fabric, Add	3.49	
			For 2 Oz Galvanized Or Zinc Coating, Add	3.11	
			For 13 Gauge Fabric, Deduct	-5.60	
			For 11 Gauge Fabric, Deduct	-3.11	
			For 6 Gauge Fabric, Add	9.96	
			For 1" Mesh Fabric, Add	9.34	
			For 1-1/4" Mesh Fabric, Add	6.23	
			For 1-3/4" Mesh Fabric, Add	3.74	
			For 2-1/8" Mesh Fabric, Deduct	-1.87	
			For 2-3/8" Mesh Fabric, Deduct	-2.49	
32 31 13	13-0181	LF	14' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	27.97	7.29
			For 1-1/4" Mesh Fabric, Add	3.75	
			For 2 Oz Galvanized Or Zinc Coating, Add	3.35	
			For 13 Gauge Fabric, Deduct	-6.02	
			For 11 Gauge Fabric, Deduct	-3.35	
			For 6 Gauge Fabric, Add	10.70	
			For 1" Mesh Fabric, Add	10.04	
			For 1-1/4" Mesh Fabric, Add	6.69	
			For 1-3/4" Mesh Fabric, Add	4.01	
			For 2-1/8" Mesh Fabric, Deduct	-2.01	
			For 2-3/8" Mesh Fabric, Deduct	-2.68	
32 31 13	13-0182	LF	16' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	30.97	8.34
			For 1-1/4" Mesh Fabric, Add	4.00	
			For 2 Oz Galvanized Or Zinc Coating, Add	3.58	
			For 13 Gauge Fabric, Deduct	-6.44	
			For 11 Gauge Fabric, Deduct	-3.58	
			For 6 Gauge Fabric, Add	11.44	
			For 1" Mesh Fabric, Add	10.73	
			For 1-1/4" Mesh Fabric, Add	7.15	
			For 1-3/4" Mesh Fabric, Add	4.29	
			For 2-1/8" Mesh Fabric, Deduct	-2.15	
			For 2-3/8" Mesh Fabric, Deduct	-2.86	
32 31 13	13-0183	SF	>16' Full Height Fabric Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	1.93	0.49
			For 1-1/4" Mesh Fabric, Add	0.25	
			For 2 Oz Galvanized Or Zinc Coating, Add	0.22	
			For 13 Gauge Fabric, Deduct	-0.40	
			For 11 Gauge Fabric, Deduct	-0.22	
			For 6 Gauge Fabric, Add	0.71	
			For 1" Mesh Fabric, Add	0.67	
			For 1-1/4" Mesh Fabric, Add	0.45	
			For 1-3/4" Mesh Fabric, Add	0.27	
			For 2-1/8" Mesh Fabric, Deduct	-0.13	
			For 2-3/8" Mesh Fabric, Deduct	-0.18	

32 31 13 13-0184 Fabric, Vinyl Coated Chain Link (32 31 13 13-0170)



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0185 LF 4' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh.....	13.10	2.08
For 1-1/4" Mesh Fabric, Add	1.48	
For 13 Gauge Fabric, Deduct	-2.38	
For 11 Gauge Fabric, Deduct	-1.32	
For 6 Gauge Fabric, Add	4.22	
For 1" Mesh Fabric, Add	3.96	
For 1-1/4" Mesh Fabric, Add	2.64	
For 1-3/4" Mesh Fabric, Add	1.58	
For 2-1/8" Mesh Fabric, Deduct	-0.79	
For 2-3/8" Mesh Fabric, Deduct	-1.06	
For Aluminum Coated, Add	2.11	
32 31 13 13-0186 LF 5' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh.....	14.94	3.12
For 1-1/4" Mesh Fabric, Add	1.85	
For 13 Gauge Fabric, Deduct	-2.97	
For 11 Gauge Fabric, Deduct	-1.65	
For 6 Gauge Fabric, Add	5.28	
For 1" Mesh Fabric, Add	4.95	
For 1-1/4" Mesh Fabric, Add	3.30	
For 1-3/4" Mesh Fabric, Add	1.98	
For 2-1/8" Mesh Fabric, Deduct	-0.99	
For 2-3/8" Mesh Fabric, Deduct	-1.32	
For Aluminum Coated, Add	2.64	
32 31 13 13-0187 LF 6' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh.....	18.18	3.65
For 1-1/4" Mesh Fabric, Add	2.59	
For 13 Gauge Fabric, Deduct	-4.16	
For 11 Gauge Fabric, Deduct	-2.31	
For 6 Gauge Fabric, Add	7.40	
For 1" Mesh Fabric, Add	6.94	
For 1-1/4" Mesh Fabric, Add	4.63	
For 1-3/4" Mesh Fabric, Add	2.78	
For 2-1/8" Mesh Fabric, Deduct	-1.39	
For 2-3/8" Mesh Fabric, Deduct	-1.85	
For Aluminum Coated, Add	3.70	
32 31 13 13-0188 LF 7' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh.....	20.39	4.17
For 1-1/4" Mesh Fabric, Add	3.02	
For 13 Gauge Fabric, Deduct	-4.85	
For 11 Gauge Fabric, Deduct	-2.69	
For 6 Gauge Fabric, Add	8.62	
For 1" Mesh Fabric, Add	8.08	
For 1-1/4" Mesh Fabric, Add	5.39	
For 1-3/4" Mesh Fabric, Add	3.23	
For 2-1/8" Mesh Fabric, Deduct	-1.62	
For 2-3/8" Mesh Fabric, Deduct	-2.15	
For Aluminum Coated, Add	4.31	
32 31 13 13-0189 LF 8' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh.....	22.83	5.21
For 1-1/4" Mesh Fabric, Add	3.47	
For 13 Gauge Fabric, Deduct	-5.58	
For 11 Gauge Fabric, Deduct	-3.10	
For 6 Gauge Fabric, Add	9.92	
For 1" Mesh Fabric, Add	9.30	
For 1-1/4" Mesh Fabric, Add	6.20	
For 1-3/4" Mesh Fabric, Add	3.72	
For 2-1/8" Mesh Fabric, Deduct	-1.86	
For 2-3/8" Mesh Fabric, Deduct	-2.48	
For Aluminum Coated, Add	4.96	
32 31 13 13-0190 LF 10' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh.....	26.94	5.73
For 1-1/4" Mesh Fabric, Add	4.32	
For 13 Gauge Fabric, Deduct	-6.95	
For 11 Gauge Fabric, Deduct	-3.86	
For 6 Gauge Fabric, Add	12.35	
For 1" Mesh Fabric, Add	11.58	
For 1-1/4" Mesh Fabric, Add	7.72	
For 1-3/4" Mesh Fabric, Add	4.63	
For 2-1/8" Mesh Fabric, Deduct	-2.32	
For 2-3/8" Mesh Fabric, Deduct	-3.09	
For Aluminum Coated, Add	6.18	
32 31 13 13-0191 LF 12' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh.....	29.40	6.25
For 1-1/4" Mesh Fabric, Add	4.73	
For 13 Gauge Fabric, Deduct	-7.60	
For 11 Gauge Fabric, Deduct	-4.22	
For 6 Gauge Fabric, Add	13.51	
For 1" Mesh Fabric, Add	12.67	
For 1-1/4" Mesh Fabric, Add	8.45	
For 1-3/4" Mesh Fabric, Add	5.07	
For 2-1/8" Mesh Fabric, Deduct	-2.53	
For 2-3/8" Mesh Fabric, Deduct	-3.38	
For Aluminum Coated, Add	6.76	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0192	LF	14' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh.....	33.18	7.29
			<i>For 1-1/4" Mesh Fabric, Add</i>	5.21	
			<i>For 13 Gauge Fabric, Deduct</i>	-8.37	
			<i>For 11 Gauge Fabric, Deduct</i>	-4.65	
			<i>For 6 Gauge Fabric, Add</i>	14.87	
			<i>For 1" Mesh Fabric, Add</i>	13.94	
			<i>For 1-1/4" Mesh Fabric, Add</i>	9.30	
			<i>For 1-3/4" Mesh Fabric, Add</i>	5.58	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.79	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.72	
			<i>For Aluminum Coated, Add</i>	7.44	
32 31 13	13-0193	LF	16' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh.....	37.04	8.34
			<i>For 1-1/4" Mesh Fabric, Add</i>	5.70	
			<i>For 13 Gauge Fabric, Deduct</i>	-9.17	
			<i>For 11 Gauge Fabric, Deduct</i>	-5.09	
			<i>For 6 Gauge Fabric, Add</i>	16.30	
			<i>For 1" Mesh Fabric, Add</i>	15.28	
			<i>For 1-1/4" Mesh Fabric, Add</i>	10.19	
			<i>For 1-3/4" Mesh Fabric, Add</i>	6.11	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-3.06	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-4.07	
			<i>For Aluminum Coated, Add</i>	8.15	
32 31 13	13-0194	SF	>16' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh.....	2.31	0.49
			<i>For 1-1/4" Mesh Fabric, Add</i>	0.36	
			<i>For 13 Gauge Fabric, Deduct</i>	-0.57	
			<i>For 11 Gauge Fabric, Deduct</i>	-0.32	
			<i>For 6 Gauge Fabric, Add</i>	1.02	
			<i>For 1" Mesh Fabric, Add</i>	0.95	
			<i>For 1-1/4" Mesh Fabric, Add</i>	0.64	
			<i>For 1-3/4" Mesh Fabric, Add</i>	0.38	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-0.19	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-0.25	
			<i>For Aluminum Coated, Add</i>	0.51	
32 31 13	13-0195		Fabric, Aluminized Steel Chain Link <small>(32 31 13 13-0170)</small>		
32 31 13	13-0196	LF	3' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh.....	9.87	2.08
			<i>For 6 Gauge Fabric, Add</i>	2.48	
			<i>For 1" Mesh Fabric, Add</i>	3.26	
32 31 13	13-0197	LF	3'-6" Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh.....	10.89	2.35
			<i>For 6 Gauge Fabric, Add</i>	2.88	
			<i>For 1" Mesh Fabric, Add</i>	3.78	
32 31 13	13-0198	LF	4' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh.....	11.95	2.60
			<i>For 6 Gauge Fabric, Add</i>	3.30	
			<i>For 1" Mesh Fabric, Add</i>	4.34	
32 31 13	13-0199	LF	5' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh.....	13.49	3.12
			<i>For 6 Gauge Fabric, Add</i>	4.12	
			<i>For 1" Mesh Fabric, Add</i>	5.41	
32 31 13	13-0200	LF	6' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh.....	15.09	3.65
			<i>For 6 Gauge Fabric, Add</i>	4.93	
			<i>For 1" Mesh Fabric, Add</i>	6.47	
32 31 13	13-0201	LF	7' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh.....	16.83	4.17
			<i>For 6 Gauge Fabric, Add</i>	5.77	
			<i>For 1" Mesh Fabric, Add</i>	7.57	
32 31 13	13-0202	LF	8' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh.....	18.66	5.21
			<i>For 6 Gauge Fabric, Add</i>	6.58	
			<i>For 1" Mesh Fabric, Add</i>	8.64	
32 31 13	13-0203	LF	10' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh.....	21.79	5.73
			<i>For 6 Gauge Fabric, Add</i>	8.23	
			<i>For 1" Mesh Fabric, Add</i>	10.80	
32 31 13	13-0204	LF	12' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh.....	24.85	6.25
			<i>For 6 Gauge Fabric, Add</i>	9.87	
			<i>For 1" Mesh Fabric, Add</i>	12.96	
32 31 13	13-0205		Fabric, All Aluminum Chain Link <small>(32 31 13 13-0170)</small>		
32 31 13	13-0206	LF	3' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh.....	14.88	2.08
			<i>For 6 Gauge Fabric, Add</i>	6.49	
			<i>For 1" Mesh Fabric, Add</i>	8.52	
32 31 13	13-0207	LF	3'-6" Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh.....	16.75	2.35
			<i>For 6 Gauge Fabric, Add</i>	7.57	
			<i>For 1" Mesh Fabric, Add</i>	9.93	
32 31 13	13-0208	LF	4' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh.....	18.63	2.60
			<i>For 6 Gauge Fabric, Add</i>	8.65	
			<i>For 1" Mesh Fabric, Add</i>	11.35	
32 31 13	13-0209	LF	5' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh.....	21.85	3.12
			<i>For 6 Gauge Fabric, Add</i>	10.81	
			<i>For 1" Mesh Fabric, Add</i>	14.19	
32 31 13	13-0210	LF	6' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh.....	25.14	3.65
			<i>For 6 Gauge Fabric, Add</i>	12.97	
			<i>For 1" Mesh Fabric, Add</i>	17.02	
32 31 13	13-0211	LF	7' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh.....	28.54	4.17
			<i>For 6 Gauge Fabric, Add</i>	15.14	
			<i>For 1" Mesh Fabric, Add</i>	19.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0212 LF 8' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	32.05 17.30 22.70	5.21
32 31 13 13-0213 LF 10' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	38.52 21.62 28.37	5.73
32 31 13 13-0214 LF 12' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	44.94 25.94 34.05	6.25
32 31 13 13-0215 Fence Inserts <small>(32 31 13 13-0170)</small> Note: For use with new or existing chain link fence, per lf of fence.		
32 31 13 13-0216 Vinyl Plastic Fence Inserts <small>(32 31 13 13-0215)</small> Note: Assorted colors.		
32 31 13 13-0217 LF 3' High Fence, Vinyl Plastic Fence Insert.....	7.27	
32 31 13 13-0218 LF 3-1/2' High Fence, Vinyl Plastic Fence Insert.....	8.32	
32 31 13 13-0219 LF 4' High Fence, Vinyl Plastic Fence Insert.....	9.17	
32 31 13 13-0220 LF 5' High Fence, Vinyl Plastic Fence Insert.....	11.50	
32 31 13 13-0221 LF 6' High Fence, Vinyl Plastic Fence Insert.....	13.76	
32 31 13 13-0222 LF 7' High Fence, Vinyl Plastic Fence Insert.....	16.10	
32 31 13 13-0223 LF 8' High Fence, Vinyl Plastic Fence Insert.....	18.36	
32 31 13 13-0224 LF 10' High Fence, Vinyl Plastic Fence Insert.....	22.09	
32 31 13 13-0225 Aluminum Fence Inserts <small>(32 31 13 13-0215)</small> Note: Assorted colors.		
32 31 13 13-0226 LF 3' High Fence, Aluminum Fence Insert.....	21.06	
32 31 13 13-0227 LF 3-1/2' High Fence, Aluminum Fence Insert.....	23.15	
32 31 13 13-0228 LF 4' High Fence, Aluminum Fence Insert.....	26.54	
32 31 13 13-0229 LF 5' High Fence, Aluminum Fence Insert.....	33.23	
32 31 13 13-0230 LF 6' High Fence, Aluminum Fence Insert.....	39.87	
32 31 13 13-0231 LF 7' High Fence, Aluminum Fence Insert.....	43.60	
32 31 13 13-0232 LF 8' High Fence, Aluminum Fence Insert.....	53.14	
32 31 13 13-0233 LF 10' High Fence, Aluminum Fence Insert.....	65.73	
32 31 13 13-0234 Redwood Fence Inserts <small>(32 31 13 13-0215)</small>		
32 31 13 13-0235 LF 4' High Fence, Redwood Fence Insert.....	12.33	
32 31 13 13-0236 LF 5' High Fence, Redwood Fence Insert.....	15.59	
32 31 13 13-0237 LF 6' High Fence, Redwood Fence Insert.....	18.73	
32 31 13 13-0238 LF 7' High Fence, Redwood Fence Insert.....	21.80	
32 31 13 13-0239 LF 8' High Fence, Redwood Fence Insert.....	24.95	
32 31 13 13-0240 Diagonal Flexible Polyethylene Inserts <small>(32 31 13 13-0215)</small>		
32 31 13 13-0241 SF Diagonal Polyethylene Fence Weave.....	2.90	
32 31 13 13-0242 Hedge Link Fence Inserts <small>(32 31 13 13-0215)</small>		
32 31 13 13-0243 LF 3' High Fence, Hedge Link Fence Insert.....	15.19	
32 31 13 13-0244 LF 3-1/2' High Fence, Hedge Link Fence Insert.....	17.30	
32 31 13 13-0245 LF 4' High Fence, Hedge Link Fence Insert.....	20.36	
32 31 13 13-0246 LF 5' High Fence, Hedge Link Fence Insert.....	25.14	
32 31 13 13-0247 LF 6' High Fence, Hedge Link Fence Insert.....	28.84	
32 31 13 13-0248 LF 7' High Fence, Hedge Link Fence Insert.....	36.26	
32 31 13 13-0249 LF 8' High Fence, Hedge Link Fence Insert.....	41.19	
32 31 13 13-0250 LF 10' High Fence, Hedge Link Fence Insert.....	49.13	
32 31 13 13-0251 LF 12' High Fence, Hedge Link Fence Insert.....	56.34	
32 31 13 13-0252 Fence Windscreen Fabric <small>(32 31 13 13-0170)</small> Note: Includes plastic wire clips.		
32 31 13 13-0253 SF Vinyl Coated Polyester Windscreen For Fence, 7 Oz Per SY..... <i>For Sewn Boxed Vent (Each), Add</i> <i>For Welded Boxed Vent (Each), Add</i> <i>For 4' x 4' One Color Logo (Each), Add</i>	1.28 19.42 9.71 404.52	0.48
32 31 13 13-0254 Non-Climbable Fabric, Galvanized Chain Link <small>(32 31 13 13-0170)</small>		
32 31 13 13-0255 LF 3' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh..... <i>For 11 Gauge, Deduct</i> <i>For 10 Gauge, Deduct</i> <i>For 7 Gauge, Add</i> <i>For 6 Gauge, Add</i> <i>For 1/2" Mesh Fabric, Deduct</i> <i>For 5/8" Mesh Fabric, Deduct</i> <i>For 3/4" Mesh Fabric, Deduct</i>	23.94 -3.43 -1.37 2.06 4.81 -0.86 -1.89 -2.75	2.08

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0256	LF	3'-6" Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	27.32	2.35
		For 11 Gauge, Deduct	-4.01	
		For 10 Gauge, Deduct	-1.60	
		For 7 Gauge, Add	2.40	
		For 6 Gauge, Add	5.61	
		For 1/2" Mesh Fabric, Deduct	-1.00	
		For 5/8" Mesh Fabric, Deduct	-2.20	
		For 3/4" Mesh Fabric, Deduct	-3.20	
32 31 13 13-0257	LF	4' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	30.74	2.60
		For 11 Gauge, Deduct	-4.58	
		For 10 Gauge, Deduct	-1.83	
		For 7 Gauge, Add	2.75	
		For 6 Gauge, Add	6.42	
		For 1/2" Mesh Fabric, Deduct	-1.15	
		For 5/8" Mesh Fabric, Deduct	-2.52	
		For 3/4" Mesh Fabric, Deduct	-3.67	
32 31 13 13-0258	LF	5' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	36.97	3.12
		For 11 Gauge, Deduct	-5.73	
		For 10 Gauge, Deduct	-2.29	
		For 7 Gauge, Add	3.44	
		For 6 Gauge, Add	8.02	
		For 1/2" Mesh Fabric, Deduct	-1.43	
		For 5/8" Mesh Fabric, Deduct	-3.15	
		For 3/4" Mesh Fabric, Deduct	-4.58	
32 31 13 13-0259	LF	6' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	43.28	3.65
		For 11 Gauge, Deduct	-6.87	
		For 10 Gauge, Deduct	-2.75	
		For 7 Gauge, Add	4.12	
		For 6 Gauge, Add	9.62	
		For 1/2" Mesh Fabric, Deduct	-1.72	
		For 5/8" Mesh Fabric, Deduct	-3.78	
		For 3/4" Mesh Fabric, Deduct	-5.50	
32 31 13 13-0260	LF	7' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	49.70	4.17
		For 11 Gauge, Deduct	-8.02	
		For 10 Gauge, Deduct	-3.21	
		For 7 Gauge, Add	4.81	
		For 6 Gauge, Add	11.22	
		For 1/2" Mesh Fabric, Deduct	-2.00	
		For 5/8" Mesh Fabric, Deduct	-4.41	
		For 3/4" Mesh Fabric, Deduct	-6.41	
32 31 13 13-0261	LF	8' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	56.24	5.21
		For 11 Gauge, Deduct	-9.16	
		For 10 Gauge, Deduct	-3.66	
		For 7 Gauge, Add	5.50	
		For 6 Gauge, Add	12.83	
		For 1/2" Mesh Fabric, Deduct	-2.29	
		For 5/8" Mesh Fabric, Deduct	-5.04	
		For 3/4" Mesh Fabric, Deduct	-7.33	
32 31 13 13-0262	LF	9' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	61.94	5.47
		For 11 Gauge, Deduct	-10.20	
		For 10 Gauge, Deduct	-4.08	
		For 7 Gauge, Add	6.12	
		For 6 Gauge, Add	14.28	
		For 1/2" Mesh Fabric, Deduct	-2.55	
		For 5/8" Mesh Fabric, Deduct	-5.61	
		For 3/4" Mesh Fabric, Deduct	-8.16	
32 31 13 13-0263	LF	10' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	67.67	5.73
		For 11 Gauge, Deduct	-11.23	
		For 10 Gauge, Deduct	-4.49	
		For 7 Gauge, Add	6.74	
		For 6 Gauge, Add	15.73	
		For 1/2" Mesh Fabric, Deduct	-2.81	
		For 5/8" Mesh Fabric, Deduct	-6.18	
		For 3/4" Mesh Fabric, Deduct	-8.99	
32 31 13 13-0264	LF	12' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	73.40	6.25
		For 11 Gauge, Deduct	-12.18	
		For 10 Gauge, Deduct	-4.87	
		For 7 Gauge, Add	7.31	
		For 6 Gauge, Add	17.05	
		For 1/2" Mesh Fabric, Deduct	-3.04	
		For 5/8" Mesh Fabric, Deduct	-6.70	
		For 3/4" Mesh Fabric, Deduct	-9.74	

32 31 13 13-0265**Gates** (32 31 13 13)

Note: Posts exclude drilling or augering in soil or rock. For barbed wire attached directly to posts and gates, select gates and posts sizes for full finished height of gate above grade (top rail to be at lower height, includes barb wire at top area where mesh would be). See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.

32 31 13 13-0266**Galvanized Steel Without Barbed Wire** (32 31 13 13-0266)

Note: Industrial swing gate. Includes posts (3" diameter posts for up to 6' wide gate, 4" diameter for > 6' To 12' wide, 6-5/8" diameter for >12' To 18' wide, 8-5/8" diameter for over 18' wide), 2" diameter schedule pipe frame, offset hinges, cap and hardware (drop rod, center locking device, gate keeper, catch bolt and tension bands). Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.

32 31 13 13-0267**4' Fence Height** (32 31 13 13-0266)



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0268 EA 3' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	312.85	20.49
For Gate With Single Barb Wire Arm, Add	27.37	
For Gate With Double Barb Wire Arm, Add	39.81	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-46.66	
For Aluminized Steel Gate And Post, Add	119.44	
For Powder Coated Gate And Post, Add	64.70	
For 1" Mesh Fabric, Add	108.24	
For 1-1/4" Mesh Fabric, Add	69.67	
For 1-3/4" Mesh Fabric, Add	43.30	
For 2-1/8" Mesh Fabric, Deduct	-21.65	
32 31 13 13-0269 EA 4' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	395.79	21.34
For Gate With Single Barb Wire Arm, Add	36.49	
For Gate With Double Barb Wire Arm, Add	53.08	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-62.21	
For Aluminized Steel Gate And Post, Add	159.25	
For Powder Coated Gate And Post, Add	86.26	
For 1" Mesh Fabric, Add	144.32	
For 1-1/4" Mesh Fabric, Add	92.90	
For 1-3/4" Mesh Fabric, Add	57.73	
For 2-1/8" Mesh Fabric, Deduct	-28.86	
32 31 13 13-0270 EA 5' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	468.85	22.71
For Gate With Single Barb Wire Arm, Add	44.06	
For Gate With Double Barb Wire Arm, Add	64.09	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-75.10	
For Aluminized Steel Gate And Post, Add	192.26	
For Powder Coated Gate And Post, Add	104.14	
For 1" Mesh Fabric, Add	174.24	
For 1-1/4" Mesh Fabric, Add	112.15	
For 1-3/4" Mesh Fabric, Add	69.70	
For 2-1/8" Mesh Fabric, Deduct	-34.85	
32 31 13 13-0271 EA 6' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	551.30	27.31
For Gate With Single Barb Wire Arm, Add	51.63	
For Gate With Double Barb Wire Arm, Add	75.09	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-88.00	
For Aluminized Steel Gate And Post, Add	225.28	
For Powder Coated Gate And Post, Add	122.03	
For 1" Mesh Fabric, Add	204.16	
For 1-1/4" Mesh Fabric, Add	131.42	
For 1-3/4" Mesh Fabric, Add	81.67	
For 2-1/8" Mesh Fabric, Deduct	-40.83	
32 31 13 13-0272 EA 7' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	633.74	31.84
For Gate With Single Barb Wire Arm, Add	59.19	
For Gate With Double Barb Wire Arm, Add	86.10	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-100.90	
For Aluminized Steel Gate And Post, Add	258.30	
For Powder Coated Gate And Post, Add	139.91	
For 1" Mesh Fabric, Add	234.08	
For 1-1/4" Mesh Fabric, Add	150.67	
For 1-3/4" Mesh Fabric, Add	93.63	
For 2-1/8" Mesh Fabric, Deduct	-46.82	
32 31 13 13-0273 EA 8' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	719.00	36.37
For Gate With Single Barb Wire Arm, Add	67.07	
For Gate With Double Barb Wire Arm, Add	97.56	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-114.32	
For Aluminized Steel Gate And Post, Add	292.67	
For Powder Coated Gate And Post, Add	158.53	
For 1" Mesh Fabric, Add	265.23	
For 1-1/4" Mesh Fabric, Add	170.72	
For 1-3/4" Mesh Fabric, Add	106.09	
For 2-1/8" Mesh Fabric, Deduct	-53.05	
32 31 13 13-0274 EA 9' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	801.43	40.97
For Gate With Single Barb Wire Arm, Add	74.64	
For Gate With Double Barb Wire Arm, Add	108.56	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-127.22	
For Aluminized Steel Gate And Post, Add	325.68	
For Powder Coated Gate And Post, Add	176.41	
For 1" Mesh Fabric, Add	295.15	
For 1-1/4" Mesh Fabric, Add	189.98	
For 1-3/4" Mesh Fabric, Add	118.06	
For 2-1/8" Mesh Fabric, Deduct	-59.03	
32 31 13 13-0275 EA 10' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	885.08	45.50
For Gate With Single Barb Wire Arm, Add	82.34	
For Gate With Double Barb Wire Arm, Add	119.76	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-140.35	
For Aluminized Steel Gate And Post, Add	359.28	
For Powder Coated Gate And Post, Add	194.61	
For 1" Mesh Fabric, Add	325.60	
For 1-1/4" Mesh Fabric, Add	209.58	
For 1-3/4" Mesh Fabric, Add	130.24	
For 2-1/8" Mesh Fabric, Deduct	-65.12	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0276	EA	10' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,131.90	45.50
			<i>For Gate With Single Barb Wire Arm, Add</i>	109.49	
			<i>For Gate With Double Barb Wire Arm, Add</i>	159.25	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-186.62	
			<i>For Aluminized Steel Gate And Post, Add</i>	477.75	
			<i>For Powder Coated Gate And Post, Add</i>	258.78	
			<i>For 1" Mesh Fabric, Add</i>	432.96	
			<i>For 1-1/4" Mesh Fabric, Add</i>	278.69	
			<i>For 1-3/4" Mesh Fabric, Add</i>	173.19	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-86.59	
32 31 13	13-0277	EA	12' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,340.72	48.74
			<i>For Gate With Single Barb Wire Arm, Add</i>	131.38	
			<i>For Gate With Double Barb Wire Arm, Add</i>	191.10	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-223.95	
			<i>For Aluminized Steel Gate And Post, Add</i>	573.30	
			<i>For Powder Coated Gate And Post, Add</i>	310.54	
			<i>For 1" Mesh Fabric, Add</i>	519.56	
			<i>For 1-1/4" Mesh Fabric, Add</i>	334.43	
			<i>For 1-3/4" Mesh Fabric, Add</i>	207.82	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-103.91	
32 31 13	13-0278	EA	14' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,551.03	52.50
			<i>For Gate With Single Barb Wire Arm, Add</i>	153.28	
			<i>For Gate With Double Barb Wire Arm, Add</i>	222.95	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-261.27	
			<i>For Aluminized Steel Gate And Post, Add</i>	668.85	
			<i>For Powder Coated Gate And Post, Add</i>	362.29	
			<i>For 1" Mesh Fabric, Add</i>	606.15	
			<i>For 1-1/4" Mesh Fabric, Add</i>	390.16	
			<i>For 1-3/4" Mesh Fabric, Add</i>	242.46	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-121.23	
32 31 13	13-0279	EA	16' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,763.24	56.86
			<i>For Gate With Single Barb Wire Arm, Add</i>	175.18	
			<i>For Gate With Double Barb Wire Arm, Add</i>	254.80	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-298.60	
			<i>For Aluminized Steel Gate And Post, Add</i>	764.40	
			<i>For Powder Coated Gate And Post, Add</i>	414.05	
			<i>For 1" Mesh Fabric, Add</i>	692.74	
			<i>For 1-1/4" Mesh Fabric, Add</i>	445.90	
			<i>For 1-3/4" Mesh Fabric, Add</i>	277.10	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-138.55	
32 31 13	13-0280	EA	18' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,007.40	71.83
			<i>For Gate With Single Barb Wire Arm, Add</i>	197.07	
			<i>For Gate With Double Barb Wire Arm, Add</i>	286.65	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-335.92	
			<i>For Aluminized Steel Gate And Post, Add</i>	859.95	
			<i>For Powder Coated Gate And Post, Add</i>	465.81	
			<i>For 1" Mesh Fabric, Add</i>	779.33	
			<i>For 1-1/4" Mesh Fabric, Add</i>	501.64	
			<i>For 1-3/4" Mesh Fabric, Add</i>	311.73	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-155.87	
32 31 13	13-0281	EA	20' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,221.88	76.99
			<i>For Gate With Single Barb Wire Arm, Add</i>	218.97	
			<i>For Gate With Double Barb Wire Arm, Add</i>	318.50	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-373.24	
			<i>For Aluminized Steel Gate And Post, Add</i>	955.50	
			<i>For Powder Coated Gate And Post, Add</i>	517.56	
			<i>For 1" Mesh Fabric, Add</i>	865.92	
			<i>For 1-1/4" Mesh Fabric, Add</i>	557.38	
			<i>For 1-3/4" Mesh Fabric, Add</i>	346.37	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-173.18	
32 31 13	13-0282	EA	22' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,433.87	82.96
			<i>For Gate With Single Barb Wire Arm, Add</i>	240.33	
			<i>For Gate With Double Barb Wire Arm, Add</i>	349.57	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-409.66	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,048.72	
			<i>For Powder Coated Gate And Post, Add</i>	568.06	
			<i>For 1" Mesh Fabric, Add</i>	950.41	
			<i>For 1-1/4" Mesh Fabric, Add</i>	611.76	
			<i>For 1-3/4" Mesh Fabric, Add</i>	380.16	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-190.08	
32 31 13	13-0283	EA	24' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,648.84	89.84
			<i>For Gate With Single Barb Wire Arm, Add</i>	261.70	
			<i>For Gate With Double Barb Wire Arm, Add</i>	380.65	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-446.07	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,141.94	
			<i>For Powder Coated Gate And Post, Add</i>	618.55	
			<i>For 1" Mesh Fabric, Add</i>	1,034.89	
			<i>For 1-1/4" Mesh Fabric, Add</i>	666.13	
			<i>For 1-3/4" Mesh Fabric, Add</i>	413.95	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-206.98	



Exterior Improvements	32	32
Site Improvements	32 30	
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0284	EA	26' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	2,867.58 283.06 411.72 -482.49 1,235.16 669.05 1,119.37 720.51 447.75 -223.87	98.03
32 31	13 13-0285	EA	28' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	3,018.39 296.41 431.14 -505.25 1,293.43 700.61 1,172.17 754.50 468.87 -234.43	107.84
32 31	13 13-0286	EA	30' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	3,345.67 328.45 477.75 -559.87 1,433.26 776.35 1,298.89 836.07 519.56 -259.78	119.78
32 31 13 13-0287 5' Fence Height <small>(32 31 13 13-0266)</small>					
32 31	13 13-0288	EA	3' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire..... <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	375.80 33.83 49.20 -57.66 147.60 79.95 133.76 86.10 53.51 -26.75	22.71
32 31	13 13-0289	EA	4' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire..... <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	476.95 44.95 65.38 -76.62 196.15 106.25 177.76 114.42 71.11 -35.55	22.71
32 31	13 13-0290	EA	5' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire..... <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	558.09 53.41 77.68 -91.04 233.05 126.24 211.20 135.95 84.48 -42.24	24.16
32 31	13 13-0291	EA	6' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire..... <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	653.52 62.31 90.63 -106.21 271.89 147.27 246.40 158.60 98.56 -49.28	29.02
32 31	13 13-0292	EA	7' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire..... <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	740.86 70.32 102.28 -119.86 306.85 166.21 278.08 179.00 111.23 -55.62	33.81

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0293	EA	8' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	837.15	38.92
			<i>For Gate With Single Barb Wire Arm, Add</i>	79.22	
			<i>For Gate With Double Barb Wire Arm, Add</i>	115.23	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-135.04	
			<i>For Aluminized Steel Gate And Post, Add</i>	345.69	
			<i>For Powder Coated Gate And Post, Add</i>	187.25	
			<i>For 1" Mesh Fabric, Add</i>	313.28	
			<i>For 1-1/4" Mesh Fabric, Add</i>	201.65	
			<i>For 1-3/4" Mesh Fabric, Add</i>	125.31	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-62.66	
32 31 13	13-0294	EA	9' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	928.52	43.80
			<i>For Gate With Single Barb Wire Arm, Add</i>	87.68	
			<i>For Gate With Double Barb Wire Arm, Add</i>	127.53	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-149.45	
			<i>For Aluminized Steel Gate And Post, Add</i>	382.59	
			<i>For Powder Coated Gate And Post, Add</i>	207.24	
			<i>For 1" Mesh Fabric, Add</i>	346.72	
			<i>For 1-1/4" Mesh Fabric, Add</i>	223.18	
			<i>For 1-3/4" Mesh Fabric, Add</i>	138.69	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-69.34	
32 31 13	13-0295	EA	10' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	1,019.91	48.57
			<i>For Gate With Single Barb Wire Arm, Add</i>	96.13	
			<i>For Gate With Double Barb Wire Arm, Add</i>	139.83	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-163.86	
			<i>For Aluminized Steel Gate And Post, Add</i>	419.49	
			<i>For Powder Coated Gate And Post, Add</i>	227.22	
			<i>For 1" Mesh Fabric, Add</i>	380.16	
			<i>For 1-1/4" Mesh Fabric, Add</i>	244.70	
			<i>For 1-3/4" Mesh Fabric, Add</i>	152.07	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-76.03	
32 31 13	13-0296	EA	10' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,379.56	48.74
			<i>For Gate With Single Barb Wire Arm, Add</i>	135.65	
			<i>For Gate With Double Barb Wire Arm, Add</i>	197.32	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-231.23	
			<i>For Aluminized Steel Gate And Post, Add</i>	591.95	
			<i>For Powder Coated Gate And Post, Add</i>	320.64	
			<i>For 1" Mesh Fabric, Add</i>	536.45	
			<i>For 1-1/4" Mesh Fabric, Add</i>	345.30	
			<i>For 1-3/4" Mesh Fabric, Add</i>	214.58	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-107.29	
32 31 13	13-0297	EA	12' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,638.43	52.50
			<i>For Gate With Single Barb Wire Arm, Add</i>	162.89	
			<i>For Gate With Double Barb Wire Arm, Add</i>	236.93	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-277.66	
			<i>For Aluminized Steel Gate And Post, Add</i>	710.80	
			<i>For Powder Coated Gate And Post, Add</i>	385.02	
			<i>For 1" Mesh Fabric, Add</i>	644.17	
			<i>For 1-1/4" Mesh Fabric, Add</i>	414.64	
			<i>For 1-3/4" Mesh Fabric, Add</i>	257.67	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-128.83	
32 31 13	13-0298	EA	14' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,899.18	56.86
			<i>For Gate With Single Barb Wire Arm, Add</i>	190.13	
			<i>For Gate With Double Barb Wire Arm, Add</i>	276.55	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-324.08	
			<i>For Aluminized Steel Gate And Post, Add</i>	829.66	
			<i>For Powder Coated Gate And Post, Add</i>	449.40	
			<i>For 1" Mesh Fabric, Add</i>	751.88	
			<i>For 1-1/4" Mesh Fabric, Add</i>	483.97	
			<i>For 1-3/4" Mesh Fabric, Add</i>	300.75	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-150.38	
32 31 13	13-0299	EA	16' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,191.90	71.83
			<i>For Gate With Single Barb Wire Arm, Add</i>	217.37	
			<i>For Gate With Double Barb Wire Arm, Add</i>	316.17	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-370.51	
			<i>For Aluminized Steel Gate And Post, Add</i>	948.51	
			<i>For Powder Coated Gate And Post, Add</i>	513.78	
			<i>For 1" Mesh Fabric, Add</i>	859.59	
			<i>For 1-1/4" Mesh Fabric, Add</i>	553.30	
			<i>For 1-3/4" Mesh Fabric, Add</i>	343.84	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-171.92	
32 31 13	13-0300	EA	18' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,450.08	76.99
			<i>For Gate With Single Barb Wire Arm, Add</i>	244.07	
			<i>For Gate With Double Barb Wire Arm, Add</i>	355.01	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-416.03	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,065.04	
			<i>For Powder Coated Gate And Post, Add</i>	576.90	
			<i>For 1" Mesh Fabric, Add</i>	965.19	
			<i>For 1-1/4" Mesh Fabric, Add</i>	621.27	
			<i>For 1-3/4" Mesh Fabric, Add</i>	386.08	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-193.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0301 EA 20' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,720.33	82.96
For Gate With Single Barb Wire Arm, Add	271.84	
For Gate With Double Barb Wire Arm, Add	395.41	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-463.37	
For Aluminized Steel Gate And Post, Add	1,186.22	
For Powder Coated Gate And Post, Add	642.54	
For 1" Mesh Fabric, Add	1,075.02	
For 1-1/4" Mesh Fabric, Add	691.96	
For 1-3/4" Mesh Fabric, Add	430.01	
For 2-1/8" Mesh Fabric, Deduct	-215.00	
32 31 13 13-0302 EA 22' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,988.70	89.84
For Gate With Single Barb Wire Arm, Add	299.08	
For Gate With Double Barb Wire Arm, Add	435.03	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-509.80	
For Aluminized Steel Gate And Post, Add	1,305.08	
For Powder Coated Gate And Post, Add	706.92	
For 1" Mesh Fabric, Add	1,182.73	
For 1-1/4" Mesh Fabric, Add	761.29	
For 1-3/4" Mesh Fabric, Add	473.09	
For 2-1/8" Mesh Fabric, Deduct	-236.55	
32 31 13 13-0303 EA 24' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	3,255.99	98.03
For Gate With Single Barb Wire Arm, Add	325.78	
For Gate With Double Barb Wire Arm, Add	473.87	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-555.31	
For Aluminized Steel Gate And Post, Add	1,421.60	
For Powder Coated Gate And Post, Add	770.03	
For 1" Mesh Fabric, Add	1,288.33	
For 1-1/4" Mesh Fabric, Add	829.27	
For 1-3/4" Mesh Fabric, Add	515.33	
For 2-1/8" Mesh Fabric, Deduct	-257.67	
32 31 13 13-0304 EA 26' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	3,537.89	107.84
For Gate With Single Barb Wire Arm, Add	353.56	
For Gate With Double Barb Wire Arm, Add	514.26	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-602.65	
For Aluminized Steel Gate And Post, Add	1,542.79	
For Powder Coated Gate And Post, Add	835.68	
For 1" Mesh Fabric, Add	1,398.15	
For 1-1/4" Mesh Fabric, Add	899.96	
For 1-3/4" Mesh Fabric, Add	559.26	
For 2-1/8" Mesh Fabric, Deduct	-279.63	
32 31 13 13-0305 EA 28' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	3,818.42	119.78
For Gate With Single Barb Wire Arm, Add	380.46	
For Gate With Double Barb Wire Arm, Add	553.39	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-648.51	
For Aluminized Steel Gate And Post, Add	1,660.18	
For Powder Coated Gate And Post, Add	899.26	
For 1" Mesh Fabric, Add	1,504.53	
For 1-1/4" Mesh Fabric, Add	968.44	
For 1-3/4" Mesh Fabric, Add	601.81	
For 2-1/8" Mesh Fabric, Deduct	-300.91	
32 31 13 13-0306 EA 30' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	4,104.35	134.76
For Gate With Single Barb Wire Arm, Add	406.96	
For Gate With Double Barb Wire Arm, Add	591.95	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-693.69	
For Aluminized Steel Gate And Post, Add	1,775.84	
For Powder Coated Gate And Post, Add	961.91	
For 1" Mesh Fabric, Add	1,609.35	
For 1-1/4" Mesh Fabric, Add	1,035.90	
For 1-3/4" Mesh Fabric, Add	643.74	
For 2-1/8" Mesh Fabric, Deduct	-321.87	
32 31 13 13-0307 6' Fence Height (32 31 13 13-0266)		
32 31 13 13-0308 EA 3' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire.....	402.92	24.33
For Gate With Single Barb Wire Arm, Add	36.27	
For Gate With Double Barb Wire Arm, Add	52.76	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-61.83	
For Aluminized Steel Gate And Post, Add	158.28	
For Powder Coated Gate And Post, Add	85.74	
For 1" Mesh Fabric, Add	143.44	
For 1-1/4" Mesh Fabric, Add	92.33	
For 1-3/4" Mesh Fabric, Add	57.38	
For 2-1/8" Mesh Fabric, Deduct	-28.69	
32 31 13 13-0309 EA 4' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire.....	512.16	24.33
For Gate With Single Barb Wire Arm, Add	48.29	
For Gate With Double Barb Wire Arm, Add	70.24	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-82.31	
For Aluminized Steel Gate And Post, Add	210.72	
For Powder Coated Gate And Post, Add	114.14	
For 1" Mesh Fabric, Add	190.96	
For 1-1/4" Mesh Fabric, Add	122.92	
For 1-3/4" Mesh Fabric, Add	76.38	
For 2-1/8" Mesh Fabric, Deduct	-38.19	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0310 EA 5' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire.....	600.23	25.86
For Gate With Single Barb Wire Arm, Add	57.48	
For Gate With Double Barb Wire Arm, Add	83.61	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-97.98	
For Aluminized Steel Gate And Post, Add	250.82	
For Powder Coated Gate And Post, Add	135.86	
For 1" Mesh Fabric, Add	227.30	
For 1-1/4" Mesh Fabric, Add	146.31	
For 1-3/4" Mesh Fabric, Add	90.92	
For 2-1/8" Mesh Fabric, Deduct	-45.46	
32 31 13 13-0311 EA 6' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire.....	696.75	31.25
For Gate With Single Barb Wire Arm, Add	66.31	
For Gate With Double Barb Wire Arm, Add	96.46	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-113.03	
For Aluminized Steel Gate And Post, Add	289.37	
For Powder Coated Gate And Post, Add	156.74	
For 1" Mesh Fabric, Add	262.24	
For 1-1/4" Mesh Fabric, Add	168.80	
For 1-3/4" Mesh Fabric, Add	104.90	
For 2-1/8" Mesh Fabric, Deduct	-52.45	
32 31 13 13-0312 EA 7' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire.....	797.93	36.71
For Gate With Single Barb Wire Arm, Add	75.66	
For Gate With Double Barb Wire Arm, Add	110.05	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-128.97	
For Aluminized Steel Gate And Post, Add	330.15	
For Powder Coated Gate And Post, Add	178.83	
For 1" Mesh Fabric, Add	299.20	
For 1-1/4" Mesh Fabric, Add	192.59	
For 1-3/4" Mesh Fabric, Add	119.68	
For 2-1/8" Mesh Fabric, Deduct	-59.84	
32 31 13 13-0313 EA 8' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire.....	894.22	41.83
For Gate With Single Barb Wire Arm, Add	84.56	
For Gate With Double Barb Wire Arm, Add	123.00	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-144.14	
For Aluminized Steel Gate And Post, Add	369.00	
For Powder Coated Gate And Post, Add	199.87	
For 1" Mesh Fabric, Add	334.40	
For 1-1/4" Mesh Fabric, Add	215.25	
For 1-3/4" Mesh Fabric, Add	133.76	
For 2-1/8" Mesh Fabric, Deduct	-66.88	
32 31 13 13-0314 EA 9' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire.....	991.37	47.21
For Gate With Single Barb Wire Arm, Add	93.46	
For Gate With Double Barb Wire Arm, Add	135.95	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-159.31	
For Aluminized Steel Gate And Post, Add	407.84	
For Powder Coated Gate And Post, Add	220.91	
For 1" Mesh Fabric, Add	369.60	
For 1-1/4" Mesh Fabric, Add	237.90	
For 1-3/4" Mesh Fabric, Add	147.84	
For 2-1/8" Mesh Fabric, Deduct	-73.92	
32 31 13 13-0315 EA 10' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire.....	1,052.09	52.58
For Gate With Single Barb Wire Arm, Add	98.36	
For Gate With Double Barb Wire Arm, Add	143.07	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-167.66	
For Aluminized Steel Gate And Post, Add	429.20	
For Powder Coated Gate And Post, Add	232.48	
For 1" Mesh Fabric, Add	388.96	
For 1-1/4" Mesh Fabric, Add	250.37	
For 1-3/4" Mesh Fabric, Add	155.59	
For 2-1/8" Mesh Fabric, Deduct	-77.79	
32 31 13 13-0316 EA 10' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire.....	1,473.35	52.50
For Gate With Single Barb Wire Arm, Add	144.73	
For Gate With Double Barb Wire Arm, Add	210.52	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-246.71	
For Aluminized Steel Gate And Post, Add	631.56	
For Powder Coated Gate And Post, Add	342.10	
For 1" Mesh Fabric, Add	572.36	
For 1-1/4" Mesh Fabric, Add	368.41	
For 1-3/4" Mesh Fabric, Add	228.94	
For 2-1/8" Mesh Fabric, Deduct	-114.47	
32 31 13 13-0317 EA 12' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire.....	1,748.67	56.86
For Gate With Single Barb Wire Arm, Add	173.57	
For Gate With Double Barb Wire Arm, Add	252.47	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-295.86	
For Aluminized Steel Gate And Post, Add	757.41	
For Powder Coated Gate And Post, Add	410.26	
For 1" Mesh Fabric, Add	686.40	
For 1-1/4" Mesh Fabric, Add	441.82	
For 1-3/4" Mesh Fabric, Add	274.56	
For 2-1/8" Mesh Fabric, Deduct	-137.28	



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0318 EA 14' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,076.23	76.99
For Gate With Single Barb Wire Arm, Add	202.95	
For Gate With Double Barb Wire Arm, Add	295.20	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-345.93	
For Aluminized Steel Gate And Post, Add	885.59	
For Powder Coated Gate And Post, Add	479.69	
For 1" Mesh Fabric, Add	802.57	
For 1-1/4" Mesh Fabric, Add	516.59	
For 1-3/4" Mesh Fabric, Add	321.03	
For 2-1/8" Mesh Fabric, Deduct	-160.51	
32 31 13 13-0319 EA 16' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,356.19	82.96
For Gate With Single Barb Wire Arm, Add	231.79	
For Gate With Double Barb Wire Arm, Add	337.15	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-395.09	
For Aluminized Steel Gate And Post, Add	1,011.44	
For Powder Coated Gate And Post, Add	547.86	
For 1" Mesh Fabric, Add	916.61	
For 1-1/4" Mesh Fabric, Add	590.00	
For 1-3/4" Mesh Fabric, Add	366.65	
For 2-1/8" Mesh Fabric, Deduct	-183.32	
32 31 13 13-0320 EA 18' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,643.98	89.84
For Gate With Single Barb Wire Arm, Add	261.16	
For Gate With Double Barb Wire Arm, Add	379.87	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-445.16	
For Aluminized Steel Gate And Post, Add	1,139.61	
For Powder Coated Gate And Post, Add	617.29	
For 1" Mesh Fabric, Add	1,032.77	
For 1-1/4" Mesh Fabric, Add	664.77	
For 1-3/4" Mesh Fabric, Add	413.11	
For 2-1/8" Mesh Fabric, Deduct	-206.55	
32 31 13 13-0321 EA 20' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,935.55	98.03
For Gate With Single Barb Wire Arm, Add	290.54	
For Gate With Double Barb Wire Arm, Add	422.60	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-495.23	
For Aluminized Steel Gate And Post, Add	1,267.79	
For Powder Coated Gate And Post, Add	686.72	
For 1" Mesh Fabric, Add	1,148.94	
For 1-1/4" Mesh Fabric, Add	739.54	
For 1-3/4" Mesh Fabric, Add	459.57	
For 2-1/8" Mesh Fabric, Deduct	-229.79	
32 31 13 13-0322 EA 22' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	3,227.16	107.84
For Gate With Single Barb Wire Arm, Add	319.38	
For Gate With Double Barb Wire Arm, Add	464.55	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-544.39	
For Aluminized Steel Gate And Post, Add	1,393.64	
For Powder Coated Gate And Post, Add	754.89	
For 1" Mesh Fabric, Add	1,262.98	
For 1-1/4" Mesh Fabric, Add	812.95	
For 1-3/4" Mesh Fabric, Add	505.19	
For 2-1/8" Mesh Fabric, Deduct	-252.60	
32 31 13 13-0323 EA 24' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	3,527.74	119.78
For Gate With Single Barb Wire Arm, Add	348.48	
For Gate With Double Barb Wire Arm, Add	506.88	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-594.00	
For Aluminized Steel Gate And Post, Add	1,520.65	
For Powder Coated Gate And Post, Add	823.69	
For 1" Mesh Fabric, Add	1,378.09	
For 1-1/4" Mesh Fabric, Add	887.05	
For 1-3/4" Mesh Fabric, Add	551.24	
For 2-1/8" Mesh Fabric, Deduct	-275.62	
32 31 13 13-0324 EA 26' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	3,834.40	134.76
For Gate With Single Barb Wire Arm, Add	377.27	
For Gate With Double Barb Wire Arm, Add	548.75	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-643.07	
For Aluminized Steel Gate And Post, Add	1,646.26	
For Powder Coated Gate And Post, Add	891.72	
For 1" Mesh Fabric, Add	1,491.92	
For 1-1/4" Mesh Fabric, Add	960.32	
For 1-3/4" Mesh Fabric, Add	596.77	
For 2-1/8" Mesh Fabric, Deduct	-298.38	
32 31 13 13-0325 EA 28' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,157.31	153.98
For Gate With Single Barb Wire Arm, Add	406.43	
For Gate With Double Barb Wire Arm, Add	591.17	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-692.78	
For Aluminized Steel Gate And Post, Add	1,773.51	
For Powder Coated Gate And Post, Add	960.65	
For 1" Mesh Fabric, Add	1,607.24	
For 1-1/4" Mesh Fabric, Add	1,034.55	
For 1-3/4" Mesh Fabric, Add	642.90	
For 2-1/8" Mesh Fabric, Deduct	-321.45	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0326	EA	30' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,499.96	179.68
			<i>For Gate With Single Barb Wire Arm, Add</i>	435.64	
			<i>For Gate With Double Barb Wire Arm, Add</i>	633.66	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-742.57	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,900.99	
			<i>For Powder Coated Gate And Post, Add</i>	1,029.70	
			<i>For 1" Mesh Fabric, Add</i>	1,722.77	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,108.91	
			<i>For 1-3/4" Mesh Fabric, Add</i>	689.11	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-344.55	
32 31 13	13-0327		7' Fence Height <small>(32 31 13 13-0266)</small>		
32 31 13	13-0328	EA	3' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	422.71	26.21
			<i>For Gate With Single Barb Wire Arm, Add</i>	37.83	
			<i>For Gate With Double Barb Wire Arm, Add</i>	55.03	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-64.48	
			<i>For Aluminized Steel Gate And Post, Add</i>	165.08	
			<i>For Powder Coated Gate And Post, Add</i>	89.42	
			<i>For 1" Mesh Fabric, Add</i>	149.60	
			<i>For 1-1/4" Mesh Fabric, Add</i>	96.29	
			<i>For 1-3/4" Mesh Fabric, Add</i>	59.84	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-29.92	
32 31 13	13-0329	EA	4' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	536.00	26.21
			<i>For Gate With Single Barb Wire Arm, Add</i>	50.29	
			<i>For Gate With Double Barb Wire Arm, Add</i>	73.15	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-85.73	
			<i>For Aluminized Steel Gate And Post, Add</i>	219.46	
			<i>For Powder Coated Gate And Post, Add</i>	118.87	
			<i>For 1" Mesh Fabric, Add</i>	198.88	
			<i>For 1-1/4" Mesh Fabric, Add</i>	128.02	
			<i>For 1-3/4" Mesh Fabric, Add</i>	79.55	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-39.78	
32 31 13	13-0330	EA	5' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	631.76	27.57
			<i>For Gate With Single Barb Wire Arm, Add</i>	60.39	
			<i>For Gate With Double Barb Wire Arm, Add</i>	87.83	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-102.93	
			<i>For Aluminized Steel Gate And Post, Add</i>	263.50	
			<i>For Powder Coated Gate And Post, Add</i>	142.73	
			<i>For 1" Mesh Fabric, Add</i>	238.80	
			<i>For 1-1/4" Mesh Fabric, Add</i>	153.71	
			<i>For 1-3/4" Mesh Fabric, Add</i>	95.52	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-47.76	
32 31 13	13-0331	EA	6' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	774.31	33.55
			<i>For Gate With Single Barb Wire Arm, Add</i>	74.09	
			<i>For Gate With Double Barb Wire Arm, Add</i>	107.77	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-126.30	
			<i>For Aluminized Steel Gate And Post, Add</i>	323.32	
			<i>For Powder Coated Gate And Post, Add</i>	175.13	
			<i>For 1" Mesh Fabric, Add</i>	293.01	
			<i>For 1-1/4" Mesh Fabric, Add</i>	188.60	
			<i>For 1-3/4" Mesh Fabric, Add</i>	117.20	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-58.60	
32 31 13	13-0332	EA	7' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	916.04	39.27
			<i>For Gate With Single Barb Wire Arm, Add</i>	87.81	
			<i>For Gate With Double Barb Wire Arm, Add</i>	127.72	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-149.67	
			<i>For Aluminized Steel Gate And Post, Add</i>	383.16	
			<i>For Powder Coated Gate And Post, Add</i>	207.54	
			<i>For 1" Mesh Fabric, Add</i>	347.23	
			<i>For 1-1/4" Mesh Fabric, Add</i>	223.51	
			<i>For 1-3/4" Mesh Fabric, Add</i>	138.89	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-69.45	
32 31 13	13-0333	EA	8' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	1,058.58	45.16
			<i>For Gate With Single Barb Wire Arm, Add</i>	101.51	
			<i>For Gate With Double Barb Wire Arm, Add</i>	147.66	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-173.03	
			<i>For Aluminized Steel Gate And Post, Add</i>	442.97	
			<i>For Powder Coated Gate And Post, Add</i>	239.94	
			<i>For 1" Mesh Fabric, Add</i>	401.44	
			<i>For 1-1/4" Mesh Fabric, Add</i>	258.40	
			<i>For 1-3/4" Mesh Fabric, Add</i>	160.58	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-80.29	
32 31 13	13-0334	EA	9' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	1,200.31	50.88
			<i>For Gate With Single Barb Wire Arm, Add</i>	115.23	
			<i>For Gate With Double Barb Wire Arm, Add</i>	167.60	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-196.41	
			<i>For Aluminized Steel Gate And Post, Add</i>	502.80	
			<i>For Powder Coated Gate And Post, Add</i>	272.35	
			<i>For 1" Mesh Fabric, Add</i>	455.67	
			<i>For 1-1/4" Mesh Fabric, Add</i>	293.30	
			<i>For 1-3/4" Mesh Fabric, Add</i>	182.27	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-91.13	



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0335 EA 10' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire.....	1,320.40	56.86
For Gate With Single Barb Wire Arm, Add	126.46	
For Gate With Double Barb Wire Arm, Add	183.95	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-215.56	
For Aluminized Steel Gate And Post, Add	551.84	
For Powder Coated Gate And Post, Add	298.91	
For 1" Mesh Fabric, Add	500.11	
For 1-1/4" Mesh Fabric, Add	321.91	
For 1-3/4" Mesh Fabric, Add	200.04	
For 2-1/8" Mesh Fabric, Deduct	-100.02	
32 31 13 13-0336 EA 10' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	1,679.82	56.86
For Gate With Single Barb Wire Arm, Add	166.00	
For Gate With Double Barb Wire Arm, Add	241.45	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-282.95	
For Aluminized Steel Gate And Post, Add	724.36	
For Powder Coated Gate And Post, Add	392.36	
For 1" Mesh Fabric, Add	656.45	
For 1-1/4" Mesh Fabric, Add	422.55	
For 1-3/4" Mesh Fabric, Add	262.58	
For 2-1/8" Mesh Fabric, Deduct	-131.29	
32 31 13 13-0337 EA 12' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	1,909.24	76.99
For Gate With Single Barb Wire Arm, Add	184.58	
For Gate With Double Barb Wire Arm, Add	268.48	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-314.62	
For Aluminized Steel Gate And Post, Add	805.44	
For Powder Coated Gate And Post, Add	436.28	
For 1" Mesh Fabric, Add	729.93	
For 1-1/4" Mesh Fabric, Add	469.84	
For 1-3/4" Mesh Fabric, Add	291.97	
For 2-1/8" Mesh Fabric, Deduct	-145.99	
32 31 13 13-0338 EA 14' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	2,206.68	82.96
For Gate With Single Barb Wire Arm, Add	215.34	
For Gate With Double Barb Wire Arm, Add	313.22	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-367.06	
For Aluminized Steel Gate And Post, Add	939.67	
For Powder Coated Gate And Post, Add	508.99	
For 1" Mesh Fabric, Add	851.58	
For 1-1/4" Mesh Fabric, Add	548.14	
For 1-3/4" Mesh Fabric, Add	340.63	
For 2-1/8" Mesh Fabric, Deduct	-170.32	
32 31 13 13-0339 EA 16' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	2,483.76	89.84
For Gate With Single Barb Wire Arm, Add	243.54	
For Gate With Double Barb Wire Arm, Add	354.24	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-415.12	
For Aluminized Steel Gate And Post, Add	1,062.71	
For Powder Coated Gate And Post, Add	575.63	
For 1" Mesh Fabric, Add	963.08	
For 1-1/4" Mesh Fabric, Add	619.91	
For 1-3/4" Mesh Fabric, Add	385.23	
For 2-1/8" Mesh Fabric, Deduct	-192.62	
32 31 13 13-0340 EA 18' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	2,789.89	98.03
For Gate With Single Barb Wire Arm, Add	274.51	
For Gate With Double Barb Wire Arm, Add	399.29	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-467.92	
For Aluminized Steel Gate And Post, Add	1,197.87	
For Powder Coated Gate And Post, Add	648.85	
For 1" Mesh Fabric, Add	1,085.57	
For 1-1/4" Mesh Fabric, Add	698.76	
For 1-3/4" Mesh Fabric, Add	434.23	
For 2-1/8" Mesh Fabric, Deduct	-217.11	
32 31 13 13-0341 EA 20' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,096.07	107.84
For Gate With Single Barb Wire Arm, Add	304.96	
For Gate With Double Barb Wire Arm, Add	443.57	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-519.81	
For Aluminized Steel Gate And Post, Add	1,330.71	
For Powder Coated Gate And Post, Add	720.80	
For 1" Mesh Fabric, Add	1,205.96	
For 1-1/4" Mesh Fabric, Add	776.25	
For 1-3/4" Mesh Fabric, Add	482.38	
For 2-1/8" Mesh Fabric, Deduct	-241.19	
32 31 13 13-0342 EA 22' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,408.79	119.78
For Gate With Single Barb Wire Arm, Add	335.40	
For Gate With Double Barb Wire Arm, Add	487.85	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-571.70	
For Aluminized Steel Gate And Post, Add	1,463.55	
For Powder Coated Gate And Post, Add	792.76	
For 1" Mesh Fabric, Add	1,326.35	
For 1-1/4" Mesh Fabric, Add	853.74	
For 1-3/4" Mesh Fabric, Add	530.54	
For 2-1/8" Mesh Fabric, Deduct	-265.27	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0343 EA 24' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,730.50	134.76
For Gate With Single Barb Wire Arm, Add	365.84	
For Gate With Double Barb Wire Arm, Add	532.13	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-623.59	
For Aluminized Steel Gate And Post, Add	1,596.39	
For Powder Coated Gate And Post, Add	864.71	
For 1" Mesh Fabric, Add	1,446.73	
For 1-1/4" Mesh Fabric, Add	931.23	
For 1-3/4" Mesh Fabric, Add	578.69	
For 2-1/8" Mesh Fabric, Deduct	-289.35	
32 31 13 13-0344 EA 26' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	4,065.06	153.98
For Gate With Single Barb Wire Arm, Add	396.28	
For Gate With Double Barb Wire Arm, Add	576.41	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-675.48	
For Aluminized Steel Gate And Post, Add	1,729.23	
For Powder Coated Gate And Post, Add	936.67	
For 1" Mesh Fabric, Add	1,567.11	
For 1-1/4" Mesh Fabric, Add	1,008.72	
For 1-3/4" Mesh Fabric, Add	626.85	
For 2-1/8" Mesh Fabric, Deduct	-313.42	
32 31 13 13-0345 EA 28' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	4,418.87	179.68
For Gate With Single Barb Wire Arm, Add	426.72	
For Gate With Double Barb Wire Arm, Add	620.69	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-727.37	
For Aluminized Steel Gate And Post, Add	1,862.06	
For Powder Coated Gate And Post, Add	1,008.62	
For 1" Mesh Fabric, Add	1,687.50	
For 1-1/4" Mesh Fabric, Add	1,086.20	
For 1-3/4" Mesh Fabric, Add	675.00	
For 2-1/8" Mesh Fabric, Deduct	-337.50	
32 31 13 13-0346 EA 30' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	4,803.54	215.60
For Gate With Single Barb Wire Arm, Add	457.17	
For Gate With Double Barb Wire Arm, Add	664.97	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-779.26	
For Aluminized Steel Gate And Post, Add	1,994.90	
For Powder Coated Gate And Post, Add	1,080.57	
For 1" Mesh Fabric, Add	1,807.88	
For 1-1/4" Mesh Fabric, Add	1,163.69	
For 1-3/4" Mesh Fabric, Add	723.15	
For 2-1/8" Mesh Fabric, Deduct	-361.58	
32 31 13 13-0347 8' Fence Height (32 31 13 13-0266)		
32 31 13 13-0348 EA 3' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	496.09	28.42
For Gate With Single Barb Wire Arm, Add	45.18	
For Gate With Double Barb Wire Arm, Add	65.72	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-77.01	
For Aluminized Steel Gate And Post, Add	197.15	
For Powder Coated Gate And Post, Add	106.79	
For 1" Mesh Fabric, Add	178.67	
For 1-1/4" Mesh Fabric, Add	115.00	
For 1-3/4" Mesh Fabric, Add	71.47	
For 2-1/8" Mesh Fabric, Deduct	-35.73	
32 31 13 13-0349 EA 4' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	633.00	28.42
For Gate With Single Barb Wire Arm, Add	60.24	
For Gate With Double Barb Wire Arm, Add	87.62	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-102.68	
For Aluminized Steel Gate And Post, Add	262.87	
For Powder Coated Gate And Post, Add	142.39	
For 1" Mesh Fabric, Add	238.22	
For 1-1/4" Mesh Fabric, Add	153.34	
For 1-3/4" Mesh Fabric, Add	95.29	
For 2-1/8" Mesh Fabric, Deduct	-47.64	
32 31 13 13-0350 EA 5' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	739.27	31.67
For Gate With Single Barb Wire Arm, Add	70.85	
For Gate With Double Barb Wire Arm, Add	103.05	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-120.77	
For Aluminized Steel Gate And Post, Add	309.16	
For Powder Coated Gate And Post, Add	167.46	
For 1" Mesh Fabric, Add	280.17	
For 1-1/4" Mesh Fabric, Add	180.34	
For 1-3/4" Mesh Fabric, Add	112.07	
For 2-1/8" Mesh Fabric, Deduct	-56.03	
32 31 13 13-0351 EA 6' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	848.10	35.85
For Gate With Single Barb Wire Arm, Add	81.46	
For Gate With Double Barb Wire Arm, Add	118.49	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-138.85	
For Aluminized Steel Gate And Post, Add	355.46	
For Powder Coated Gate And Post, Add	192.54	
For 1" Mesh Fabric, Add	322.13	
For 1-1/4" Mesh Fabric, Add	207.35	
For 1-3/4" Mesh Fabric, Add	128.85	
For 2-1/8" Mesh Fabric, Deduct	-64.43	



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0352 EA 7' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire.....	966.76	43.20
For Gate With Single Barb Wire Arm, Add	92.07	
For Gate With Double Barb Wire Arm, Add	133.92	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-156.94	
For Aluminized Steel Gate And Post, Add	401.76	
For Powder Coated Gate And Post, Add	217.62	
For 1" Mesh Fabric, Add	364.10	
For 1-1/4" Mesh Fabric, Add	234.36	
For 1-3/4" Mesh Fabric, Add	145.64	
For 2-1/8" Mesh Fabric, Deduct	-72.82	
32 31 13 13-0353 EA 8' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire.....	1,084.55	50.28
For Gate With Single Barb Wire Arm, Add	102.68	
For Gate With Double Barb Wire Arm, Add	149.35	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-175.02	
For Aluminized Steel Gate And Post, Add	448.06	
For Powder Coated Gate And Post, Add	242.70	
For 1" Mesh Fabric, Add	406.05	
For 1-1/4" Mesh Fabric, Add	261.37	
For 1-3/4" Mesh Fabric, Add	162.42	
For 2-1/8" Mesh Fabric, Deduct	-81.21	
32 31 13 13-0354 EA 9' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire.....	1,203.21	57.71
For Gate With Single Barb Wire Arm, Add	113.29	
For Gate With Double Barb Wire Arm, Add	164.79	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-193.11	
For Aluminized Steel Gate And Post, Add	494.36	
For Powder Coated Gate And Post, Add	267.78	
For 1" Mesh Fabric, Add	448.01	
For 1-1/4" Mesh Fabric, Add	288.37	
For 1-3/4" Mesh Fabric, Add	179.20	
For 2-1/8" Mesh Fabric, Deduct	-89.60	
32 31 13 13-0355 EA 10' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire.....	1,321.85	65.13
For Gate With Single Barb Wire Arm, Add	123.90	
For Gate With Double Barb Wire Arm, Add	180.22	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-211.19	
For Aluminized Steel Gate And Post, Add	540.66	
For Powder Coated Gate And Post, Add	292.86	
For 1" Mesh Fabric, Add	489.97	
For 1-1/4" Mesh Fabric, Add	315.38	
For 1-3/4" Mesh Fabric, Add	195.99	
For 2-1/8" Mesh Fabric, Deduct	-97.99	
32 31 13 13-0356 EA 10' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire.....	1,920.82	76.99
For Gate With Single Barb Wire Arm, Add	185.85	
For Gate With Double Barb Wire Arm, Add	270.33	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-316.79	
For Aluminized Steel Gate And Post, Add	810.99	
For Powder Coated Gate And Post, Add	439.29	
For 1" Mesh Fabric, Add	734.96	
For 1-1/4" Mesh Fabric, Add	473.08	
For 1-3/4" Mesh Fabric, Add	293.99	
For 2-1/8" Mesh Fabric, Deduct	-146.99	
32 31 13 13-0357 EA 12' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire.....	2,263.94	82.96
For Gate With Single Barb Wire Arm, Add	221.64	
For Gate With Double Barb Wire Arm, Add	322.39	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-377.80	
For Aluminized Steel Gate And Post, Add	967.16	
For Powder Coated Gate And Post, Add	523.88	
For 1" Mesh Fabric, Add	876.49	
For 1-1/4" Mesh Fabric, Add	564.17	
For 1-3/4" Mesh Fabric, Add	350.59	
For 2-1/8" Mesh Fabric, Deduct	-175.30	
32 31 13 13-0358 EA 14' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire.....	2,614.85	89.84
For Gate With Single Barb Wire Arm, Add	257.96	
For Gate With Double Barb Wire Arm, Add	375.21	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-439.70	
For Aluminized Steel Gate And Post, Add	1,125.63	
For Powder Coated Gate And Post, Add	609.72	
For 1" Mesh Fabric, Add	1,020.10	
For 1-1/4" Mesh Fabric, Add	656.62	
For 1-3/4" Mesh Fabric, Add	408.04	
For 2-1/8" Mesh Fabric, Deduct	-204.02	
32 31 13 13-0359 EA 16' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire.....	2,979.25	98.03
For Gate With Single Barb Wire Arm, Add	295.34	
For Gate With Double Barb Wire Arm, Add	429.59	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-503.42	
For Aluminized Steel Gate And Post, Add	1,288.77	
For Powder Coated Gate And Post, Add	698.08	
For 1" Mesh Fabric, Add	1,167.94	
For 1-1/4" Mesh Fabric, Add	751.78	
For 1-3/4" Mesh Fabric, Add	467.18	
For 2-1/8" Mesh Fabric, Deduct	-233.59	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0360 EA 18 Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	3,348.54	107.84
For Gate With Single Barb Wire Arm, Add	332.73	
For Gate With Double Barb Wire Arm, Add	483.97	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-567.15	
For Aluminized Steel Gate And Post, Add	1,451.90	
For Powder Coated Gate And Post, Add	786.45	
For 1" Mesh Fabric, Add	1,315.78	
For 1-1/4" Mesh Fabric, Add	846.94	
For 1-3/4" Mesh Fabric, Add	526.31	
For 2-1/8" Mesh Fabric, Deduct	-263.16	
32 31 13 13-0361 EA 20' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	3,719.52	119.78
For Gate With Single Barb Wire Arm, Add	369.58	
For Gate With Double Barb Wire Arm, Add	537.57	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-629.96	
For Aluminized Steel Gate And Post, Add	1,612.70	
For Powder Coated Gate And Post, Add	873.55	
For 1" Mesh Fabric, Add	1,461.51	
For 1-1/4" Mesh Fabric, Add	940.74	
For 1-3/4" Mesh Fabric, Add	584.61	
For 2-1/8" Mesh Fabric, Deduct	-292.30	
32 31 13 13-0362 EA 22' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	4,094.64	134.76
For Gate With Single Barb Wire Arm, Add	405.89	
For Gate With Double Barb Wire Arm, Add	590.39	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-691.87	
For Aluminized Steel Gate And Post, Add	1,771.18	
For Powder Coated Gate And Post, Add	959.39	
For 1" Mesh Fabric, Add	1,605.13	
For 1-1/4" Mesh Fabric, Add	1,033.19	
For 1-3/4" Mesh Fabric, Add	642.05	
For 2-1/8" Mesh Fabric, Deduct	-321.03	
32 31 13 13-0363 EA 24' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	4,492.32	153.98
For Gate With Single Barb Wire Arm, Add	443.28	
For Gate With Double Barb Wire Arm, Add	644.77	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-755.59	
For Aluminized Steel Gate And Post, Add	1,934.31	
For Powder Coated Gate And Post, Add	1,047.75	
For 1" Mesh Fabric, Add	1,752.97	
For 1-1/4" Mesh Fabric, Add	1,128.35	
For 1-3/4" Mesh Fabric, Add	701.19	
For 2-1/8" Mesh Fabric, Deduct	-350.59	
32 31 13 13-0364 EA 26' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	4,909.25	179.68
For Gate With Single Barb Wire Arm, Add	480.66	
For Gate With Double Barb Wire Arm, Add	699.15	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-819.32	
For Aluminized Steel Gate And Post, Add	2,097.45	
For Powder Coated Gate And Post, Add	1,136.12	
For 1" Mesh Fabric, Add	1,900.81	
For 1-1/4" Mesh Fabric, Add	1,223.51	
For 1-3/4" Mesh Fabric, Add	760.32	
For 2-1/8" Mesh Fabric, Deduct	-380.16	
32 31 13 13-0365 EA 28' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	5,352.18	215.60
For Gate With Single Barb Wire Arm, Add	517.52	
For Gate With Double Barb Wire Arm, Add	752.75	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-882.13	
For Aluminized Steel Gate And Post, Add	2,258.25	
For Powder Coated Gate And Post, Add	1,223.22	
For 1" Mesh Fabric, Add	2,046.54	
For 1-1/4" Mesh Fabric, Add	1,317.31	
For 1-3/4" Mesh Fabric, Add	818.62	
For 2-1/8" Mesh Fabric, Deduct	-409.31	
32 31 13 13-0366 EA 30' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	5,849.06	269.52
For Gate With Single Barb Wire Arm, Add	554.37	
For Gate With Double Barb Wire Arm, Add	806.35	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-944.94	
For Aluminized Steel Gate And Post, Add	2,419.06	
For Powder Coated Gate And Post, Add	1,310.32	
For 1" Mesh Fabric, Add	2,192.27	
For 1-1/4" Mesh Fabric, Add	1,411.12	
For 1-3/4" Mesh Fabric, Add	876.91	
For 2-1/8" Mesh Fabric, Deduct	-438.45	
32 31 13 13-0367 10' Fence Height (32 31 13 13-0266)		
32 31 13 13-0368 EA 3' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	625.98	31.59
For Gate With Single Barb Wire Arm, Add	58.42	
For Gate With Double Barb Wire Arm, Add	84.98	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-99.59	
For Aluminized Steel Gate And Post, Add	254.94	
For Powder Coated Gate And Post, Add	138.09	
For 1" Mesh Fabric, Add	231.04	
For 1-1/4" Mesh Fabric, Add	148.72	
For 1-3/4" Mesh Fabric, Add	92.42	
For 2-1/8" Mesh Fabric, Deduct	-46.21	



Exterior Improvements	32	32
Site Improvements	32 30	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0369 EA 4' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	803.02	31.59
For Gate With Single Barb Wire Arm, Add	77.90	
For Gate With Double Barb Wire Arm, Add	113.31	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-132.78	
For Aluminized Steel Gate And Post, Add	339.92	
For Powder Coated Gate And Post, Add	184.12	
For 1" Mesh Fabric, Add	308.05	
For 1-1/4" Mesh Fabric, Add	198.29	
For 1-3/4" Mesh Fabric, Add	123.22	
For 2-1/8" Mesh Fabric, Deduct	-61.61	
32 31 13 13-0370 EA 5' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	931.93	32.95
For Gate With Single Barb Wire Arm, Add	91.62	
For Gate With Double Barb Wire Arm, Add	133.27	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-156.17	
For Aluminized Steel Gate And Post, Add	399.80	
For Powder Coated Gate And Post, Add	216.56	
For 1" Mesh Fabric, Add	362.32	
For 1-1/4" Mesh Fabric, Add	233.21	
For 1-3/4" Mesh Fabric, Add	144.93	
For 2-1/8" Mesh Fabric, Deduct	-72.46	
32 31 13 13-0371 EA 6' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	1,080.57	40.97
For Gate With Single Barb Wire Arm, Add	105.34	
For Gate With Double Barb Wire Arm, Add	153.22	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-179.56	
For Aluminized Steel Gate And Post, Add	459.67	
For Powder Coated Gate And Post, Add	248.99	
For 1" Mesh Fabric, Add	416.58	
For 1-1/4" Mesh Fabric, Add	268.14	
For 1-3/4" Mesh Fabric, Add	166.63	
For 2-1/8" Mesh Fabric, Deduct	-83.32	
32 31 13 13-0372 EA 7' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	1,228.69	48.57
For Gate With Single Barb Wire Arm, Add	119.06	
For Gate With Double Barb Wire Arm, Add	173.18	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-202.94	
For Aluminized Steel Gate And Post, Add	519.53	
For Powder Coated Gate And Post, Add	281.41	
For 1" Mesh Fabric, Add	470.82	
For 1-1/4" Mesh Fabric, Add	303.06	
For 1-3/4" Mesh Fabric, Add	188.33	
For 2-1/8" Mesh Fabric, Deduct	-94.16	
32 31 13 13-0373 EA 8' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	1,376.95	56.60
For Gate With Single Barb Wire Arm, Add	132.78	
For Gate With Double Barb Wire Arm, Add	193.13	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-226.33	
For Aluminized Steel Gate And Post, Add	579.40	
For Powder Coated Gate And Post, Add	313.84	
For 1" Mesh Fabric, Add	525.08	
For 1-1/4" Mesh Fabric, Add	337.98	
For 1-3/4" Mesh Fabric, Add	210.03	
For 2-1/8" Mesh Fabric, Deduct	-105.02	
32 31 13 13-0374 EA 9' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	1,524.74	64.28
For Gate With Single Barb Wire Arm, Add	146.50	
For Gate With Double Barb Wire Arm, Add	213.09	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-249.72	
For Aluminized Steel Gate And Post, Add	639.27	
For Powder Coated Gate And Post, Add	346.27	
For 1" Mesh Fabric, Add	579.34	
For 1-1/4" Mesh Fabric, Add	372.91	
For 1-3/4" Mesh Fabric, Add	231.74	
For 2-1/8" Mesh Fabric, Deduct	-115.87	
32 31 13 13-0375 EA 10' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	1,673.39	72.22
For Gate With Single Barb Wire Arm, Add	160.22	
For Gate With Double Barb Wire Arm, Add	233.05	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-273.11	
For Aluminized Steel Gate And Post, Add	699.15	
For Powder Coated Gate And Post, Add	378.71	
For 1" Mesh Fabric, Add	633.60	
For 1-1/4" Mesh Fabric, Add	407.84	
For 1-3/4" Mesh Fabric, Add	253.44	
For 2-1/8" Mesh Fabric, Deduct	-126.72	
32 31 13 13-0376 EA 10' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	2,441.76	85.59
For Gate With Single Barb Wire Arm, Add	240.33	
For Gate With Double Barb Wire Arm, Add	349.57	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-409.65	
For Aluminized Steel Gate And Post, Add	1,048.71	
For Powder Coated Gate And Post, Add	568.05	
For 1" Mesh Fabric, Add	950.40	
For 1-1/4" Mesh Fabric, Add	611.75	
For 1-3/4" Mesh Fabric, Add	380.16	
For 2-1/8" Mesh Fabric, Deduct	-190.08	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0377 EA 12' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	2,655.69	92.07
For Gate With Single Barb Wire Arm, Add	261.70	
For Gate With Double Barb Wire Arm, Add	380.65	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-446.08	
For Aluminized Steel Gate And Post, Add	1,141.96	
For Powder Coated Gate And Post, Add	618.56	
For 1" Mesh Fabric, Add	1,034.90	
For 1-1/4" Mesh Fabric, Add	666.14	
For 1-3/4" Mesh Fabric, Add	413.96	
For 2-1/8" Mesh Fabric, Deduct	-206.98	
32 31 13 13-0378 EA 14' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,028.38	99.86
For Gate With Single Barb Wire Arm, Add	300.15	
For Gate With Double Barb Wire Arm, Add	436.58	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-511.62	
For Aluminized Steel Gate And Post, Add	1,309.74	
For Powder Coated Gate And Post, Add	709.44	
For 1" Mesh Fabric, Add	1,186.95	
For 1-1/4" Mesh Fabric, Add	764.01	
For 1-3/4" Mesh Fabric, Add	474.78	
For 2-1/8" Mesh Fabric, Deduct	-237.39	
32 31 13 13-0379 EA 16' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,443.92	108.86
For Gate With Single Barb Wire Arm, Add	342.87	
For Gate With Double Barb Wire Arm, Add	498.73	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-584.45	
For Aluminized Steel Gate And Post, Add	1,496.18	
For Powder Coated Gate And Post, Add	810.43	
For 1" Mesh Fabric, Add	1,355.91	
For 1-1/4" Mesh Fabric, Add	872.77	
For 1-3/4" Mesh Fabric, Add	542.36	
For 2-1/8" Mesh Fabric, Deduct	-271.18	
32 31 13 13-0380 EA 18' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,865.17	119.78
For Gate With Single Barb Wire Arm, Add	385.60	
For Gate With Double Barb Wire Arm, Add	560.87	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-657.27	
For Aluminized Steel Gate And Post, Add	1,682.62	
For Powder Coated Gate And Post, Add	911.42	
For 1" Mesh Fabric, Add	1,524.87	
For 1-1/4" Mesh Fabric, Add	981.53	
For 1-3/4" Mesh Fabric, Add	609.95	
For 2-1/8" Mesh Fabric, Deduct	-304.97	
32 31 13 13-0381 EA 20' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	4,295.79	133.04
For Gate With Single Barb Wire Arm, Add	428.59	
For Gate With Double Barb Wire Arm, Add	623.41	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-730.56	
For Aluminized Steel Gate And Post, Add	1,870.22	
For Powder Coated Gate And Post, Add	1,013.04	
For 1" Mesh Fabric, Add	1,694.89	
For 1-1/4" Mesh Fabric, Add	1,090.96	
For 1-3/4" Mesh Fabric, Add	677.96	
For 2-1/8" Mesh Fabric, Deduct	-338.98	
32 31 13 13-0382 EA 22' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	4,736.79	149.73
For Gate With Single Barb Wire Arm, Add	471.59	
For Gate With Double Barb Wire Arm, Add	685.94	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-803.84	
For Aluminized Steel Gate And Post, Add	2,057.83	
For Powder Coated Gate And Post, Add	1,114.66	
For 1" Mesh Fabric, Add	1,864.91	
For 1-1/4" Mesh Fabric, Add	1,200.40	
For 1-3/4" Mesh Fabric, Add	745.96	
For 2-1/8" Mesh Fabric, Deduct	-372.98	
32 31 13 13-0383 EA 24' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	5,189.11	170.98
For Gate With Single Barb Wire Arm, Add	514.31	
For Gate With Double Barb Wire Arm, Add	748.09	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-876.67	
For Aluminized Steel Gate And Post, Add	2,244.27	
For Powder Coated Gate And Post, Add	1,215.65	
For 1" Mesh Fabric, Add	2,033.87	
For 1-1/4" Mesh Fabric, Add	1,309.16	
For 1-3/4" Mesh Fabric, Add	813.55	
For 2-1/8" Mesh Fabric, Deduct	-406.77	
32 31 13 13-0384 EA 26' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	5,663.50	199.61
For Gate With Single Barb Wire Arm, Add	557.04	
For Gate With Double Barb Wire Arm, Add	810.24	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-949.49	
For Aluminized Steel Gate And Post, Add	2,430.71	
For Powder Coated Gate And Post, Add	1,316.63	
For 1" Mesh Fabric, Add	2,202.83	
For 1-1/4" Mesh Fabric, Add	1,417.91	
For 1-3/4" Mesh Fabric, Add	881.13	
For 2-1/8" Mesh Fabric, Deduct	-440.57	



	Exterior Improvements	32
	Site Improvements	32 30
	Fences and Gates	32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13	13-0385	EA 28' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	6,171.19 599.76 872.38 -1,022.32 2,617.15 1,417.62 2,371.79 1,526.67 948.72 -474.36	239.37
32 31	13	13-0386	EA 30' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	6,744.95 643.02 935.31 -1,096.06 2,805.92 1,519.87 2,542.86 1,636.78 1,017.14 -508.57	299.47
32 31	13	13-0387	12' Fence Height (32 31 13 13-0266)		
32 31	13	13-0388	EA 3' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	785.23 74.78 108.77 -127.47 326.32 176.76 295.73 190.36 118.29 -59.15	35.09
32 31	13	13-0389	EA 4' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	1,011.84 99.71 145.03 -169.96 435.10 235.68 394.31 253.81 157.72 -78.86	35.09
32 31	13	13-0390	EA 5' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	1,175.38 117.27 170.58 -199.90 511.74 277.19 463.76 298.51 185.50 -92.75	36.37
32 31	13	13-0391	EA 6' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	1,361.51 134.84 196.12 -229.83 588.37 318.70 533.21 343.22 213.29 -106.64	45.16
32 31	13	13-0392	EA 7' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	1,420.17 28.38 41.28 -48.37 123.83 67.07 112.22 72.23 44.89 -22.44	54.04
32 31	13	13-0393	EA 8' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	1,475.51 31.65 46.03 -53.94 138.10 74.80 125.15 80.56 50.06 -25.03	62.57

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0394	EA	9' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	531.70	71.37
			<i>For Gate With Single Barb Wire Arm, Add</i>	34.92	
			<i>For Gate With Double Barb Wire Arm, Add</i>	50.79	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-59.52	
			<i>For Aluminized Steel Gate And Post, Add</i>	152.37	
			<i>For Powder Coated Gate And Post, Add</i>	82.53	
			<i>For 1" Mesh Fabric, Add</i>	138.08	
			<i>For 1-1/4" Mesh Fabric, Add</i>	88.88	
			<i>For 1-3/4" Mesh Fabric, Add</i>	55.23	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-27.62	
32 31 13	13-0395	EA	10' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	587.89	80.16
			<i>For Gate With Single Barb Wire Arm, Add</i>	38.19	
			<i>For Gate With Double Barb Wire Arm, Add</i>	55.55	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-65.09	
			<i>For Aluminized Steel Gate And Post, Add</i>	166.64	
			<i>For Powder Coated Gate And Post, Add</i>	90.26	
			<i>For 1" Mesh Fabric, Add</i>	151.01	
			<i>For 1-1/4" Mesh Fabric, Add</i>	97.20	
			<i>For 1-3/4" Mesh Fabric, Add</i>	60.41	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-30.20	
32 31 13	13-0396	EA	10' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	769.17	95.10
			<i>For Gate With Single Barb Wire Arm, Add</i>	53.20	
			<i>For Gate With Double Barb Wire Arm, Add</i>	77.39	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-90.69	
			<i>For Aluminized Steel Gate And Post, Add</i>	232.17	
			<i>For Powder Coated Gate And Post, Add</i>	125.76	
			<i>For 1" Mesh Fabric, Add</i>	210.40	
			<i>For 1-1/4" Mesh Fabric, Add</i>	135.43	
			<i>For 1-3/4" Mesh Fabric, Add</i>	84.16	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-42.08	
32 31 13	13-0397	EA	12' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	838.88	102.39
			<i>For Gate With Single Barb Wire Arm, Add</i>	58.48	
			<i>For Gate With Double Barb Wire Arm, Add</i>	85.06	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-99.68	
			<i>For Aluminized Steel Gate And Post, Add</i>	255.17	
			<i>For Powder Coated Gate And Post, Add</i>	138.22	
			<i>For 1" Mesh Fabric, Add</i>	231.25	
			<i>For 1-1/4" Mesh Fabric, Add</i>	148.85	
			<i>For 1-3/4" Mesh Fabric, Add</i>	92.50	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-46.25	
32 31 13	13-0398	EA	14' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	942.42	110.89
			<i>For Gate With Single Barb Wire Arm, Add</i>	67.03	
			<i>For Gate With Double Barb Wire Arm, Add</i>	97.50	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-114.25	
			<i>For Aluminized Steel Gate And Post, Add</i>	292.49	
			<i>For Powder Coated Gate And Post, Add</i>	158.43	
			<i>For 1" Mesh Fabric, Add</i>	265.07	
			<i>For 1-1/4" Mesh Fabric, Add</i>	170.62	
			<i>For 1-3/4" Mesh Fabric, Add</i>	106.03	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-53.01	
32 31 13	13-0399	EA	16' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,059.41	120.90
			<i>For Gate With Single Barb Wire Arm, Add</i>	76.58	
			<i>For Gate With Double Barb Wire Arm, Add</i>	111.38	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-130.53	
			<i>For Aluminized Steel Gate And Post, Add</i>	334.15	
			<i>For Powder Coated Gate And Post, Add</i>	181.00	
			<i>For 1" Mesh Fabric, Add</i>	302.82	
			<i>For 1-1/4" Mesh Fabric, Add</i>	194.92	
			<i>For 1-3/4" Mesh Fabric, Add</i>	121.13	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-60.56	
32 31 13	13-0400	EA	18' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	4,604.09	133.14
			<i>For Gate With Single Barb Wire Arm, Add</i>	462.51	
			<i>For Gate With Double Barb Wire Arm, Add</i>	672.74	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-788.36	
			<i>For Aluminized Steel Gate And Post, Add</i>	2,018.21	
			<i>For Powder Coated Gate And Post, Add</i>	1,093.20	
			<i>For 1" Mesh Fabric, Add</i>	1,829.00	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,177.29	
			<i>For 1-3/4" Mesh Fabric, Add</i>	731.60	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-365.80	
32 31 13	13-0401	EA	20' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	5,119.29	147.81
			<i>For Gate With Single Barb Wire Arm, Add</i>	514.31	
			<i>For Gate With Double Barb Wire Arm, Add</i>	748.09	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-876.67	
			<i>For Aluminized Steel Gate And Post, Add</i>	2,244.27	
			<i>For Powder Coated Gate And Post, Add</i>	1,215.65	
			<i>For 1" Mesh Fabric, Add</i>	2,033.87	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,309.16	
			<i>For 1-3/4" Mesh Fabric, Add</i>	813.55	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-406.77	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0402	EA	22' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	5,641.27 565.58 822.67 -964.06 2,468.00 1,336.83 2,236.62 1,439.66 894.65 -447.32	166.33
32 31	13 13-0403	EA	24' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	6,183.23 617.39 898.02 -1,052.36 2,694.05 1,459.28 2,441.49 1,571.53 976.59 -488.30	190.00
32 31	13 13-0404	EA	26' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	6,740.01 668.12 971.82 -1,138.85 2,915.45 1,579.20 2,642.13 1,700.68 1,056.85 -528.43	221.87
32 31	13 13-0405	EA	28' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	7,338.61 719.39 1,046.39 -1,226.24 3,139.18 1,700.39 2,844.88 1,831.19 1,137.95 -568.98	265.97
32 31	13 13-0406	EA	30' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	8,010.13 771.20 1,121.75 -1,314.55 3,365.24 1,822.84 3,049.75 1,963.05 1,219.90 -609.95	332.75
32 31	13 13-0407		Vinyl Coated Without Barb Wire Arm <small>(32 31 13 13-0265)</small> Note: Industrial swing gate. Includes posts (3" diameter posts for up to 6' wide gate, 4" diameter to 13' wide, 6-5/8" diameter for 18' wide, 8-5/8" diameter for over 18' wide), 2" diameter schedule pipe frame, offset hinges, cap and hardware (drop rod, center locking device, gate keeper, catch bolt and tension bands). Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.		
32 31	13 13-0408		4' Fence Height <small>(32 31 13 13-0407)</small>		
32 31	13 13-0409	EA	3' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	124.35 -11.31 26.24 16.89 10.50 -5.25 6.64 9.65	21.34
32 31	13 13-0410	EA	4' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	144.46 -15.08 34.99 22.52 14.00 -7.00 8.85 12.87	21.34
32 31	13 13-0411	EA	5' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	165.50 -18.23 42.28 27.22 16.91 -8.46 10.69 15.55	22.71

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0412 EA 6' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	195.90	27.31
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-21.37	
For 1" Mesh Fabric, Add	49.57	
For 1-1/4" Mesh Fabric, Add	31.91	
For 1-3/4" Mesh Fabric, Add	19.83	
For 2-1/8" Mesh Fabric, Deduct	-9.91	
For Gate With Single Barb Wire Arm, Add	12.53	
For Gate With Double Barb Wire Arm, Add	18.23	
32 31 13 13-0413 EA 7' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	226.32	31.84
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-24.51	
For 1" Mesh Fabric, Add	56.86	
For 1-1/4" Mesh Fabric, Add	36.60	
For 1-3/4" Mesh Fabric, Add	22.74	
For 2-1/8" Mesh Fabric, Deduct	-11.37	
For Gate With Single Barb Wire Arm, Add	14.38	
For Gate With Double Barb Wire Arm, Add	20.91	
32 31 13 13-0414 EA 8' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	256.73	36.37
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-27.65	
For 1" Mesh Fabric, Add	64.15	
For 1-1/4" Mesh Fabric, Add	41.29	
For 1-3/4" Mesh Fabric, Add	25.66	
For 2-1/8" Mesh Fabric, Deduct	-12.83	
For Gate With Single Barb Wire Arm, Add	16.22	
For Gate With Double Barb Wire Arm, Add	23.60	
32 31 13 13-0415 EA 9' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	287.15	40.97
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-30.79	
For 1" Mesh Fabric, Add	71.44	
For 1-1/4" Mesh Fabric, Add	45.98	
For 1-3/4" Mesh Fabric, Add	28.58	
For 2-1/8" Mesh Fabric, Deduct	-14.29	
For Gate With Single Barb Wire Arm, Add	18.07	
For Gate With Double Barb Wire Arm, Add	26.28	
32 31 13 13-0416 EA 10' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	317.56	45.50
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-33.93	
For 1" Mesh Fabric, Add	78.73	
For 1-1/4" Mesh Fabric, Add	50.67	
For 1-3/4" Mesh Fabric, Add	31.49	
For 2-1/8" Mesh Fabric, Deduct	-15.75	
For Gate With Single Barb Wire Arm, Add	19.91	
For Gate With Double Barb Wire Arm, Add	28.96	
32 31 13 13-0417 EA 10' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	377.89	45.50
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-45.25	
For 1" Mesh Fabric, Add	104.97	
For 1-1/4" Mesh Fabric, Add	67.57	
For 1-3/4" Mesh Fabric, Add	41.99	
For 2-1/8" Mesh Fabric, Deduct	-20.99	
For Gate With Single Barb Wire Arm, Add	26.54	
For Gate With Double Barb Wire Arm, Add	38.61	
32 31 13 13-0418 EA 12' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	435.91	48.74
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-54.29	
For 1" Mesh Fabric, Add	125.96	
For 1-1/4" Mesh Fabric, Add	81.08	
For 1-3/4" Mesh Fabric, Add	50.39	
For 2-1/8" Mesh Fabric, Deduct	-25.19	
For Gate With Single Barb Wire Arm, Add	31.85	
For Gate With Double Barb Wire Arm, Add	46.33	
32 31 13 13-0419 EA 14' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	495.42	52.50
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-63.34	
For 1" Mesh Fabric, Add	146.96	
For 1-1/4" Mesh Fabric, Add	94.59	
For 1-3/4" Mesh Fabric, Add	58.78	
For 2-1/8" Mesh Fabric, Deduct	-29.39	
For Gate With Single Barb Wire Arm, Add	37.16	
For Gate With Double Barb Wire Arm, Add	54.05	
32 31 13 13-0420 EA 16' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	556.83	56.86
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-72.39	
For 1" Mesh Fabric, Add	167.95	
For 1-1/4" Mesh Fabric, Add	108.11	
For 1-3/4" Mesh Fabric, Add	67.18	
For 2-1/8" Mesh Fabric, Deduct	-33.59	
For Gate With Single Barb Wire Arm, Add	42.47	
For Gate With Double Barb Wire Arm, Add	61.78	
32 31 13 13-0421 EA 18' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	650.19	71.83
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-81.44	
For 1" Mesh Fabric, Add	188.95	
For 1-1/4" Mesh Fabric, Add	121.62	
For 1-3/4" Mesh Fabric, Add	75.58	
For 2-1/8" Mesh Fabric, Deduct	-37.79	
For Gate With Single Barb Wire Arm, Add	47.78	
For Gate With Double Barb Wire Arm, Add	69.50	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0422 EA 20' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	713.87	76.99
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-90.49	
For 1" Mesh Fabric, Add	209.94	
For 1-1/4" Mesh Fabric, Add	135.13	
For 1-3/4" Mesh Fabric, Add	83.98	
For 2-1/8" Mesh Fabric, Deduct	-41.99	
For Gate With Single Barb Wire Arm, Add	53.09	
For Gate With Double Barb Wire Arm, Add	77.22	
32 31 13 13-0423 EA 22' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	779.91	82.96
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-99.54	
For 1" Mesh Fabric, Add	230.93	
For 1-1/4" Mesh Fabric, Add	148.65	
For 1-3/4" Mesh Fabric, Add	92.37	
For 2-1/8" Mesh Fabric, Deduct	-46.19	
For Gate With Single Barb Wire Arm, Add	58.40	
For Gate With Double Barb Wire Arm, Add	84.94	
32 31 13 13-0424 EA 24' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	848.94	89.84
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-108.59	
For 1" Mesh Fabric, Add	251.93	
For 1-1/4" Mesh Fabric, Add	162.16	
For 1-3/4" Mesh Fabric, Add	100.77	
For 2-1/8" Mesh Fabric, Deduct	-50.39	
For Gate With Single Barb Wire Arm, Add	63.71	
For Gate With Double Barb Wire Arm, Add	92.66	
32 31 13 13-0425 EA 26' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	921.73	98.03
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-117.64	
For 1" Mesh Fabric, Add	272.92	
For 1-1/4" Mesh Fabric, Add	175.67	
For 1-3/4" Mesh Fabric, Add	109.17	
For 2-1/8" Mesh Fabric, Deduct	-54.58	
For Gate With Single Barb Wire Arm, Add	69.02	
For Gate With Double Barb Wire Arm, Add	100.39	
32 31 13 13-0426 EA 28' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	999.42	107.84
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-126.69	
For 1" Mesh Fabric, Add	293.92	
For 1-1/4" Mesh Fabric, Add	189.19	
For 1-3/4" Mesh Fabric, Add	117.57	
For 2-1/8" Mesh Fabric, Deduct	-58.78	
For Gate With Single Barb Wire Arm, Add	74.32	
For Gate With Double Barb Wire Arm, Add	108.11	
32 31 13 13-0427 EA 30' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,083.65	119.78
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-135.74	
For 1" Mesh Fabric, Add	314.91	
For 1-1/4" Mesh Fabric, Add	202.70	
For 1-3/4" Mesh Fabric, Add	125.96	
For 2-1/8" Mesh Fabric, Deduct	-62.98	
For Gate With Single Barb Wire Arm, Add	79.63	
For Gate With Double Barb Wire Arm, Add	115.83	
32 31 13 13-0428 5' Fence Height (32 31 13 13-0407)		
32 31 13 13-0429 EA 3' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	143.05	22.71
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-14.02	
For 1" Mesh Fabric, Add	32.52	
For 1-1/4" Mesh Fabric, Add	20.93	
For 1-3/4" Mesh Fabric, Add	13.01	
For 2-1/8" Mesh Fabric, Deduct	-6.50	
For Gate With Single Barb Wire Arm, Add	8.22	
For Gate With Double Barb Wire Arm, Add	11.96	
32 31 13 13-0430 EA 4' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	167.97	22.71
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-18.69	
For 1" Mesh Fabric, Add	43.36	
For 1-1/4" Mesh Fabric, Add	27.91	
For 1-3/4" Mesh Fabric, Add	17.34	
For 2-1/8" Mesh Fabric, Deduct	-8.67	
For Gate With Single Barb Wire Arm, Add	10.96	
For Gate With Double Barb Wire Arm, Add	15.95	
32 31 13 13-0431 EA 5' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	190.93	24.16
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-22.19	
For 1" Mesh Fabric, Add	51.49	
For 1-1/4" Mesh Fabric, Add	33.14	
For 1-3/4" Mesh Fabric, Add	20.60	
For 2-1/8" Mesh Fabric, Deduct	-10.30	
For Gate With Single Barb Wire Arm, Add	13.02	
For Gate With Double Barb Wire Arm, Add	18.94	
32 31 13 13-0432 EA 6' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	224.12	29.02
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-25.70	
For 1" Mesh Fabric, Add	59.62	
For 1-1/4" Mesh Fabric, Add	38.37	
For 1-3/4" Mesh Fabric, Add	23.85	
For 2-1/8" Mesh Fabric, Deduct	-11.92	
For Gate With Single Barb Wire Arm, Add	15.08	
For Gate With Double Barb Wire Arm, Add	21.93	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0433 EA 7' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	257.33	33.81
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-29.20	
For 1" Mesh Fabric, Add	67.75	
For 1-1/4" Mesh Fabric, Add	43.61	
For 1-3/4" Mesh Fabric, Add	27.10	
For 2-1/8" Mesh Fabric, Deduct	-13.55	
For Gate With Single Barb Wire Arm, Add	17.13	
For Gate With Double Barb Wire Arm, Add	24.92	
32 31 13 13-0434 EA 8' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	291.38	38.92
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-32.71	
For 1" Mesh Fabric, Add	75.88	
For 1-1/4" Mesh Fabric, Add	48.84	
For 1-3/4" Mesh Fabric, Add	30.35	
For 2-1/8" Mesh Fabric, Deduct	-15.18	
For Gate With Single Barb Wire Arm, Add	19.19	
For Gate With Double Barb Wire Arm, Add	27.91	
32 31 13 13-0435 EA 9' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	324.58	43.80
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-36.21	
For 1" Mesh Fabric, Add	84.01	
For 1-1/4" Mesh Fabric, Add	54.07	
For 1-3/4" Mesh Fabric, Add	33.60	
For 2-1/8" Mesh Fabric, Deduct	-16.80	
For Gate With Single Barb Wire Arm, Add	21.24	
For Gate With Double Barb Wire Arm, Add	30.90	
32 31 13 13-0436 EA 10' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	357.77	48.57
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-39.71	
For 1" Mesh Fabric, Add	92.13	
For 1-1/4" Mesh Fabric, Add	59.30	
For 1-3/4" Mesh Fabric, Add	36.85	
For 2-1/8" Mesh Fabric, Deduct	-18.43	
For Gate With Single Barb Wire Arm, Add	23.30	
For Gate With Double Barb Wire Arm, Add	33.89	
32 31 13 13-0437 EA 10' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	445.36	48.74
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-56.07	
For 1" Mesh Fabric, Add	130.07	
For 1-1/4" Mesh Fabric, Add	83.73	
For 1-3/4" Mesh Fabric, Add	52.03	
For 2-1/8" Mesh Fabric, Deduct	-26.01	
For Gate With Single Barb Wire Arm, Add	32.89	
For Gate With Double Barb Wire Arm, Add	47.84	
32 31 13 13-0438 EA 12' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	516.41	52.50
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-67.28	
For 1" Mesh Fabric, Add	156.09	
For 1-1/4" Mesh Fabric, Add	100.47	
For 1-3/4" Mesh Fabric, Add	62.43	
For 2-1/8" Mesh Fabric, Deduct	-31.22	
For Gate With Single Barb Wire Arm, Add	39.47	
For Gate With Double Barb Wire Arm, Add	57.41	
32 31 13 13-0439 EA 14' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	589.35	56.86
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-78.49	
For 1" Mesh Fabric, Add	182.10	
For 1-1/4" Mesh Fabric, Add	117.21	
For 1-3/4" Mesh Fabric, Add	72.84	
For 2-1/8" Mesh Fabric, Deduct	-36.42	
For Gate With Single Barb Wire Arm, Add	46.05	
For Gate With Double Barb Wire Arm, Add	66.98	
32 31 13 13-0440 EA 16' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	694.26	71.83
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-89.71	
For 1" Mesh Fabric, Add	208.12	
For 1-1/4" Mesh Fabric, Add	133.96	
For 1-3/4" Mesh Fabric, Add	83.25	
For 2-1/8" Mesh Fabric, Deduct	-41.62	
For Gate With Single Barb Wire Arm, Add	52.63	
For Gate With Double Barb Wire Arm, Add	76.55	
32 31 13 13-0441 EA 18' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	769.48	76.99
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-100.92	
For 1" Mesh Fabric, Add	234.13	
For 1-1/4" Mesh Fabric, Add	150.70	
For 1-3/4" Mesh Fabric, Add	93.65	
For 2-1/8" Mesh Fabric, Deduct	-46.83	
For Gate With Single Barb Wire Arm, Add	59.21	
For Gate With Double Barb Wire Arm, Add	86.12	
32 31 13 13-0442 EA 20' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	847.06	82.96
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-112.13	
For 1" Mesh Fabric, Add	260.14	
For 1-1/4" Mesh Fabric, Add	167.45	
For 1-3/4" Mesh Fabric, Add	104.06	
For 2-1/8" Mesh Fabric, Deduct	-52.03	
For Gate With Single Barb Wire Arm, Add	65.78	
For Gate With Double Barb Wire Arm, Add	95.68	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0443	EA	22' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	927.63 -123.35 286.16 184.20 114.46 -57.23 72.36 105.25	89.84
32 31 13	13-0444	EA	24' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,011.96 -134.56 312.17 200.94 124.87 -62.43 78.94 114.82	98.03
32 31 13	13-0445	EA	26' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,101.19 -145.77 338.19 217.68 135.27 -67.64 85.52 124.39	107.84
32 31 13	13-0446	EA	28' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,196.97 -156.98 364.20 234.43 145.68 -72.84 92.10 133.96	119.78
32 31 13	13-0447	EA	30' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	1,301.74 -168.20 390.22 251.17 156.09 -78.04 98.68 143.53	134.76
32 31 13	13-0448		6' Fence Height <small>(32 31 13 13-0407)</small>		
32 31 13	13-0449	EA	3' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	153.06 -14.98 34.75 22.37 13.90 -6.95 8.79 12.78	24.33
32 31 13	13-0450	EA	4' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	179.69 -19.97 46.34 29.83 18.53 -9.27 11.72 17.04	24.33
32 31 13	13-0451	EA	5' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	204.18 -23.72 55.03 35.42 22.01 -11.01 13.92 20.24	25.86
32 31 13	13-0452	EA	6' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	240.37 -27.46 63.71 41.01 25.49 -12.74 16.11 23.44	31.25
32 31 13	13-0453	EA	7' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	276.56 -31.21 72.40 46.60 28.96 -14.48 18.31 26.63	36.71

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0454 EA 8' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	311.89	41.83
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-34.95	
For 1" Mesh Fabric, Add	81.09	
For 1-1/4" Mesh Fabric, Add	52.19	
For 1-3/4" Mesh Fabric, Add	32.44	
For 2-1/8" Mesh Fabric, Deduct	-16.22	
For Gate With Single Barb Wire Arm, Add	20.51	
For Gate With Double Barb Wire Arm, Add	29.83	
32 31 13 13-0455 EA 9' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	348.10	47.21
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-38.70	
For 1" Mesh Fabric, Add	89.78	
For 1-1/4" Mesh Fabric, Add	57.79	
For 1-3/4" Mesh Fabric, Add	35.91	
For 2-1/8" Mesh Fabric, Deduct	-17.96	
For Gate With Single Barb Wire Arm, Add	22.70	
For Gate With Double Barb Wire Arm, Add	33.02	
32 31 13 13-0456 EA 10' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	384.29	52.58
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-42.44	
For 1" Mesh Fabric, Add	98.47	
For 1-1/4" Mesh Fabric, Add	63.38	
For 1-3/4" Mesh Fabric, Add	39.39	
For 2-1/8" Mesh Fabric, Deduct	-19.69	
For Gate With Single Barb Wire Arm, Add	24.90	
For Gate With Double Barb Wire Arm, Add	36.22	
32 31 13 13-0457 EA 10' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	477.15	52.50
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-59.92	
For 1" Mesh Fabric, Add	139.01	
For 1-1/4" Mesh Fabric, Add	89.48	
For 1-3/4" Mesh Fabric, Add	55.60	
For 2-1/8" Mesh Fabric, Deduct	-27.80	
For Gate With Single Barb Wire Arm, Add	35.15	
For Gate With Double Barb Wire Arm, Add	51.13	
32 31 13 13-0458 EA 12' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	554.21	56.86
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-71.90	
For 1" Mesh Fabric, Add	166.81	
For 1-1/4" Mesh Fabric, Add	107.37	
For 1-3/4" Mesh Fabric, Add	66.73	
For 2-1/8" Mesh Fabric, Deduct	-33.36	
For Gate With Single Barb Wire Arm, Add	42.18	
For Gate With Double Barb Wire Arm, Add	61.36	
32 31 13 13-0459 EA 14' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	678.64	76.99
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-83.89	
For 1" Mesh Fabric, Add	194.61	
For 1-1/4" Mesh Fabric, Add	125.27	
For 1-3/4" Mesh Fabric, Add	77.85	
For 2-1/8" Mesh Fabric, Deduct	-38.92	
For Gate With Single Barb Wire Arm, Add	49.21	
For Gate With Double Barb Wire Arm, Add	71.58	
32 31 13 13-0460 EA 16' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	760.33	82.96
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-95.87	
For 1" Mesh Fabric, Add	222.42	
For 1-1/4" Mesh Fabric, Add	143.16	
For 1-3/4" Mesh Fabric, Add	88.97	
For 2-1/8" Mesh Fabric, Deduct	-44.48	
For Gate With Single Barb Wire Arm, Add	56.24	
For Gate With Double Barb Wire Arm, Add	81.81	
32 31 13 13-0461 EA 18' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	845.00	89.84
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-107.85	
For 1" Mesh Fabric, Add	250.22	
For 1-1/4" Mesh Fabric, Add	161.06	
For 1-3/4" Mesh Fabric, Add	100.09	
For 2-1/8" Mesh Fabric, Deduct	-50.04	
For Gate With Single Barb Wire Arm, Add	63.27	
For Gate With Double Barb Wire Arm, Add	92.03	
32 31 13 13-0462 EA 20' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	945.26	98.03
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-122.05	
For 1" Mesh Fabric, Add	283.16	
For 1-1/4" Mesh Fabric, Add	182.26	
For 1-3/4" Mesh Fabric, Add	113.26	
For 2-1/8" Mesh Fabric, Deduct	-56.63	
For Gate With Single Barb Wire Arm, Add	71.60	
For Gate With Double Barb Wire Arm, Add	104.15	
32 31 13 13-0463 EA 22' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,028.93	107.84
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-132.22	
For 1" Mesh Fabric, Add	306.75	
For 1-1/4" Mesh Fabric, Add	197.45	
For 1-3/4" Mesh Fabric, Add	122.70	
For 2-1/8" Mesh Fabric, Deduct	-61.35	
For Gate With Single Barb Wire Arm, Add	77.57	
For Gate With Double Barb Wire Arm, Add	112.83	



	Exterior Improvements	32
	Site Improvements	32 30
	Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0464 EA 24' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,126.67	119.78
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-143.80	
For 1" Mesh Fabric, Add	333.62	
For 1-1/4" Mesh Fabric, Add	214.75	
For 1-3/4" Mesh Fabric, Add	133.45	
For 2-1/8" Mesh Fabric, Deduct	-66.72	
For Gate With Single Barb Wire Arm, Add	84.36	
For Gate With Double Barb Wire Arm, Add	122.71	
32 31 13 13-0465 EA 26' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,235.55	134.76
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-155.79	
For 1" Mesh Fabric, Add	361.42	
For 1-1/4" Mesh Fabric, Add	232.64	
For 1-3/4" Mesh Fabric, Add	144.57	
For 2-1/8" Mesh Fabric, Deduct	-72.28	
For Gate With Single Barb Wire Arm, Add	91.39	
For Gate With Double Barb Wire Arm, Add	132.94	
32 31 13 13-0466 EA 28' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,357.28	153.98
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-167.77	
For 1" Mesh Fabric, Add	389.23	
For 1-1/4" Mesh Fabric, Add	250.54	
For 1-3/4" Mesh Fabric, Add	155.69	
For 2-1/8" Mesh Fabric, Deduct	-77.85	
For Gate With Single Barb Wire Arm, Add	98.43	
For Gate With Double Barb Wire Arm, Add	143.16	
32 31 13 13-0467 EA 30' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,498.26	179.68
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-179.75	
For 1" Mesh Fabric, Add	417.03	
For 1-1/4" Mesh Fabric, Add	268.43	
For 1-3/4" Mesh Fabric, Add	166.81	
For 2-1/8" Mesh Fabric, Deduct	-83.41	
For Gate With Single Barb Wire Arm, Add	105.46	
For Gate With Double Barb Wire Arm, Add	153.39	
32 31 13 13-0468 7' Fence Height (32 31 13 13-0407)		
32 31 13 13-0469 EA 3' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm	162.71	26.21
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-15.73	
For 1" Mesh Fabric, Add	36.50	
For 1-1/4" Mesh Fabric, Add	23.49	
For 1-3/4" Mesh Fabric, Add	14.60	
For 2-1/8" Mesh Fabric, Deduct	-7.30	
For Gate With Single Barb Wire Arm, Add	9.23	
For Gate With Double Barb Wire Arm, Add	13.43	
32 31 13 13-0470 EA 4' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm	190.69	26.21
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-20.98	
For 1" Mesh Fabric, Add	48.67	
For 1-1/4" Mesh Fabric, Add	31.33	
For 1-3/4" Mesh Fabric, Add	19.47	
For 2-1/8" Mesh Fabric, Deduct	-9.73	
For Gate With Single Barb Wire Arm, Add	12.31	
For Gate With Double Barb Wire Arm, Add	17.90	
32 31 13 13-0471 EA 5' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm	215.67	27.57
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-24.91	
For 1" Mesh Fabric, Add	57.80	
For 1-1/4" Mesh Fabric, Add	37.20	
For 1-3/4" Mesh Fabric, Add	23.12	
For 2-1/8" Mesh Fabric, Deduct	-11.56	
For Gate With Single Barb Wire Arm, Add	14.62	
For Gate With Double Barb Wire Arm, Add	21.26	
32 31 13 13-0472 EA 6' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm	254.57	33.55
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-28.85	
For 1" Mesh Fabric, Add	66.92	
For 1-1/4" Mesh Fabric, Add	43.08	
For 1-3/4" Mesh Fabric, Add	26.77	
For 2-1/8" Mesh Fabric, Deduct	-13.38	
For Gate With Single Barb Wire Arm, Add	16.92	
For Gate With Double Barb Wire Arm, Add	24.61	
32 31 13 13-0473 EA 7' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm	292.63	39.27
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-32.78	
For 1" Mesh Fabric, Add	76.05	
For 1-1/4" Mesh Fabric, Add	48.95	
For 1-3/4" Mesh Fabric, Add	30.42	
For 2-1/8" Mesh Fabric, Deduct	-15.21	
For Gate With Single Barb Wire Arm, Add	19.23	
For Gate With Double Barb Wire Arm, Add	27.97	
32 31 13 13-0474 EA 8' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm	331.54	45.16
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-36.71	
For 1" Mesh Fabric, Add	85.18	
For 1-1/4" Mesh Fabric, Add	54.83	
For 1-3/4" Mesh Fabric, Add	34.07	
For 2-1/8" Mesh Fabric, Deduct	-17.04	
For Gate With Single Barb Wire Arm, Add	21.54	
For Gate With Double Barb Wire Arm, Add	31.33	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0475 EA 9' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	369.58	50.88
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-40.65	
For 1" Mesh Fabric, Add	94.30	
For 1-1/4" Mesh Fabric, Add	60.70	
For 1-3/4" Mesh Fabric, Add	37.72	
For 2-1/8" Mesh Fabric, Deduct	-18.86	
For Gate With Single Barb Wire Arm, Add	23.85	
For Gate With Double Barb Wire Arm, Add	34.68	
32 31 13 13-0476 EA 10' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	408.50	56.86
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-44.58	
For 1" Mesh Fabric, Add	103.43	
For 1-1/4" Mesh Fabric, Add	66.58	
For 1-3/4" Mesh Fabric, Add	41.37	
For 2-1/8" Mesh Fabric, Deduct	-20.69	
For Gate With Single Barb Wire Arm, Add	26.15	
For Gate With Double Barb Wire Arm, Add	38.04	
32 31 13 13-0477 EA 10' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	506.39	56.86
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-62.94	
For 1" Mesh Fabric, Add	146.01	
For 1-1/4" Mesh Fabric, Add	93.98	
For 1-3/4" Mesh Fabric, Add	58.40	
For 2-1/8" Mesh Fabric, Deduct	-29.20	
For Gate With Single Barb Wire Arm, Add	36.92	
For Gate With Double Barb Wire Arm, Add	53.71	
32 31 13 13-0478 EA 12' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	634.03	76.99
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-75.52	
For 1" Mesh Fabric, Add	175.21	
For 1-1/4" Mesh Fabric, Add	112.78	
For 1-3/4" Mesh Fabric, Add	70.08	
For 2-1/8" Mesh Fabric, Deduct	-35.04	
For Gate With Single Barb Wire Arm, Add	44.31	
For Gate With Double Barb Wire Arm, Add	64.44	
32 31 13 13-0479 EA 14' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	718.95	82.96
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-88.11	
For 1" Mesh Fabric, Add	204.42	
For 1-1/4" Mesh Fabric, Add	131.58	
For 1-3/4" Mesh Fabric, Add	81.77	
For 2-1/8" Mesh Fabric, Deduct	-40.88	
For Gate With Single Barb Wire Arm, Add	51.69	
For Gate With Double Barb Wire Arm, Add	75.19	
32 31 13 13-0480 EA 16' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	806.84	89.84
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-100.70	
For 1" Mesh Fabric, Add	233.62	
For 1-1/4" Mesh Fabric, Add	150.37	
For 1-3/4" Mesh Fabric, Add	93.45	
For 2-1/8" Mesh Fabric, Deduct	-46.72	
For Gate With Single Barb Wire Arm, Add	59.08	
For Gate With Double Barb Wire Arm, Add	85.93	
32 31 13 13-0481 EA 18' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	898.51	98.03
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-113.29	
For 1" Mesh Fabric, Add	262.82	
For 1-1/4" Mesh Fabric, Add	169.17	
For 1-3/4" Mesh Fabric, Add	105.13	
For 2-1/8" Mesh Fabric, Deduct	-52.56	
For Gate With Single Barb Wire Arm, Add	66.46	
For Gate With Double Barb Wire Arm, Add	96.67	
32 31 13 13-0482 EA 20' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	995.06	107.84
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-125.87	
For 1" Mesh Fabric, Add	292.02	
For 1-1/4" Mesh Fabric, Add	187.97	
For 1-3/4" Mesh Fabric, Add	116.81	
For 2-1/8" Mesh Fabric, Deduct	-58.40	
For Gate With Single Barb Wire Arm, Add	73.84	
For Gate With Double Barb Wire Arm, Add	107.41	
32 31 13 13-0483 EA 22' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,098.15	119.78
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-138.46	
For 1" Mesh Fabric, Add	321.22	
For 1-1/4" Mesh Fabric, Add	206.76	
For 1-3/4" Mesh Fabric, Add	128.49	
For 2-1/8" Mesh Fabric, Deduct	-64.24	
For Gate With Single Barb Wire Arm, Add	81.23	
For Gate With Double Barb Wire Arm, Add	118.15	
32 31 13 13-0484 EA 24' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,210.26	134.76
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-151.04	
For 1" Mesh Fabric, Add	350.42	
For 1-1/4" Mesh Fabric, Add	225.56	
For 1-3/4" Mesh Fabric, Add	140.17	
For 2-1/8" Mesh Fabric, Deduct	-70.08	
For Gate With Single Barb Wire Arm, Add	88.61	
For Gate With Double Barb Wire Arm, Add	128.89	



	Exterior Improvements	32
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0485 EA 26' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,335.21	153.98
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-163.63	
For 1" Mesh Fabric, Add	379.63	
For 1-1/4" Mesh Fabric, Add	244.36	
For 1-3/4" Mesh Fabric, Add	151.85	
For 2-1/8" Mesh Fabric, Deduct	-75.93	
For Gate With Single Barb Wire Arm, Add	96.00	
For Gate With Double Barb Wire Arm, Add	139.63	
32 31 13 13-0486 EA 28' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,479.40	179.68
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-176.22	
For 1" Mesh Fabric, Add	408.83	
For 1-1/4" Mesh Fabric, Add	263.15	
For 1-3/4" Mesh Fabric, Add	163.53	
For 2-1/8" Mesh Fabric, Deduct	-81.77	
For Gate With Single Barb Wire Arm, Add	103.38	
For Gate With Double Barb Wire Arm, Add	150.37	
32 31 13 13-0487 EA 30' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,654.46	215.60
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-188.81	
For 1" Mesh Fabric, Add	438.03	
For 1-1/4" Mesh Fabric, Add	281.95	
For 1-3/4" Mesh Fabric, Add	175.21	
For 2-1/8" Mesh Fabric, Deduct	-87.61	
For Gate With Single Barb Wire Arm, Add	110.77	
For Gate With Double Barb Wire Arm, Add	161.12	
32 31 13 13-0488 8' Fence Height (32 31 13 13-0407)		
32 31 13 13-0489 EA 3' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm	187.07	28.42
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-19.07	
For 1" Mesh Fabric, Add	44.24	
For 1-1/4" Mesh Fabric, Add	28.48	
For 1-3/4" Mesh Fabric, Add	17.70	
For 2-1/8" Mesh Fabric, Deduct	-8.85	
For Gate With Single Barb Wire Arm, Add	11.19	
For Gate With Double Barb Wire Arm, Add	16.27	
32 31 13 13-0490 EA 4' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm	220.97	28.42
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-25.43	
For 1" Mesh Fabric, Add	58.99	
For 1-1/4" Mesh Fabric, Add	37.97	
For 1-3/4" Mesh Fabric, Add	23.60	
For 2-1/8" Mesh Fabric, Deduct	-11.80	
For Gate With Single Barb Wire Arm, Add	14.92	
For Gate With Double Barb Wire Arm, Add	21.70	
32 31 13 13-0491 EA 5' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm	243.57	28.42
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-29.66	
For 1" Mesh Fabric, Add	68.82	
For 1-1/4" Mesh Fabric, Add	44.30	
For 1-3/4" Mesh Fabric, Add	27.53	
For 2-1/8" Mesh Fabric, Deduct	-13.76	
For Gate With Single Barb Wire Arm, Add	17.40	
For Gate With Double Barb Wire Arm, Add	25.31	
32 31 13 13-0492 EA 6' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm	288.38	35.85
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-33.90	
For 1" Mesh Fabric, Add	78.66	
For 1-1/4" Mesh Fabric, Add	50.63	
For 1-3/4" Mesh Fabric, Add	31.46	
For 2-1/8" Mesh Fabric, Deduct	-15.73	
For Gate With Single Barb Wire Arm, Add	19.89	
For Gate With Double Barb Wire Arm, Add	28.93	
32 31 13 13-0493 EA 7' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm	333.18	43.20
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-38.14	
For 1" Mesh Fabric, Add	88.49	
For 1-1/4" Mesh Fabric, Add	56.96	
For 1-3/4" Mesh Fabric, Add	35.40	
For 2-1/8" Mesh Fabric, Deduct	-17.70	
For Gate With Single Barb Wire Arm, Add	22.38	
For Gate With Double Barb Wire Arm, Add	32.55	
32 31 13 13-0494 EA 8' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm	377.12	50.28
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-42.38	
For 1" Mesh Fabric, Add	98.32	
For 1-1/4" Mesh Fabric, Add	63.29	
For 1-3/4" Mesh Fabric, Add	39.33	
For 2-1/8" Mesh Fabric, Deduct	-19.66	
For Gate With Single Barb Wire Arm, Add	24.86	
For Gate With Double Barb Wire Arm, Add	36.16	
32 31 13 13-0495 EA 9' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm	421.92	57.71
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-46.62	
For 1" Mesh Fabric, Add	108.15	
For 1-1/4" Mesh Fabric, Add	69.61	
For 1-3/4" Mesh Fabric, Add	43.26	
For 2-1/8" Mesh Fabric, Deduct	-21.63	
For Gate With Single Barb Wire Arm, Add	27.35	
For Gate With Double Barb Wire Arm, Add	39.78	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0496	EA	10' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	466.70	65.13
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-50.85	
		<i>For 1" Mesh Fabric, Add</i>	117.98	
		<i>For 1-1/4" Mesh Fabric, Add</i>	75.94	
		<i>For 1-3/4" Mesh Fabric, Add</i>	47.19	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-23.60	
		<i>For Gate With Single Barb Wire Arm, Add</i>	29.83	
		<i>For Gate With Double Barb Wire Arm, Add</i>	43.40	
32 31 13 13-0497	EA	10' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	638.08	76.99
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-76.28	
		<i>For 1" Mesh Fabric, Add</i>	176.97	
		<i>For 1-1/4" Mesh Fabric, Add</i>	113.91	
		<i>For 1-3/4" Mesh Fabric, Add</i>	70.79	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-35.39	
		<i>For Gate With Single Barb Wire Arm, Add</i>	44.75	
		<i>For Gate With Double Barb Wire Arm, Add</i>	65.09	
32 31 13 13-0498	EA	12' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	737.23	82.96
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-91.54	
		<i>For 1" Mesh Fabric, Add</i>	212.37	
		<i>For 1-1/4" Mesh Fabric, Add</i>	136.70	
		<i>For 1-3/4" Mesh Fabric, Add</i>	84.95	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-42.47	
		<i>For Gate With Single Barb Wire Arm, Add</i>	53.70	
		<i>For Gate With Double Barb Wire Arm, Add</i>	78.11	
32 31 13 13-0499	EA	14' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	839.35	89.84
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-106.79	
		<i>For 1" Mesh Fabric, Add</i>	247.76	
		<i>For 1-1/4" Mesh Fabric, Add</i>	159.48	
		<i>For 1-3/4" Mesh Fabric, Add</i>	99.10	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-49.55	
		<i>For Gate With Single Barb Wire Arm, Add</i>	62.65	
		<i>For Gate With Double Barb Wire Arm, Add</i>	91.13	
32 31 13 13-0500	EA	16' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	945.25	98.03
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-122.05	
		<i>For 1" Mesh Fabric, Add</i>	283.15	
		<i>For 1-1/4" Mesh Fabric, Add</i>	182.26	
		<i>For 1-3/4" Mesh Fabric, Add</i>	113.26	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-56.63	
		<i>For Gate With Single Barb Wire Arm, Add</i>	71.60	
		<i>For Gate With Double Barb Wire Arm, Add</i>	104.15	
32 31 13 13-0501	EA	18' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,056.05	107.84
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-137.31	
		<i>For 1" Mesh Fabric, Add</i>	318.55	
		<i>For 1-1/4" Mesh Fabric, Add</i>	205.04	
		<i>For 1-3/4" Mesh Fabric, Add</i>	127.42	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-63.71	
		<i>For Gate With Single Barb Wire Arm, Add</i>	80.55	
		<i>For Gate With Double Barb Wire Arm, Add</i>	117.17	
32 31 13 13-0502	EA	20' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,173.38	119.78
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-152.56	
		<i>For 1" Mesh Fabric, Add</i>	353.94	
		<i>For 1-1/4" Mesh Fabric, Add</i>	227.82	
		<i>For 1-3/4" Mesh Fabric, Add</i>	141.58	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-70.79	
		<i>For Gate With Single Barb Wire Arm, Add</i>	89.50	
		<i>For Gate With Double Barb Wire Arm, Add</i>	130.19	
32 31 13 13-0503	EA	22' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,299.72	134.76
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-167.82	
		<i>For 1" Mesh Fabric, Add</i>	389.34	
		<i>For 1-1/4" Mesh Fabric, Add</i>	250.61	
		<i>For 1-3/4" Mesh Fabric, Add</i>	155.74	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-77.87	
		<i>For Gate With Single Barb Wire Arm, Add</i>	98.45	
		<i>For Gate With Double Barb Wire Arm, Add</i>	143.20	
32 31 13 13-0504	EA	24' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,438.89	153.98
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-183.07	
		<i>For 1" Mesh Fabric, Add</i>	424.73	
		<i>For 1-1/4" Mesh Fabric, Add</i>	273.39	
		<i>For 1-3/4" Mesh Fabric, Add</i>	169.89	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-84.95	
		<i>For Gate With Single Barb Wire Arm, Add</i>	107.40	
		<i>For Gate With Double Barb Wire Arm, Add</i>	156.22	
32 31 13 13-0505	EA	26' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,597.33	179.68
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-198.33	
		<i>For 1" Mesh Fabric, Add</i>	460.13	
		<i>For 1-1/4" Mesh Fabric, Add</i>	296.17	
		<i>For 1-3/4" Mesh Fabric, Add</i>	184.05	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-92.03	
		<i>For Gate With Single Barb Wire Arm, Add</i>	116.35	
		<i>For Gate With Double Barb Wire Arm, Add</i>	169.24	



		Exterior Improvements	32
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0506 EA 28' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,786.62	215.60
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-213.59	
For 1" Mesh Fabric, Add	495.52	
For 1-1/4" Mesh Fabric, Add	318.96	
For 1-3/4" Mesh Fabric, Add	198.21	
For 2-1/8" Mesh Fabric, Deduct	-99.10	
For Gate With Single Barb Wire Arm, Add	125.30	
For Gate With Double Barb Wire Arm, Add	182.26	
32 31 13 13-0507 EA 30' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,029.85	269.52
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-228.84	
For 1" Mesh Fabric, Add	530.91	
For 1-1/4" Mesh Fabric, Add	341.74	
For 1-3/4" Mesh Fabric, Add	212.37	
For 2-1/8" Mesh Fabric, Deduct	-106.18	
For Gate With Single Barb Wire Arm, Add	134.25	
For Gate With Double Barb Wire Arm, Add	195.28	
32 31 13 13-0508 10' Fence Height (32 31 13 13-0407)		
32 31 13 13-0509 EA 3' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm	212.83	31.59
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-22.12	
For 1" Mesh Fabric, Add	51.32	
For 1-1/4" Mesh Fabric, Add	33.03	
For 1-3/4" Mesh Fabric, Add	20.53	
For 2-1/8" Mesh Fabric, Deduct	-10.26	
For Gate With Single Barb Wire Arm, Add	12.98	
For Gate With Double Barb Wire Arm, Add	18.88	
32 31 13 13-0510 EA 4' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm	252.16	31.59
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-29.50	
For 1" Mesh Fabric, Add	68.43	
For 1-1/4" Mesh Fabric, Add	44.05	
For 1-3/4" Mesh Fabric, Add	27.37	
For 2-1/8" Mesh Fabric, Deduct	-13.69	
For Gate With Single Barb Wire Arm, Add	17.30	
For Gate With Double Barb Wire Arm, Add	25.17	
32 31 13 13-0511 EA 5' Wide x 10' High Gate Single Vinyl Coated Without Barbed Wire Arm	282.56	32.95
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-34.41	
For 1" Mesh Fabric, Add	79.84	
For 1-1/4" Mesh Fabric, Add	51.39	
For 1-3/4" Mesh Fabric, Add	31.94	
For 2-1/8" Mesh Fabric, Deduct	-15.97	
For Gate With Single Barb Wire Arm, Add	20.19	
For Gate With Double Barb Wire Arm, Add	29.37	
32 31 13 13-0512 EA 6' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm	332.67	40.97
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-39.33	
For 1" Mesh Fabric, Add	91.24	
For 1-1/4" Mesh Fabric, Add	58.73	
For 1-3/4" Mesh Fabric, Add	36.50	
For 2-1/8" Mesh Fabric, Deduct	-18.25	
For Gate With Single Barb Wire Arm, Add	23.07	
For Gate With Double Barb Wire Arm, Add	33.56	
32 31 13 13-0513 EA 7' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm	381.94	48.57
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-44.24	
For 1" Mesh Fabric, Add	102.65	
For 1-1/4" Mesh Fabric, Add	66.07	
For 1-3/4" Mesh Fabric, Add	41.06	
For 2-1/8" Mesh Fabric, Deduct	-20.53	
For Gate With Single Barb Wire Arm, Add	25.96	
For Gate With Double Barb Wire Arm, Add	37.76	
32 31 13 13-0514 EA 8' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm	432.07	56.60
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-49.16	
For 1" Mesh Fabric, Add	114.06	
For 1-1/4" Mesh Fabric, Add	73.42	
For 1-3/4" Mesh Fabric, Add	45.62	
For 2-1/8" Mesh Fabric, Deduct	-22.81	
For Gate With Single Barb Wire Arm, Add	28.84	
For Gate With Double Barb Wire Arm, Add	41.95	
32 31 13 13-0515 EA 9' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm	481.34	64.28
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-54.08	
For 1" Mesh Fabric, Add	125.46	
For 1-1/4" Mesh Fabric, Add	80.76	
For 1-3/4" Mesh Fabric, Add	50.19	
For 2-1/8" Mesh Fabric, Deduct	-25.09	
For Gate With Single Barb Wire Arm, Add	31.73	
For Gate With Double Barb Wire Arm, Add	46.15	
32 31 13 13-0516 EA 10' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm	531.46	72.22
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-58.99	
For 1" Mesh Fabric, Add	136.86	
For 1-1/4" Mesh Fabric, Add	88.10	
For 1-3/4" Mesh Fabric, Add	54.75	
For 2-1/8" Mesh Fabric, Deduct	-27.37	
For Gate With Single Barb Wire Arm, Add	34.61	
For Gate With Double Barb Wire Arm, Add	50.34	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0517	EA 10' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	728.88	85.59
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-88.49	
		For 1" Mesh Fabric, Add	205.29	
		For 1-1/4" Mesh Fabric, Add	132.14	
		For 1-3/4" Mesh Fabric, Add	82.12	
		For 2-1/8" Mesh Fabric, Deduct	-41.06	
		For Gate With Single Barb Wire Arm, Add	51.91	
		For Gate With Double Barb Wire Arm, Add	75.51	
32 31 13	13-0518	EA 12' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	842.94	92.07
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-106.19	
		For 1" Mesh Fabric, Add	246.35	
		For 1-1/4" Mesh Fabric, Add	158.57	
		For 1-3/4" Mesh Fabric, Add	98.54	
		For 2-1/8" Mesh Fabric, Deduct	-49.27	
		For Gate With Single Barb Wire Arm, Add	62.30	
		For Gate With Double Barb Wire Arm, Add	90.61	
32 31 13	13-0519	EA 14' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	960.48	99.86
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-123.89	
		For 1" Mesh Fabric, Add	287.41	
		For 1-1/4" Mesh Fabric, Add	185.00	
		For 1-3/4" Mesh Fabric, Add	114.97	
		For 2-1/8" Mesh Fabric, Deduct	-57.48	
		For Gate With Single Barb Wire Arm, Add	72.68	
		For Gate With Double Barb Wire Arm, Add	105.72	
32 31 13	13-0520	EA 16' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,081.99	108.86
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-141.58	
		For 1" Mesh Fabric, Add	328.47	
		For 1-1/4" Mesh Fabric, Add	211.43	
		For 1-3/4" Mesh Fabric, Add	131.39	
		For 2-1/8" Mesh Fabric, Deduct	-65.69	
		For Gate With Single Barb Wire Arm, Add	83.06	
		For Gate With Double Barb Wire Arm, Add	120.82	
32 31 13	13-0521	EA 18' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,209.22	119.78
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-159.28	
		For 1" Mesh Fabric, Add	369.53	
		For 1-1/4" Mesh Fabric, Add	237.86	
		For 1-3/4" Mesh Fabric, Add	147.81	
		For 2-1/8" Mesh Fabric, Deduct	-73.91	
		For Gate With Single Barb Wire Arm, Add	93.45	
		For Gate With Double Barb Wire Arm, Add	135.92	
32 31 13	13-0522	EA 20' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,343.38	133.04
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-176.98	
		For 1" Mesh Fabric, Add	410.59	
		For 1-1/4" Mesh Fabric, Add	264.29	
		For 1-3/4" Mesh Fabric, Add	164.24	
		For 2-1/8" Mesh Fabric, Deduct	-82.12	
		For Gate With Single Barb Wire Arm, Add	103.83	
		For Gate With Double Barb Wire Arm, Add	151.02	
32 31 13	13-0523	EA 22' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,487.93	149.73
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-194.68	
		For 1" Mesh Fabric, Add	451.65	
		For 1-1/4" Mesh Fabric, Add	290.72	
		For 1-3/4" Mesh Fabric, Add	180.66	
		For 2-1/8" Mesh Fabric, Deduct	-90.33	
		For Gate With Single Barb Wire Arm, Add	114.21	
		For Gate With Double Barb Wire Arm, Add	166.12	
32 31 13	13-0524	EA 24' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,646.22	170.98
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-212.38	
		For 1" Mesh Fabric, Add	492.71	
		For 1-1/4" Mesh Fabric, Add	317.15	
		For 1-3/4" Mesh Fabric, Add	197.08	
		For 2-1/8" Mesh Fabric, Deduct	-98.54	
		For Gate With Single Barb Wire Arm, Add	124.59	
		For Gate With Double Barb Wire Arm, Add	181.23	
32 31 13	13-0525	EA 26' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,826.58	199.61
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-230.07	
		For 1" Mesh Fabric, Add	533.77	
		For 1-1/4" Mesh Fabric, Add	343.57	
		For 1-3/4" Mesh Fabric, Add	213.51	
		For 2-1/8" Mesh Fabric, Deduct	-106.75	
		For Gate With Single Barb Wire Arm, Add	134.98	
		For Gate With Double Barb Wire Arm, Add	196.33	
32 31 13	13-0526	EA 28' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,040.24	239.37
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-247.77	
		For 1" Mesh Fabric, Add	574.83	
		For 1-1/4" Mesh Fabric, Add	370.00	
		For 1-3/4" Mesh Fabric, Add	229.93	
		For 2-1/8" Mesh Fabric, Deduct	-114.97	
		For Gate With Single Barb Wire Arm, Add	145.36	
		For Gate With Double Barb Wire Arm, Add	211.43	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0527	EA	30' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	2,315.12 -265.47 615.89 396.43 246.35 -123.18 155.74 226.53	299.47
32 31	13 13-0528		12' Fence Height (22 31 13 13-0407)		
32 31	13 13-0529	EA	3' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	269.93 -30.85 71.57 46.07 28.63 -14.31 18.10 26.33	35.09
32 31	13 13-0530	EA	4' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	324.63 -41.11 95.37 61.39 38.15 -19.07 24.12 35.08	35.09
32 31	13 13-0531	EA	5' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	369.18 -48.74 113.07 72.78 45.23 -22.61 28.59 41.59	36.37
32 31	13 13-0532	EA	6' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	429.56 -55.09 127.82 82.27 51.13 -25.56 32.32 47.01	45.16
32 31	13 13-0533	EA	7' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	493.70 -62.16 144.20 92.82 57.68 -28.84 36.47 53.04	54.04
32 31	13 13-0534	EA	8' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	556.98 -69.22 160.59 103.37 64.24 -32.12 40.61 59.07	62.57
32 31	13 13-0535	EA	9' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	621.11 -76.28 176.98 113.92 70.79 -35.40 44.75 65.09	71.37
32 31	13 13-0536	EA	10' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	681.47 -82.64 191.72 123.41 76.69 -38.34 48.48 70.52	80.16
32 31	13 13-0537	EA	10' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm..... <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	946.27 -123.92 287.48 185.05 114.99 -57.50 72.70 105.74	95.10

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0538 EA 12' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,121.86	102.39
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-152.73	
For 1" Mesh Fabric, Add	354.34	
For 1-1/4" Mesh Fabric, Add	228.08	
For 1-3/4" Mesh Fabric, Add	141.74	
For 2-1/8" Mesh Fabric, Deduct	-70.87	
For Gate With Single Barb Wire Arm, Add	89.60	
For Gate With Double Barb Wire Arm, Add	130.33	
32 31 13 13-0539 EA 14' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,284.16	110.89
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-178.33	
For 1" Mesh Fabric, Add	413.72	
For 1-1/4" Mesh Fabric, Add	266.31	
For 1-3/4" Mesh Fabric, Add	165.49	
For 2-1/8" Mesh Fabric, Deduct	-82.74	
For Gate With Single Barb Wire Arm, Add	104.62	
For Gate With Double Barb Wire Arm, Add	152.17	
32 31 13 13-0540 EA 16' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,449.97	120.90
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-203.76	
For 1" Mesh Fabric, Add	472.71	
For 1-1/4" Mesh Fabric, Add	304.28	
For 1-3/4" Mesh Fabric, Add	189.09	
For 2-1/8" Mesh Fabric, Deduct	-94.54	
For Gate With Single Barb Wire Arm, Add	119.54	
For Gate With Double Barb Wire Arm, Add	173.87	
32 31 13 13-0541 EA 18' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,620.20	133.14
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-228.85	
For 1" Mesh Fabric, Add	530.92	
For 1-1/4" Mesh Fabric, Add	341.74	
For 1-3/4" Mesh Fabric, Add	212.37	
For 2-1/8" Mesh Fabric, Deduct	-106.18	
For Gate With Single Barb Wire Arm, Add	134.26	
For Gate With Double Barb Wire Arm, Add	195.28	
32 31 13 13-0542 EA 20' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,799.85	147.81
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-254.27	
For 1" Mesh Fabric, Add	589.91	
For 1-1/4" Mesh Fabric, Add	379.71	
For 1-3/4" Mesh Fabric, Add	235.96	
For 2-1/8" Mesh Fabric, Deduct	-117.98	
For Gate With Single Barb Wire Arm, Add	149.17	
For Gate With Double Barb Wire Arm, Add	216.98	
32 31 13 13-0543 EA 22' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,991.34	166.33
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-279.70	
For 1" Mesh Fabric, Add	648.90	
For 1-1/4" Mesh Fabric, Add	417.68	
For 1-3/4" Mesh Fabric, Add	259.56	
For 2-1/8" Mesh Fabric, Deduct	-129.78	
For Gate With Single Barb Wire Arm, Add	164.09	
For Gate With Double Barb Wire Arm, Add	238.68	
32 31 13 13-0544 EA 24' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,197.96	190.00
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-305.13	
For 1" Mesh Fabric, Add	707.89	
For 1-1/4" Mesh Fabric, Add	455.66	
For 1-3/4" Mesh Fabric, Add	283.16	
For 2-1/8" Mesh Fabric, Deduct	-141.58	
For Gate With Single Barb Wire Arm, Add	179.01	
For Gate With Double Barb Wire Arm, Add	260.37	
32 31 13 13-0545 EA 26' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,433.63	221.87
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-331.40	
For 1" Mesh Fabric, Add	768.85	
For 1-1/4" Mesh Fabric, Add	494.89	
For 1-3/4" Mesh Fabric, Add	307.54	
For 2-1/8" Mesh Fabric, Deduct	-153.77	
For Gate With Single Barb Wire Arm, Add	194.42	
For Gate With Double Barb Wire Arm, Add	282.80	
32 31 13 13-0546 EA 28' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,701.75	265.97
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-356.83	
For 1" Mesh Fabric, Add	827.84	
For 1-1/4" Mesh Fabric, Add	532.87	
For 1-3/4" Mesh Fabric, Add	331.14	
For 2-1/8" Mesh Fabric, Deduct	-165.57	
For Gate With Single Barb Wire Arm, Add	209.34	
For Gate With Double Barb Wire Arm, Add	304.49	
32 31 13 13-0547 EA 30' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	3,037.92	332.75
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-382.26	
For 1" Mesh Fabric, Add	886.83	
For 1-1/4" Mesh Fabric, Add	570.84	
For 1-3/4" Mesh Fabric, Add	354.73	
For 2-1/8" Mesh Fabric, Deduct	-177.37	
For Gate With Single Barb Wire Arm, Add	224.26	
For Gate With Double Barb Wire Arm, Add	326.19	



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0548 Chain Link Galvanized Steel Sliding Gate <small>(32 31 13 13-0265)</small>		
Note: Includes posts (3" diameter posts for up to 15' wide gate and 4" diameter over 15' wide), caps, upper and lower rails, track brackets, roller gate wheel carrier, track rollers, 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes truss rod, latches, track rollers with brackets, pipe track clamps and two wheel carriers. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. See CSI section 32 31 13 13-0632 for additional gate accessories, 32 31 13 13-0728 for gate replacement parts.		
32 31 13 13-0549 4' High Chain Link Galvanized Steel Sliding Gate <small>(32 31 13 13-0548)</small>		
32 31 13 13-0550 EA 10' Long x 4' High Chain Link Galvanized Steel Sliding Gate	2,212.56	328.40
For 1" Mesh Fabric, Add	676.74	
For 1-1/4" Mesh Fabric, Add	435.60	
For 1-3/4" Mesh Fabric, Add	270.70	
For 2-1/8" Mesh Fabric, Deduct	-135.35	
For Gate With Barb Wire Arm, Add	171.13	
For Vinyl Coated, Add	466.72	
32 31 13 13-0551 EA 12' Long x 4' High Chain Link Galvanized Steel Sliding Gate	2,659.75	396.49
For 1" Mesh Fabric, Add	812.09	
For 1-1/4" Mesh Fabric, Add	522.72	
For 1-3/4" Mesh Fabric, Add	324.84	
For 2-1/8" Mesh Fabric, Deduct	-162.42	
For Gate With Barb Wire Arm, Add	205.36	
For Vinyl Coated, Add	560.06	
32 31 13 13-0552 EA 14' Long x 4' High Chain Link Galvanized Steel Sliding Gate	3,103.22	462.55
For 1" Mesh Fabric, Add	947.44	
For 1-1/4" Mesh Fabric, Add	609.85	
For 1-3/4" Mesh Fabric, Add	378.98	
For 2-1/8" Mesh Fabric, Deduct	-189.49	
For Gate With Barb Wire Arm, Add	239.58	
For Vinyl Coated, Add	653.41	
32 31 13 13-0553 EA 16' Long x 4' High Chain Link Galvanized Steel Sliding Gate	3,552.43	531.65
For 1" Mesh Fabric, Add	1,082.78	
For 1-1/4" Mesh Fabric, Add	696.96	
For 1-3/4" Mesh Fabric, Add	433.11	
For 2-1/8" Mesh Fabric, Deduct	-216.56	
For Gate With Barb Wire Arm, Add	273.81	
For Vinyl Coated, Add	746.75	
32 31 13 13-0554 EA 18' Long x 4' High Chain Link Galvanized Steel Sliding Gate	3,996.54	598.12
For 1" Mesh Fabric, Add	1,218.13	
For 1-1/4" Mesh Fabric, Add	784.09	
For 1-3/4" Mesh Fabric, Add	487.25	
For 2-1/8" Mesh Fabric, Deduct	-243.63	
For Gate With Barb Wire Arm, Add	308.03	
For Vinyl Coated, Add	840.09	
32 31 13 13-0555 EA 20' Long x 4' High Chain Link Galvanized Steel Sliding Gate	4,428.36	658.42
For 1" Mesh Fabric, Add	1,353.49	
For 1-1/4" Mesh Fabric, Add	871.21	
For 1-3/4" Mesh Fabric, Add	541.39	
For 2-1/8" Mesh Fabric, Deduct	-270.70	
For Gate With Barb Wire Arm, Add	342.26	
For Vinyl Coated, Add	933.44	
32 31 13 13-0556 EA 24' Long x 4' High Chain Link Galvanized Steel Sliding Gate	5,292.09	792.88
For 1" Mesh Fabric, Add	1,612.26	
For 1-1/4" Mesh Fabric, Add	1,037.78	
For 1-3/4" Mesh Fabric, Add	644.90	
For 2-1/8" Mesh Fabric, Deduct	-322.45	
For Gate With Barb Wire Arm, Add	407.70	
For Vinyl Coated, Add	1,111.91	
32 31 13 13-0557 EA 30' Long x 4' High Chain Link Galvanized Steel Sliding Gate	7,660.39	1,496.62
For 1" Mesh Fabric, Add	2,030.22	
For 1-1/4" Mesh Fabric, Add	1,306.81	
For 1-3/4" Mesh Fabric, Add	812.09	
For 2-1/8" Mesh Fabric, Deduct	-406.04	
For Gate With Barb Wire Arm, Add	513.39	
For Vinyl Coated, Add	1,400.15	
32 31 13 13-0558 EA 40' Long x 4' High Chain Link Galvanized Steel Sliding Gate	10,213.85	1,995.49
For 1" Mesh Fabric, Add	2,706.96	
For 1-1/4" Mesh Fabric, Add	1,742.41	
For 1-3/4" Mesh Fabric, Add	1,082.78	
For 2-1/8" Mesh Fabric, Deduct	-541.39	
For Gate With Barb Wire Arm, Add	684.52	
For Vinyl Coated, Add	1,866.87	
32 31 13 13-0559 5' High Chain Link Galvanized Steel Sliding Gate <small>(32 31 13 13-0548)</small>		
32 31 13 13-0560 EA 10' Long x 5' High Chain Link Galvanized Steel Sliding Gate	2,316.31	357.43
For 1" Mesh Fabric, Add	696.63	
For 1-1/4" Mesh Fabric, Add	448.41	
For 1-3/4" Mesh Fabric, Add	278.65	
For 2-1/8" Mesh Fabric, Deduct	-139.33	
For Gate With Barb Wire Arm, Add	176.16	
For Vinyl Coated, Add	480.44	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0561 EA 12' Long x 5' High Chain Link Galvanized Steel Sliding Gate	2,778.57	428.46
For 1" Mesh Fabric, Add	835.96	
For 1-1/4" Mesh Fabric, Add	538.09	
For 1-3/4" Mesh Fabric, Add	334.38	
For 2-1/8" Mesh Fabric, Deduct	-167.19	
For Gate With Barb Wire Arm, Add	211.39	
For Vinyl Coated, Add	576.52	
32 31 13 13-0562 EA 14' Long x 5' High Chain Link Galvanized Steel Sliding Gate	3,241.49	499.79
For 1" Mesh Fabric, Add	975.28	
For 1-1/4" Mesh Fabric, Add	627.77	
For 1-3/4" Mesh Fabric, Add	390.11	
For 2-1/8" Mesh Fabric, Deduct	-195.06	
For Gate With Barb Wire Arm, Add	246.62	
For Vinyl Coated, Add	672.61	
32 31 13 13-0563 EA 16' Long x 5' High Chain Link Galvanized Steel Sliding Gate	3,704.85	571.31
For 1" Mesh Fabric, Add	1,114.61	
For 1-1/4" Mesh Fabric, Add	717.45	
For 1-3/4" Mesh Fabric, Add	445.84	
For 2-1/8" Mesh Fabric, Deduct	-222.92	
For Gate With Barb Wire Arm, Add	281.86	
For Vinyl Coated, Add	768.70	
32 31 13 13-0564 EA 18' Long x 5' High Chain Link Galvanized Steel Sliding Gate	4,167.71	642.53
For 1" Mesh Fabric, Add	1,253.93	
For 1-1/4" Mesh Fabric, Add	807.13	
For 1-3/4" Mesh Fabric, Add	501.57	
For 2-1/8" Mesh Fabric, Deduct	-250.79	
For Gate With Barb Wire Arm, Add	317.09	
For Vinyl Coated, Add	864.78	
32 31 13 13-0565 EA 20' Long x 5' High Chain Link Galvanized Steel Sliding Gate	4,630.85	713.96
For 1" Mesh Fabric, Add	1,393.26	
For 1-1/4" Mesh Fabric, Add	896.81	
For 1-3/4" Mesh Fabric, Add	557.30	
For 2-1/8" Mesh Fabric, Deduct	-278.65	
For Gate With Barb Wire Arm, Add	352.32	
For Vinyl Coated, Add	960.87	
32 31 13 13-0566 EA 24' Long x 5' High Chain Link Galvanized Steel Sliding Gate	5,530.77	857.73
For 1" Mesh Fabric, Add	1,659.65	
For 1-1/4" Mesh Fabric, Add	1,068.28	
For 1-3/4" Mesh Fabric, Add	663.86	
For 2-1/8" Mesh Fabric, Deduct	-331.93	
For Gate With Barb Wire Arm, Add	419.68	
For Vinyl Coated, Add	1,144.58	
32 31 13 13-0567 EA 30' Long x 5' High Chain Link Galvanized Steel Sliding Gate	6,946.65	1,071.19
For 1" Mesh Fabric, Add	2,089.89	
For 1-1/4" Mesh Fabric, Add	1,345.22	
For 1-3/4" Mesh Fabric, Add	835.96	
For 2-1/8" Mesh Fabric, Deduct	-417.98	
For Gate With Barb Wire Arm, Add	528.48	
For Vinyl Coated, Add	1,441.30	
32 31 13 13-0568 EA 40' Long x 5' High Chain Link Galvanized Steel Sliding Gate	9,261.70	1,427.92
For 1" Mesh Fabric, Add	2,786.52	
For 1-1/4" Mesh Fabric, Add	1,793.62	
For 1-3/4" Mesh Fabric, Add	1,114.61	
For 2-1/8" Mesh Fabric, Deduct	-557.30	
For Gate With Barb Wire Arm, Add	704.64	
For Vinyl Coated, Add	1,921.74	
32 31 13 13-0569 6' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0548)		
32 31 13 13-0570 EA 10' Long x 6' High Chain Link Galvanized Steel Sliding Gate	2,471.47	419.05
For 1" Mesh Fabric, Add	710.55	
For 1-1/4" Mesh Fabric, Add	457.37	
For 1-3/4" Mesh Fabric, Add	284.22	
For 2-1/8" Mesh Fabric, Deduct	-142.11	
For Gate With Barb Wire Arm, Add	179.68	
For Vinyl Coated, Add	490.04	
32 31 13 13-0571 EA 12' Long x 6' High Chain Link Galvanized Steel Sliding Gate	2,962.83	501.30
For 1" Mesh Fabric, Add	852.67	
For 1-1/4" Mesh Fabric, Add	548.84	
For 1-3/4" Mesh Fabric, Add	341.07	
For 2-1/8" Mesh Fabric, Deduct	-170.53	
For Gate With Barb Wire Arm, Add	215.62	
For Vinyl Coated, Add	588.05	
32 31 13 13-0572 EA 14' Long x 6' High Chain Link Galvanized Steel Sliding Gate	3,456.44	584.77
For 1" Mesh Fabric, Add	994.78	
For 1-1/4" Mesh Fabric, Add	640.32	
For 1-3/4" Mesh Fabric, Add	397.91	
For 2-1/8" Mesh Fabric, Deduct	-198.96	
For Gate With Barb Wire Arm, Add	251.55	
For Vinyl Coated, Add	686.05	
32 31 13 13-0573 EA 16' Long x 6' High Chain Link Galvanized Steel Sliding Gate	3,950.44	668.44
For 1" Mesh Fabric, Add	1,136.89	
For 1-1/4" Mesh Fabric, Add	731.79	
For 1-3/4" Mesh Fabric, Add	454.75	
For 2-1/8" Mesh Fabric, Deduct	-227.38	
For Gate With Barb Wire Arm, Add	287.49	
For Vinyl Coated, Add	784.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0574 EA 18' Long x 6' High Chain Link Galvanized Steel Sliding Gate	4,444.06	751.90
For 1" Mesh Fabric, Add	1,279.00	
For 1-1/4" Mesh Fabric, Add	823.26	
For 1-3/4" Mesh Fabric, Add	511.60	
For 2-1/8" Mesh Fabric, Deduct	-255.80	
For Gate With Barb Wire Arm, Add	323.42	
For Vinyl Coated, Add	882.07	
32 31 13 13-0575 EA 20' Long x 6' High Chain Link Galvanized Steel Sliding Gate	4,943.31	838.20
For 1" Mesh Fabric, Add	1,421.11	
For 1-1/4" Mesh Fabric, Add	914.73	
For 1-3/4" Mesh Fabric, Add	568.44	
For 2-1/8" Mesh Fabric, Deduct	-284.22	
For Gate With Barb Wire Arm, Add	359.36	
For Vinyl Coated, Add	980.07	
32 31 13 13-0576 EA 24' Long x 6' High Chain Link Galvanized Steel Sliding Gate	5,896.89	1,002.70
For 1" Mesh Fabric, Add	1,692.82	
For 1-1/4" Mesh Fabric, Add	1,089.63	
For 1-3/4" Mesh Fabric, Add	677.13	
For 2-1/8" Mesh Fabric, Deduct	-338.56	
For Gate With Barb Wire Arm, Add	428.07	
For Vinyl Coated, Add	1,167.46	
32 31 13 13-0577 EA 30' Long x 6' High Chain Link Galvanized Steel Sliding Gate	7,407.69	1,253.71
For 1" Mesh Fabric, Add	2,131.66	
For 1-1/4" Mesh Fabric, Add	1,372.10	
For 1-3/4" Mesh Fabric, Add	852.66	
For 2-1/8" Mesh Fabric, Deduct	-426.33	
For Gate With Barb Wire Arm, Add	539.04	
For Vinyl Coated, Add	1,470.11	
32 31 13 13-0578 EA 40' Long x 6' High Chain Link Galvanized Steel Sliding Gate	9,875.55	1,670.84
For 1" Mesh Fabric, Add	2,842.21	
For 1-1/4" Mesh Fabric, Add	1,829.47	
For 1-3/4" Mesh Fabric, Add	1,136.88	
For 2-1/8" Mesh Fabric, Deduct	-568.44	
For Gate With Barb Wire Arm, Add	718.72	
For Vinyl Coated, Add	1,960.15	
32 31 13 13-0579 7' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0548)		
32 31 13 13-0580 EA 10' Long x 7' High Chain Link Galvanized Steel Sliding Gate	2,632.28	467.41
For 1" Mesh Fabric, Add	738.40	
For 1-1/4" Mesh Fabric, Add	475.29	
For 1-3/4" Mesh Fabric, Add	295.36	
For 2-1/8" Mesh Fabric, Deduct	-147.68	
For Gate With Barb Wire Arm, Add	186.72	
For Vinyl Coated, Add	509.24	
32 31 13 13-0581 EA 12' Long x 7' High Chain Link Galvanized Steel Sliding Gate	3,158.03	560.49
For 1" Mesh Fabric, Add	886.10	
For 1-1/4" Mesh Fabric, Add	570.37	
For 1-3/4" Mesh Fabric, Add	354.44	
For 2-1/8" Mesh Fabric, Deduct	-177.22	
For Gate With Barb Wire Arm, Add	224.07	
For Vinyl Coated, Add	611.11	
32 31 13 13-0582 EA 14' Long x 7' High Chain Link Galvanized Steel Sliding Gate	3,685.26	654.38
For 1" Mesh Fabric, Add	1,033.76	
For 1-1/4" Mesh Fabric, Add	665.41	
For 1-3/4" Mesh Fabric, Add	413.50	
For 2-1/8" Mesh Fabric, Deduct	-206.75	
For Gate With Barb Wire Arm, Add	261.41	
For Vinyl Coated, Add	712.94	
32 31 13 13-0583 EA 16' Long x 7' High Chain Link Galvanized Steel Sliding Gate	4,210.90	747.44
For 1" Mesh Fabric, Add	1,181.44	
For 1-1/4" Mesh Fabric, Add	760.47	
For 1-3/4" Mesh Fabric, Add	472.58	
For 2-1/8" Mesh Fabric, Deduct	-236.29	
For Gate With Barb Wire Arm, Add	298.75	
For Vinyl Coated, Add	814.79	
32 31 13 13-0584 EA 18' Long x 7' High Chain Link Galvanized Steel Sliding Gate	4,737.42	841.03
For 1" Mesh Fabric, Add	1,329.12	
For 1-1/4" Mesh Fabric, Add	855.52	
For 1-3/4" Mesh Fabric, Add	531.65	
For 2-1/8" Mesh Fabric, Deduct	-265.82	
For Gate With Barb Wire Arm, Add	336.10	
For Vinyl Coated, Add	916.63	
32 31 13 13-0585 EA 20' Long x 7' High Chain Link Galvanized Steel Sliding Gate	5,263.28	934.21
For 1" Mesh Fabric, Add	1,476.80	
For 1-1/4" Mesh Fabric, Add	950.58	
For 1-3/4" Mesh Fabric, Add	590.72	
For 2-1/8" Mesh Fabric, Deduct	-295.36	
For Gate With Barb Wire Arm, Add	373.44	
For Vinyl Coated, Add	1,018.48	
32 31 13 13-0586 EA 24' Long x 7' High Chain Link Galvanized Steel Sliding Gate	6,286.05	1,120.97
For 1" Mesh Fabric, Add	1,759.16	
For 1-1/4" Mesh Fabric, Add	1,132.33	
For 1-3/4" Mesh Fabric, Add	703.66	
For 2-1/8" Mesh Fabric, Deduct	-351.83	
For Gate With Barb Wire Arm, Add	444.84	
For Vinyl Coated, Add	1,213.21	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0587 EA 30' Long x 7' High Chain Link Galvanized Steel Sliding Gate	7,894.90	1,401.22
For 1" Mesh Fabric, Add	2,215.19	
For 1-1/4" Mesh Fabric, Add	1,425.87	
For 1-3/4" Mesh Fabric, Add	886.08	
For 2-1/8" Mesh Fabric, Deduct	-443.04	
For Gate With Barb Wire Arm, Add	560.16	
For Vinyl Coated, Add	1,527.72	
32 31 13 13-0588 EA 40' Long x 7' High Chain Link Galvanized Steel Sliding Gate	10,526.54	1,868.31
For 1" Mesh Fabric, Add	2,953.59	
For 1-1/4" Mesh Fabric, Add	1,901.16	
For 1-3/4" Mesh Fabric, Add	1,181.44	
For 2-1/8" Mesh Fabric, Deduct	-590.72	
For Gate With Barb Wire Arm, Add	746.88	
For Vinyl Coated, Add	2,036.96	
32 31 13 13-0589 8' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0548)		
32 31 13 13-0590 EA 10' Long x 8' High Chain Link Galvanized Steel Sliding Gate	2,760.49	506.36
For 1" Mesh Fabric, Add	760.28	
For 1-1/4" Mesh Fabric, Add	489.38	
For 1-3/4" Mesh Fabric, Add	304.11	
For 2-1/8" Mesh Fabric, Deduct	-152.06	
For Gate With Barb Wire Arm, Add	192.25	
For Vinyl Coated, Add	524.33	
32 31 13 13-0591 EA 12' Long x 8' High Chain Link Galvanized Steel Sliding Gate	3,309.67	606.22
For 1" Mesh Fabric, Add	912.33	
For 1-1/4" Mesh Fabric, Add	587.25	
For 1-3/4" Mesh Fabric, Add	364.93	
For 2-1/8" Mesh Fabric, Deduct	-182.47	
For Gate With Barb Wire Arm, Add	230.71	
For Vinyl Coated, Add	629.20	
32 31 13 13-0592 EA 14' Long x 8' High Chain Link Galvanized Steel Sliding Gate	3,861.34	707.29
For 1" Mesh Fabric, Add	1,064.38	
For 1-1/4" Mesh Fabric, Add	685.12	
For 1-3/4" Mesh Fabric, Add	425.75	
For 2-1/8" Mesh Fabric, Deduct	-212.88	
For Gate With Barb Wire Arm, Add	269.15	
For Vinyl Coated, Add	734.06	
32 31 13 13-0593 EA 16' Long x 8' High Chain Link Galvanized Steel Sliding Gate	4,413.20	808.35
For 1" Mesh Fabric, Add	1,216.44	
For 1-1/4" Mesh Fabric, Add	782.99	
For 1-3/4" Mesh Fabric, Add	486.58	
For 2-1/8" Mesh Fabric, Deduct	-243.29	
For Gate With Barb Wire Arm, Add	307.61	
For Vinyl Coated, Add	838.92	
32 31 13 13-0594 EA 18' Long x 8' High Chain Link Galvanized Steel Sliding Gate	4,963.95	909.02
For 1" Mesh Fabric, Add	1,368.50	
For 1-1/4" Mesh Fabric, Add	880.87	
For 1-3/4" Mesh Fabric, Add	547.40	
For 2-1/8" Mesh Fabric, Deduct	-273.70	
For Gate With Barb Wire Arm, Add	346.06	
For Vinyl Coated, Add	943.79	
32 31 13 13-0595 EA 20' Long x 8' High Chain Link Galvanized Steel Sliding Gate	5,515.90	1,010.19
For 1" Mesh Fabric, Add	1,520.55	
For 1-1/4" Mesh Fabric, Add	978.75	
For 1-3/4" Mesh Fabric, Add	608.22	
For 2-1/8" Mesh Fabric, Deduct	-304.11	
For Gate With Barb Wire Arm, Add	384.51	
For Vinyl Coated, Add	1,048.66	
32 31 13 13-0596 EA 24' Long x 8' High Chain Link Galvanized Steel Sliding Gate	6,588.56	1,212.33
For 1" Mesh Fabric, Add	1,811.28	
For 1-1/4" Mesh Fabric, Add	1,165.88	
For 1-3/4" Mesh Fabric, Add	724.51	
For 2-1/8" Mesh Fabric, Deduct	-362.26	
For Gate With Barb Wire Arm, Add	458.02	
For Vinyl Coated, Add	1,249.16	
32 31 13 13-0597 EA 30' Long x 8' High Chain Link Galvanized Steel Sliding Gate	8,274.62	1,515.64
For 1" Mesh Fabric, Add	2,280.83	
For 1-1/4" Mesh Fabric, Add	1,468.12	
For 1-3/4" Mesh Fabric, Add	912.33	
For 2-1/8" Mesh Fabric, Deduct	-456.17	
For Gate With Barb Wire Arm, Add	576.76	
For Vinyl Coated, Add	1,572.99	
32 31 13 13-0598 EA 40' Long x 8' High Chain Link Galvanized Steel Sliding Gate	11,029.79	2,019.37
For 1" Mesh Fabric, Add	3,041.10	
For 1-1/4" Mesh Fabric, Add	1,957.49	
For 1-3/4" Mesh Fabric, Add	1,216.44	
For 2-1/8" Mesh Fabric, Deduct	-608.22	
For Gate With Barb Wire Arm, Add	769.01	
For Vinyl Coated, Add	2,097.31	

32 31 13 13-0599 9' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0548)



	Exterior Improvements	32
	Site Improvements	32 30
	Fences and Gates	32 31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0600	EA		10' Long x 9' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	2,911.99 786.13 506.02 314.45 -157.23 198.79 542.16	552.39
32 31 13 13-0601	EA		12' Long x 9' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	3,490.27 943.36 607.22 377.34 -188.67 238.55 650.59	660.85
32 31 13 13-0602	EA		14' Long x 9' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	4,071.74 1,100.59 708.43 440.24 -220.12 278.31 759.03	770.82
32 31 13 13-0603	EA		16' Long x 9' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	4,654.07 1,257.81 809.63 503.12 -251.56 318.07 867.46	881.30
32 31 13 13-0604	EA		18' Long x 9' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	5,235.72 1,415.04 910.83 566.02 -283.01 357.83 975.89	991.37
32 31 13 13-0605	EA		20' Long x 9' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	5,817.37 1,572.27 1,012.03 628.91 -314.45 397.59 1,084.32	1,101.44
32 31 13 13-0606	EA		24' Long x 9' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	6,948.72 1,872.88 1,205.53 749.15 -374.58 473.60 1,291.64	1,321.59
32 31 13 13-0607	EA		30' Long x 9' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	8,725.13 2,358.40 1,518.05 943.36 -471.68 596.38 1,626.48	1,651.82
32 31 13 13-0608	EA		40' Long x 9' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	11,637.12 3,144.53 2,024.07 1,257.81 -628.91 795.17 2,168.64	2,204.21
32 31 13 13-0609			10' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0548)		
32 31 13 13-0610	EA		10' Long x 10' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	3,100.19 819.94 527.78 327.98 -163.99 207.34 565.48	607.63
32 31 13 13-0611	EA		12' Long x 10' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	3,720.24 983.94 633.34 393.57 -196.79 248.81 678.58	729.14

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0612	EA	14' Long x 10' High Chain Link Galvanized Steel Sliding Gate	4,340.68	850.84
			<i>For 1" Mesh Fabric, Add</i>	1,147.93	
			<i>For 1-1/4" Mesh Fabric, Add</i>	738.89	
			<i>For 1-3/4" Mesh Fabric, Add</i>	459.17	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-229.59	
			<i>For Gate With Barb Wire Arm, Add</i>	290.28	
			<i>For Vinyl Coated, Add</i>	791.67	
32 31 13	13-0613	EA	16' Long x 10' High Chain Link Galvanized Steel Sliding Gate	4,960.55	972.35
			<i>For 1" Mesh Fabric, Add</i>	1,311.91	
			<i>For 1-1/4" Mesh Fabric, Add</i>	844.45	
			<i>For 1-3/4" Mesh Fabric, Add</i>	524.76	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-262.38	
			<i>For Gate With Barb Wire Arm, Add</i>	331.75	
			<i>For Vinyl Coated, Add</i>	904.77	
32 31 13	13-0614	EA	18' Long x 10' High Chain Link Galvanized Steel Sliding Gate	5,580.34	1,093.75
			<i>For 1" Mesh Fabric, Add</i>	1,475.90	
			<i>For 1-1/4" Mesh Fabric, Add</i>	950.00	
			<i>For 1-3/4" Mesh Fabric, Add</i>	590.36	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-295.18	
			<i>For Gate With Barb Wire Arm, Add</i>	373.22	
			<i>For Vinyl Coated, Add</i>	1,017.86	
32 31 13	13-0615	EA	20' Long x 10' High Chain Link Galvanized Steel Sliding Gate	6,200.38	1,215.26
			<i>For 1" Mesh Fabric, Add</i>	1,639.89	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,055.56	
			<i>For 1-3/4" Mesh Fabric, Add</i>	655.96	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-327.98	
			<i>For Gate With Barb Wire Arm, Add</i>	414.68	
			<i>For Vinyl Coated, Add</i>	1,130.96	
32 31 13	13-0616	EA	24' Long x 10' High Chain Link Galvanized Steel Sliding Gate	7,408.33	1,458.88
			<i>For 1" Mesh Fabric, Add</i>	1,953.43	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,257.38	
			<i>For 1-3/4" Mesh Fabric, Add</i>	781.37	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-390.69	
			<i>For Gate With Barb Wire Arm, Add</i>	493.97	
			<i>For Vinyl Coated, Add</i>	1,347.20	
32 31 13	13-0617	EA	30' Long x 10' High Chain Link Galvanized Steel Sliding Gate	9,300.58	1,822.89
			<i>For 1" Mesh Fabric, Add</i>	2,459.83	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,583.34	
			<i>For 1-3/4" Mesh Fabric, Add</i>	983.93	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-491.97	
			<i>For Gate With Barb Wire Arm, Add</i>	622.03	
			<i>For Vinyl Coated, Add</i>	1,696.44	
32 31 13	13-0618	EA	40' Long x 10' High Chain Link Galvanized Steel Sliding Gate	12,397.87	2,429.11
			<i>For 1" Mesh Fabric, Add</i>	3,279.78	
			<i>For 1-1/4" Mesh Fabric, Add</i>	2,111.12	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1,311.91	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-655.96	
			<i>For Gate With Barb Wire Arm, Add</i>	829.37	
			<i>For Vinyl Coated, Add</i>	2,261.92	
32 31 13	13-0619		Sliding Cantilever Gate, Single Track, Manually Operated Exposed Roller ⁽³²⁾		
			<small>31 13 13-0265</small>		
			Note: Includes posts (3" diameter posts for up to 15' wide gate and 4" diameter over 15' wide), caps, upper rail, track brackets, roller gate wheel carrier, metal track rollers for rail, 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes truss rod, latches, single track, track rollers with brackets, pipe track clamps and two wheel carriers. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. Width listed on tasks is opening width of gate. See CSI section 32 31 11 00-0020 for gate operators.		
32 31 13	13-0620	EA	5' High x 10' Wide Galvanized Cantilever Sliding Gate	4,799.03	404.69
			<i>For 1" Mesh Fabric, Add</i>	1,735.51	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,117.11	
			<i>For 1-3/4" Mesh Fabric, Add</i>	694.20	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-347.10	
			<i>For Gate With Single Barb Wire Arm, Add</i>	438.86	
			<i>For Gate With Double Barb Wire Arm, Add</i>	638.35	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,915.04	
			<i>For Powder Coated Gate And Post, Add</i>	837.83	
			<i>For Vinyl Coated, Add</i>	1,196.90	
32 31 13	13-0621	EA	5' High x 12' Wide Galvanized Cantilever Sliding Gate	5,272.97	505.85
			<i>For 1" Mesh Fabric, Add</i>	1,853.65	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,193.15	
			<i>For 1-3/4" Mesh Fabric, Add</i>	741.46	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-370.73	
			<i>For Gate With Single Barb Wire Arm, Add</i>	468.74	
			<i>For Gate With Double Barb Wire Arm, Add</i>	681.80	
			<i>For Aluminized Steel Gate And Post, Add</i>	2,045.40	
			<i>For Powder Coated Gate And Post, Add</i>	894.86	
			<i>For Vinyl Coated, Add</i>	1,278.38	



	Exterior Improvements	32
	Site Improvements	32 30
	Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0622 EA 5' High x 15' Wide Galvanized Cantilever Sliding Gate.....	5,750.63	607.02
For 1" Mesh Fabric, Add	1,973.41	
For 1-1/4" Mesh Fabric, Add	1,270.24	
For 1-3/4" Mesh Fabric, Add	789.36	
For 2-1/8" Mesh Fabric, Deduct	-394.68	
For Gate With Single Barb Wire Arm, Add	499.02	
For Gate With Double Barb Wire Arm, Add	725.85	
For Aluminized Steel Gate And Post, Add	2,177.56	
For Powder Coated Gate And Post, Add	952.68	
For Vinyl Coated, Add	1,360.97	
32 31 13 13-0623 EA 5' High x 20' Wide Galvanized Cantilever Sliding Gate.....	6,760.19	809.36
For 1" Mesh Fabric, Add	2,236.54	
For 1-1/4" Mesh Fabric, Add	1,439.61	
For 1-3/4" Mesh Fabric, Add	894.61	
For 2-1/8" Mesh Fabric, Deduct	-447.31	
For Gate With Single Barb Wire Arm, Add	565.56	
For Gate With Double Barb Wire Arm, Add	822.63	
For Aluminized Steel Gate And Post, Add	2,467.90	
For Powder Coated Gate And Post, Add	1,079.71	
For Vinyl Coated, Add	1,542.44	
32 31 13 13-0624 EA 6' High x 15' Wide Galvanized Cantilever Sliding Gate.....	6,290.87	809.36
For 1" Mesh Fabric, Add	2,032.38	
For 1-1/4" Mesh Fabric, Add	1,308.20	
For 1-3/4" Mesh Fabric, Add	812.95	
For 2-1/8" Mesh Fabric, Deduct	-406.48	
For Gate With Single Barb Wire Arm, Add	513.94	
For Gate With Double Barb Wire Arm, Add	747.54	
For Aluminized Steel Gate And Post, Add	2,242.63	
For Powder Coated Gate And Post, Add	981.15	
For Vinyl Coated, Add	1,401.64	
32 31 13 13-0625 EA 6' High x 20' Wide Galvanized Cantilever Sliding Gate.....	7,386.36	1,062.29
For 1" Mesh Fabric, Add	2,288.87	
For 1-1/4" Mesh Fabric, Add	1,473.30	
For 1-3/4" Mesh Fabric, Add	915.55	
For 2-1/8" Mesh Fabric, Deduct	-457.77	
For Gate With Single Barb Wire Arm, Add	578.79	
For Gate With Double Barb Wire Arm, Add	841.88	
For Aluminized Steel Gate And Post, Add	2,525.65	
For Powder Coated Gate And Post, Add	1,104.97	
For Vinyl Coated, Add	1,578.53	
32 31 13 13-0626 EA 6' High x 25' Wide Galvanized Cantilever Sliding Gate.....	9,781.94	1,315.22
For 1" Mesh Fabric, Add	3,110.90	
For 1-1/4" Mesh Fabric, Add	2,002.42	
For 1-3/4" Mesh Fabric, Add	1,244.36	
For 2-1/8" Mesh Fabric, Deduct	-622.18	
For Gate With Single Barb Wire Arm, Add	786.66	
For Gate With Double Barb Wire Arm, Add	1,144.24	
For Aluminized Steel Gate And Post, Add	3,432.72	
For Powder Coated Gate And Post, Add	1,501.81	
For Vinyl Coated, Add	2,145.45	
32 31 13 13-0627 EA 6' High x 30' Wide Galvanized Cantilever Sliding Gate.....	11,028.85	1,568.15
For 1" Mesh Fabric, Add	3,433.26	
For 1-1/4" Mesh Fabric, Add	2,209.92	
For 1-3/4" Mesh Fabric, Add	1,373.31	
For 2-1/8" Mesh Fabric, Deduct	-686.65	
For Gate With Single Barb Wire Arm, Add	868.18	
For Gate With Double Barb Wire Arm, Add	1,262.81	
For Aluminized Steel Gate And Post, Add	3,788.43	
For Powder Coated Gate And Post, Add	1,657.44	
For Vinyl Coated, Add	2,367.77	
32 31 13 13-0628 EA 8' High x 15' Wide Galvanized Cantilever Sliding Gate.....	7,368.84	1,011.71
For 1" Mesh Fabric, Add	2,325.26	
For 1-1/4" Mesh Fabric, Add	1,496.72	
For 1-3/4" Mesh Fabric, Add	930.10	
For 2-1/8" Mesh Fabric, Deduct	-465.05	
For Gate With Single Barb Wire Arm, Add	588.00	
For Gate With Double Barb Wire Arm, Add	855.27	
For Aluminized Steel Gate And Post, Add	2,565.81	
For Powder Coated Gate And Post, Add	1,122.54	
For Vinyl Coated, Add	1,603.63	
32 31 13 13-0629 EA 8' High x 20' Wide Galvanized Cantilever Sliding Gate.....	8,750.63	1,365.80
For 1" Mesh Fabric, Add	2,618.27	
For 1-1/4" Mesh Fabric, Add	1,685.33	
For 1-3/4" Mesh Fabric, Add	1,047.31	
For 2-1/8" Mesh Fabric, Deduct	-523.65	
For Gate With Single Barb Wire Arm, Add	662.09	
For Gate With Double Barb Wire Arm, Add	963.04	
For Aluminized Steel Gate And Post, Add	2,889.13	
For Powder Coated Gate And Post, Add	1,263.99	
For Vinyl Coated, Add	1,805.71	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0630	EA	8' High x 25' Wide Galvanized Cantilever Sliding Gate	11,620.48	1,719.90
			<i>For 1" Mesh Fabric, Add</i>	3,558.59	
			<i>For 1-1/4" Mesh Fabric, Add</i>	2,290.59	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1,423.44	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-711.72	
			<i>For Gate With Single Barb Wire Arm, Add</i>	899.87	
			<i>For Gate With Double Barb Wire Arm, Add</i>	1,308.91	
			<i>For Aluminized Steel Gate And Post, Add</i>	3,926.72	
			<i>For Powder Coated Gate And Post, Add</i>	1,717.94	
			<i>For Vinyl Coated, Add</i>	2,454.20	
32 31 13	13-0631	EA	8' High x 30' Wide Galvanized Cantilever Sliding Gate	13,074.18	2,023.41
			<i>For 1" Mesh Fabric, Add</i>	3,926.90	
			<i>For 1-1/4" Mesh Fabric, Add</i>	2,527.66	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1,570.76	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-785.38	
			<i>For Gate With Single Barb Wire Arm, Add</i>	993.01	
			<i>For Gate With Double Barb Wire Arm, Add</i>	1,444.38	
			<i>For Aluminized Steel Gate And Post, Add</i>	4,333.13	
			<i>For Powder Coated Gate And Post, Add</i>	1,895.74	
			<i>For Vinyl Coated, Add</i>	2,708.21	
32 31 13	13-0632		Gate Accessories <small>(32 31 13 13-0265)</small>		
32 31 13	13-0633	EA	Gate Center Stop, Cast Steel, Ground	30.02	
32 31 13	13-0634	EA	Gate Latch, Malleable Galvanized Steel	37.23	
32 31 13	13-0635	EA	Gate Keeper, Full Length, Galvanized Steel	165.96	
32 31 13	13-0636	EA	Gate Keeper Hold-Open For Cantilever Gate	88.36	16.22
32 31 13	13-0637	EA	Heavy Duty Gate Latch, Malleable Galvanized Steel	49.83	
32 31 13	13-0638	EA	Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 3' To 5' High Gate	784.05	
32 31 13	13-0639	EA	Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 6' To 8' High Gate	840.96	
32 31 13	13-0640	EA	Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 10' To 12' High Gate	897.87	
32 31 13	13-0641	LF	Aluminum V-Groove Gate Track	47.91	9.19
32 31 13	13-0642	LF	Galvanized Steel V-Groove Gate Track	39.97	9.19
32 31 13	13-0643		Pipe Gate <small>(32 31 13 13-0265)</small>		
32 31 13	13-0644	EA	20' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier)	2,864.72	
32 31 13	13-0645	EA	25' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier)	3,578.56	
32 31 13	13-0646	EA	30' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier)	4,261.29	
32 31 13	13-0647		Vertical-Pivot Lift Gate <small>(32 31 13 13-0265)</small>		
			Note: Includes 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes operator. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. Width listed on tasks is opening width of gate.		
32 31 13	13-0648	EA	5' High x 12' Wide Galvanized Vertical-Pivot Lift Gate	18,430.94	758.78
			<i>For Curb Notch, Add</i>	239.00	
			<i>For Prewired Loop Kit, Add</i>	245.00	
32 31 13	13-0649	EA	5' High x 14' Wide Galvanized Vertical-Pivot Lift Gate	18,734.45	910.54
			<i>For Curb Notch, Add</i>	239.00	
			<i>For Prewired Loop Kit, Add</i>	245.00	
32 31 13	13-0650	EA	5' High x 16' Wide Galvanized Vertical-Pivot Lift Gate	19,037.96	1,062.29
			<i>For Curb Notch, Add</i>	239.00	
			<i>For Prewired Loop Kit, Add</i>	245.00	
			<i>For Wind Bracing, Add</i>	287.50	
32 31 13	13-0651	EA	5' High x 18' Wide Galvanized Vertical-Pivot Lift Gate	19,553.56	1,214.05
			<i>For Curb Notch, Add</i>	239.00	
			<i>For Prewired Loop Kit, Add</i>	245.00	
			<i>For Wind Bracing, Add</i>	317.50	
32 31 13	13-0652	EA	5' High x 20' Wide Galvanized Vertical-Pivot Lift Gate	20,058.55	1,365.80
			<i>For Curb Notch, Add</i>	239.00	
			<i>For Prewired Loop Kit, Add</i>	245.00	
			<i>For Wind Bracing, Add</i>	317.50	
32 31 13	13-0653	EA	6' High x 12' Wide Galvanized Vertical-Pivot Lift Gate	19,299.76	986.41
			<i>For Curb Notch, Add</i>	239.00	
			<i>For Prewired Loop Kit, Add</i>	245.00	
32 31 13	13-0654	EA	6' High x 14' Wide Galvanized Vertical-Pivot Lift Gate	19,603.28	1,138.17
			<i>For Curb Notch, Add</i>	239.00	
			<i>For Prewired Loop Kit, Add</i>	245.00	
32 31 13	13-0655	EA	6' High x 16' Wide Galvanized Vertical-Pivot Lift Gate	19,906.79	1,289.92
			<i>For Curb Notch, Add</i>	239.00	
			<i>For Prewired Loop Kit, Add</i>	245.00	
			<i>For Wind Bracing, Add</i>	287.50	
32 31 13	13-0656	EA	6' High x 18' Wide Galvanized Vertical-Pivot Lift Gate	20,326.94	1,441.68
			<i>For Curb Notch, Add</i>	239.00	
			<i>For Prewired Loop Kit, Add</i>	245.00	
			<i>For Wind Bracing, Add</i>	317.50	
32 31 13	13-0657	EA	6' High x 20' Wide Galvanized Vertical-Pivot Lift Gate	20,927.36	1,593.44
			<i>For Curb Notch, Add</i>	239.00	
			<i>For Prewired Loop Kit, Add</i>	245.00	
			<i>For Wind Bracing, Add</i>	317.50	



Exterior Improvements	32
Site Improvements	32 30
Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0658 Reinforced Gate <small>(32 31 13 13-0265)</small>		
Note: With cross bracing, tension rods, gate keeper (full height, stainless steel rod, internal locking device, gate stop), off-set hinges, and 6 gauge fabric. Excludes gate posts.		
32 31 13 13-0659 LF Reinforced Single Gate, 4' High, Galvanized	516.56	10.25
For Vinyl Coated, Add	297.64	
For Powder Coated, Add	396.86	
For Aluminum Coated, Add	620.09	
32 31 13 13-0660 LF Reinforced Single Gate, 5' High, Galvanized	554.24	11.10
For Vinyl Coated, Add	319.22	
For Powder Coated, Add	425.63	
For Aluminum Coated, Add	665.05	
32 31 13 13-0661 LF Reinforced Single Gate, 6' High, Galvanized	591.51	12.38
For Vinyl Coated, Add	340.05	
For Powder Coated, Add	453.40	
For Aluminum Coated, Add	708.44	
32 31 13 13-0662 LF Reinforced Single Gate, 7' High, Galvanized	626.71	13.23
For Vinyl Coated, Add	360.15	
For Powder Coated, Add	480.20	
For Aluminum Coated, Add	750.31	
32 31 13 13-0663 LF Reinforced Single Gate, 8' High, Galvanized	663.02	14.94
For Vinyl Coated, Add	379.88	
For Powder Coated, Add	506.51	
For Aluminum Coated, Add	791.43	
32 31 13 13-0664 LF Reinforced Double Gate, 4' High, Galvanized	352.76	10.25
For Vinyl Coated, Add	199.36	
For Powder Coated, Add	265.82	
For Aluminum Coated, Add	415.34	
32 31 13 13-0665 LF Reinforced Double Gate, 5' High, Galvanized	396.04	11.10
For Vinyl Coated, Add	224.30	
For Powder Coated, Add	299.07	
For Aluminum Coated, Add	467.30	
32 31 13 13-0666 LF Reinforced Double Gate, 6' High, Galvanized	438.67	12.38
For Vinyl Coated, Add	248.35	
For Powder Coated, Add	331.13	
For Aluminum Coated, Add	517.39	
32 31 13 13-0667 LF Reinforced Double Gate, 7' High, Galvanized	563.38	13.23
For Vinyl Coated, Add	322.15	
For Powder Coated, Add	429.54	
For Aluminum Coated, Add	671.15	
32 31 13 13-0668 LF Reinforced Double Gate, 8' High, Galvanized	686.84	14.94
For Vinyl Coated, Add	394.18	
For Powder Coated, Add	525.57	
For Aluminum Coated, Add	821.20	
32 31 13 13-0669 Accessories <small>(32 31 13 13)</small>		
32 31 13 13-0670 Barbed And Concertina Wire <small>(32 31 13 13-0669)</small>		
32 31 13 13-0671 Single Strand Barbed Wire <small>(32 31 13 13-0670)</small>		
32 31 13 13-0672 LF Galvanized Barbed Wire, Per Strand	0.92	0.43
Note: Includes clips. 4 points 12-1/2 Gauge, Class I.		
For >500 To 2,000, Deduct	-0.09	
For >2,000, Deduct	-0.13	
32 31 13 13-0673 LF Vinyl Coated Barbed Wire (Fused), Per Strand	1.04	0.43
Note: Includes clips.		
For >500 To 2,000, Deduct	-0.09	
For >2,000, Deduct	-0.14	
32 31 13 13-0674 EA Barbed Wire Extension Arms 3 Strands (Single Arm)	10.03	6.83
32 31 13 13-0675 EA Barbed Wire Extension Arms 6 Strands (Double Arm)	16.06	8.20
32 31 13 13-0676 EA Barbed Wire Eye Tops (For Single Strand)	10.39	6.83
32 31 13 13-0677 Galvanized Steel Concertina (Razor) Wire, Single Coil <small>(32 31 13 13-0670)</small>		
32 31 13 13-0678 LF 18" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain		
Link Fence, Per LF Of Fence	2.48	0.60
For >500 To 1,500, Deduct	-0.23	
For >1,500 To 5,000, Deduct	-0.46	
For >5,000, Deduct	-0.67	
For Ground Installation, Deduct	-0.43	
For Double Coil (Helix), Add	1.63	
32 31 13 13-0679 LF 18" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain		
Link Fence, Per LF Of Fence	3.72	0.60
For >500 To 1,500, Deduct	-0.34	
For >1,500 To 5,000, Deduct	-0.69	
For >5,000, Deduct	-1.00	
For Ground Installation, Deduct	-0.64	
For Double Coil (Helix), Add	2.44	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0680	LF	18" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	4.95	0.60
			<i>For >500 To 1,500, Deduct</i>	-0.46	
			<i>For >1,500 To 5,000, Deduct</i>	-0.91	
			<i>For >5,000, Deduct</i>	-1.33	
			<i>For Ground Installation, Deduct</i>	-0.85	
			<i>For Double Coil (Helix), Add</i>	3.25	
32 31 13	13-0681	LF	24" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence	3.53	0.60
			<i>For >500 To 1,500, Deduct</i>	-0.31	
			<i>For >1,500 To 5,000, Deduct</i>	-0.62	
			<i>For >5,000, Deduct</i>	-0.90	
			<i>For Ground Installation, Deduct</i>	-0.47	
			<i>For Double Coil (Helix), Add</i>	2.59	
32 31 13	13-0682	LF	24" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	5.33	0.60
			<i>For >500 To 1,500, Deduct</i>	-0.47	
			<i>For >1,500 To 5,000, Deduct</i>	-0.94	
			<i>For >5,000, Deduct</i>	-1.35	
			<i>For Ground Installation, Deduct</i>	-0.71	
			<i>For Double Coil (Helix), Add</i>	3.91	
32 31 13	13-0683	LF	24" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	7.04	0.60
			<i>For >500 To 1,500, Deduct</i>	-0.62	
			<i>For >1,500 To 5,000, Deduct</i>	-1.24	
			<i>For >5,000, Deduct</i>	-1.78	
			<i>For Ground Installation, Deduct</i>	-0.94	
			<i>For Double Coil (Helix), Add</i>	5.16	
32 31 13	13-0684	LF	30" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence	8.56	0.60
			<i>For >500 To 1,500, Deduct</i>	-0.70	
			<i>For >1,500 To 5,000, Deduct</i>	-1.39	
			<i>For >5,000, Deduct</i>	-1.93	
			<i>For Ground Installation, Deduct</i>	-0.53	
			<i>For Double Coil (Helix), Add</i>	7.50	
32 31 13	13-0685	LF	30" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	12.93	0.60
			<i>For >500 To 1,500, Deduct</i>	-1.05	
			<i>For >1,500 To 5,000, Deduct</i>	-2.10	
			<i>For >5,000, Deduct</i>	-2.91	
			<i>For Ground Installation, Deduct</i>	-0.80	
			<i>For Double Coil (Helix), Add</i>	11.33	
32 31 13	13-0686	LF	30" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	17.11	0.60
			<i>For >500 To 1,500, Deduct</i>	-1.39	
			<i>For >1,500 To 5,000, Deduct</i>	-2.78	
			<i>For >5,000, Deduct</i>	-3.85	
			<i>For Ground Installation, Deduct</i>	-1.07	
			<i>For Double Coil (Helix), Add</i>	14.98	
32 31 13	13-0687		Stainless Steel Concertina (Razor) Wire, Single Coil <small>(32 31 13 13-0670)</small>		
32 31 13	13-0688	LF	18" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence	3.58	0.60
			<i>For >500 To 1,500, Deduct</i>	-0.31	
			<i>For >1,500 To 5,000, Deduct</i>	-0.62	
			<i>For >5,000, Deduct</i>	-0.89	
			<i>For Ground Installation, Deduct</i>	-0.43	
			<i>For Double Coil (Helix), Add</i>	2.73	
32 31 13	13-0689	LF	18" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	5.40	0.60
			<i>For >500 To 1,500, Deduct</i>	-0.47	
			<i>For >1,500 To 5,000, Deduct</i>	-0.94	
			<i>For >5,000, Deduct</i>	-1.34	
			<i>For Ground Installation, Deduct</i>	-0.64	
			<i>For Double Coil (Helix), Add</i>	4.12	
32 31 13	13-0690	LF	18" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	7.15	0.60
			<i>For >500 To 1,500, Deduct</i>	-0.62	
			<i>For >1,500 To 5,000, Deduct</i>	-1.24	
			<i>For >5,000, Deduct</i>	-1.77	
			<i>For Ground Installation, Deduct</i>	-0.85	
			<i>For Double Coil (Helix), Add</i>	5.45	
32 31 13	13-0691	LF	24" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence	4.46	0.60
			<i>For >500 To 1,500, Deduct</i>	-0.38	
			<i>For >1,500 To 5,000, Deduct</i>	-0.76	
			<i>For >5,000, Deduct</i>	-1.08	
			<i>For Ground Installation, Deduct</i>	-0.47	
			<i>For Double Coil (Helix), Add</i>	3.52	
32 31 13	13-0692	LF	24" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	6.75	0.60
			<i>For >500 To 1,500, Deduct</i>	-0.58	
			<i>For >1,500 To 5,000, Deduct</i>	-1.16	
			<i>For >5,000, Deduct</i>	-1.64	
			<i>For Ground Installation, Deduct</i>	-0.71	
			<i>For Double Coil (Helix), Add</i>	5.33	



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0693	LF	24" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	8.91	0.60
			For >500 To 1,500, Deduct	-0.76	
			For >1,500 To 5,000, Deduct	-1.52	
			For >5,000, Deduct	-2.16	
			For Ground Installation, Deduct	-0.94	
			For Double Coil (Helix), Add	7.03	
32 31 13	13-0694	LF	30" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	12.10	0.60
			For >500 To 1,500, Deduct	-0.96	
			For >1,500 To 5,000, Deduct	-1.92	
			For >5,000, Deduct	-2.63	
			For Ground Installation, Deduct	-0.53	
			For Double Coil (Helix), Add	11.04	
32 31 13	13-0695	LF	30" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	18.30	0.60
			For >500 To 1,500, Deduct	-1.45	
			For >1,500 To 5,000, Deduct	-2.91	
			For >5,000, Deduct	-3.98	
			For Ground Installation, Deduct	-0.80	
			For Double Coil (Helix), Add	16.70	
32 31 13	13-0696	LF	30" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	24.19	0.60
			For >500 To 1,500, Deduct	-1.92	
			For >1,500 To 5,000, Deduct	-3.84	
			For >5,000, Deduct	-5.26	
			For Ground Installation, Deduct	-1.07	
			For Double Coil (Helix), Add	22.06	
32 31 13	13-0697		Grounding For Gates (32 31 13 13-0699) Note: Includes two of each of the following per opening: 5/8 ground rods, clamps, braided straps and #6 bare copper wire.		
32 31 13	13-0698	OPN	Grounding For Gates (Per Opening).....	436.44	
32 31 13	13-0699		Coiled Spring Reinforcing Wire (32 31 13 13-0699)		
32 31 13	13-0700		Galvanized Steel (32 31 13 13-0699)		
32 31 13	13-0701	LF	7 Gauge, Galvanized Steel, Reinforcing Wire Coiled Spring.....	1.02	0.43
32 31 13	13-0702		Vinyl Coated Steel (32 31 13 13-0699)		
32 31 13	13-0703	LF	9 Gauge, Vinyl Coated Steel, Reinforcing Wire Coiled Spring.....	1.02	0.43
32 31 13	13-0704		Bending Of Fabric Around Pipe Railings (32 31 13 13-0669) Note: Only where specified.		
32 31 13	13-0705	LF	Bend Chain Link Fence Fabric Around Pipe Railing, Top.....	1.35	
32 31 13	13-0706	LF	Bend Chain Link Fence Fabric Around Pipe Railing, Bottom.....	1.17	
32 31 13	13-0707		Mounting Plate With Anchors Or Bolts (32 31 13 13-0669) Note: For drilling for anchor or bolts, installing post on or against flat surface.		
32 31 13	13-0708	EA	Mounting Plate For 1-5/8" Diameter Post.....	34.79	
32 31 13	13-0709	EA	Mounting Plate For 2" Diameter Post.....	35.33	
32 31 13	13-0710	EA	Mounting Plate For 2-1/2" Diameter Post.....	36.37	
32 31 13	13-0711	EA	Mounting Plate For 3" Diameter Post.....	43.58	
32 31 13	13-0712	EA	Mounting Plate For 4" Diameter Post.....	49.97	
32 31 13	13-0713	EA	Mounting Plate For 6-5/8" Diameter Post.....	57.70	
32 31 13	13-0714	EA	Mounting Plate For 8-5/8" Diameter Post.....	67.85	
32 31 13	13-0715		Tension Bar (32 31 13 13-0669)		
32 31 13	13-0716	EA	3' Long x 5/8" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	12.62	
32 31 13	13-0717	EA	3-1/2' Long x 5/8" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	13.40	
32 31 13	13-0718	EA	4' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	16.24	
32 31 13	13-0719	EA	5' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	18.70	
32 31 13	13-0720	EA	6' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	21.92	
32 31 13	13-0721	EA	7' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	25.27	
32 31 13	13-0722	EA	8' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	28.52	
32 31 13	13-0723	EA	9' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	34.00	
32 31 13	13-0724	EA	10' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	40.62	
32 31 13	13-0725		Truss Rods (32 31 13 13-0669)		
32 31 13	13-0726	LF	3/8" Diameter Truss Rods.....	1.70	0.47
32 31 13	13-0727		Fence And Gate Repair And Replacement (32 31 13 13)		
32 31 13	13-0728		Fence And Gate Parts Replacement (32 31 13 13-0727)		
32 31 13	13-0729	EA	Cantilever Roller Assembly, Ball Bearing With Fittings, Replacement.....	107.15	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 31 13 13-0730	EA	Sliding Gate Roller Assembly Replacement.....	105.09	
32 31 13 13-0731	EA	Rod And Lock Gate Keeper Replacement.....	106.63	
32 31 13 13-0732	EA	Galvanized Gate Holdback Replacement.....	23.65	
32 31 13 13-0733	LF	3/8" Cross Bracing Rod Replacement.....	1.38	
32 31 13 13-0734	LF	1-5/8" Diagonal Pipe Bracing Replacement.....	2.14	
32 31 13 13-0735	EA	2-3/8" To 2-1/2" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement.....	20.98	
32 31 13 13-0736	EA	2-7/8" To 3" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement.....	24.10	
32 31 13 13-0737	EA	3-1/2" To 4" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement.....	27.24	
32 31 13 13-0738	EA	6-1/2" To 6-5/8" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement.....	40.19	
32 31 13 13-0739	EA	8-5/8" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement.....	71.86	
32 31 13 13-0740	EA	2-1/2" x 2" Off Set Gate Hinge Replacement.....	22.15	
32 31 13 13-0741	EA	3" x 2" Off Set Gate Hinge Replacement.....	23.12	
32 31 13 13-0742	EA	4" x 2" Off Set Gate Hinge Replacement.....	24.68	
32 31 13 13-0743	EA	6-5/8" x 2" Off Set Gate Hinge Replacement.....	40.26	
32 31 13 13-0744	EA	8-5/8" x 2" Off Set Gate Hinge Replacement.....	63.32	
32 31 13 13-0745	EA	1-5/8" Aluminum Die-Cast Post Cap Replacement.....	4.70	
32 31 13 13-0746	EA	2" Aluminum Die-Cast Post Cap Replacement.....	5.16	
32 31 13 13-0747	EA	2-1/2" Aluminum Die-Cast Post Cap Replacement.....	5.93	
32 31 13 13-0748	EA	3" Aluminum Die-Cast Post Cap Replacement.....	6.84	
32 31 13 13-0749	EA	2" Galvanized Post Cap Replacement.....	5.50	
32 31 13 13-0750	EA	2-1/2" Galvanized Post Cap Replacement.....	5.95	
32 31 13 13-0751	EA	3" Galvanized Post Cap Replacement.....	6.81	
32 31 13 13-0752	EA	4" Galvanized Post Cap Replacement.....	10.11	
32 31 13 13-0753	EA	6-5/8" Galvanized Post Cap Replacement.....	18.99	
32 31 13 13-0754	EA	8-5/8" Galvanized Post Cap Replacement.....	31.15	
32 31 13 13-0755	EA	1-5/8" Boulevard Clamp Replacement.....	9.17	
32 31 13 13-0756	EA	2" Boulevard Clamp Replacement.....	11.19	
32 31 13 13-0757	EA	2-1/2" Boulevard Clamp Replacement.....	13.12	
32 31 13 13-0758	EA	3" Boulevard Clamp Replacement.....	15.92	
32 31 13 13-0759	EA	1-5/8" Gate Brace Or End Rail Clamp Replacement.....	8.99	
32 31 13 13-0760	EA	2" Gate Brace Or End Rail Clamp Replacement.....	10.94	
32 31 13 13-0761	EA	2-1/2" Gate Brace Or End Rail Clamp Replacement.....	12.87	
32 31 13 13-0762	EA	3" Gate Brace Or End Rail Clamp Replacement.....	15.66	
32 31 13 13-0763	EA	1-3/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	9.32	
32 31 13 13-0764	EA	1-5/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	9.40	
32 31 13 13-0765	EA	2" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	9.61	
32 31 13 13-0766	EA	2-1/2" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	9.52	
32 31 13 13-0767	EA	3" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	9.67	
32 31 13 13-0768	EA	3-1/2" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	9.81	
32 31 13 13-0769	EA	4" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	10.19	
32 31 13 13-0770	EA	6-5/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	12.97	

32 31 13 13-0771 Removal And Reinstallation Of Chain Link Fences (32 31 13 13)

Note: Includes removal, storage, cleaning and reinstallation of fence fabric, rails and other components. Excludes post work.

32 31 13 13-0772	LF	Removal And Reinstallation Of Chain Link Fence Up To 5' Height.....	17.07	
32 31 13 13-0773	LF	Removal And Reinstallation Of Chain Link Fence 6' To 12' Height.....	25.61	

32 31 13 33 Chain Link Backstops (32 31 13)**32 31 13 33-0001 Regulation Baseball Backstop (32 31 13 33)**

See CSI section 32 31 13 13-0001 for auguring holes and concrete.

32 31 13 33-0002	EA	20'-6" Wide x 13' High Baseball Backstop Prefabricated With Hood, Galvanized.....	10,758.23	1,735.00
32 31 13 33-0003	EA	34' Wide x 17'-6" High Baseball Backstop Prefabricated With Hood, Galvanized.....	15,527.29	2,313.73
32 31 13 33-0004	EA	48'-3-1/2" Wide x 24' High Baseball Backstop Prefabricated With Hood, Galvanized.....	19,799.98	2,699.36
32 31 13 33-0005	EA	20'-6" Wide x 13' High Baseball Backstop Prefabricated With Hood, Vinyl Coated.....	15,132.53	1,735.00
32 31 13 33-0006	EA	34' Wide x 17'-6" High Baseball Backstop Prefabricated With Hood, Vinyl Coated.....	22,072.61	2,313.73
32 31 13 33-0007	EA	48'-3-1/2" Wide x 24' High Baseball Backstop Prefabricated With Hood, Vinyl Coated.....	28,437.56	2,699.36

32 31 13 33-0008 Regulation Softball Backstop (32 31 13 33)

See CSI section 32 31 13 13-0001 for auguring holes and concrete.

32 31 13 33-0009 14' High Softball Backstop (32 31 13 33-0008)

Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.

32 31 13 33-0010	EA	14' Softball Backstop, Galvanized Regulation.....	9,138.83	1,759.46
32 31 13 33-0011	EA	14' Softball Backstop, Vinyl Coated Regulation.....	12,276.15	1,759.46

32 31 13 33-0012 18' High Softball Backstop (32 31 13 33-0008)

Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.

32 31 13 33-0013	EA	18' Softball Backstop, Galvanized Regulation.....	10,671.99	1,956.04
32 31 13 33-0014	EA	18' Softball Backstop Vinyl Coated Regulation.....	14,467.12	1,956.04

32 31 13 33-0015 20' High Softball Backstop (32 31 13 33-0008)

Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.



		Exterior Improvements	32
		Site Improvements	32 30
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 33-0016	EA		20' Softball Backstop, Galvanized Regulation.....	12,088.99	2,062.36
32 31 13 33-0017	EA		20' Softball Backstop, Vinyl Coated Regulation	16,592.59	2,062.36
32 31 13 33-0018			22' High Softball Backstop (32 31 13 33-0008) Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0019	EA		22' Softball Backstop, Galvanized Regulation.....	13,929.23	2,124.58
32 31 13 33-0020	EA		22' Softball Backstop, Vinyl Coated Regulation	19,343.62	2,124.58
32 31 13 33-0021			24' High Softball Backstop (32 31 13 33-0008) Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0022	EA		24' Softball Backstop, Galvanized Regulation.....	16,583.88	2,428.10
32 31 13 33-0023	EA		24' Softball Backstop, Vinyl Coated Regulation	23,313.93	2,428.10
32 31 16			Welded Wire Fences and Gates (32 31)		
32 31 16 00-0001			Welded Wire Fence (32 31 16)		
32 31 16 00-0002			12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh (32 31 16 00-0001) Note: Posts 5' on center.		
32 31 16 00-0003	LF		3' High, 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh, Posts At 5'.....	8.38	1.52
32 31 16 00-0004	LF		5' High, 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh, Posts At 5'.....	9.03	1.52
32 31 16 00-0005			14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh (32 31 16 00-0001) Note: Posts 5' on center.		
32 31 16 00-0006	LF		3' High, 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh, Posts At 5'.....	8.25	1.52
32 31 16 00-0007	LF		5' High, 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh, Posts At 5'.....	8.82	1.52
32 31 19			Decorative Metal Fences and Gates (32 31) See CSI section 32 31 13 13-0001 for drilling and grouting.		
32 31 19 00-0001			Wrought Iron Fence (32 31 19) Note: Factory primed.		
32 31 19 00-0002			Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center (32 31 19 00-0001) Note: Factory primed.		
32 31 19 00-0003	LF		3' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center	48.34	9.39
			For Verticals Up To 2" On Center, Add	5.91	
			For Verticals >2" To 2-1/2" On Center, Add	2.96	
			For Verticals >3" To 4" On Center, Deduct	-2.96	
			For Verticals >4" To 6" On Center, Deduct	-5.91	
32 31 19 00-0004	LF		4' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center	62.24	11.95
			For Verticals Up To 2" On Center, Add	7.84	
			For Verticals >2" To 2-1/2" On Center, Add	3.92	
			For Verticals >3" To 4" On Center, Deduct	-3.92	
			For Verticals >4" To 6" On Center, Deduct	-7.84	
32 31 19 00-0005	LF		5' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center	74.51	12.46
			For Verticals Up To 2" On Center, Add	9.88	
			For Verticals >2" To 2-1/2" On Center, Add	4.94	
			For Verticals >3" To 4" On Center, Deduct	-4.94	
			For Verticals >4" To 6" On Center, Deduct	-9.88	
32 31 19 00-0006	LF		6' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center	90.26	15.02
			For Verticals Up To 2" On Center, Add	12.03	
			For Verticals >2" To 2-1/2" On Center, Add	6.02	
			For Verticals >3" To 4" On Center, Deduct	-6.02	
			For Verticals >4" To 6" On Center, Deduct	-12.03	
32 31 19 00-0007	LF		7' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center	106.55	15.90
			For Verticals Up To 2" On Center, Add	14.95	
			For Verticals >2" To 2-1/2" On Center, Add	7.48	
			For Verticals >3" To 4" On Center, Deduct	-7.48	
			For Verticals >4" To 6" On Center, Deduct	-14.95	
32 31 19 00-0008	LF		8' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center	122.83	16.73
			For Verticals Up To 2" On Center, Add	17.87	
			For Verticals >2" To 2-1/2" On Center, Add	8.94	
			For Verticals >3" To 4" On Center, Deduct	-8.94	
			For Verticals >4" To 6" On Center, Deduct	-17.87	
32 31 19 00-0009	LF		10' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center	150.12	18.78
			For Verticals Up To 2" On Center, Add	22.51	
			For Verticals >2" To 2-1/2" On Center, Add	11.26	
			For Verticals >3" To 4" On Center, Deduct	-11.26	
			For Verticals >4" To 6" On Center, Deduct	-22.51	
32 31 19 00-0010	LF		12' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center	177.85	21.34
			For Verticals Up To 2" On Center, Add	27.03	
			For Verticals >2" To 2-1/2" On Center, Add	13.52	
			For Verticals >3" To 4" On Center, Deduct	-13.52	
			For Verticals >4" To 6" On Center, Deduct	-27.03	
32 31 19 00-0011			Wrought Iron Gates (32 31 19 00-0001) Note: Factory primed.		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0012		Single Wrought Iron Gates (32 31 19 00-0011) Note: Factory primed.		
32 31 19 00-0013	LF	3' Single Wrought Iron Gate, Hardware And Associated Trim.....	59.75	11.44
32 31 19 00-0014	LF	4' Single Wrought Iron Gate, Hardware And Associated Trim.....	78.43	14.17
32 31 19 00-0015	LF	5' Single Wrought Iron Gate, Hardware And Associated Trim.....	96.12	17.07
32 31 19 00-0016	LF	6' Single Wrought Iron Gate, Hardware And Associated Trim.....	116.92	20.49
32 31 19 00-0017	LF	8' Single Wrought Iron Gate, Hardware And Associated Trim.....	158.80	22.71
32 31 19 00-0018	LF	10' Single Wrought Iron Gate, Hardware And Associated Trim.....	193.23	25.10
32 31 19 00-0019	LF	12' Single Wrought Iron Gate, Hardware And Associated Trim.....	227.00	28.51
32 31 19 00-0020		Double Wrought Iron Gates (32 31 19 00-0011) Note: Factory primed.		
32 31 19 00-0021	LF	3' Double Wrought Iron Gate, Hardware And Associated Trim.....	73.22	10.25
32 31 19 00-0022	LF	4' Double Wrought Iron Gate, Hardware And Associated Trim.....	96.29	12.80
32 31 19 00-0023	LF	5' Double Wrought Iron Gate, Hardware And Associated Trim.....	117.55	15.36
32 31 19 00-0024	LF	6' Double Wrought Iron Gate, Hardware And Associated Trim.....	142.65	18.44
32 31 19 00-0025	LF	8' Double Wrought Iron Gate, Hardware And Associated Trim.....	194.58	20.49
32 31 19 00-0026	LF	10' Double Wrought Iron Gate, Hardware And Associated Trim.....	237.17	22.54
32 31 19 00-0027	LF	12' Double Wrought Iron Gate, Hardware And Associated Trim.....	279.06	25.61
32 31 19 00-0028		Repair Or Replace Wrought Iron Fence (32 31 19 00-0001)		
32 31 19 00-0029	LF	Removal And Replacement Of Wrought Iron Picket.....	17.53	
32 31 19 00-0030	LF	Removal And Replacement Of Wrought Iron Post.....	26.51	
32 31 19 00-0031	EA	Straighten Wrought Iron Post.....	68.30	
32 31 19 00-0032		Steel Tube Fence, Powder Coated (32 31 19) Note: Pickets are 3/4" square x 16 gauge.		
32 31 19 00-0033		Steel Tube Fence, 2 Rail (32 31 19 00-0032)		
32 31 19 00-0034	LF	3' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts.....	59.87	9.39
		For Verticals Up To 2" On Center, Add	8.29	
		For Verticals >2" To 2-1/2" On Center, Add	4.15	
		For Verticals >3" To 4" On Center, Deduct	-4.15	
		For Verticals >4" To 6" On Center, Deduct	-8.29	
		For Solid Pickets, Add	12.09	
		For Aluminum With Satin Finish, Add	9.68	
		For Third Rail, Add	3.11	
		For 1" Square x 14 Gauge Pickets, Add	10.37	
		For 3" Square Posts, Add	4.15	
32 31 19 00-0035	LF	3'-6" Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts.....	64.08	10.03
		For Verticals Up To 2" On Center, Add	8.80	
		For Verticals >2" To 2-1/2" On Center, Add	4.40	
		For Verticals >3" To 4" On Center, Deduct	-4.40	
		For Verticals >4" To 6" On Center, Deduct	-8.80	
		For Solid Pickets, Add	12.91	
		For Aluminum With Satin Finish, Add	10.19	
		For Third Rail, Add	3.30	
		For 1" Square x 14 Gauge Pickets, Add	11.00	
		For 3" Square Posts, Add	4.40	
32 31 19 00-0036	LF	4' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts.....	67.82	11.10
		For Verticals Up To 2" On Center, Add	9.21	
		For Verticals >2" To 2-1/2" On Center, Add	4.61	
		For Verticals >3" To 4" On Center, Deduct	-4.61	
		For Verticals >4" To 6" On Center, Deduct	-9.21	
		For Solid Pickets, Add	13.63	
		For Aluminum With Satin Finish, Add	10.55	
		For Third Rail, Add	3.45	
		For 1" Square x 14 Gauge Pickets, Add	11.52	
		For 3" Square Posts, Add	4.61	
32 31 19 00-0037	LF	5' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts.....	72.31	12.46
		For Verticals Up To 2" On Center, Add	9.44	
		For Verticals >2" To 2-1/2" On Center, Add	4.72	
		For Verticals >3" To 4" On Center, Deduct	-4.72	
		For Verticals >4" To 6" On Center, Deduct	-9.44	
		For Solid Pickets, Add	14.39	
		For Aluminum With Satin Finish, Add	10.40	
		For Third Rail, Add	3.54	
		For 1" Square x 14 Gauge Pickets, Add	11.80	
		For 3" Square Posts, Add	4.72	
32 31 19 00-0038	LF	6' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts.....	83.82	14.08
		For Verticals Up To 2" On Center, Add	11.13	
		For Verticals >2" To 2-1/2" On Center, Add	5.57	
		For Verticals >3" To 4" On Center, Deduct	-5.57	
		For Verticals >4" To 6" On Center, Deduct	-11.13	
		For Solid Pickets, Add	16.75	
		For Aluminum With Satin Finish, Add	12.47	
		For Third Rail, Add	4.17	
		For 1" Square x 14 Gauge Pickets, Add	13.91	
		For 3" Square Posts, Add	5.57	



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		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0039 LF 7' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	95.94	15.36
For Verticals Up To 2" On Center, Add	13.04	
For Verticals >2" To 2-1/2" On Center, Add	6.52	
For Verticals >3" To 4" On Center, Deduct	-6.52	
For Verticals >4" To 6" On Center, Deduct	-13.04	
For Solid Pickets, Add	19.28	
For Aluminum With Satin Finish, Add	14.95	
For Third Rail, Add	4.89	
For 1" Square x 14 Gauge Pickets, Add	16.30	
For 4" Square Posts, Add	22.82	
32 31 19 00-0040 LF 8' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	108.22	16.73
For Verticals Up To 2" On Center, Add	14.95	
For Verticals >2" To 2-1/2" On Center, Add	7.48	
For Verticals >3" To 4" On Center, Deduct	-7.48	
For Verticals >4" To 6" On Center, Deduct	-14.95	
For Solid Pickets, Add	21.84	
For Aluminum With Satin Finish, Add	17.40	
For Third Rail, Add	5.61	
For 1" Square x 14 Gauge Pickets, Add	18.69	
For 4" Square Posts, Add	26.16	
32 31 19 00-0041 LF 9' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	125.73	17.93
For Verticals Up To 2" On Center, Add	17.98	
For Verticals >2" To 2-1/2" On Center, Add	8.99	
For Verticals >3" To 4" On Center, Deduct	-8.99	
For Verticals >4" To 6" On Center, Deduct	-17.98	
For Solid Pickets, Add	25.60	
For Aluminum With Satin Finish, Add	21.59	
For Third Rail, Add	6.74	
For 1" Square x 14 Gauge Pickets, Add	22.47	
For 4" Square Posts, Add	31.46	
32 31 19 00-0042 LF 10' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts.....	143.42	19.21
For Verticals Up To 2" On Center, Add	21.00	
For Verticals >2" To 2-1/2" On Center, Add	10.50	
For Verticals >3" To 4" On Center, Deduct	-10.50	
For Verticals >4" To 6" On Center, Deduct	-21.00	
For Solid Pickets, Add	29.39	
For Aluminum With Satin Finish, Add	25.74	
For Third Rail, Add	7.88	
For 1" Square x 14 Gauge Pickets, Add	26.25	
For 6" Square Posts, Add	36.75	
32 31 19 00-0043 LF 12' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts.....	168.88	21.34
For Verticals Up To 2" On Center, Add	25.24	
For Verticals >2" To 2-1/2" On Center, Add	12.62	
For Verticals >3" To 4" On Center, Deduct	-12.62	
For Verticals >4" To 6" On Center, Deduct	-25.24	
For Solid Pickets, Add	34.80	
For Aluminum With Satin Finish, Add	31.45	
For Third Rail, Add	9.46	
For 1" Square x 14 Gauge Pickets, Add	31.55	
For 6" Square Posts, Add	44.17	
32 31 19 00-0044 LF 14' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts.....	180.91	23.05
For Verticals Up To 2" On Center, Add	26.96	
For Verticals >2" To 2-1/2" On Center, Add	13.48	
For Verticals >3" To 4" On Center, Deduct	-13.48	
For Verticals >4" To 6" On Center, Deduct	-26.96	
For Solid Pickets, Add	37.25	
For Aluminum With Satin Finish, Add	33.53	
For Third Rail, Add	10.11	
For 1" Square x 14 Gauge Pickets, Add	33.70	
For 6" Square Posts, Add	47.18	
32 31 19 00-0045 Steel Tube Swing Gates (32 31 19 00-0032)		
32 31 19 00-0046 3' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)		
32 31 19 00-0047 EA 3' Wide x 3' High Steel Tube Single Swing Gate.....	707.11	18.19
Note: Includes mounting hardware and associated trim.		
For Solid Pickets, Add	155.00	
For Aluminum With Satin Finish, Add	187.55	
For Third Rail, Add	48.94	
For 1" Square x 14 Gauge Pickets, Add	65.25	
32 31 19 00-0048 EA 3'-6" Wide x 3' High Steel Tube Single Swing Gate.....	787.47	19.04
Note: Includes mounting hardware and associated trim.		
For Solid Pickets, Add	172.89	
For Aluminum With Satin Finish, Add	210.50	
For Third Rail, Add	54.77	
For 1" Square x 14 Gauge Pickets, Add	73.03	
32 31 19 00-0049 EA 4' Wide x 3' High Steel Tube Single Swing Gate.....	872.21	20.15
Note: Includes mounting hardware and associated trim.		
For Solid Pickets, Add	191.70	
For Aluminum With Satin Finish, Add	234.39	
For Third Rail, Add	60.87	
For 1" Square x 14 Gauge Pickets, Add	81.16	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0050	EA		5' Wide x 3' High Steel Tube Single Swing Gate.....	917.14	21.60
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	201.49	
			For Aluminum With Satin Finish, Add	245.95	
			For Third Rail, Add	63.92	
			For 1" Square x 14 Gauge Pickets, Add	85.23	
32 31 19 00-0051	EA		6' Wide x 3' High Steel Tube Single Swing Gate.....	1,023.68	25.86
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	224.50	
			For Aluminum With Satin Finish, Add	272.14	
			For Third Rail, Add	70.95	
			For 1" Square x 14 Gauge Pickets, Add	94.60	
32 31 19 00-0052	EA		7' Wide x 3' High Steel Tube Single Swing Gate.....	1,087.75	30.14
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	237.96	
			For Aluminum With Satin Finish, Add	285.60	
			For Third Rail, Add	74.79	
			For 1" Square x 14 Gauge Pickets, Add	99.73	
32 31 19 00-0053	EA		8' Wide x 3' High Steel Tube Single Swing Gate.....	1,186.29	34.66
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	259.10	
			For Aluminum With Satin Finish, Add	309.02	
			For Third Rail, Add	81.16	
			For 1" Square x 14 Gauge Pickets, Add	108.21	
32 31 19 00-0054	EA		9' Wide x 3' High Steel Tube Single Swing Gate.....	1,271.58	38.92
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	277.33	
			For Aluminum With Satin Finish, Add	328.85	
			For Third Rail, Add	86.60	
			For 1" Square x 14 Gauge Pickets, Add	115.46	
32 31 19 00-0055	EA		10' Wide x 3' High Steel Tube Single Swing Gate.....	1,346.28	43.20
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	293.18	
			For Aluminum With Satin Finish, Add	345.49	
			For Third Rail, Add	91.24	
			For 1" Square x 14 Gauge Pickets, Add	121.65	
32 31 19 00-0056	EA		6' Wide x 3' High Steel Tube Double Swing Gate.....	1,479.45	36.37
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	324.68	
			For Aluminum With Satin Finish, Add	394.66	
			For Third Rail, Add	102.76	
			For 1" Square x 14 Gauge Pickets, Add	137.02	
32 31 19 00-0057	EA		7' Wide x 3' High Steel Tube Double Swing Gate.....	1,576.69	38.07
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	346.18	
			For Aluminum With Satin Finish, Add	421.53	
			For Third Rail, Add	109.67	
			For 1" Square x 14 Gauge Pickets, Add	146.23	
32 31 19 00-0058	EA		8' Wide x 3' High Steel Tube Double Swing Gate.....	1,744.43	40.37
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	383.41	
			For Aluminum With Satin Finish, Add	468.78	
			For Third Rail, Add	121.74	
			For 1" Square x 14 Gauge Pickets, Add	162.32	
32 31 19 00-0059	EA		9' Wide x 3' High Steel Tube Double Swing Gate.....	1,828.27	41.83
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	401.95	
			For Aluminum With Satin Finish, Add	492.01	
			For Third Rail, Add	127.71	
			For 1" Square x 14 Gauge Pickets, Add	170.28	
32 31 19 00-0060	EA		10' Wide x 3' High Steel Tube Double Swing Gate.....	1,896.19	43.20
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	416.91	
			For Aluminum With Satin Finish, Add	510.47	
			For Third Rail, Add	132.48	
			For 1" Square x 14 Gauge Pickets, Add	176.64	
32 31 19 00-0061	EA		12' Wide x 3' High Steel Tube Double Swing Gate.....	2,132.21	51.73
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	468.10	
			For Aluminum With Satin Finish, Add	569.75	
			For Third Rail, Add	148.26	
			For 1" Square x 14 Gauge Pickets, Add	197.69	
32 31 19 00-0062	EA		14' Wide x 3' High Steel Tube Double Swing Gate.....	2,334.64	60.27
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	511.72	
			For Aluminum With Satin Finish, Add	618.96	
			For Third Rail, Add	161.53	
			For 1" Square x 14 Gauge Pickets, Add	215.37	
32 31 19 00-0063	EA		16' Wide x 3' High Steel Tube Double Swing Gate.....	2,503.41	69.40
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	547.65	
			For Aluminum With Satin Finish, Add	657.29	
			For Third Rail, Add	172.13	
			For 1" Square x 14 Gauge Pickets, Add	229.51	



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	19 00-0064	EA	18' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	2,643.96 577.35 687.93 180.75 241.01	77.86
32 31	19 00-0065	EA	20' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	2,757.98 601.08 710.61 187.39 249.85	86.39
32 31	19 00-0066		4' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)		
32 31	19 00-0067	EA	3' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	817.95 179.72 219.46 57.02 76.03	17.07
32 31	19 00-0068	EA	3'-6" Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	885.51 194.76 238.76 61.93 82.58	19.89
32 31	19 00-0069	EA	4' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	955.19 210.12 257.75 66.84 89.12	21.34
32 31	19 00-0070	EA	5' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,012.52 222.69 273.02 70.82 94.42	22.71
32 31	19 00-0071	EA	6' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,089.82 239.06 290.07 75.59 100.79	27.31
32 31	19 00-0072	EA	7' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,195.43 261.80 315.60 82.49 109.98	31.84
32 31	19 00-0073	EA	8' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,341.71 293.69 353.34 92.43 123.24	36.37
32 31	19 00-0074	EA	9' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,484.43 324.78 390.02 102.11 136.15	40.97
32 31	19 00-0075	EA	10' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,620.10 354.28 424.57 111.26 148.35	45.50
32 31	19 00-0076	EA	6' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,635.90 359.43 438.91 114.05 152.07	38.41
32 31	19 00-0077	EA	7' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,771.01 389.51 477.52 123.86 165.15	39.78

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0078	EA		8' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,910.40	42.69
			<i>For Solid Pickets, Add</i>	420.24	
			<i>For Aluminum With Satin Finish, Add</i>	515.50	
			<i>For Third Rail, Add</i>	133.68	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	178.24	
32 31 19 00-0079	EA		9' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,020.76	44.05
			<i>For Solid Pickets, Add</i>	444.75	
			<i>For Aluminum With Satin Finish, Add</i>	546.68	
			<i>For Third Rail, Add</i>	141.63	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	188.84	
32 31 19 00-0080	EA		10' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,113.43	45.50
			<i>For Solid Pickets, Add</i>	465.28	
			<i>For Aluminum With Satin Finish, Add</i>	572.57	
			<i>For Third Rail, Add</i>	148.26	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	197.69	
32 31 19 00-0081	EA		12' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,397.14	54.55
			<i>For Solid Pickets, Add</i>	527.06	
			<i>For Aluminum With Satin Finish, Add</i>	645.39	
			<i>For Third Rail, Add</i>	167.49	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	223.32	
32 31 19 00-0082	EA		14' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,645.48	63.68
			<i>For Solid Pickets, Add</i>	580.89	
			<i>For Aluminum With Satin Finish, Add</i>	707.60	
			<i>For Third Rail, Add</i>	184.07	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	245.43	
32 31 19 00-0083	EA		16' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,860.22	72.73
			<i>For Solid Pickets, Add</i>	627.16	
			<i>For Aluminum With Satin Finish, Add</i>	759.73	
			<i>For Third Rail, Add</i>	198.13	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	264.17	
32 31 19 00-0084	EA		18' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,044.92	81.87
			<i>For Solid Pickets, Add</i>	666.67	
			<i>For Aluminum With Satin Finish, Add</i>	802.84	
			<i>For Third Rail, Add</i>	209.93	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	279.91	
32 31 19 00-0085	EA		20' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,201.31	91.00
			<i>For Solid Pickets, Add</i>	699.81	
			<i>For Aluminum With Satin Finish, Add</i>	837.47	
			<i>For Third Rail, Add</i>	219.61	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	292.81	
32 31 19 00-0086			5' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)		
32 31 19 00-0087	EA		3' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	890.81	19.89
			<i>For Solid Pickets, Add</i>	195.95	
			<i>For Aluminum With Satin Finish, Add</i>	240.35	
			<i>For Third Rail, Add</i>	62.33	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	83.11	
32 31 19 00-0088	EA		3'-6" Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	939.28	21.34
			<i>For Solid Pickets, Add</i>	206.54	
			<i>For Aluminum With Satin Finish, Add</i>	252.98	
			<i>For Third Rail, Add</i>	65.64	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	87.53	
32 31 19 00-0089	EA		4' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	986.00	22.71
			<i>For Solid Pickets, Add</i>	216.73	
			<i>For Aluminum With Satin Finish, Add</i>	265.07	
			<i>For Third Rail, Add</i>	68.83	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	91.77	
32 31 19 00-0090	EA		5' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,053.91	24.16
			<i>For Solid Pickets, Add</i>	231.69	
			<i>For Aluminum With Satin Finish, Add</i>	283.52	
			<i>For Third Rail, Add</i>	73.60	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	98.14	
32 31 19 00-0091	EA		6' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,144.45	29.02
			<i>For Solid Pickets, Add</i>	250.97	
			<i>For Aluminum With Satin Finish, Add</i>	304.15	
			<i>For Third Rail, Add</i>	79.30	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	105.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0092 EA 7' Wide x 5' High Steel Tube Single Swing Gate.....	1,265.07	33.81
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	277.02	
<i>For Aluminum With Satin Finish, Add</i>	333.81	
<i>For Third Rail, Add</i>	87.26	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	116.35	
32 31 19 00-0093 EA 8' Wide x 5' High Steel Tube Single Swing Gate.....	1,434.27	38.92
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	313.94	
<i>For Aluminum With Satin Finish, Add</i>	377.65	
<i>For Third Rail, Add</i>	98.80	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	131.73	
32 31 19 00-0094 EA 9' Wide x 5' High Steel Tube Single Swing Gate.....	1,599.07	43.80
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	349.93	
<i>For Aluminum With Satin Finish, Add</i>	420.56	
<i>For Third Rail, Add</i>	110.07	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	146.76	
32 31 19 00-0095 EA 10' Wide x 5' High Steel Tube Single Swing Gate.....	1,760.34	48.57
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	385.13	
<i>For Aluminum With Satin Finish, Add</i>	462.42	
<i>For Third Rail, Add</i>	121.08	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	161.44	
32 31 19 00-0096 EA 6' Wide x 5' High Steel Tube Double Swing Gate.....	1,757.89	33.55
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	388.34	
<i>For Aluminum With Satin Finish, Add</i>	484.27	
<i>For Third Rail, Add</i>	124.66	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	166.21	
32 31 19 00-0097 EA 7' Wide x 5' High Steel Tube Double Swing Gate.....	1,860.49	39.09
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	410.23	
<i>For Aluminum With Satin Finish, Add</i>	507.86	
<i>For Third Rail, Add</i>	131.16	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	174.88	
32 31 19 00-0098 EA 8' Wide x 5' High Steel Tube Double Swing Gate.....	1,964.04	44.99
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	432.26	
<i>For Aluminum With Satin Finish, Add</i>	531.32	
<i>For Third Rail, Add</i>	137.65	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	183.54	
32 31 19 00-0099 EA 9' Wide x 5' High Steel Tube Double Swing Gate.....	2,107.31	50.62
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	463.30	
<i>For Aluminum With Satin Finish, Add</i>	567.12	
<i>For Third Rail, Add</i>	147.20	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	196.27	
32 31 19 00-0100 EA 10' Wide x 5' High Steel Tube Double Swing Gate.....	2,232.90	56.17
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	490.36	
<i>For Aluminum With Satin Finish, Add</i>	597.61	
<i>For Third Rail, Add</i>	155.42	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	207.23	
32 31 19 00-0101 EA 12' Wide x 5' High Steel Tube Double Swing Gate.....	2,542.49	62.49
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	558.68	
<i>For Aluminum With Satin Finish, Add</i>	682.46	
<i>For Third Rail, Add</i>	177.31	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	236.41	
32 31 19 00-0102 EA 14' Wide x 5' High Steel Tube Double Swing Gate.....	2,820.38	69.32
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	619.73	
<i>For Aluminum With Satin Finish, Add</i>	756.95	
<i>For Third Rail, Add</i>	196.67	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	262.22	
32 31 19 00-0103 EA 16' Wide x 5' High Steel Tube Double Swing Gate.....	3,068.30	76.91
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	673.89	
<i>For Aluminum With Satin Finish, Add</i>	821.61	
<i>For Third Rail, Add</i>	213.64	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	284.86	
32 31 19 00-0104 EA 18' Wide x 5' High Steel Tube Double Swing Gate.....	3,290.76	85.45
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	722.11	
<i>For Aluminum With Satin Finish, Add</i>	877.36	
<i>For Third Rail, Add</i>	228.50	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	304.66	
32 31 19 00-0105 EA 20' Wide x 5' High Steel Tube Double Swing Gate.....	3,487.74	95.01
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	764.39	
<i>For Aluminum With Satin Finish, Add</i>	924.20	
<i>For Third Rail, Add</i>	241.23	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	321.64	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
32 31 19 00-0106		6' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)			
32 31 19 00-0107	EA	3' Wide x 6' High Steel Tube Single Swing Gate.....	926.85		21.86
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	203.61		
		For Aluminum With Satin Finish, Add	248.47		
		For Third Rail, Add	64.58		
		For 1" Square x 14 Gauge Pickets, Add	86.11		
32 31 19 00-0108	EA	3'-6" Wide x 6' High Steel Tube Single Swing Gate	974.47		23.05
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	214.07		
		For Aluminum With Satin Finish, Add	261.22		
		For Third Rail, Add	67.90		
		For 1" Square x 14 Gauge Pickets, Add	90.53		
32 31 19 00-0109	EA	4' Wide x 6' High Steel Tube Single Swing Gate.....	1,022.69		24.33
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	224.62		
		For Aluminum With Satin Finish, Add	273.88		
		For Third Rail, Add	71.21		
		For 1" Square x 14 Gauge Pickets, Add	94.95		
32 31 19 00-0110	EA	5' Wide x 6' High Steel Tube Single Swing Gate.....	1,082.03		25.86
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	237.63		
		For Aluminum With Satin Finish, Add	289.65		
		For Third Rail, Add	75.33		
		For 1" Square x 14 Gauge Pickets, Add	100.43		
32 31 19 00-0111	EA	6' Wide x 6' High Steel Tube Single Swing Gate.....	1,213.17		31.25
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	265.92		
		For Aluminum With Satin Finish, Add	321.70		
		For Third Rail, Add	83.95		
		For 1" Square x 14 Gauge Pickets, Add	111.93		
32 31 19 00-0112	EA	7' Wide x 6' High Steel Tube Single Swing Gate.....	1,353.15		36.71
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	296.20		
		For Aluminum With Satin Finish, Add	356.40		
		For Third Rail, Add	93.23		
		For 1" Square x 14 Gauge Pickets, Add	124.30		
32 31 19 00-0113	EA	8' Wide x 6' High Steel Tube Single Swing Gate.....	1,509.98		41.83
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	330.33		
		For Aluminum With Satin Finish, Add	396.53		
		For Third Rail, Add	103.84		
		For 1" Square x 14 Gauge Pickets, Add	138.45		
32 31 19 00-0114	EA	9' Wide x 6' High Steel Tube Single Swing Gate.....	1,660.59		47.21
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	363.00		
		For Aluminum With Satin Finish, Add	434.41		
		For Third Rail, Add	113.92		
		For 1" Square x 14 Gauge Pickets, Add	151.89		
32 31 19 00-0115	EA	10' Wide x 6' High Steel Tube Single Swing Gate.....	1,844.78		52.58
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	403.23		
		For Aluminum With Satin Finish, Add	482.37		
		For Third Rail, Add	126.51		
		For 1" Square x 14 Gauge Pickets, Add	168.69		
32 31 19 00-0116	EA	6' Wide x 6' High Steel Tube Double Swing Gate	1,825.53		36.19
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	403.00		
		For Aluminum With Satin Finish, Add	501.17		
		For Third Rail, Add	129.17		
		For 1" Square x 14 Gauge Pickets, Add	172.22		
32 31 19 00-0117	EA	7' Wide x 6' High Steel Tube Double Swing Gate	1,931.77		42.43
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	425.56		
		For Aluminum With Satin Finish, Add	525.02		
		For Third Rail, Add	135.80		
		For 1" Square x 14 Gauge Pickets, Add	181.06		
32 31 19 00-0118	EA	8' Wide x 6' High Steel Tube Double Swing Gate	2,037.09		48.32
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	447.99		
		For Aluminum With Satin Finish, Add	549.01		
		For Third Rail, Add	142.43		
		For 1" Square x 14 Gauge Pickets, Add	189.91		
32 31 19 00-0119	EA	9' Wide x 6' High Steel Tube Double Swing Gate	2,164.56		54.55
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	475.34		
		For Aluminum With Satin Finish, Add	579.22		
		For Third Rail, Add	150.65		
		For 1" Square x 14 Gauge Pickets, Add	200.87		
32 31 19 00-0120	EA	10' Wide x 6' High Steel Tube Double Swing Gate	2,366.29		60.78
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	519.39		
		For Aluminum With Satin Finish, Add	631.71		
		For Third Rail, Add	164.44		
		For 1" Square x 14 Gauge Pickets, Add	219.26		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0121 EA 12' Wide x 6' High Steel Tube Double Swing Gate	2,776.78	67.70
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	610.27	
<i>For Aluminum With Satin Finish, Add</i>	745.99	
<i>For Third Rail, Add</i>	193.75	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	258.33	
32 31 19 00-0122 EA 14' Wide x 6' High Steel Tube Double Swing Gate	2,905.40	75.63
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	637.52	
<i>For Aluminum With Satin Finish, Add</i>	774.43	
<i>For Third Rail, Add</i>	201.71	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	268.94	
32 31 19 00-0123 EA 16' Wide x 6' High Steel Tube Double Swing Gate	3,189.75	84.17
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	699.66	
<i>For Aluminum With Satin Finish, Add</i>	848.75	
<i>For Third Rail, Add</i>	221.20	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	294.94	
32 31 19 00-0124 EA 18' Wide x 6' High Steel Tube Double Swing Gate	3,450.38	93.65
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	756.26	
<i>For Aluminum With Satin Finish, Add</i>	914.69	
<i>For Third Rail, Add</i>	238.71	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	318.28	
32 31 19 00-0125 EA 20' Wide x 6' High Steel Tube Double Swing Gate	3,691.79	104.49
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	808.26	
<i>For Aluminum With Satin Finish, Add</i>	973.16	
<i>For Third Rail, Add</i>	254.49	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	339.32	
32 31 19 00-0126 7' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)		
32 31 19 00-0127 EA 3' Wide x 7' High Steel Tube Single Swing Gate	981.73	23.65
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	215.56	
<i>For Aluminum With Satin Finish, Add</i>	262.52	
<i>For Third Rail, Add</i>	68.30	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	91.06	
32 31 19 00-0128 EA 3'-6" Wide x 7' High Steel Tube Single Swing Gate	1,031.46	24.93
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	226.46	
<i>For Aluminum With Satin Finish, Add</i>	275.75	
<i>For Third Rail, Add</i>	71.75	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	95.66	
32 31 19 00-0129 EA 4' Wide x 7' High Steel Tube Single Swing Gate	1,081.37	26.21
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	237.40	
<i>For Aluminum With Satin Finish, Add</i>	288.95	
<i>For Third Rail, Add</i>	75.19	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	100.26	
32 31 19 00-0130 EA 5' Wide x 7' High Steel Tube Single Swing Gate	1,131.34	27.57
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	248.34	
<i>For Aluminum With Satin Finish, Add</i>	302.14	
<i>For Third Rail, Add</i>	78.64	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	104.85	
32 31 19 00-0131 EA 6' Wide x 7' High Steel Tube Single Swing Gate	1,308.41	33.55
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	286.84	
<i>For Aluminum With Satin Finish, Add</i>	347.19	
<i>For Third Rail, Add</i>	90.58	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	120.77	
32 31 19 00-0132 EA 7' Wide x 7' High Steel Tube Single Swing Gate	1,470.47	39.27
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	322.02	
<i>For Aluminum With Satin Finish, Add</i>	388.13	
<i>For Third Rail, Add</i>	101.45	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	135.27	
32 31 19 00-0133 EA 8' Wide x 7' High Steel Tube Single Swing Gate	1,587.42	45.16
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	346.99	
<i>For Aluminum With Satin Finish, Add</i>	415.15	
<i>For Third Rail, Add</i>	108.88	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	145.17	
32 31 19 00-0134 EA 9' Wide x 7' High Steel Tube Single Swing Gate	1,721.19	50.88
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	375.81	
<i>For Aluminum With Satin Finish, Add</i>	447.60	
<i>For Third Rail, Add</i>	117.63	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	156.84	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0135	EA	10' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,885.88	56.86
		<i>For Solid Pickets, Add</i>	411.52	
		<i>For Aluminum With Satin Finish, Add</i>	488.94	
		<i>For Third Rail, Add</i>	128.64	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	171.52	
32 31 19 00-0136	EA	6' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,932.05	38.75
		<i>For Solid Pickets, Add</i>	426.40	
		<i>For Aluminum With Satin Finish, Add</i>	529.76	
		<i>For Third Rail, Add</i>	136.59	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	182.13	
32 31 19 00-0137	EA	7' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,042.78	45.33
		<i>For Solid Pickets, Add</i>	449.91	
		<i>For Aluminum With Satin Finish, Add</i>	554.52	
		<i>For Third Rail, Add</i>	143.49	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	191.32	
32 31 19 00-0138	EA	8' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,154.45	52.24
		<i>For Solid Pickets, Add</i>	473.55	
		<i>For Aluminum With Satin Finish, Add</i>	579.15	
		<i>For Third Rail, Add</i>	150.39	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	200.51	
32 31 19 00-0139	EA	9' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,266.93	58.82
		<i>For Solid Pickets, Add</i>	497.45	
		<i>For Aluminum With Satin Finish, Add</i>	604.44	
		<i>For Third Rail, Add</i>	157.41	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	209.89	
32 31 19 00-0140	EA	10' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,553.66	65.74
		<i>For Solid Pickets, Add</i>	560.49	
		<i>For Aluminum With Satin Finish, Add</i>	681.58	
		<i>For Third Rail, Add</i>	177.44	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	236.59	
32 31 19 00-0141	EA	12' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,089.81	73.33
		<i>For Solid Pickets, Add</i>	679.50	
		<i>For Aluminum With Satin Finish, Add</i>	832.71	
		<i>For Third Rail, Add</i>	216.03	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	288.04	
32 31 19 00-0142	EA	14' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,051.50	82.21
		<i>For Solid Pickets, Add</i>	668.98	
		<i>For Aluminum With Satin Finish, Add</i>	809.81	
		<i>For Third Rail, Add</i>	211.26	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	281.67	
32 31 19 00-0143	EA	16' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,305.06	91.69
		<i>For Solid Pickets, Add</i>	723.99	
		<i>For Aluminum With Satin Finish, Add</i>	873.62	
		<i>For Third Rail, Add</i>	228.23	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	304.31	
32 31 19 00-0144	EA	18' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,608.36	102.53
		<i>For Solid Pickets, Add</i>	789.91	
		<i>For Aluminum With Satin Finish, Add</i>	950.67	
		<i>For Third Rail, Add</i>	248.65	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	331.54	
32 31 19 00-0145	EA	20' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,806.59	114.39
		<i>For Solid Pickets, Add</i>	831.98	
		<i>For Aluminum With Satin Finish, Add</i>	994.93	
		<i>For Third Rail, Add</i>	260.99	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	347.98	
32 31 19 00-0146		8' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)		
32 31 19 00-0147	EA	3' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,067.01	25.61
		<i>For Solid Pickets, Add</i>	234.32	
		<i>For Aluminum With Satin Finish, Add</i>	285.53	
		<i>For Third Rail, Add</i>	74.26	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	99.02	
32 31 19 00-0148	EA	3'-6" Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,119.03	26.97
		<i>For Solid Pickets, Add</i>	245.70	
		<i>For Aluminum With Satin Finish, Add</i>	299.21	
		<i>For Third Rail, Add</i>	77.84	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	103.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0149 EA 4' Wide x 8' High Steel Tube Single Swing Gate.....	1,174.57	28.42
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	257.88	
<i>For Aluminum With Satin Finish, Add</i>	313.96	
<i>For Third Rail, Add</i>	81.69	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	108.92	
32 31 19 00-0150 EA 5' Wide x 8' High Steel Tube Single Swing Gate.....	1,223.30	31.67
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	268.10	
<i>For Aluminum With Satin Finish, Add</i>	324.15	
<i>For Third Rail, Add</i>	84.61	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	112.81	
32 31 19 00-0151 EA 6' Wide x 8' High Steel Tube Single Swing Gate.....	1,447.86	35.85
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	317.70	
<i>For Aluminum With Satin Finish, Add</i>	385.96	
<i>For Third Rail, Add</i>	100.52	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	134.03	
32 31 19 00-0152 EA 7' Wide x 8' High Steel Tube Single Swing Gate.....	1,609.74	43.20
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	352.46	
<i>For Aluminum With Satin Finish, Add</i>	424.53	
<i>For Third Rail, Add</i>	111.00	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	148.00	
32 31 19 00-0153 EA 8' Wide x 8' High Steel Tube Single Swing Gate.....	1,678.82	50.28
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	366.40	
<i>For Aluminum With Satin Finish, Add</i>	435.65	
<i>For Third Rail, Add</i>	114.58	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	152.77	
32 31 19 00-0154 EA 9' Wide x 8' High Steel Tube Single Swing Gate.....	1,798.28	57.71
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	391.62	
<i>For Aluminum With Satin Finish, Add</i>	461.50	
<i>For Third Rail, Add</i>	121.87	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	162.50	
32 31 19 00-0155 EA 10' Wide x 8' High Steel Tube Single Swing Gate.....	1,901.79	65.13
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	413.24	
<i>For Aluminum With Satin Finish, Add</i>	482.57	
<i>For Third Rail, Add</i>	127.97	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	170.63	
32 31 19 00-0156 EA 6' Wide x 8' High Steel Tube Double Swing Gate.....	2,100.47	41.40
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	463.73	
<i>For Aluminum With Satin Finish, Add</i>	576.90	
<i>For Third Rail, Add</i>	148.66	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	198.22	
32 31 19 00-0157 EA 7' Wide x 8' High Steel Tube Double Swing Gate.....	2,223.90	49.94
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	489.67	
<i>For Aluminum With Satin Finish, Add</i>	602.94	
<i>For Third Rail, Add</i>	156.09	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	208.12	
32 31 19 00-0158 EA 8' Wide x 8' High Steel Tube Double Swing Gate.....	2,344.63	58.14
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	515.08	
<i>For Aluminum With Satin Finish, Add</i>	628.59	
<i>For Third Rail, Add</i>	163.38	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	217.84	
32 31 19 00-0159 EA 9' Wide x 8' High Steel Tube Double Swing Gate.....	2,445.08	66.76
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	535.85	
<i>For Aluminum With Satin Finish, Add</i>	647.75	
<i>For Third Rail, Add</i>	169.08	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	225.45	
32 31 19 00-0160 EA 10' Wide x 8' High Steel Tube Double Swing Gate.....	2,842.58	75.29
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	623.45	
<i>For Aluminum With Satin Finish, Add</i>	756.01	
<i>For Third Rail, Add</i>	197.07	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	262.76	
32 31 19 00-0161 EA 12' Wide x 8' High Steel Tube Double Swing Gate.....	3,547.03	84.77
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	779.91	
<i>For Aluminum With Satin Finish, Add</i>	955.09	
<i>For Third Rail, Add</i>	247.86	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	330.48	
32 31 19 00-0162 EA 14' Wide x 8' High Steel Tube Double Swing Gate.....	3,235.00	95.61
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	707.38	
<i>For Aluminum With Satin Finish, Add</i>	847.53	
<i>For Third Rail, Add</i>	222.13	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	296.17	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0163	EA		16' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,461.64	108.16
			<i>For Solid Pickets, Add</i>	755.70	
			<i>For Aluminum With Satin Finish, Add</i>	899.47	
			<i>For Third Rail, Add</i>	236.45	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	315.27	
32 31 19 00-0164	EA		18' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,814.04	121.90
			<i>For Solid Pickets, Add</i>	832.03	
			<i>For Aluminum With Satin Finish, Add</i>	987.45	
			<i>For Third Rail, Add</i>	259.93	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	346.57	
32 31 19 00-0165	EA		20' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,886.47	137.36
			<i>For Solid Pickets, Add</i>	845.02	
			<i>For Aluminum With Satin Finish, Add</i>	989.31	
			<i>For Third Rail, Add</i>	262.05	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	349.40	
32 31 19 00-0166			Replace Steel Tube Fence Pickets <small>(32 31 19 00-0032)</small>		
32 31 19 00-0167	LF		Removal And Replacement Of 3/4" Square x 16 Gauge Steel Tube Fence Picket..... <i>For 1" Square x 14 Gauge Pickets, Add</i>	24.15 0.71	
32 31 19 00-0168			Removal And Reinstallation Of Ornamental Fences <small>(32 31 19)</small>		
			Note: Including storage and cleaning. Excludes augering and concrete.		
32 31 19 00-0169	LF		Removal And Reinstallation Of Ornamental Fence Up To 5' Height.....	38.41	
32 31 19 00-0170	LF		Removal And Reinstallation Of Ornamental Fence, 6' Height.....	42.26	
32 31 19 00-0171	LF		Removal And Reinstallation Of Ornamental Fence, 7' Height.....	46.10	
32 31 19 00-0172	LF		Removal And Reinstallation Of Ornamental Fence, 8' Height.....	49.94	
32 31 19 00-0173	LF		Removal And Reinstallation Of Ornamental Fence, 9' Height.....	53.79	
32 31 19 00-0174	LF		Removal And Reinstallation Of Ornamental Fence, 10' Height.....	57.62	
32 31 19 00-0175	LF		Removal And Reinstallation Of Ornamental Fence 12' Height.....	64.02	
32 31 23			Plastic Fences and Gates <small>(32 31)</small>		
32 31 23 00-0001			Vinyl Fence <small>(32 31 23)</small>		
32 31 23 00-0002			Privacy Tongue And Groove Vinyl Fence <small>(32 31 23 00-0001)</small>		
			Note: With 1-1/2" x 5-1/2" top and bottom rails, 5" x 5" posts installed 7' centers. Posts include flat cap.		
32 31 23 00-0003	LF		3' High Privacy Tongue And Groove Vinyl Fence	41.96	5.22
32 31 23 00-0004	LF		4' High Privacy Tongue And Groove Vinyl Fence	47.18	6.27
32 31 23 00-0005	LF		5' High Privacy Tongue And Groove Vinyl Fence	52.80	7.31
32 31 23 00-0006	LF		6' High Privacy Tongue And Groove Vinyl Fence	58.31	8.35
32 31 23 00-0007			Semi-Privacy 6" Picket Vinyl Fence <small>(32 31 23 00-0001)</small>		
			Note: With 1-1/2" x 5-1/2" top and bottom rails, 2" x 3-1/2" mid rail, 5" x 5" posts installed 6' centers. Posts include flat cap.		
32 31 23 00-0008	LF		5' High Semi-Privacy 6" Picket Vinyl Fence	56.35	7.31
32 31 23 00-0009	LF		6' High Semi-Privacy 6" Picket Vinyl Fence	61.89	8.35
32 31 23 00-0010			Picket Straight Top Vinyl Fence <small>(32 31 23 00-0001)</small>		
			Note: With 2-1/2" x 3-1/2" top rail, 1-1/2" x 5-1/2" bottom rail, 1-3/8" x 1-3/8" or 1" x 3" pickets, 5" x 5" posts installed 6' centers. Posts include flat cap.		
32 31 23 00-0011	LF		3' High Picket Straight Top Vinyl Fence	38.83	5.22
32 31 23 00-0012	LF		4' High Picket Straight Top Vinyl Fence	44.21	6.27
32 31 23 00-0013	LF		5' High Picket Straight Top Vinyl Fence	50.73	7.31
32 31 23 00-0014	LF		6' High Picket Straight Top Vinyl Fence	56.27	8.35
32 31 23 00-0015			Picket Scalloped Top Vinyl Fence <small>(32 31 23 00-0001)</small>		
			Note: With 2-1/2" x 3-1/2" top rail, 1-1/2" x 5-1/2" bottom rail, 1-3/8" x 1-3/8" or 1" x 3" pickets, 5" x 5" posts installed 6' centers. Posts include flat cap.		
32 31 23 00-0016	LF		3' High Picket Scalloped Top Vinyl Fence	42.86	5.22
32 31 23 00-0017	LF		4' High Picket Scalloped Top Vinyl Fence	48.36	6.27
32 31 23 00-0018	LF		5' High Picket Scalloped Top Vinyl Fence	54.61	7.31
32 31 23 00-0019	LF		6' High Picket Scalloped Top Vinyl Fence	60.28	8.35
32 31 23 00-0020			Post And Rail Vinyl Fence, Ranch Style <small>(32 31 23 00-0001)</small>		
			Note: With 1-1/2" x 5-1/2" rails, 5" x 5" posts installed 8' centers. Posts include flat cap.		
32 31 23 00-0021	LF		5' High, 2 Rail, Post And Rail Vinyl Fence.....	16.82	5.22
32 31 23 00-0022	LF		6-1/2' High, 3 Rail, Post And Rail Vinyl Fence	21.43	6.27
32 31 23 00-0023	LF		7' High, 4 Rail, Post And Rail Vinyl Fence.....	24.53	6.79
32 31 23 00-0024			Post, Rails And Pickets (Traditional Style) Vinyl Fence <small>(32 31 23 00-0001)</small>		
			Note: With top and bottom 3" x 3" rails, 5" x 5" posts and 1-1/2" x 1-1/2" pickets. Posts include flat cap.		
32 31 23 00-0025	LF		3' High Rail And Picket Vinyl Fence, 72" On Center Posts	50.06	5.74



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 23 00-0026	LF		4' High Rail And Picket Vinyl Fence, 72" On Center Posts	54.86	6.79
32 31 23 00-0027	LF		3' High Rail And Picket Vinyl Fence, 96" On Center Posts	47.15	5.22
32 31 23 00-0028	LF		4' High Rail And Picket Vinyl Fence, 96" On Center Posts	51.49	6.27
32 31 23 00-0029			Vinyl Gates <small>(32 31 23)</small>		
32 31 23 00-0030			Gates For Privacy And Semi-Privacy Fences <small>(32 31 23 00-0029)</small>		
			Note: Includes hinges.		
32 31 23 00-0031			3' High Gates For Privacy And Semi-Privacy Fences <small>(32 31 23 00-0030)</small>		
32 31 23 00-0032	EA		3' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	462.32	52.22
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0033	EA		3' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	490.37	54.83
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0034	EA		3' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	537.08	57.45
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0035	EA		3' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	600.39	60.06
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0036			4' High Gates For Privacy And Semi-Privacy Fences <small>(32 31 23 00-0030)</small>		
32 31 23 00-0037	EA		4' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	490.37	54.83
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0038	EA		4' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	508.04	57.45
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0039	EA		4' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	563.05	60.06
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0040	EA		4' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	657.47	62.67
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0041			5' High Gates For Privacy And Semi-Privacy Fences <small>(32 31 23 00-0030)</small>		
32 31 23 00-0042	EA		5' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	508.04	57.45
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0043	EA		5' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	529.85	60.06
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0044	EA		5' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	605.61	62.67
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0045	EA		5' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	704.19	65.28
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0046			6' High Gates For Privacy And Semi-Privacy Fences <small>(32 31 23 00-0030)</small>		
32 31 23 00-0047	EA		6' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	535.07	62.67
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0048	EA		6' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	556.89	65.28
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0049	EA		6' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	667.92	67.89
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0050	EA		6' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	735.38	67.89
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0051			Gates For Picket Fences <small>(32 31 23 00-0029)</small>		
			Note: Includes hinges.		
32 31 23 00-0052			3' High Gates For Picket Fences <small>(32 31 23 00-0051)</small>		
32 31 23 00-0053	EA		3' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	443.65	52.22
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0054	EA		3' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	461.32	54.83
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0055	EA		3' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	516.34	57.45
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 23 00-0056 EA 3' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	610.76 14.50 38.50	60.06
32 31 23 00-0057 4' High Gates For Picket Fences (32 31 23 00-0051)		
32 31 23 00-0058 EA 4' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	448.88 14.50 38.50	54.83
32 31 23 00-0059 EA 4' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	466.54 14.50 38.50	57.45
32 31 23 00-0060 EA 4' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	521.56 14.50 38.50	60.06
32 31 23 00-0061 EA 4' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	615.98 14.50 38.50	62.67
32 31 23 00-0062 5' High Gates For Picket Fences (32 31 23 00-0051)		
32 31 23 00-0063 EA 5' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	466.54 14.50 38.50	57.45
32 31 23 00-0064 EA 5' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	488.36 14.50 38.50	60.06
32 31 23 00-0065 EA 5' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	564.12 14.50 38.50	62.67
32 31 23 00-0066 EA 5' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	662.69 14.50 38.50	65.28
32 31 23 00-0067 6' High Gates For Picket Fences (32 31 23 00-0051)		
32 31 23 00-0068 EA 6' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	493.58 14.50 38.50	62.67
32 31 23 00-0069 EA 6' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	515.40 14.50 38.50	65.28
32 31 23 00-0070 EA 6' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	626.43 14.50 38.50	67.89
32 31 23 00-0071 EA 6' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	693.89 14.50 38.50	70.51
32 31 23 00-0072 Gates Accessories (32 31 23 00-0029)		
32 31 23 00-0073 EA Gate Stop/Drop Rod.....	100.79	
32 31 23 00-0074 EA Latch Set.....	70.70	
32 31 23 00-0075 EA Stainless Steel Latch Set.....	100.79	
32 31 26 Wire Fences and Gates (32 31)		
32 31 26 13 Wire Fences with Steel Posts (32 31 26)		
32 31 26 13-0001 Chicken Wire (32 31 26 13) Note: Posts at 4'.		
32 31 26 13-0002 LF 4' High, 1" Mesh, Chicken Wire Fence, Metal Posts At 4'.....	7.17	1.52
32 31 26 13-0003 LF 6' High, 2" Mesh, Chicken Wire Fence, Metal Posts At 4'.....	7.82	1.52
32 31 26 13-0004 Wire And Screen (32 31 26 13)		
32 31 26 13-0005 Wire And Screen For Partitions And Fences (32 31 26 13-0004) Note: Excludes framing and post.		
32 31 26 13-0006 Screen Wire (32 31 26 13-0005)		
32 31 26 13-0007 LF Screen Wire, 48" Wide Rolls.....	11.52	1.06
32 31 26 13-0008 Hog Wire (32 31 26 13-0005)		
32 31 26 13-0009 SF 4" x 4" Hog Wire For Fencing.....	2.09	0.84
32 31 26 13-0010 SF 6" x 6" Hog Wire For Fencing.....	2.18	0.95
32 31 26 13-0011 Non-Climb Horse Fence (32 31 26 13-0005)		
32 31 26 13-0012 LF 4' Non-Climb Woven, 12.5 Gauge, Horse Fence.....	9.33	3.38
32 31 26 13-0013 LF 5' Non-Climb Woven, 12.5 Gauge, Horse Fence.....	11.93	4.22



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 26 13-0014	LF		6' Non-Climb Woven, 12.5 Gauge, Horse Fence	14.87	5.05
32 31 26 13-0015			Screen For Partitions And Ceilings <small>(32 31 26 13-0004)</small>		
			Note: Can be used to support insulation on walls and ceilings.		
32 31 26 13-0016	SF		1" Mesh Chicken Wire.....	1.83	
32 31 26 13-0017			Wicket Fence <small>(32 31 26 13)</small>		
32 31 26 13-0018	LF		Steel Wicket Fence, Painted.....	54.75	4.61
32 31 29			Wood Fences and Gates <small>(32 31)</small>		
			See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 29 00-0001			Basket Weave <small>(32 31 29)</small>		
			Note: 3/8" x 4" boards, 4" x 4" post		
32 31 29 00-0002	LF		6' High #1 Cedar Basket Weave Fence 3/8" x 4" Boards, 4" x 4" Post	40.61	3.08
			For Fastening With Screws Instead Of Nails, Add	2.35	
32 31 29 00-0003	LF		6' High, Pressure Treated Pine Basket Weave 3/8" x 4" Boards, 4" x 4" Post	26.10	3.08
			For Fastening With Screws Instead Of Nails, Add	1.65	
32 31 29 00-0004			Board Fence <small>(32 31 29)</small>		
			Note: 1x4" board, 2x4" rail, 4x4" post.		
32 31 29 00-0005	LF		Two 2" x 4" Rails, 3' High 1" x 4" Boards, Preservative Treated Board Fence.....	26.10	3.08
			For 1" x 6" Boards, Deduct	-2.61	
			For 1" x 3" Boards (Stockade Top), Add	3.20	
			For Fastening With Screws Instead Of Nails, Add	1.66	
32 31 29 00-0006	LF		Two 2" x 4" Rails, 4' High 1" x 4" Boards, Preservative Treated Board Fence.....	29.16	3.08
			For 1" x 6" Boards, Deduct	-2.85	
			For 1" x 3" Boards (Stockade Top), Add	3.47	
			For Fastening With Screws Instead Of Nails, Add	1.84	
32 31 29 00-0007	LF		Three 2" x 4" Rails, 5' High 1" x 4" Boards, Preservative Treated Board Fence.....	32.82	3.08
			For 1" x 6" Boards, Deduct	-3.06	
			For 1" x 3" Boards (Stockade Top), Add	3.68	
			For Fastening With Screws Instead Of Nails, Add	2.04	
32 31 29 00-0008	LF		Three 2" x 4" Rails, 6' High 1" x 4" Boards, Preservative Treated Board Fence.....	35.15	3.08
			For 1" x 6" Boards, Deduct	-3.22	
			For 1" x 3" Boards (Stockade Top), Add	3.86	
			For Fastening With Screws Instead Of Nails, Add	2.17	
32 31 29 00-0009	LF		Three 2" x 4" Rails, 8' High 1" x 4" Boards, Preservative Treated Board Fence.....	37.67	3.08
			For 1" x 6" Boards, Deduct	-3.39	
			For 1" x 3" Boards (Stockade Top), Add	4.04	
			For Fastening With Screws Instead Of Nails, Add	2.31	
32 31 29 00-0010	LF		Two 2" x 4" Rails, 3' High 1" x 4" #2 Grade Western Cedar Board Fence	28.11	3.08
			For 1" x 6" Boards, Deduct	-2.69	
			For 1" x 3" Boards (Stockade Top), Add	3.26	
			For Fastening With Screws Instead Of Nails, Add	1.76	
32 31 29 00-0011	LF		Two 2" x 4" Rails, 4' High 1" x 4" #2 Grade Western Cedar Board Fence	30.71	3.08
			For 1" x 6" Boards, Deduct	-2.91	
			For 1" x 3" Boards (Stockade Top), Add	3.52	
			For Fastening With Screws Instead Of Nails, Add	1.92	
32 31 29 00-0012	LF		Three 2" x 4" Rails, 5' High 1" x 4" #2 Grade Western Cedar Board Fence.....	32.82	3.08
			For 1" x 6" Boards, Deduct	-3.06	
			For 1" x 3" Boards (Stockade Top), Add	3.68	
			For Fastening With Screws Instead Of Nails, Add	2.04	
32 31 29 00-0013	LF		Three 2" x 4" Rails, 6' High 1" x 4" #2 Grade Western Cedar Board Fence.....	35.15	3.08
			For 1" x 6" Boards, Deduct	-3.22	
			For 1" x 3" Boards (Stockade Top), Add	3.86	
			For Fastening With Screws Instead Of Nails, Add	2.17	
32 31 29 00-0014	LF		Three 2" x 4" Rails, 8' High 1" x 4" #2 Grade Western Cedar Board Fence.....	37.67	3.08
			For 1" x 6" Boards, Deduct	-3.39	
			For 1" x 3" Boards (Stockade Top), Add	4.04	
			For Fastening With Screws Instead Of Nails, Add	2.31	
32 31 29 00-0015	LF		Two 2" x 4" Rails, 3' High 1" x 4" #1 Grade Cedar Board Fence.....	28.12	3.08
			For 1" x 6" Boards, Deduct	-2.69	
			For 1" x 3" Boards (Stockade Top), Add	3.26	
			For Fastening With Screws Instead Of Nails, Add	1.76	
32 31 29 00-0016	LF		Two 2" x 4" Rails, 4' High 1" x 4" #1 Grade Cedar Board Fence.....	37.56	3.08
			For 1" x 6" Boards, Deduct	-3.18	
			For 1" x 3" Boards (Stockade Top), Add	3.72	
			For Fastening With Screws Instead Of Nails, Add	2.26	
32 31 29 00-0017	LF		Three 2" x 4" Rails, 5' High 1" x 4" #1 Grade Cedar Board Fence.....	39.39	3.08
			For 1" x 6" Boards, Deduct	-3.32	
			For 1" x 3" Boards (Stockade Top), Add	3.88	
			For Fastening With Screws Instead Of Nails, Add	2.37	
32 31 29 00-0018	LF		Three 2" x 4" Rails, 6' High 1" x 4" #1 Grade Cedar Board Fence.....	42.50	3.08
			For 1" x 6" Boards, Deduct	-3.51	
			For 1" x 3" Boards (Stockade Top), Add	4.08	
			For Fastening With Screws Instead Of Nails, Add	2.54	
32 31 29 00-0019	LF		Three 2" x 4" Rails, 8' High 1" x 4" #1 Grade Cedar Board Fence.....	45.86	3.08
			For 1" x 6" Boards, Deduct	-3.72	
			For 1" x 3" Boards (Stockade Top), Add	4.29	
			For Fastening With Screws Instead Of Nails, Add	2.72	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 00-0020			Shadow Box <small>(32 31 29)</small> Note: 1x6" board, 2x4" Rail, 4x4" post.		
32 31 29 00-0021	LF		Shadow Box, 3 - 2" x 4" Rails, 6' High 1" x 6" Pressure Treated Pine.....	54.80	3.08
			<i>For Fastening With Screws Instead Of Nails, Add</i>	3.06	
32 31 29 00-0022	LF		Shadow Box, 3 - 2" x 4" Rails, 4' High 1" x 4" #1 Cedar.....	68.94	3.08
			<i>For Fastening With Screws Instead Of Nails, Add</i>	3.83	
32 31 29 00-0023	LF		Shadow Box, 3 - 2" x 4" Rails, 6' High 1" x 4" #1 Cedar.....	75.18	3.08
			<i>For Fastening With Screws Instead Of Nails, Add</i>	4.16	
32 31 29 00-0024	LF		Shadow Box, 3 - 2" x 4" Rails, 8' High 1" x 4" #1 Cedar.....	80.79	3.08
			<i>For Fastening With Screws Instead Of Nails, Add</i>	4.46	
32 31 29 00-0025			Open Rail Fence <small>(32 31 29)</small>		
32 31 29 00-0026			Post And Rail Fence, Ranch Style <small>(32 31 29 00-0025)</small>		
32 31 29 00-0027	LF		Post And Rail Fence, 2 Rails, 3' High #1 Cedar.....	26.01	3.08
32 31 29 00-0028	LF		Post And Rail Fence, 2 Rails, 3' High #2 Cedar.....	19.83	3.08
32 31 29 00-0029	LF		Post And Rail Fence, 3 Rails, 4' High #1 Cedar.....	31.09	3.08
32 31 29 00-0030	LF		Post And Rail Fence, 3 Rails, 4' High #2 Cedar.....	21.45	3.08
32 31 29 00-0031			Split Rail Fence <small>(32 31 29 00-0025)</small>		
32 31 29 00-0032	LF		Split Rail Fence, 2 Rails, 3' High #1 Cedar.....	24.42	3.08
32 31 29 00-0033	LF		Split Rail Fence, 2 Rails, 3' High #2 Cedar.....	19.76	3.08
32 31 29 00-0034	LF		Split Rail Fence, 3 Rail, 4' High #1 Cedar.....	28.05	3.08
32 31 29 00-0035	LF		Split Rail Fence, 3 Rail, 4' High #2 Cedar.....	22.35	3.08
32 31 29 00-0036			Picket Fence <small>(32 31 29)</small>		
32 31 29 00-0037	LF		Picket Fence, 2 Rail, 3' High, Pressure Treated.....	29.04	3.08
			<i>For Fastening With Screws Instead Of Nails, Add</i>	1.82	
32 31 29 00-0038	LF		Picket Fence, 2 Rail, 3' High #1 Cedar.....	27.01	3.08
			<i>For Fastening With Screws Instead Of Nails, Add</i>	1.72	
32 31 29 00-0039			Wood Fence Post Accessories <small>(32 31 29)</small>		
32 31 29 00-0040	EA		3-1/2" x 3-1/2" Copper, Pyramid Slip Over, Wood Fence Post Cap.....	34.96	
32 31 29 00-0041	EA		4" x 4" Copper, Pyramid Slip Over, Wood Fence Post Cap.....	38.86	
32 31 29 00-0042	EA		6" x 6" Copper, Pyramid Slip Over, Wood Fence Post Cap.....	42.42	
32 31 29 00-0043	EA		8" x 8" Copper, Pyramid Slip Over, Wood Fence Post Cap.....	61.57	
32 31 29 00-0044			Wood Gate <small>(32 31 29)</small>		
32 31 29 00-0045			Board Fence Gates, Pressure Treated Wood <small>(32 31 29 00-0044)</small> Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (treated lumber).		
32 31 29 00-0046	EA		3' To 5' High x 3' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	417.76	121.95
32 31 29 00-0047	EA		3' To 5' High x 3'-6" Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	463.69	129.27
32 31 29 00-0048	EA		3' To 5' High x 4' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	519.37	141.46
32 31 29 00-0049	EA		3' To 5' High x 5' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	593.11	148.78
32 31 29 00-0050	EA		3' To 5' High x 6' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	666.85	156.10
32 31 29 00-0051	EA		>5' To 8' High x 3' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	530.58	160.98
32 31 29 00-0052	EA		>5' To 8' High x 3'-6" Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	579.98	168.29
32 31 29 00-0053	EA		>5' To 8' High x 4' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	629.39	175.61
32 31 29 00-0054	EA		>5' To 8' High x 5' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	713.56	182.92
32 31 29 00-0055	EA		>5' To 8' High x 6' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	780.35	190.25
32 31 29 00-0056			Board Fence Gates, Grade 2 Cedar <small>(32 31 29 00-0044)</small> Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (cedar lumber)		
32 31 29 00-0057	EA		3' To 5' High x 3' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	662.22	96.41
32 31 29 00-0058	EA		3' To 5' High x 3'-6" Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	684.22	102.19
32 31 29 00-0059	EA		3' To 5' High x 4' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	717.41	111.83
32 31 29 00-0060	EA		3' To 5' High x 5' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	756.79	117.61
32 31 29 00-0061	EA		3' To 5' High x 6' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	806.61	123.40
32 31 29 00-0062	EA		>5' To 8' High x 3' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	776.07	127.26
32 31 29 00-0063	EA		>5' To 8' High x 3'-6" Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	805.03	133.04
32 31 29 00-0064	EA		>5' To 8' High x 4' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	851.37	138.82
32 31 29 00-0065	EA		>5' To 8' High x 5' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	897.71	144.60
32 31 29 00-0066	EA		>5' To 8' High x 6' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	944.04	150.39
32 31 29 00-0067			Board Fence Gates, Grade 1 Cedar <small>(32 31 29 00-0044)</small> Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (cedar lumber)		
32 31 29 00-0068	EA		3' To 5' High x 3' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	714.37	96.41
32 31 29 00-0069	EA		3' To 5' High x 3'-6" Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	743.33	102.19



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 00-0070 EA 3' To 5' High x 4' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	780.00	111.83
32 31 29 00-0071 EA 3' To 5' High x 5' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	826.34	117.61
32 31 29 00-0072 EA 3' To 5' High x 6' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	872.68	123.40
32 31 29 00-0073 EA >5' To 8' High x 3' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	845.62	127.26
32 31 29 00-0074 EA >5' To 8' High x 3'-6" Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	874.57	133.04
32 31 29 00-0075 EA >5' To 8' High x 4' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	920.91	138.82
32 31 29 00-0076 EA >5' To 8' High x 5' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	967.25	144.60
32 31 29 00-0077 EA >5' To 8' High x 6' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	1,030.97	150.39
32 31 29 00-0078 Pressure Treated Wood Fence Posts <small>(32 31 29)</small> See CSI section 32 31 13 13-0001 for drilling augering, 32 31 13 13-0670 for barbed wire, 32 31 56 00-0017 for barbed wire.		
32 31 29 00-0079 EA 4' High, Pressure Treated Wood Fence Posts, Set In Soil, Earth Fill	39.58	12.20
32 31 29 00-0080 EA 6' High, Pressure Treated Wood Fence Posts, Set In Soil, Earth Fill	45.08	12.20
32 31 29 00-0081 EA 4' High, Pressure Treated Wood Fence Posts, Set In Concrete	69.08	23.41
32 31 29 00-0082 EA 6' High, Pressure Treated Wood Fence Posts, Set In Concrete	75.34	23.41
32 31 29 00-0083 Wood Utility Pole Fence <small>(32 31 29)</small> Note: Excludes post holes. See CSI section 32 31 13 13-0001 for drilling augering and backfill.		
32 31 29 00-0084 LF Wood Utility Pole Barrier Fence	47.66	3.08
Note: Includes notching post, drilling and pinned with #5 rebar.		
32 31 29 00-0085 Wood Rail Fence <small>(32 31 29)</small> Note: 3" diameter treated lodgepole pine rails, 6" diameter treated lodgepole pine post. Posts at 8' centers. Excludes post holes and fill		
32 31 29 00-0086 LF 4' Above Ground Wood Rail Fence, 3 - 3" Diameter Treated Lodgepole Pine Rails, 6" Diameter, 6' Overall Treated Lodgepole Pine Post	22.30	3.08
32 31 41 Precast Concrete Fences <small>(32 31)</small>		
32 31 41 00-0001 Precast Post And Rail Fence, Ranch Style, With Integral Color Concrete. <small>(32 31 41)</small> Note: Includes post holes, fill, spreading of excess material on site. See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 41 00-0002 LF Precast Post And Rail Fence With Integral Color Concrete, 2 Rails, 3' Above Ground With 2' Bury	55.91	3.08
Note: Includes 12" diameter holes with concrete fill for line posts and 18" diameter holes with concrete fill at corners.		
32 31 56 Wild Life Deterrent Fence <small>(32 31)</small>		
32 31 56 00-0001 Barbed Wire Fences <small>(32 31 56)</small> Note: Excludes post holes and fill See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 56 00-0002 Fence Posts <small>(32 31 56 00-0001)</small>		
32 31 56 00-0003 Fence Post Soil, Set In Concrete <small>(32 31 56 00-0002)</small>		
32 31 56 00-0004 EA Barbed Wire Fence Post, Galvanized Set In Concrete In Soil	84.84	6.83
For Bracing On Corner Post, End Post And Pull Post, Add	136.84	
32 31 56 00-0005 EA Barbed Wire Fence Post, Vinyl Coated Set In Concrete In Soil	114.17	6.83
For Bracing On Corner Post, End Post And Pull Post, Add	185.83	
32 31 56 00-0006 Post In Rock <small>(32 31 56 00-0002)</small>		
32 31 56 00-0007 EA Barbed Wire Fence Post, Galvanized Grouted In Rock	83.34	6.83
For Bracing On Corner Post, End Post And Pull Post, Add	134.59	
32 31 56 00-0008 EA Barbed Wire Fence Post, Vinyl Coated Grouted In Rock	112.67	6.83
For Bracing On Corner Post, End Post And Pull Post, Add	183.58	
32 31 56 00-0009 Studded Steel T-Posts, Enamel Paint Finish <small>(32 31 56 00-0001)</small> Note: Posts for barb wire, chain link or welded wire mesh.		
32 31 56 00-0010 EA 5' Studded Steel T-Post, Driven Into Earth	21.32	
32 31 56 00-0011 EA 5'-6" Studded Steel T-Post, Driven Into Earth	21.84	
32 31 56 00-0012 EA 6' Studded Steel T-Post, Driven Into Earth	22.77	
32 31 56 00-0013 EA 6'-6" Studded Steel T-Post, Driven Into Earth	23.71	
32 31 56 00-0014 EA 7' Studded Steel T-Post, Driven Into Earth	24.92	
32 31 56 00-0015 EA 8' Studded Steel T-Post, Driven Into Earth	27.96	
32 31 56 00-0016 EA 10' Studded Steel T-Post, Driven Into Earth	33.66	
32 31 56 00-0017 Barbed Wire <small>(32 31 56 00-0001)</small> Note: Per strand.		
32 31 56 00-0018 LF Galvanized Barbed Wire For Wild Life Deterrent Fencing, Per Strand	0.75	0.34
32 31 56 00-0019 LF Vinyl Coated Barbed Wire, For Wild Life Deterrent Fencing, Per Strand	0.87	0.34
32 31 56 00-0020 Barbed Wire Fence, Farm Style, With Wood Posts <small>(32 31 56 00-0001)</small> Note: Based on post at 10' centers, two corner post and two pull post per 300 lf.		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 31 56 00-0021	LF		4'-6" Height, Three (3) Strand Barbed Wire Fence With Wood Posts Note: Posts at 10' maximum.	9.20	2.22
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32 32 Retaining Walls (32 30)**32 32 13 Cast-In-Place Concrete Retaining Wall (32 32)**

Note: System elements include all necessary forms (4 uses), 3000 PSI concrete with an 8" chute, all necessary reinforcing steel, and underdrain. Exposed concrete is patched and rubbed. Excludes initial site grading, subbase preparation or finish grading.

32 32 13 00-0001	LF		4' High With Base, 10" Thick Reinforced <i>For >3:1 Sloped Soil At Top, Add</i>	358.89 9.80	121.83
32 32 13 00-0002	LF		6' High With Base, 10" Thick Reinforced <i>For >3:1 Sloped Soil At Top, Add</i>	448.80 12.66	149.92
32 32 13 00-0003	LF		8' High With Base, 10" Thick Reinforced <i>For >3:1 Sloped Soil At Top, Add</i>	489.80 14.14	161.71
32 32 13 00-0004	LF		10' High With Base, 13" Thick Reinforced <i>For >3:1 Sloped Soil At Top, Add</i>	627.39 19.34	199.95
32 32 13 00-0005	LF		12' High With Base, 14" Thick Reinforced <i>For >3:1 Sloped Soil At Top, Add</i>	723.43 22.44	229.66
32 32 13 00-0006	LF		16' High With Base, 16" Thick Reinforced <i>For >3:1 Sloped Soil At Top, Add</i>	1,043.97 31.47	336.93
32 32 13 00-0007	LF		20' High With Base, 18" Thick Reinforced <i>For >3:1 Sloped Soil At Top, Add</i>	1,431.62 42.61	465.14
32 32 13 00-0008	LF		4' High With Base, 12" Thick Reinforced <i>For >3:1 Sloped Soil At Top, Add</i>	394.83 10.94	133.05
32 32 13 00-0009	LF		6' High With Base, 12" Thick Reinforced <i>For >3:1 Sloped Soil At Top, Add</i>	484.76 13.96	160.32
32 32 13 00-0010	LF		8' High With Base, 12" Thick Reinforced <i>For >3:1 Sloped Soil At Top, Add</i>	514.67 15.31	167.28
32 32 13 00-0011	LF		10' High With Base, 16" Thick Reinforced <i>For >3:1 Sloped Soil At Top, Add</i>	711.36 22.35	224.18
32 32 13 00-0012	LF		12' High With Base, 18" Thick Reinforced <i>For >3:1 Sloped Soil At Top, Add</i>	899.91 27.54	287.96
32 32 13 00-0013	LF		16' High With Base, 21" Thick Reinforced <i>For >3:1 Sloped Soil At Top, Add</i>	1,346.75 40.28	436.49
32 32 13 00-0014	LF		20' High With Base, 24" Thick Reinforced <i>For >3:1 Sloped Soil At Top, Add</i>	1,900.59 56.81	616.12

32 32 16 Precast Concrete Retaining Walls (32 32)**32 32 16 00-0001 Precast Retaining Walls (32 32 16)**

Note: Tied-back earth walls. Includes precast filter fabric, soil reinforcing mesh and cast-in-place coping. Excludes concrete leveling pad, or select earth excavation and backfill.

32 32 16 00-0002	SF		Precast Concrete Retaining Walls, 10-15' High Tied-back Earth Walls	85.21	11.98
32 32 16 00-0003	SF		Precast Concrete Retaining Walls, 16-20' High Tied-back Earth Walls	87.64	9.62
32 32 16 00-0004	SF		Precast Concrete Retaining Walls, 21-25' High Tied-back Earth Walls	90.99	8.01
32 32 16 00-0005	SF		Precast Concrete Retaining Walls, 26-30' High Tied-back Earth Walls	98.43	8.01
32 32 16 00-0006	SF		Precast Concrete Retaining Walls, >30' High Tied-back Earth Walls	104.20	6.85

32 32 23 Segmental Retaining Walls (32 32)**32 32 23 13 Segmental Concrete Unit Masonry Retaining Walls (32 32 23)****32 32 23 13-0001 Modular Retaining Wall Systems (32 32 23 13)**

Note: Includes installation, material and manufacturer's wall design. Includes stone wall, cap stones, #57 stone backing, Geo-Grid (2/3 height of wall), miradrain and fill with earth, and compaction. Includes cap at top, pins, and installation. Excludes initial site grading, subbase preparation or finish grading.

32 32 23 13-0002 "Amastone" Type Modular Retaining Wall Systems (32 32 23 13-0001)

32 32 23 13-0003	SF		Up To 4' Height "Amastone" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i>	71.75 4.71	8.16
32 32 23 13-0004	SF		4 To 8' Height "Amastone" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i>	75.70 4.98	8.59
32 32 23 13-0005	SF		8 To 12' Height "Amastone" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i>	78.75 5.09	9.45
32 32 23 13-0006	SF		12 To 16' Height "Amastone" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i>	81.99 5.22	10.31

32 32 23 13-0007 "Diamond" Type Modular Retaining Wall Systems (32 32 23 13-0001)

32 32 23 13-0008	SF		Up To 4' Height "Diamond" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i>	74.65 4.96	8.16
32 32 23 13-0009	SF		4 To 8' Height "Diamond" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i>	78.60 5.22	8.59
32 32 23 13-0010	SF		8 To 12' Height "Diamond" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i>	81.65 5.33	9.45
32 32 23 13-0011	SF		12 To 16' Height "Diamond" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i>	84.89 5.46	10.31

32 32 23 13-0012 "Keystone" Type Modular Retaining Wall Systems (32 32 23 13-0001)



		Exterior Improvements	32
		Site Improvements	32 30
		Retaining Walls	32 32

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 23 13-0013 SF Up To 4' Height "Keystone" Type Modular Retaining Wall System.....	81.57	8.16
For >3:1 Sloped Soil At Top, Add	5.55	
32 32 23 13-0014 SF 4 To 8' Height "Keystone" Type Modular Retaining Wall System.....	85.52	8.59
For >3:1 Sloped Soil At Top, Add	5.81	
32 32 23 13-0015 SF 8 To 12' Height "Keystone" Type Modular Retaining Wall System.....	88.57	9.45
For >3:1 Sloped Soil At Top, Add	5.92	
32 32 23 13-0016 SF 12 To 16' Height "Keystone" Type Modular Retaining Wall System.....	91.81	10.31
For >3:1 Sloped Soil At Top, Add	6.05	
32 32 23 13-0017 "Criblock" Type Modular Retaining Wall Systems (32 32 23 13-0001)		
32 32 23 13-0018 SF Up To 4' Height "Criblock" Type Modular Retaining Wall System.....	71.75	8.16
For >3:1 Sloped Soil At Top, Add	4.71	
For Gravel Backfill Instead Of Earth, Add	0.25	
32 32 23 13-0019 SF 4 To 8' Height "Criblock" Type Modular Retaining Wall System.....	75.70	8.59
For >3:1 Sloped Soil At Top, Add	4.98	
For Gravel Backfill Instead Of Earth, Add	0.25	
32 32 23 13-0020 SF 8 To 12' Height "Criblock" Type Modular Retaining Wall System.....	78.75	9.45
For >3:1 Sloped Soil At Top, Add	5.09	
For Gravel Backfill Instead Of Earth, Add	0.25	
32 32 23 13-0021 SF 12 To 16' Height "Criblock" Type Modular Retaining Wall System.....	81.99	10.31
For >3:1 Sloped Soil At Top, Add	5.22	
For Gravel Backfill Instead Of Earth, Add	0.25	
32 32 23 13-0022 "Versa-Lok" Type Modular Retaining Wall Systems (32 32 23 13-0001)		
32 32 23 13-0023 SF Up To 4' Height "Versa-Lok" Type Modular Retaining Wall System.....	62.96	8.16
For >3:1 Sloped Soil At Top, Add	3.97	
32 32 23 13-0024 SF 4 To 8' Height "Versa-Lok" Type Modular Retaining Wall System.....	69.81	8.59
For >3:1 Sloped Soil At Top, Add	4.47	
32 32 23 13-0025 SF 8 To 12' Height "Versa-Lok" Type Modular Retaining Wall System.....	72.91	9.45
For >3:1 Sloped Soil At Top, Add	4.59	
32 32 23 13-0026 SF 12 To 16' Height "Versa-Lok" Type Modular Retaining Wall System.....	75.61	10.31
For >3:1 Sloped Soil At Top, Add	4.68	
32 32 23 13-0027 Retaining Wall Cap Block Restoration (32 32 23 13-0001)		
Note: Includes removal of existing cap block and installation of new cap block to match.		
32 32 23 13-0028 LF Removal And Reinstall Retaining Wall Cap Block And Pins.....	27.07	
For >3:1 Sloped Soil At Top, Add	1.30	
32 32 26 Metal Crib Retaining Walls (32 32)		
32 32 26 00-0001 Aluminized Steel Bin (32 32 26)		
Note: Excludes excavation and backfill.		
32 32 26 00-0002 SF 4' High, 5.5' Deep Aluminized Steel Bin.....	31.66	4.35
For >3:1 Sloped Soil At Top, Add	1.95	
For Galvanized Type, Deduct	-2.30	
32 32 26 00-0003 SF 8' High, 5.5' Deep Aluminized Steel Bin.....	35.24	4.35
For >3:1 Sloped Soil At Top, Add	2.25	
For Galvanized Type, Deduct	-2.65	
32 32 26 00-0004 SF 10' High, 7.7' Deep Aluminized Steel Bin.....	37.66	4.75
For >3:1 Sloped Soil At Top, Add	2.40	
For Galvanized Type, Deduct	-2.82	
32 32 26 00-0005 SF 12' High, 7.7' Deep Aluminized Steel Bin.....	42.88	5.37
For >3:1 Sloped Soil At Top, Add	2.73	
For Galvanized Type, Deduct	-3.22	
32 32 26 00-0006 SF 16' High, 7.7' Deep Aluminized Steel Bin.....	41.46	5.56
For >3:1 Sloped Soil At Top, Add	2.59	
For Galvanized Type, Deduct	-3.04	
32 32 26 00-0007 SF 16' High, 9.9' Deep Aluminized Steel Bin.....	45.96	5.66
For >3:1 Sloped Soil At Top, Add	2.95	
For Galvanized Type, Deduct	-3.47	
32 32 26 00-0008 SF 20' High, 9.9' Deep Aluminized Steel Bin.....	50.88	5.97
For >3:1 Sloped Soil At Top, Add	3.30	
For Galvanized Type, Deduct	-3.89	
32 32 26 00-0009 SF 20' High, 12.1' Deep Aluminized Steel Bin.....	52.13	6.27
For >3:1 Sloped Soil At Top, Add	3.37	
For Galvanized Type, Deduct	-3.97	
32 32 26 00-0010 SF 24' High, 12.1' Deep Aluminized Steel Bin.....	54.72	6.27
For >3:1 Sloped Soil At Top, Add	3.58	
For Galvanized Type, Deduct	-4.22	
32 32 26 00-0011 SF 24' High, 14.3' Deep Aluminized Steel Bin.....	57.29	6.37
For >3:1 Sloped Soil At Top, Add	3.80	
For Galvanized Type, Deduct	-4.47	
32 32 26 00-0012 SF 28' High, 14.3' Deep Aluminized Steel Bin.....	59.17	6.47
For >3:1 Sloped Soil At Top, Add	3.94	
For Galvanized Type, Deduct	-4.63	

32 32 29 Timber Retaining Walls (32 32)

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 29 00-0001			Wood Post Retaining Walls <small>(22 32 29)</small> Note: System elements include wood posts installed side-by-side to various heights, and underdrain. Excludes initial site grading, subbase preparation or finish grading.		
32 32 29 00-0002	LF		4" x 4", 1' High, Redwood, Wood Post Retaining Walls	113.85	26.49
			<i>For >3:1 Sloped Soil At Top, Add</i>	5.18	
32 32 29 00-0003	LF		4" x 4", 2' High, Redwood, Wood Post Retaining Walls	222.55	51.85
			<i>For >3:1 Sloped Soil At Top, Add</i>	10.11	
32 32 29 00-0004	LF		4" x 4", 1' High, Cedar, Wood Post Retaining Walls	106.06	26.49
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.52	
32 32 29 00-0005	LF		4" x 4", 2' High, Cedar, Wood Post Retaining Walls	207.41	51.85
			<i>For >3:1 Sloped Soil At Top, Add</i>	8.82	
32 32 29 00-0006	LF		4" x 4", 1' High, Pressure Treated Lumber, Wood Post Retaining Walls	88.61	23.14
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.59	
32 32 29 00-0007	LF		4" x 4", 2' High, Pressure Treated Lumber, Wood Post Retaining Walls	173.57	45.25
			<i>For >3:1 Sloped Soil At Top, Add</i>	7.06	
32 32 29 00-0008	LF		4" x 4", 1' High, Creosoted Lumber, Wood Post Retaining Walls	92.55	20.54
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.37	
32 32 29 00-0009	LF		4" x 4", 2' High, Creosoted Lumber, Wood Post Retaining Walls	167.30	37.17
			<i>For >3:1 Sloped Soil At Top, Add</i>	7.90	
32 32 29 00-0010	LF		6" x 6", 2' High, Redwood, Wood Post Retaining Walls	324.52	62.82
			<i>For >3:1 Sloped Soil At Top, Add</i>	16.91	
32 32 29 00-0011	LF		6" x 6", 4' High, Redwood, Wood Post Retaining Walls	643.95	123.13
			<i>For >3:1 Sloped Soil At Top, Add</i>	33.81	
32 32 29 00-0012	LF		6" x 6", 2' High, Cedar, Wood Post Retaining Walls	315.87	62.82
			<i>For >3:1 Sloped Soil At Top, Add</i>	16.17	
32 32 29 00-0013	LF		6" x 6", 4' High, Cedar, Wood Post Retaining Walls	622.33	123.13
			<i>For >3:1 Sloped Soil At Top, Add</i>	31.98	
32 32 29 00-0014	LF		6" x 6", 2' High, Pressure Treated Lumber, Wood Post Retaining Walls	236.76	51.01
			<i>For >3:1 Sloped Soil At Top, Add</i>	11.45	
32 32 29 00-0015	LF		6" x 6", 4' High, Pressure Treated Lumber, Wood Post Retaining Walls	470.89	100.73
			<i>For >3:1 Sloped Soil At Top, Add</i>	22.90	
32 32 29 00-0016	LF		6" x 6", 2' High, Creosoted Lumber, Wood Post Retaining Walls	230.83	40.79
			<i>For >3:1 Sloped Soil At Top, Add</i>	12.68	
32 32 29 00-0017	LF		6" x 6", 4' High, Creosoted Lumber, Wood Post Retaining Walls	455.83	79.82
			<i>For >3:1 Sloped Soil At Top, Add</i>	25.18	
32 32 29 00-0018	LF		8" x 8", 4' High, Redwood, Wood Post Retaining Walls	864.70	136.13
			<i>For >3:1 Sloped Soil At Top, Add</i>	50.35	
32 32 29 00-0019	LF		8" x 8", 6' High, Redwood, Wood Post Retaining Walls	1,619.47	254.15
			<i>For >3:1 Sloped Soil At Top, Add</i>	94.46	
32 32 29 00-0020	LF		8" x 8", 4' High, Cedar, Wood Post Retaining Walls	821.46	136.13
			<i>For >3:1 Sloped Soil At Top, Add</i>	46.68	
32 32 29 00-0021	LF		8" x 8", 6' High, Cedar, Wood Post Retaining Walls	1,537.32	254.15
			<i>For >3:1 Sloped Soil At Top, Add</i>	87.47	
32 32 29 00-0022	LF		8" x 8", 4' High, Pressure Treated Lumber, Wood Post Retaining Walls	633.59	157.04
			<i>For >3:1 Sloped Soil At Top, Add</i>	27.16	
32 32 29 00-0023	LF		8" x 8", 6' High, Pressure Treated Lumber, Wood Post Retaining Walls	1,181.67	293.28
			<i>For >3:1 Sloped Soil At Top, Add</i>	50.58	
32 32 29 00-0024	LF		8" x 8", 4' High, Creosoted Lumber, Wood Post Retaining Walls	610.58	126.93
			<i>For >3:1 Sloped Soil At Top, Add</i>	30.32	
32 32 29 00-0025	LF		8" x 8", 6' High, Creosoted Lumber, Wood Post Retaining Walls	1,132.42	235.47
			<i>For >3:1 Sloped Soil At Top, Add</i>	56.23	
32 32 29 00-0026	LF		4' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls	212.80	52.31
			<i>For >3:1 Sloped Soil At Top, Add</i>	9.19	
32 32 29 00-0027	LF		6' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls	317.04	78.52
			<i>For >3:1 Sloped Soil At Top, Add</i>	13.60	
32 32 29 00-0028	LF		8' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls	421.20	104.63
			<i>For >3:1 Sloped Soil At Top, Add</i>	18.01	
32 32 29 00-0029	LF		4' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls	165.10	29.55
			<i>For >3:1 Sloped Soil At Top, Add</i>	9.00	
32 32 29 00-0030	LF		6' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls	240.99	42.65
			<i>For >3:1 Sloped Soil At Top, Add</i>	13.23	
32 32 29 00-0031	LF		8' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls	327.03	57.61
			<i>For >3:1 Sloped Soil At Top, Add</i>	18.01	
32 32 29 00-0032			Post And Board Retaining Walls <small>(22 32 29)</small> Note: System includes all the elements that must go into a wall that resists lateral pressure. System elements include posts and boards, cap, underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.		
32 32 29 00-0033	LF		4" x 4" Post, 4' Spacing, 3' High, 2" Planking, Redwood, Post And Board Retaining Walls	109.89	15.70
			<i>For >3:1 Sloped Soil At Top, Add</i>	6.67	
32 32 29 00-0034	LF		4" x 4" Post, 2' Spacing, 4' High, 2" Planking, Redwood, Post And Board Retaining Walls	159.60	26.86
			<i>For >3:1 Sloped Soil At Top, Add</i>	9.00	
32 32 29 00-0035	LF		6" x 6" Post, 4' Spacing, 5' High 2" Planking, Redwood, Post And Board Retaining Walls	215.93	33.36
			<i>For >3:1 Sloped Soil At Top, Add</i>	12.68	
32 32 29 00-0036	LF		6" x 6" Post, 3' Spacing, 6' High, 2" Planking, Redwood, Post And Board Retaining Walls	299.89	47.30
			<i>For >3:1 Sloped Soil At Top, Add</i>	17.46	
32 32 29 00-0037	LF		6" x 6" With Deadman, 3' Spacing, 8' High, 2" Planking, Redwood, Post And Board Retaining Walls	393.25	61.51
			<i>For >3:1 Sloped Soil At Top, Add</i>	22.97	
32 32 29 00-0038	LF		8" x 8" Post, 2' Spacing, 8' High, 2" Planking, Redwood, Post And Board Retaining Walls	822.85	121.73
			<i>For >3:1 Sloped Soil At Top, Add</i>	49.25	
32 32 29 00-0039	LF		8" x 8" With Deadman, 2' Spacing, 9' High, 2" Planking, Redwood, Post And Board Retaining Walls	939.80	134.84
			<i>For >3:1 Sloped Soil At Top, Add</i>	56.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 29 00-0040 LF 4" x 4" Post, 4' Spacing, 3' High, 2" Planking, Cedar, Post And Board Retaining Walls	110.12	16.36
For >3:1 Sloped Soil At Top, Add	6.58	
32 32 29 00-0041 LF 4" x 4" With Deadman, 2' Spacing, 4' High 2" Planking, Cedar, Post And Board Retaining Walls	192.16	29.08
For >3:1 Sloped Soil At Top, Add	11.39	
32 32 29 00-0042 LF 6" x 6" Post, 4' Spacing, 4' High 2" Planking, Cedar, Post And Board Retaining Walls	188.95	28.53
For >3:1 Sloped Soil At Top, Add	11.21	
32 32 29 00-0043 LF 6" x 6" Post, 3' Spacing, 5' High 2" Planking, Cedar, Post And Board Retaining Walls	261.39	40.98
For >3:1 Sloped Soil At Top, Add	15.25	
32 32 29 00-0044 LF 6" x 6" Post, 2' Spacing, 6' High 2" Planking, Cedar, Post And Board Retaining Walls	401.13	65.42
For >3:1 Sloped Soil At Top, Add	22.97	
32 32 29 00-0045 LF 6 x 6 Post With Deadman, 3' Spacing, 6' High, 2" Planking, Cedar	323.20	50.28
For >3:1 Sloped Soil At Top, Add	18.93	
32 32 29 00-0046 LF 8 x 8 Post With Deadman, 2' Spacing, 8' High, 2" Planking, Cedar	852.25	125.63
For >3:1 Sloped Soil At Top, Add	51.09	
32 32 29 00-0047 LF 4 x 4 Post, 4' Spacing, 3' High 2" Planking, Pressure Treated	104.79	30.20
For >3:1 Sloped Soil At Top, Add	3.77	
32 32 29 00-0048 LF 4 x 4 Post, 3' Spacing, 4' High 2" Planking, Pressure Treated	154.40	42.93
For >3:1 Sloped Soil At Top, Add	5.83	
32 32 29 00-0049 LF 4 x 4 Post With Deadman, 2' Space, 5' High, 2" Planking, Pressure Treat	236.69	58.92
For >3:1 Sloped Soil At Top, Add	10.11	
32 32 29 00-0050 LF 6 x 6 Post, 3' Spacing, 6' High, 2" Planking, Pressure Treated	430.24	99.43
For >3:1 Sloped Soil At Top, Add	19.66	
32 32 29 00-0051 LF 6 x 6 Post, 2' Spacing, 7' High, 2" Planking, Pressure Treated	441.05	99.43
For >3:1 Sloped Soil At Top, Add	20.58	
32 32 29 00-0052 LF 6 x 6 Post With Deadman, 3' Spacing 8' High, 2" Planking, Pressure Treat	407.29	95.53
For >3:1 Sloped Soil At Top, Add	18.38	
32 32 29 00-0053 LF 8 x 8 Post With Deadman, 2' Spacing 10' High, 2" Planking, Pressure Treated	975.63	219.77
For >3:1 Sloped Soil At Top, Add	45.57	
32 32 29 00-0054 LF 4 x 4 Post, 4' Spacing, 3' High Creosoted 2" Planking	104.79	30.20
For >3:1 Sloped Soil At Top, Add	3.77	
32 32 29 00-0055 LF 4 x 4 Post, 3' Spacing, 4' High Creosoted, 2" Planking	154.40	42.93
For >3:1 Sloped Soil At Top, Add	5.83	
32 32 29 00-0056 LF 4 x 4 Post With Deadman, 2' Spacing, 5' High, Creosoted, 2" Planking	236.69	58.92
For >3:1 Sloped Soil At Top, Add	10.11	
32 32 29 00-0057 LF 6 x 6 Post, 3' Spacing, 6' High Creosoted, 2" Planking	300.07	73.32
For >3:1 Sloped Soil At Top, Add	13.05	
32 32 29 00-0058 LF 6" x 6" Post, 2' Spacing, 7' High, 2" Planking, Creosoted, Post And Board Retaining Walls	430.24	99.43
For >3:1 Sloped Soil At Top, Add	19.66	
32 32 29 00-0059 LF 6" x 6" Post With Deadman, 3' Spacing, 8' High, 2" Planking, Creosoted, Post And Board Retaining Walls	407.29	95.53
For >3:1 Sloped Soil At Top, Add	18.38	
32 32 29 00-0060 LF 8" x 8" Post With Deadman, 2' Spacing, 10' High, Creosoted, 2" Planking, Post And Board Retaining Walls	975.63	219.77
For >3:1 Sloped Soil At Top, Add	45.57	
32 32 29 00-0061 Wood Tie Retaining Walls, Rod Connector At 4' <small>(32 32 29)</small>		
Note: The system includes all the elements that must go into a wall that resists lateral pressure. System elements include: wood ties, threaded rod (1/2" diameter), underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.		
32 32 29 00-0062 Redwood <small>(32 32 29 00-0061)</small>		
32 32 29 00-0063 LF 2' High, 6" x 6" Wood Tie Wall	168.16	32.15
For >3:1 Sloped Soil At Top, Add	8.82	
32 32 29 00-0064 LF 4' High, 6" x 6" Wood Tie Wall Deadman At 6'	384.38	73.32
For >3:1 Sloped Soil At Top, Add	20.21	
32 32 29 00-0065 LF 6' High, 6" x 6" Wood Tie Wall Deadman At 6'	574.48	109.93
For >3:1 Sloped Soil At Top, Add	30.14	
32 32 29 00-0066 LF 4' High, 8" x 8" Wood Tie Wall Deadman At 6'	599.20	94.22
For >3:1 Sloped Soil At Top, Add	34.92	
32 32 29 00-0067 LF 6' High, 8" x 8" Wood Tie Wall Deadman At 6'	901.07	141.34
For >3:1 Sloped Soil At Top, Add	52.56	
32 32 29 00-0068 LF 8' High, 8" x 8" Wood Tie Wall Deadman At 6'	1,193.19	185.85
For >3:1 Sloped Soil At Top, Add	69.83	
32 32 29 00-0069 Cedar <small>(32 32 29 00-0061)</small>		
32 32 29 00-0070 LF 2' High, 6" x 6" Wood Tie Wall	163.84	32.15
For >3:1 Sloped Soil At Top, Add	8.45	
32 32 29 00-0071 LF 4' High, 6" x 6" Wood Tie Wall Deadman At 6'	371.41	73.32
For >3:1 Sloped Soil At Top, Add	19.11	
32 32 29 00-0072 LF 6' High, 6" x 6" Wood Tie Wall Deadman At 6'	557.18	109.93
For >3:1 Sloped Soil At Top, Add	28.67	
32 32 29 00-0073 LF 4' High, 8" x 8" Wood Tie Wall Deadman At 6'	568.93	94.22
For >3:1 Sloped Soil At Top, Add	32.34	
32 32 29 00-0074 LF 6' High, 8" x 8" Wood Tie Wall Deadman At 6'	857.83	141.34
For >3:1 Sloped Soil At Top, Add	48.88	
32 32 29 00-0075 LF 8' High, 8" x 8" Wood Tie Wall Deadman At 6'	1,132.66	185.85
For >3:1 Sloped Soil At Top, Add	64.69	
32 32 29 00-0076 Creosoted Wood <small>(32 32 29 00-0061)</small>		
32 32 29 00-0077 LF 2' High, 6" x 8" Wood Tie Wall	159.05	42.65
For >3:1 Sloped Soil At Top, Add	6.27	
32 32 29 00-0078 LF 4' High, 6" x 8" Wood Tie Wall Deadman At 6'	362.80	98.13
For >3:1 Sloped Soil At Top, Add	14.15	

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 29 00-0079	LF		6' High, 6" x 8" Wood Tie Wall Deadman At 6'	539.12	145.25
			<i>For >3:1 Sloped Soil At Top, Add</i>	21.13	
32 32 29 00-0080	LF		4' High, 7" x 9" Wood Tie Wall Deadman At 6'	728.12	197.56
			<i>For >3:1 Sloped Soil At Top, Add</i>	28.30	
32 32 29 00-0081	LF		6' High, 7" x 9" Wood Tie Wall Deadman At 6'	1,059.84	287.79
			<i>For >3:1 Sloped Soil At Top, Add</i>	41.16	
32 32 29 00-0082	LF		8' High, 7" x 9" Wood Tie Wall Deadman At 6'	1,407.40	381.55
			<i>For >3:1 Sloped Soil At Top, Add</i>	54.76	
32 32 29 00-0083			Pressure Treated Wood <small>(32 32 29 00-0061)</small>		
32 32 29 00-0084	LF		2' High, 6" x 6" Wood Tie Wall	150.65	26.57
			<i>For >3:1 Sloped Soil At Top, Add</i>	8.29	
32 32 29 00-0085	LF		4' High, 6" x 6" Wood Tie Wall Deadman At 6'	343.08	60.22
			<i>For >3:1 Sloped Soil At Top, Add</i>	18.93	
32 32 29 00-0086	LF		6' High, 6" x 6" Wood Tie Wall Deadman At 6'	513.53	90.32
			<i>For >3:1 Sloped Soil At Top, Add</i>	28.30	
32 32 29 00-0087	LF		4' High, 8" x 8" Wood Tie Wall Deadman At 6'	522.00	108.63
			<i>For >3:1 Sloped Soil At Top, Add</i>	25.91	
32 32 29 00-0088	LF		6' High, 8" x 8" Wood Tie Wall Deadman At 6'	787.26	162.34
			<i>For >3:1 Sloped Soil At Top, Add</i>	39.33	
32 32 29 00-0089	LF		8' High, 8" x 8" Wood Tie Wall Deadman At 6'	1,041.34	215.86
			<i>For >3:1 Sloped Soil At Top, Add</i>	51.82	
32 32 53			Stone Retaining Walls <small>(32 32)</small>		
32 32 53 00-0001			Stone Retaining Walls <small>(32 32 53)</small>		
			Note: Construction is either dry set or mortar set. System elements include concrete base, crushed stone, underdrain, and backfill. Standard design to have 12" thick top with vertical backside and sloped face at 2" per foot of height. Excludes initial site grading, subbase preparation or finish grading.		
32 32 53 00-0002			Stone Retaining Walls <small>(32 32 53 00-0001)</small>		
			Note: Stone at \$16.00/ton.		
32 32 53 00-0003	LF		\$16.00/ton 3' High Stone Retaining Wall, Dry Set	421.78	193.32
			<i>For >3:1 Sloped Soil At Top, Add</i>	2.98	
32 32 53 00-0004	LF		\$16.00/ton 4' High Stone Retaining Wall, Dry Set	498.35	229.99
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.26	
32 32 53 00-0005	LF		\$16.00/ton 6' High Stone Retaining Wall, Dry Set	655.94	305.56
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.81	
32 32 53 00-0006	LF		\$16.00/ton 8' High Stone Retaining Wall, Dry Set	1,013.46	477.75
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.92	
32 32 53 00-0007	LF		\$16.00/ton 10' High Stone Retaining Wall, Dry Set	1,318.45	624.95
			<i>For >3:1 Sloped Soil At Top, Add</i>	5.82	
32 32 53 00-0008	LF		\$16.00/ton 12' High Stone Retaining Wall, Dry Set	1,637.28	778.25
			<i>For >3:1 Sloped Soil At Top, Add</i>	6.86	
32 32 53 00-0009	LF		\$16.00/ton 3' High Stone Retaining Wall, Mortar Set	377.38	171.16
			<i>For >3:1 Sloped Soil At Top, Add</i>	2.98	
32 32 53 00-0010	LF		\$16.00/ton 4' High Stone Retaining Wall, Mortar Set	443.39	202.51
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.26	
32 32 53 00-0011	LF		\$16.00/ton 6' High Stone Retaining Wall, Mortar Set	574.81	264.94
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.81	
32 32 53 00-0012	LF		\$16.00/ton 8' High Stone Retaining Wall, Mortar Set	882.87	412.48
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.92	
32 32 53 00-0013	LF		\$16.00/ton 10' High Stone Retaining Wall, Mortar Set	1,135.27	533.41
			<i>For >3:1 Sloped Soil At Top, Add</i>	5.82	
32 32 53 00-0014	LF		\$16.00/ton 12' High Stone Retaining Wall, Mortar Set	1,411.33	665.32
			<i>For >3:1 Sloped Soil At Top, Add</i>	6.86	
32 32 53 00-0015			Stone Retaining Walls <small>(32 32 53 00-0001)</small>		
			Note: Stone at \$32.00/ton.		
32 32 53 00-0016	LF		\$32.00/ton 3' High Stone Retaining Wall, Dry Set	432.38	193.32
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.88	
32 32 53 00-0017	LF		\$32.00/ton 4' High Stone Retaining Wall, Dry Set	513.03	229.99
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.51	
32 32 53 00-0018	LF		\$32.00/ton 6' High Stone Retaining Wall, Dry Set	677.15	305.56
			<i>For >3:1 Sloped Soil At Top, Add</i>	5.62	
32 32 53 00-0019	LF		\$32.00/ton 8' High Stone Retaining Wall, Dry Set	1,044.45	477.75
			<i>For >3:1 Sloped Soil At Top, Add</i>	7.56	
32 32 53 00-0020	LF		\$32.00/ton 10' High Stone Retaining Wall, Dry Set	1,360.86	624.95
			<i>For >3:1 Sloped Soil At Top, Add</i>	9.43	
32 32 53 00-0021	LF		\$32.00/ton 12' High Stone Retaining Wall, Dry Set	1,691.10	778.25
			<i>For >3:1 Sloped Soil At Top, Add</i>	11.44	
32 32 53 00-0022	LF		\$32.00/ton 3' High Stone Retaining Wall, Mortar Set	387.98	171.16
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.88	
32 32 53 00-0023	LF		\$32.00/ton 4' High Stone Retaining Wall, Mortar Set	458.07	202.51
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.51	
32 32 53 00-0024	LF		\$32.00/ton 6' High Stone Retaining Wall, Mortar Set	596.02	264.94
			<i>For >3:1 Sloped Soil At Top, Add</i>	5.62	
32 32 53 00-0025	LF		\$32.00/ton 8' High Stone Retaining Wall, Mortar Set	913.86	412.48
			<i>For >3:1 Sloped Soil At Top, Add</i>	7.56	
32 32 53 00-0026	LF		\$32.00/ton 10' High Stone Retaining Wall, Mortar Set	1,177.68	533.41
			<i>For >3:1 Sloped Soil At Top, Add</i>	9.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 53 00-0027 LF \$32.00/ton 12' High Stone Retaining Wall, Mortar Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,465.15 11.44	665.32
32 32 53 00-0028 Stone Retaining Walls (32 32 53 00-0001)		
Note: Stone at \$48.00/ton.		
32 32 53 00-0029 LF \$48.00/ton 3' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	443.80 4.85	193.32
32 32 53 00-0030 LF \$48.00/ton 4' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	527.54 5.74	229.99
32 32 53 00-0031 LF \$48.00/ton 6' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	697.53 7.35	305.56
32 32 53 00-0032 LF \$48.00/ton 8' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,075.44 10.19	477.75
32 32 53 00-0033 LF \$48.00/ton 10' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,403.26 13.03	624.95
32 32 53 00-0034 LF \$48.00/ton 12' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,745.74 16.08	778.25
32 32 53 00-0035 LF \$48.00/ton 3' High Stone Retaining Wall, Mortar Set <i>For >3:1 Sloped Soil At Top, Add</i>	399.40 4.85	171.16
32 32 53 00-0036 LF \$48.00/ton 4' High Stone Retaining Wall, Mortar Set <i>For >3:1 Sloped Soil At Top, Add</i>	472.75 5.75	202.51
32 32 53 00-0037 LF \$48.00/ton 6' High Stone Retaining Wall, Mortar Set <i>For >3:1 Sloped Soil At Top, Add</i>	616.40 7.35	264.94
32 32 53 00-0038 LF \$48.00/ton 8' High Stone Retaining Wall, Mortar Set <i>For >3:1 Sloped Soil At Top, Add</i>	944.85 10.19	412.48
32 32 53 00-0039 LF \$48.00/ton 10' High Stone Retaining Wall, Mortar Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,220.08 13.03	533.41
32 32 53 00-0040 LF \$48.00/ton 12' High Stone Retaining Wall, Mortar Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,519.79 16.08	665.32
32 32 53 00-0041 Stone Retaining Walls (32 32 53 00-0001)		
Note: Stone at \$64.00/ton.		
32 32 53 00-0042 LF \$64.00/ton 3' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	455.21 5.82	193.32
32 32 53 00-0043 LF \$64.00/ton 4' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	526.08 5.82	229.99
32 32 53 00-0044 LF \$64.00/ton 6' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	719.55 9.22	305.56
32 32 53 00-0045 LF \$64.00/ton 8' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,108.06 12.96	477.75
32 32 53 00-0046 LF \$64.00/ton 10' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,447.30 16.77	624.95
32 32 53 00-0047 LF \$64.00/ton 12' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,801.19 20.80	778.25
32 32 53 00-0048 LF \$64.00/ton 3' High Stone Retaining Wall, Mortar Set <i>For >3:1 Sloped Soil At Top, Add</i>	410.81 5.82	171.16
32 32 53 00-0049 LF \$64.00/ton 4' High Stone Retaining Wall, Mortar Set <i>For >3:1 Sloped Soil At Top, Add</i>	487.43 7.00	202.51
32 32 53 00-0050 LF \$64.00/ton 6' High Stone Retaining Wall, Mortar Set <i>For >3:1 Sloped Soil At Top, Add</i>	638.42 9.22	264.94
32 32 53 00-0051 LF \$64.00/ton 8' High Stone Retaining Wall, Mortar Set <i>For >3:1 Sloped Soil At Top, Add</i>	977.47 12.96	412.48
32 32 53 00-0052 LF \$64.00/ton 10' High Stone Retaining Wall, Mortar Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,264.12 16.77	533.41
32 32 53 00-0053 LF \$64.00/ton 12' High Stone Retaining Wall, Mortar Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,575.24 20.80	665.32
32 35 Screening Devices (32 30)		
32 35 16 Sound Barriers (32 35)		
32 35 16 00-0001 Precast Concrete Roadway Sound Barriers And Support Including Caps For Columns (32 35 16)		
Note: Installed on steel supports. Finish to be determined by owner (ribbed, patterned, stamped, exposed aggregate or smooth)		
32 35 16 00-0002 4" Thick (32 35 16 00-0001)		
32 35 16 00-0003 LF 6' High x 4" Thick Precast Concrete Sound Walls	159.90	21.75
32 35 16 00-0004 LF 7' High x 4" Thick Precast Concrete Sound Walls	172.91	24.27
32 35 16 00-0005 LF 8' High x 4" Thick Precast Concrete Sound Walls	188.24	26.29
32 35 16 00-0006 LF 9' High x 4" Thick Precast Concrete Sound Walls	200.81	28.32
32 35 16 00-0007 LF 10' High x 4" Thick Precast Concrete Sound Walls	212.39	30.34
32 35 16 00-0008 LF 11' High x 4" Thick Precast Concrete Sound Walls	228.91	31.35
32 35 16 00-0009 LF 12' High x 4" Thick Precast Concrete Sound Walls	245.02	32.87
32 35 16 00-0010 6" Thick (32 35 16 00-0001)		
32 35 16 00-0011 LF 6' High x 6" Thick Precast Concrete Sound Walls	190.86	25.28
32 35 16 00-0012 LF 7' High x 6" Thick Precast Concrete Sound Walls	206.34	28.32
32 35 16 00-0013 LF 8' High x 6" Thick Precast Concrete Sound Walls	224.65	31.35

32 Exterior Improvements**32 30 Site Improvements****32 35 Screening Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 35 16 00-0014 LF 9' High x 6" Thick Precast Concrete Sound Walls.....	239.63	33.38
32 35 16 00-0015 LF 10' High x 6" Thick Precast Concrete Sound Walls.....	253.44	35.40
32 35 16 00-0016 LF 11' High x 6" Thick Precast Concrete Sound Walls.....	273.22	36.91
32 35 16 00-0017 LF 12' High x 6" Thick Precast Concrete Sound Walls.....	292.49	38.44
32 35 16 00-0018 8" Thick <small>(32 35 16 00-0001)</small>		
32 35 16 00-0019 LF 6' High x 8" Thick Precast Concrete Sound Walls.....	230.59	30.34
32 35 16 00-0020 LF 7' High x 8" Thick Precast Concrete Sound Walls.....	249.25	33.38
32 35 16 00-0021 LF 8' High x 8" Thick Precast Concrete Sound Walls.....	271.36	36.41
32 35 16 00-0022 LF 9' High x 8" Thick Precast Concrete Sound Walls.....	289.43	39.45
32 35 16 00-0023 LF 10' High x 8" Thick Precast Concrete Sound Walls.....	306.11	41.97
32 35 16 00-0024 LF 11' High x 8" Thick Precast Concrete Sound Walls.....	330.09	43.49
32 35 16 00-0025 LF 12' High x 8" Thick Precast Concrete Sound Walls.....	353.48	45.51
32 35 16 00-0026 Redwood Top <small>(32 35 16 00-0001)</small>		
32 35 16 00-0027 LF 2" x 6" Redwood, Construction Grade/Rough.....	4.38	1.06
32 35 16 00-0028 LF 2" x 8" Redwood, Construction Grade/Rough.....	5.08	1.37
32 35 16 00-0029 LF 2" x 10" Redwood, Construction Grade/Rough.....	7.76	1.69
32 35 16 00-0030 LF 2" x 12" Redwood, Construction Grade/Rough.....	9.36	2.11
32 35 16 00-0031 LF 2" x 6" Redwood, Con Heart/Smooth.....	5.33	1.06
32 35 16 00-0032 LF 2" x 8" Redwood, Con Heart/Smooth.....	7.69	1.37
32 35 16 00-0033 LF 2" x 10" Redwood, Con Heart/Smooth.....	10.19	1.69
32 35 16 00-0034 LF 2" x 12" Redwood, Con Heart/Smooth.....	12.25	2.11
32 39 Manufactured Site Specialties <small>(32 30)</small>		
Note: Excludes coredrilling, augering, concrete footing and compaction See CSI section 02 41 19 13-0081 for concrete core drilling, 02 41 19 13-0219 for asphalt core drilling, 32 31 13 13-0002 for augering, 32 31 13 13-0019 for concrete footing, 32 31 13 13-0045 for compaction of earth.		
32 39 13 Manufactured Metal Bollards <small>(32 39)</small>		
32 39 13 00-0001 Metal Pipe Bollards <small>(32 39 13)</small>		
Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill for post and post holes.		
32 39 13 00-0002 Steel Pipe Bollard, Schedule 40 Pipe, Painted Or Powder Coated <small>(32 39 13 00-0001)</small>		
32 39 13 00-0003 LF 4" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	44.25	11.34
For Galvanized Steel, Add	3.66	
For 304 Stainless Steel, Add	29.09	
For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	114.80	
For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add	81.34	
For Schedule 80, Add	5.50	
For Concrete Fill, Add Per LF Of Pipe Bollard	9.56	
32 39 13 00-0004 LF 6" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	56.69	11.34
For Galvanized Steel, Add	5.78	
For 304 Stainless Steel, Add	45.89	
For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	114.80	
For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add	81.34	
For Schedule 80, Add	7.37	
For Concrete Fill, Add Per LF Of Pipe Bollard	13.62	
32 39 13 00-0005 LF 8" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	78.78	14.19
For Galvanized Steel, Add	8.57	
For 304 Stainless Steel, Add	68.05	
For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	151.48	
For Each Sleeve For Removable, Lockable Bollard, Add	122.43	
For Schedule 80, Add	10.40	
For Concrete Fill, Add Per LF Of Pipe Bollard	18.19	
32 39 13 00-0006 LF 10" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	103.02	17.03
For Galvanized Steel, Add	11.72	
For 304 Stainless Steel, Add	93.11	
For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	174.20	
For Each Sleeve For Removable, Lockable Bollard, Add	133.29	
For Schedule 80, Add	13.75	
For Concrete Fill, Add Per LF Of Pipe Bollard	22.32	
32 39 13 00-0007 LF 12" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	130.99	22.70
For Galvanized Steel, Add	14.55	
For 304 Stainless Steel, Add	115.55	
For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	232.13	
For Each Sleeve For Removable, Lockable Bollard, Add	183.72	
For Schedule 80, Add	17.38	
For Concrete Fill, Add Per LF Of Pipe Bollard	26.15	
32 39 13 00-0008 Cast Bollards <small>(32 39 13 00-0001)</small>		
32 39 13 00-0009 EA 36" Cast Aluminum Bollard, Black Powder Coat Finish.....	1,329.83	68.09
Note: 8-1/2" diameter, embedded mounting plate, all colors.		
32 39 13 00-0010 EA 36" Cast Aluminum Removable Bollard, Black Powder Coat Finish.....	2,227.47	68.09
Note: 8-1/2" diameter, embedded mounting plate, lockable, all colors.		
32 39 13 00-0011 EA 36" Cast Iron Bollard, Powder Coat Finish.....	1,131.38	68.09
Note: 8-1/2" diameter, embedded mounting plate, all colors.		



Exterior Improvements	32	32
Site Improvements	32 30	
Manufactured Site Specialties	32 39	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 39 13 00-0012 EA 36" Cast Iron Removable Bollard, Black Powder Coat Finish Note: 8-1/2" diameter, embedded mounting plate, lockable, all colors.	2,034.32	68.09
32 39 23 Manufactured Concrete Bollards (32 39)		
32 39 23 00-0001 Concrete Bollards (32 39 23) Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
32 39 23 00-0002 Concrete Bollard, Exposed Aggregate (32 39 23 00-0001)		
32 39 23 00-0003 EA 12" x 12" x 30" High Concrete Bollard, Light Sandblast..... Note: Surface mounted with anchor bolts embedded into grout pockets.	664.19	90.79
32 39 23 00-0004 EA 12" Diameter x 30" High Concrete Bollard, Light Sandblast..... Note: Surface mounted with anchor bolts embedded into grout pockets.	664.19	90.79
32 39 25 Manufactured Wood Bollards (32 39)		
32 39 25 00-0001 Wood Bollards (32 39 25) Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
32 39 25 00-0002 Wood Bollard, Pressure Treated Timber (32 39 25 00-0001)		
32 39 25 00-0003 LF 4" x 4", Pressure Treated Wood Bollard..... For Each Sleeve For Removable, Lockable Bollard, Add	22.06 81.75	9.08
32 39 25 00-0004 LF 6" x 6", Pressure Treated Wood Bollard..... For Each Sleeve For Removable, Lockable Bollard, Add	26.19 81.75	9.08
32 39 25 00-0005 LF 8" x 8", Pressure Treated Wood Bollard..... For Each Sleeve For Removable, Lockable Bollard, Add	34.73 124.28	10.22
32 39 25 00-0006 LF 10" x 10", Pressure Treated Wood Bollard..... For Each Sleeve For Removable, Lockable Bollard, Add	49.54 137.30	13.62
32 39 25 00-0007 LF 12" x 12", Pressure Treated Wood Bollard..... For Each Sleeve For Removable, Lockable Bollard, Add	68.43 193.73	18.15
32 39 27 Manufactured Plastic Bollards (32 39)		
32 39 27 00-0001 Plastic Bollards (32 39 27) See CSI section 32 31 13 13-0001 for augering and filling holes for bollards., 32 31 13 13-0018 for concrete fill.		
32 39 27 00-0002 Recycled Plastic Bollards (32 39 27 00-0001)		
32 39 27 00-0003 EA 6" x 6" x 33" Surface Mounted Recycled Plastic Bollard Note: Includes anchor bolts.	260.91	45.40
32 39 27 00-0004 EA 6" Diameter x 6' Steel Reinforced Recycled Plastic Bollard	412.35	45.40
32 39 27 00-0005 Plastic Bollard Covers (32 39 27 00-0001)		
32 39 27 00-0006 EA 4" x 60", 1/8" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe For Reflective Tape, Add	64.88 7.15	9.94
32 39 27 00-0007 EA 6" x 60", 1/8" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe For Reflective Tape, Add	70.28 7.15	10.93
32 39 27 00-0008 EA 3" x 60", 1/4" Thick LDPE Bollard Cover, Fits 3" To 3 1/2" Pipe For Reflective Tape, Add	87.39 7.15	9.94
32 39 27 00-0009 EA 3-1/2" x 52", 1/4" Thick LDPE Bollard Cover, Fits 3 -1/2" To 4" Pipe For Reflective Tape, Add	87.39 7.15	9.94
32 39 27 00-0010 EA 3-1/2" x 68", 1/4" Thick LDPE Bollard Cover, Fits 3-1/2" To 4" Pipe For Reflective Tape, Add	97.90 7.15	9.94
32 39 27 00-0011 EA 4" x 52", 1/4" Thick LDPE Bollard Cover, Fits 4' To 4-1/2" Pipe For Reflective Tape, Add	87.39 7.15	9.94
32 39 27 00-0012 EA 4" x 60", 1/4" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe For Reflective Tape, Add	88.90 7.15	9.94
32 39 27 00-0013 EA 5" x 52", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe For Reflective Tape, Add	87.39 7.15	9.94
32 39 27 00-0014 EA 5" x 60", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe For Reflective Tape, Add	88.90 7.15	9.94
32 39 27 00-0015 EA 5" x 72", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe For Reflective Tape, Add	123.41 7.15	9.94
32 39 27 00-0016 EA 6" x 52", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe For Reflective Tape, Add	89.37 7.15	10.93
32 39 27 00-0017 EA 6" x 65", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe For Reflective Tape, Add	113.39 7.15	10.93
32 39 27 00-0018 EA 6" x 84", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe For Reflective Tape, Add	128.80 7.15	10.93
32 39 27 00-0019 EA 7" x 56", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe For Reflective Tape, Add	109.37 7.15	11.93
32 39 27 00-0020 EA 8" x 52", 1/4" Thick LDPE Bollard Cover, Fits 7" To 7-5/16" Pipe For Reflective Tape, Add	118.38 7.15	11.93
32 39 27 00-0021 EA 8" x 69", 1/4" Thick LDPE Bollard Cover, Fits 8" To 8-5/8" Pipe For Reflective Tape, Add	118.38 7.15	11.93
32 39 27 00-0022 EA 10" x 69", 1/4" Thick LDPE Bollard Cover, Fits 10" To 11" Pipe For Reflective Tape, Add	158.91 7.15	11.93
32 39 29 Manufactured Stone Bollards (32 39)		

32 Exterior Improvements**32 30 Site Improvements****32 39 Manufactured Site Specialties**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
32 39 29 00-0001		Stone Bollards <small>(32 39 29)</small> See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.			
32 39 29 00-0002		Granite Bollards <small>(32 39 29 00-0001)</small>			
32 39 29 00-0003	EA	16" x 16" x 30" Granite Bollard, Smooth Matt Finish Note: Surface mounted with anchors embedded into grout pockets.	1,240.50		113.49
32 39 29 00-0004	EA	16" x 16" x 54" Granite Bollard, Smooth Matt Finish Note: Surface mounted with anchors embedded into grout pockets.	1,570.85		158.88
32 39 29 00-0005	EA	12" x 12" x 24" Granite Bollard, Rough Finish, Pyramid Top Note: Surface mounted with anchors embedded into grout pockets.	768.75		113.49
32 39 29 00-0006	EA	12" Diameter x 18" Granite Bollard, Smooth Matt Finish Note: Flat Top, surface mounted with anchors embedded into grout pockets.	1,139.82		90.79
32 39 29 00-0007	EA	24" x 24" x 20" Granite Bollard, Octagonal Cross Section Note: Smooth matt finish, flat top, surface mounted with anchors embedded into grout pockets.	1,701.86		90.79
32 80 Irrigation <small>(32)</small>					
32 84 Planting Irrigation <small>(32 80)</small>					
32 84 13 Drip Irrigation <small>(32 84)</small>					
32 84 13 00-0001 Drip Emitter Irrigation Devices <small>(32 84 13)</small>					
32 84 13 00-0002 Drip Emitter Irrigation Valves <small>(32 84 13 00-0001)</small>					
32 84 13 00-0003	EA	1/2" Air/Vacuum Relief Valve For Drip Emitter Irrigation Systems (Rain Bird® ARV050)	43.19		10.56
32 84 13 00-0004	EA	1", Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV100)	66.15		10.56
32 84 13 00-0005	EA	3/4", Anti-Siphon, Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV075)	64.55		10.56
32 84 13 00-0006	EA	3/4", Latching Solenoid, Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV075TBOS)	86.13		10.56
32 84 13 00-0007 Drip Emitter Irrigation Filters <small>(32 84 13 00-0001)</small>					
32 84 13 00-0008	EA	3/4" Inlet/Outlet, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® QKCHK-075)	131.71		10.56
32 84 13 00-0009	EA	1" Inlet/Outlet, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® QKCHK-100)	132.90		10.56
32 84 13 00-0010	EA	3/4" Inlet/Outlet, Inline Wye Filter For Drip Emitter Irrigation Systems (Rain Bird® RBY075MPTX)	53.22		10.56
32 84 13 00-0011	EA	1" Inlet/Outlet, Inline Wye Filter For Drip Emitter Irrigation Systems (Rain Bird® RBY100MPTX)	54.17		10.56
32 84 13 00-0012	EA	1" Inlet/Outlet, Pressure Regulating, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® PRB-QCHK-100)	142.76		10.56
32 84 13 00-0013	EA	3/4" Inlet/Outlet, Pressure Regulating, Inline RBY Filter For Drip Emitter Irrigation Systems (Rain Bird® PRF075RBY)	67.50		10.56
32 84 13 00-0014	EA	1" Inlet/Outlet, Pressure Regulating, Inline RBY Filter For Drip Emitter Irrigation Systems (Rain Bird® PRF100RBY)	74.94		10.56
32 84 13 00-0015 Drip Emitter Irrigation Pressure Regulators <small>(32 84 13 00-0001)</small>					
32 84 13 00-0016	EA	3/4", 6 To 300 GPH, 30 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-L30X-075)	52.26		10.56
32 84 13 00-0017	EA	3/4", 120 To 600 GPH, 30 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M30X-075)	52.26		10.56
32 84 13 00-0018	EA	3/4", 120 To 600 GPH, 40 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M40X-075)	52.26		10.56
32 84 13 00-0019	EA	1", 120 To 900 GPH, 40 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M40X-100)	60.08		10.56
32 84 13 00-0020 Drip Emitter Irrigation Tubing <small>(32 84 13 00-0001)</small>					
Note: Includes surface installation and covering of tubing with existing pine straw, pine bark etc.					
32 84 13 00-0021	LF	1/4", Landscape Dripline With Extruded Non-Pressure Compensating Drip Emitters (Rain Bird® LDQ0806100)	3.87		1.48
32 84 13 00-0022	LF	1/2", Landscape Dripline With Extruded Pressure Compensating Drip Emitters (Rain Bird® XFD0612100)	3.61		1.69
32 84 13 00-0023	LF	1/4", UV-Resistant, Polyethylene, Distribution Tubing For Drip Emitter Irrigation Systems (Rain Bird® XQ100)	3.11		1.48
For Shallow Trenching And Backfill By Hand, Add			6.06		
32 84 13 00-0024	LF	1/2", UV-Resistant, Polyethylene, Distribution Tubing For Drip Emitter Irrigation Systems (Rain Bird® XT700100)	3.65		1.69
For Shallow Trenching And Backfill By Hand, Add			6.56		
32 84 13 00-0025 Drip Emitter Irrigation Fittings <small>(32 84 13 00-0001)</small>					
32 84 13 00-0026	EA	1/4", Barbed Coupling For Irrigation Tubing (Rain Bird® XBF1CONN)	2.78		
32 84 13 00-0027	EA	1/4", Barbed Elbow For Irrigation Tubing (Rain Bird® XBF2EL)	2.81		
32 84 13 00-0028	EA	1/4", Barbed Tee For Irrigation Tubing (Rain Bird® XBF3TEE)	2.85		
32 84 13 00-0029	EA	1/4", Self Piercing Barbed Coupling For Irrigation Tubing (Rain Bird® SPB025)	2.99		
32 84 13 00-0030	EA	1/4", Plug For Irrigation Tubing (Rain Bird® EMAGPX)	2.76		
32 84 13 00-0031	EA	17mm, Barbed Coupling For Irrigation Tubing (Rain Bird® XFFCOUP)	2.92		
For Compression Fitting, Add			0.28		
32 84 13 00-0032	EA	17mm, Barbed Elbow For Irrigation Tubing (Rain Bird® XFF-ELBOW)	3.00		
For Compression Fitting, Add			0.36		
32 84 13 00-0033	EA	17mm, Barbed Tee For Irrigation Tubing (Rain Bird® XFF-TEE)	3.05		
For Compression Fitting, Add			0.41		
32 84 13 00-0034	EA	17mm, Barbed Male Adapter For Irrigation Tubing (Rain Bird® XFFMA050)	3.07		
For Compression Fitting, Add			0.43		
32 84 13 00-0035	EA	17mm, Barbed Cross For Irrigation Tubing (Rain Bird® XFFCROSS)	3.24		
For Compression Fitting, Add			0.60		



Exterior Improvements		32
Irrigation		32 80
Planting Irrigation		32 84

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 13 00-0036	EA		1/2", Plug For Irrigation Tubing (Rain Bird® MDCFCAP).....	3.43	
32 84 13 00-0037	EA		12 Gauge, Galvanized Stake For Irrigation Tubing (Rain Bird® TDS050BEND)	1.69	
32 84 13 00-0038			Drip Emitters (32 84 13 00-0001)		
32 84 13 00-0039	EA		0.5 To 2 GPH, Single Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® XB20PC).....	5.72	
32 84 13 00-0040	EA		5 To 24 GPH, Single Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® PC24).....	6.48	
32 84 13 00-0041	EA		0.5 To 2 GPH, Six Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® XB056).....	13.29	
32 84 13 00-0042			Drip Emitter Irrigation Micro-Bubblers, Sprays And Misters (32 84 13 00-0001)		
32 84 13 00-0043	EA		Adjustable Stream Bubbler With Spike For Drip Emitter Irrigation Systems (Rain Bird® SXB360SPYK).....	22.30	9.51
32 84 13 00-0044	EA		Adjustable Micro Spray With Spike For Drip Emitter Irrigation Systems (Rain Bird® XS360TSPYK)	22.35	9.51
32 84 13 00-0045	EA		12" Height, Riser Assembly With Pressure Compensating Nozzle For Drip Emitter Irrigation Systems (Rain Bird® SQADP12 With SQFUL).....	24.44	9.51
32 84 13 00-0046	EA		24" Height, Riser Assembly With Pressure Compensating Nozzle For Drip Emitter Irrigation Systems (Rain Bird® SQADP24 With SQFUL).....	24.66	9.51
32 84 13 00-0047	EA		4" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP-400X With SQFUL) Note: Includes nozzle.	35.51	12.46
32 84 13 00-0048	EA		6" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP-600X With SQFUL) Note: Includes nozzle.	38.21	12.46
32 84 13 00-0049	EA		12" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP1200X With SQFUL)..... Note: Includes nozzle.	38.25	12.46
32 84 13 00-0050			Subsurface Drip Emitter Irrigation Tubing (Rain Bird® XFS) (32 84 13 00-0001) Note: Brown or purple tubing. Includes layout, trenching 4" to 6", installing tubing and backfilling trench.		
32 84 13 00-0051	LF		0.536" ID, 0.634" OD, Subsurface Drip Emitter Irrigation Tubing (Rain Bird® XFS Copper Shield)	4.12	1.84
32 84 23			Underground Sprinklers (32 84)		
32 84 23 00-0001			Sprinkler Heads (32 84 23)		
32 84 23 00-0002			Spray Sprinkler Heads (32 84 23 00-0001) Note: Includes plastic riser and case. Includes spray, variable arc or bubbler nozzle with partial or full circle coverage.		
32 84 23 00-0003	EA		2" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1802P)..... For Rotary Nozzle, Add	31.41 3.25	11.67
32 84 23 00-0004	EA		4" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1804P)..... For Rotary Nozzle, Add	29.87 3.25	11.67
32 84 23 00-0005	EA		6" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1806P)..... For Rotary Nozzle, Add	35.55 3.25	11.67
32 84 23 00-0006	EA		12" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1812P)..... For Rotary Nozzle, Add	40.31 3.25	11.67
32 84 23 00-0007	EA		4" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1804-SAM)..... For Rotary Nozzle, Add	32.01 3.25	11.67
32 84 23 00-0008	EA		6" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1806-SAM)..... For Rotary Nozzle, Add	40.01 3.25	11.67
32 84 23 00-0009	EA		12" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1812-SAM)..... For Rotary Nozzle, Add	43.86 3.25	11.67
32 84 23 00-0010	EA		4" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1804-PRS)..... For Rotary Nozzle, Add	34.29 3.25	11.67
32 84 23 00-0011	EA		6" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1806-PRS)..... For Rotary Nozzle, Add	41.58 3.25	11.67
32 84 23 00-0012	EA		12" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1812-PRS)..... For Rotary Nozzle, Add	45.18 3.25	11.67
32 84 23 00-0013	EA		4" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1804-SAM-PRS)..... For Rotary Nozzle, Add	35.20 3.25	11.67
32 84 23 00-0014	EA		6" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1806-SAM-PRS)..... For Rotary Nozzle, Add	46.39 3.25	11.67
32 84 23 00-0015	EA		12" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1812-SAM-PRS)..... For Rotary Nozzle, Add	49.94 3.25	11.67
32 84 23 00-0016	EA		Bubbler Head With Screen, 1/2" NPT (Rain Bird® 1300)..... For Rotary Nozzle, Add	26.89 3.25	11.67
32 84 23 00-0017	EA		Pressure Compensating Bubbler With Screen, 1/2" NPT (Rain Bird® 1400).....	30.44	11.67
32 84 23 00-0018			Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0001) Note: Maximum spacing is equivalent to maximum radius.		
32 84 23 00-0019			1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover and nozzle with partial or full circle coverage.		
32 84 23 00-0020	EA		4" Pop-Up Height, 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 3504PC)..... For Non-Potable Cover, Add	42.64 2.00	11.67
32 84 23 00-0021	EA		4" Pop-Up Height, 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 3504-PC-SAM)..... For Non-Potable Cover, Add	43.91 2.00	11.67

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0022			3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover and nozzle with partial or full circle coverage.		
32 84 23 00-0023	EA		4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 5004-PLPC).....	39.61	11.67
			For Non-Potable Cover, Add	2.00	
			For Stainless Steel Riser, Add	9.00	
32 84 23 00-0024	EA		6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 5006-PLPC).....	53.28	11.67
			For Non-Potable Cover, Add	2.00	
			For Stainless Steel Riser, Add	9.00	
32 84 23 00-0025	EA		4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5004-PLPCS).....	42.14	11.67
			For Non-Potable Cover, Add	2.00	
			For Stainless Steel Riser, Add	9.00	
32 84 23 00-0026	EA		6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5006-PLPCS).....	55.30	11.67
			For Non-Potable Cover, Add	2.00	
			For Stainless Steel Riser, Add	9.00	
32 84 23 00-0027	EA		4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Pressure Regulator (Rain Bird® 5004+PCR).....	43.15	11.67
			For Non-Potable Cover, Add	2.00	
			For Stainless Steel Riser, Add	9.00	
32 84 23 00-0028	EA		4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5004+FCSR).....	45.18	11.67
			For Non-Potable Cover, Add	2.00	
			For Stainless Steel Riser, Add	9.00	
32 84 23 00-0029	EA		6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5006+PCSR).....	58.34	11.67
			For Non-Potable Cover, Add	2.00	
			For Stainless Steel Riser, Add	9.00	
32 84 23 00-0030	EA		12" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5012+PCSR).....	66.44	11.67
			For Non-Potable Cover, Add	2.00	
			For Stainless Steel Riser, Add	9.00	
32 84 23 00-0031	EA		Shrub Type, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5000S-PLPCS).....	44.92	11.67
			For Non-Potable Cover, Add	2.00	
32 84 23 00-0032	EA		Shrub Type, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5000S+PCSR).....	53.02	11.67
			For Non-Potable Cover, Add	2.00	
32 84 23 00-0033			1" Inlet, Up To 65' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover, check valve and nozzle with partial or full circle coverage.		
32 84 23 00-0034	EA		4" Pop-Up Height, 1" Inlet, Up To 65' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® F4PC).....	72.27	11.67
			For Non-Potable Cover, Add	2.00	
			For Stainless Steel Riser, Add	9.00	
			For Stainless Steel Riser And High Speed Rotor, Add	37.27	
32 84 23 00-0035			1" Inlet, Up To 80' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover, check valve and nozzle with partial or full circle coverage.		
32 84 23 00-0036	EA		5" Pop-Up Height, 1" Inlet, Up To 80' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 8005).....	101.64	11.67
			For Non-Potable Cover, Add	2.00	
			For Stainless Steel Riser, Add	9.00	
32 84 23 00-0037			Impact-Drive Sprinkler Heads (32 84 23 00-0001) Note: Includes partial or full circle coverage. Maximum spacing is equivalent to maximum radius.		
32 84 23 00-0038	EA		1/2" Inlet, Up To 45' Spacing, Pop-Up, Impact-Drive Rotary Sprinkler Head (Rain Bird® 2045A-08).....	58.09	11.67
			For Non-Potable Cover, Add	2.00	
32 84 23 00-0039	EA		1/2" Inlet, Up To 45' Spacing, Riser Mounted, Plastic Body, Impact-Drive Sprinkler Head (Rain Bird® 2045-PJ08).....	45.94	11.67
32 84 23 00-0040	EA		3/4" Inlet, Up To 51' Spacing, Riser Mounted, Brass/Bronze Body, Impact-Drive Sprinkler Head (Rain Bird® 35A-ADJ-TNTB).....	86.43	11.67
32 84 23 00-0041			Electric Remote Control Irrigation Valves (32 84 23)		
32 84 23 00-0042			0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valves (Rain Bird® DV Series) (32 84 23 00-0041) Note: 15 to 150 PSI.		
32 84 23 00-0043	EA		3/4", 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 75DV).....	132.40	48.64
32 84 23 00-0044	EA		1", 0.2 To 40 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100DV).....	132.40	48.64
32 84 23 00-0045	EA		1", 0.2 To 40 GPM, Slip-On, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100DVSS).....	146.30	55.44
32 84 23 00-0046	EA		1", 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Angle Valve (Rain Bird® 100DVA).....	133.41	48.64
32 84 23 00-0047			0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valves With Flow Control (Rain Bird® DVF Series) (32 84 23 00-0041) Note: 15 to 150 PSI.		
32 84 23 00-0048	EA		1", 0.2 To 40 GPM, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVF).....	133.41	48.64
32 84 23 00-0049	EA		1", 0.2 To 40 GPM, Slip-On, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVFSS).....	147.82	55.44



Exterior Improvements		32
Irrigation		32 80
Planting Irrigation		32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0050 EA 1", 0.2 To 40 GPM, Male x Barb, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVFMB).....	148.83	55.44
32 84 23 00-0051 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves (Rain Bird® PEB Series) (32 84 23 00-0041) Note: 20 to 200 PSI.		
32 84 23 00-0052 EA 1", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100PEB).....	214.43	48.64
32 84 23 00-0053 EA 1-1/2", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 150PEB).....	249.88	48.64
32 84 23 00-0054 EA 2", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 200PEB).....	295.45	48.64
32 84 23 00-0055 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves With Pressure Regulator (Rain Bird® PEB PRS-D Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0056 EA 1", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 100PEB PRS-D).....	303.90	54.67
32 84 23 00-0057 EA 1-1/2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 150PEB PRS-D).....	339.35	54.67
32 84 23 00-0058 EA 2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 200PEB PRS-D).....	384.92	54.67
32 84 23 00-0059 20 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves With Pressure Regulator And Scrubber Valve (Rain Bird® PESB PRS-D Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0060 EA 1", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 100PESB PRS-D).....	354.54	54.67
32 84 23 00-0061 EA 1-1/2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 150PESB PRS-D).....	389.98	54.67
32 84 23 00-0062 EA 2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 200PESB PRS-D).....	435.56	54.67
32 84 23 00-0063 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves (Hunter IBV Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure.		
32 84 23 00-0064 EA 1", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-101G-B).....	315.25	48.64
32 84 23 00-0065 EA 1-1/2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-151G-B).....	478.21	48.64
32 84 23 00-0066 EA 2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-201G-B).....	492.94	48.64
32 84 23 00-0067 EA 3", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-301G-B).....	1,149.48	65.67
32 84 23 00-0068 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves (Rain Bird® EFB-CP Series) (32 84 23 00-0041) Note: 15 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0069 EA 1", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 100EFB-CP).....	292.91	54.67
32 84 23 00-0070 EA 1-1/4", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 125EFB-CP).....	341.37	54.67
32 84 23 00-0071 EA 1-1/2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 150EFB-CP).....	393.98	54.67
32 84 23 00-0072 EA 2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 200EFB-CP).....	463.26	54.67
32 84 23 00-0073 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves (Hunter IBV FS Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0074 EA 1", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-101G-B-FS).....	384.00	54.67
32 84 23 00-0075 EA 1-1/2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-151G-B-FS).....	577.35	54.67
32 84 23 00-0076 EA 2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-201G-B-FS).....	593.92	54.67
32 84 23 00-0077 EA 3", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-301G-B-FS).....	1,225.52	54.67
32 84 23 00-0078 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV ACCU-SYNC Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0079 EA 1", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-101G-B ACCU-SYNC-ADJ).....	388.90	48.64
32 84 23 00-0080 EA 1-1/2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-151G-B ACCU-SYNC-ADJ).....	551.87	48.64
32 84 23 00-0081 EA 2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-201G-B ACCU-SYNC-ADJ).....	566.60	48.64
32 84 23 00-0082 EA 3", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-301G-B ACCU-SYNC-ADJ).....	1,223.14	65.67

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 84 23 00-0083	EA	5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves With Pressure Regulator (Rain Bird® EFB-CP PRS-D Series) <small>(32 84 23 00-0041)</small> Note: 15 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0084	EA	1", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 100EFB-CP PRS-D).....	368.87	54.67
32 84 23 00-0085	EA	1-1/4", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 125EFB-CP PRS-D).....	417.33	54.67
32 84 23 00-0086	EA	1-1/2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 150EFB-CP PRS-D).....	469.94	54.67
32 84 23 00-0087	EA	2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 200EFB-CP PRS-D).....	539.22	54.67
32 84 23 00-0088	EA	0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV FS ACCU-SYNC Series) <small>(32 84 23 00-0041)</small> Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0089	EA	1", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-101G-B-FS ACCU-SYNC-ADJ).....	457.66	54.67
32 84 23 00-0090	EA	1-1/2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-151G-B-FS ACCU-SYNC-ADJ).....	651.00	54.67
32 84 23 00-0091	EA	2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-201G-B-FS ACCU-SYNC-ADJ).....	667.58	54.67
32 84 23 00-0092	EA	3", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-301G-B-FS ACCU-SYNC-ADJ).....	1,299.18	54.67
32 84 23 00-0093	EA	Other Electric Remote Control Valves/Accessories <small>(32 84 23 00-0041)</small>		
32 84 23 00-0094	EA	Pressure Regulator Module For Electric Remote Control Valves (Rain Bird® PRS-DIAL).....	114.87	
32 84 23 00-0095	EA	Remote Control Valve Assemblies <small>(32 84 23 00-0041)</small> Note: Includes excavation and disposal of soil, installation of 6" minimum depth gravel or crushed rock, woven wire cloth, valve, fittings, valve box (Carson 1419-12), as detailed in the Caltrans Standard Plans 2010 page 224.		
32 84 23 00-0096	EA	1" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12).....	459.14	121.60
32 84 23 00-0097	EA	1-1/2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12).....	494.59	121.60
32 84 23 00-0098	EA	2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12).....	540.16	121.60
32 84 23 00-0099	EA	1" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12)..... Note: Purple components for use with recycled water	509.78	121.60
32 84 23 00-0100	EA	1-1/2" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12)..... Note: Purple components for use with recycled water	545.22	121.60
32 84 23 00-0101	EA	2" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12)..... Note: Purple components for use with recycled water	590.80	121.60
32 84 23 00-0102	EA	1" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12)..... Note: Purple components for use with recycled water	524.11	121.60
32 84 23 00-0103	EA	1-1/2" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12)..... Note: Purple components for use with recycled water	625.18	121.60
32 84 23 00-0104	EA	2" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12)..... Note: Purple components for use with recycled water	694.46	121.60
32 84 23 00-0105	EA	Irrigation Valve Boxes <small>(32 84 23)</small> Note: Includes lid.		
32 84 23 00-0106	EA	6" Round Irrigation Valve Box With Lid (Rain Bird® PVB-6RND).....	81.78	35.02
32 84 23 00-0107	EA	7" Round Irrigation Valve Box With Lid (Rain Bird® VB-7RND).....	93.74	35.02
32 84 23 00-0108	EA	10" Round Irrigation Valve Box With Lid (Rain Bird® VB-10RND).....	123.01	46.11
32 84 23 00-0109	EA	21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-STD).....	201.06	67.32
32 84 23 00-0110	EA	21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-STDH).....	204.62	67.32
32 84 23 00-0111	EA	26.3" x 19.8" x 12.1" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-JMB).....	230.16	67.32
32 84 23 00-0112	EA	26.3" x 19.8" x 12.1" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-JMBH).....	233.21	67.32
32 84 23 00-0113	EA	33.1" x 23.8" x 15" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-SPRH).....	379.17	67.32
32 84 23 00-0114	EA	40.3" x 27.1" x 18" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-MAXH).....	568.23	67.32
32 84 23 00-0115	EA	Number 5 CALTRANS Concrete Valve Box With Non-Traffic Rated Concrete Lid.....	356.76	113.01
		<i>For 12" Extension, Add</i>	74.08	
32 84 23 00-0116	EA	Number 5 CALTRANS Concrete Valve Box With Non-Traffic Rated Steel Lid..... <i>For 12" Extension, Add</i>	542.49	113.01
			74.08	
32 84 23 00-0117	EA	12" x 17" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Carson 1419-12).....	164.22	58.37
32 84 23 00-0118	EA	15" x 21" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Carson 1220-12).....	231.77	67.32
32 84 23 00-0119	EA	10" Round Irrigation Valve Box With Lid (Carson 910-10).....	128.43	46.11



Exterior Improvements		32
Irrigation		32 80
Planting Irrigation		32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0120 Irrigation Controllers ^(32 84 23) See CSI section 27 15 13 00-0256 for low voltage wiring.		
32 84 23 00-0121 Irrigation Controllers ^(32 84 23 00-0120)		
32 84 23 00-0122 Irrigation Controllers (Rain Bird®) ^(32 84 23 00-0121)		
32 84 23 00-0123 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP Series) ^(32 84 23 00-0122)		
32 84 23 00-0124 Four Program, Modular Irrigation Controllers (Rain Bird® ESP-ME Series) ^(32 84 23 00-0123)		
32 84 23 00-0125 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-MEI Series) ^(32 84 23 00-0124)		
32 84 23 00-0126 EA 4-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	272.85	30.17
32 84 23 00-0127 EA 7-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	381.84	30.17
32 84 23 00-0128 EA 10-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	490.84	30.17
32 84 23 00-0129 EA 13-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	599.84	30.17
32 84 23 00-0130 EA 16-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	678.67	30.17
32 84 23 00-0131 EA 19-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	791.45	30.17
32 84 23 00-0132 EA 22-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	904.22	30.17
32 84 23 00-0133 Four Program, Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-ME Series) ^(32 84 23 00-0124)		
32 84 23 00-0134 EA 4-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	313.23	30.17
32 84 23 00-0135 EA 7-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	422.23	30.17
32 84 23 00-0136 EA 10-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	531.23	30.17
32 84 23 00-0137 EA 13-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	640.22	30.17
32 84 23 00-0138 EA 16-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	719.06	30.17
32 84 23 00-0139 EA 19-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	831.84	30.17
32 84 23 00-0140 EA 22-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	944.60	30.17
32 84 23 00-0141 Four Program, Modular Irrigation Controllers (Rain Bird® ESP-SMTE Series) ^(32 84 23 00-0123)		
32 84 23 00-0142 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-SMTEI Series) ^(32 84 23 00-0141)		
32 84 23 00-0143 EA 4-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	413.14	30.17
32 84 23 00-0144 EA 7-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	522.13	30.17
32 84 23 00-0145 EA 10-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	631.13	30.17
32 84 23 00-0146 EA 13-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	740.13	30.17
32 84 23 00-0147 EA 16-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	818.96	30.17
32 84 23 00-0148 EA 19-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	931.74	30.17
32 84 23 00-0149 EA 22-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	1,044.51	30.17
32 84 23 00-0150 Four Program, Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-SMTE Series) ^(32 84 23 00-0141)		
32 84 23 00-0151 EA 4-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	443.40	30.17
32 84 23 00-0152 EA 7-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	552.39	30.17
32 84 23 00-0153 EA 10-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	661.39	30.17
32 84 23 00-0154 EA 13-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	770.39	30.17
32 84 23 00-0155 EA 16-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	849.22	30.17
32 84 23 00-0156 EA 19-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	962.01	30.17
32 84 23 00-0157 EA 22-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	1,074.77	30.17
32 84 23 00-0158 Accessories For ESP-ME/MEI Irrigation Controllers ^(32 84 23 00-0123)		
32 84 23 00-0159 EA 3-Station Expansion Module For ESP Series Irrigation Controllers (Rain Bird® ESP-SM3)..... Note: Use task for increasing capacity of existing ESP series irrigation controllers up to a maximum of 22-stations.	112.77	
32 84 23 00-0160 EA 6-Station Expansion Module For ESP Series Irrigation Controllers (Rain Bird® ESP-SM6)..... Note: Use task for increasing capacity of existing ESP series irrigation controllers up to a maximum of 22-stations.	217.11	
32 84 23 00-0161 EA Smart Controller Upgrade Kit For ESP Series Irrigation Controllers (Rain Bird® ESPSMTEUPG).....	277.20	
32 84 23 00-0162 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LX Series) ^(32 84 23 00-0122)		
32 84 23 00-0163 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LX Basic Series) ^(32 84 23 00-0162)		
32 84 23 00-0164 EA 12-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	631.18	30.17
32 84 23 00-0165 EA 16-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	767.59	30.17
32 84 23 00-0166 EA 20-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	905.99	30.17
32 84 23 00-0167 EA 24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,042.40	30.17
32 84 23 00-0168 EA 28-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,180.78	30.17
32 84 23 00-0169 EA 32-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,317.21	30.17

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0170 EA 36-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,455.58	30.17
32 84 23 00-0171 EA 40-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,592.00	30.17
32 84 23 00-0172 EA 44-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,730.38	30.17
32 84 23 00-0173 EA 48-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,866.81	30.17
32 84 23 00-0174 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LXME Series) (32 84 23 00-0162)		
32 84 23 00-0175 EA 8-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	612.28	30.17
32 84 23 00-0176 EA 12-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	748.70	30.17
32 84 23 00-0177 EA 16-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	887.07	30.17
32 84 23 00-0178 EA 20-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,023.51	30.17
32 84 23 00-0179 EA 24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,161.88	30.17
32 84 23 00-0180 EA 28-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,298.30	30.17
32 84 23 00-0181 EA 32-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,436.68	30.17
32 84 23 00-0182 EA 36-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,573.10	30.17
32 84 23 00-0183 EA 40-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,711.48	30.17
32 84 23 00-0184 EA 44-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,847.90	30.17
32 84 23 00-0185 EA 48-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,986.29	30.17
32 84 23 00-0186 Accessories For ESP-LX/LXME Irrigation Controllers (32 84 23 00-0162)		
32 84 23 00-0187 EA Powder Coated Steel Wall Cabinet For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMM).....	432.86	
32 84 23 00-0188 EA Powder Coated Steel Cabinet And Pedestal For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMPED + LXMM).....	997.94	
Note: Excludes concrete foundation.		
32 84 23 00-0189 EA Stainless Steel Wall Cabinet For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMSS).....	927.42	
32 84 23 00-0190 EA Stainless Steel Cabinet And Pedestal For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMSSPED + LXMMSS).....	2,055.63	
Note: Excludes concrete foundation.		
32 84 23 00-0191 EA 4-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM4).....	136.41	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0192 EA 8-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM8).....	274.81	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0193 EA 12-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM12).....	424.68	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0194 EA Flow Smart Water Management Module For ESP-LXME Irrigation Controllers (Rain Bird® FSM-LXME).....	153.37	
32 84 23 00-0195 Three Program, Battery-Operated, Buriable Irrigation Control Modules (Rain Bird® TBOS-II Series) (32 84 23 00-0122)		
32 84 23 00-0196 Three Program, Battery-Operated, Buriable Irrigation Control Modules (Rain Bird® TBOS-II Series) (32 84 23 00-0195)		
32 84 23 00-0197 EA 1-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....	296.15	30.17
32 84 23 00-0198 EA 2-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....	360.59	30.17
32 84 23 00-0199 EA 4-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....	456.16	30.17
32 84 23 00-0200 Accessories For TBOS-II Series Irrigation Controllers (32 84 23 00-0195)		
32 84 23 00-0201 EA Field Transmitter For TBOS-II Series Irrigation Controllers (Rain Bird® TBOS2FTUS).....	342.77	
32 84 23 00-0202 EA Potted Latching Solenoid For TBOS-II Series Irrigation Controllers (Rain Bird® TBOSPSOL).....	78.84	22.62
32 84 23 00-0203 Accessories For Irrigation Controllers (Rain Bird®) (32 84 23 00-0122)		
32 84 23 00-0204 EA Wired Rain Sensor For Irrigation Controllers (Rain Bird® RSDBEX).....	122.81	22.62
32 84 23 00-0205 EA Wireless Rain Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RC).....	241.90	22.62
32 84 23 00-0206 EA Wireless Rain/Freeze Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RFC).....	253.65	22.62
32 84 23 00-0207 EA Soil Moisture Sensor And Controller Interface For Irrigation Controllers (Rain Bird® SMRT-Y).....	355.50	22.62
32 84 23 00-0208 Two-Wire Decoder Systems (32 84 23 00-0120)		
32 84 23 00-0209 Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0208)		
32 84 23 00-0210 Controllers For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series) (32 84 23 00-0209)		
Note: Includes water resistant cabinet.		
32 84 23 00-0211 EA 50-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series).....	1,727.06	30.17
32 84 23 00-0212 EA 125-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series).....	2,558.50	30.17
32 84 23 00-0213 EA 200-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series).....	3,389.96	30.17
32 84 23 00-0214 Field Decoders For Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0209)		
32 84 23 00-0215 EA One Individual Valve Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD101TURF).....	218.55	30.17
32 84 23 00-0216 EA One Pair Of Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD102TURF).....	276.73	30.17
32 84 23 00-0217 EA Two Pair Of Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD202TURF).....	410.10	30.17
32 84 23 00-0218 EA Up To Four Individual Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD401TURF).....	493.12	30.17



Exterior Improvements		32
Irrigation		32 80
Planting Irrigation		32 84

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0219 EA Up To Six Individual Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD601TURF)	803.16	30.17
32 84 23 00-0220 Accessories For Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0209)		
32 84 23 00-0221 EA 50-Station Replacement Base Module For ESP-LXD Series Two Wire Decoder Based Controllers (Rain Bird® MOD50-LXD)	1,299.87	
32 84 23 00-0222 EA 75-Station Expansion Module For ESP-LXD Series Two Wire Decoder Based Controllers (Rain Bird® SPLXDSM75)	831.45	
32 84 23 00-0223 EA Line Surge Protection For ESP-LXD Series Two-Wire Decoder Systems (Rain Bird® LSP1TURF)	166.10	26.39
32 84 23 00-0224 EA Sensor Decoder Interface For ESP-LXD Series Two-Wire Decoder Systems (Rain Bird® SD210TURF)	697.28	30.17
32 84 23 00-0225 Calsense Controllers (32 84 23 00-0120)		
32 84 23 00-0226 Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0227 EA 6 Station ET-Driven Irrigation Controller (Calsense ET2000E-6)	1,957.68	75.40
32 84 23 00-0228 EA 8 Station ET-Driven Irrigation Controller (Calsense ET2000E-8)	2,522.79	84.83
32 84 23 00-0229 EA 12 Station ET-Driven Irrigation Controller (Calsense ET2000E-12)	3,457.68	94.26
32 84 23 00-0230 EA 16 Station ET-Driven Irrigation Controller (Calsense ET2000E-16)	3,802.24	94.26
32 84 23 00-0231 EA 24 Station ET-Driven Irrigation Controller (Calsense ET2000E-24)	4,493.41	103.68
32 84 23 00-0232 EA 32 Station ET-Driven Irrigation Controller (Calsense ET2000E-32)	5,417.85	103.68
32 84 23 00-0233 EA 40 Station ET-Driven Irrigation Controller (Calsense ET2000E-40)	6,134.23	113.11
32 84 23 00-0234 EA 48 Station ET-Driven Irrigation Controller (Calsense ET2000E-48)	6,865.38	113.11
32 84 23 00-0235 EA Upgrade Existing Calsense Controller To ET2000E (Calsense ET2000E-UPGRADE)	1,985.40	37.71
32 84 23 00-0236 EA Upgrade Existing Calsense Controller With 8 Additional Stations (Calsense STATION UPGRADE)	839.40	37.71
32 84 23 00-0237 Irrigation Controller Accessories (32 84 23 00-0225)		
32 84 23 00-0238 EA Set Of 10 Keys For Calsense Controllers Or Enclosures (Calsense KEY-1)	80.68	
32 84 23 00-0239 EA Spare Lock For Enclosures (Calsense PAD)	87.40	
32 84 23 00-0240 EA Hardware And Software For Up To 4 Additional Light Circuits (Calsense L)	106.25	9.43
32 84 23 00-0241 EA Transformer For Irrigation Controllers (Calsense TR-1)	159.44	37.71
32 84 23 00-0242 EA AC Line Protection For Irrigation Controllers (Calsense TP-110)	419.96	37.71
32 84 23 00-0243 EA Transient Protection Board For Irrigation Controller Stations (Calsense TP-1)	554.43	37.71
<i>For Outdoor Gray Powder Coated Stainless Steel Enclosure, Add</i>	344.59	
32 84 23 00-0244 Sensors For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0245 Flow Sensors (32 84 23 00-0244)		
32 84 23 00-0246 EA 1-1/2" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 1.5)	970.32	56.56
<i>For Flow Meter Replacement Insert Only, Deduct</i>	-599.91	
32 84 23 00-0247 EA 2" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 2)	1,003.93	56.56
<i>For Flow Meter Replacement Insert Only, Deduct</i>	-633.52	
32 84 23 00-0248 EA 3" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 3)	1,037.55	56.56
<i>For Flow Meter Replacement Insert Only, Deduct</i>	-667.14	
32 84 23 00-0249 EA 1" Brass Tee Mounted Flow Meter (Calsense FM 1B)	1,150.90	75.40
<i>For Flow Meter Replacement Insert Only, Deduct</i>	-780.18	
32 84 23 00-0250 EA 1-1/4" Brass Tee Mounted Flow Meter (Calsense FM 1.25B)	1,234.94	75.40
<i>For Flow Meter Replacement Insert Only, Deduct</i>	-864.22	
32 84 23 00-0251 EA 1-1/2" Brass Tee Mounted Flow Meter (Calsense FM 1.5B)	1,268.55	75.40
<i>For Flow Meter Replacement Insert Only, Deduct</i>	-897.83	
32 84 23 00-0252 EA 2" Brass Tee Mounted Flow Meter (Calsense FM 2B)	1,487.06	75.40
<i>For Flow Meter Replacement Insert Only, Deduct</i>	-988.15	
32 84 23 00-0253 EA 2" Pipe Saddle Mounted Insertion Flow Meter (Calsense FMBX)	1,151.11	37.71
<i>Note: For 4" and larger pipe. Excludes pipe saddle.</i>		
<i>For Flow Meter Replacement Insert Only, Deduct</i>	-652.21	
32 84 23 00-0254 Moisture Sensors (32 84 23 00-0244)		
32 84 23 00-0255 EA Soil Moisture Sensor (Calsense 1000-S)	409.53	28.28
32 84 23 00-0256 Weather Sensors (32 84 23 00-0244)		
32 84 23 00-0257 EA Wind Gage, Irrigation Weather Sensor (Calsense WG-1)	1,117.28	75.40
32 84 23 00-0258 EA Tipping Rain Bucket, Irrigation Weather Sensor (Calsense RB-1)	1,301.71	150.82
32 84 23 00-0259 EA ET Gage, Irrigation Weather Sensor (Calsense ETG)	2,537.32	113.11
32 84 23 00-0260 Weather Sensor Accessories (32 84 23 00-0244)		
32 84 23 00-0261 EA Ceramic Cup For ET Gage Weather Sensor (Calsense ETG-C)	747.72	
32 84 23 00-0262 EA Removal And Replacement Of Circuit Board For ET Gage Weather Sensor (Calsense ETG-PCB)	1,403.23	
32 84 23 00-0263 EA Vandal Resistant Mounting Base For ET Gage Enclosure (Calsense ETGE-BASE)	747.72	37.71
32 84 23 00-0264 EA Vandal Resistant Stainless Steel Enclosure For ET Gage (Calsense ETGE)	1,710.11	37.71
32 84 23 00-0265 Antennas For Irrigation Controllers (32 84 23 00-0225)		
<i>Note: Excludes antenna cable.</i>		
32 84 23 00-0266 EA Local Radio Dome Antenna (Calsense LR-DOME)	394.75	37.71
32 84 23 00-0267 EA Local Radio Stick Antenna (Calsense LR-STICK)	571.24	37.71
32 84 23 00-0268 EA Local Radio Yagi Antenna (Calsense LR-YAGI)	646.66	75.40

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0269 EA Local Radio And Calsense Radio, Remote Dome Antenna (Calsense LR-DOME-RR)	394.75	37.71
32 84 23 00-0270 EA Local Radio And Calsense Radio, Enhanced Remote Dome Antenna (Calsense LR-DOME-RRE)	394.75	37.71
32 84 23 00-0271 EA GPRS Stubby Antenna (Calsense GR-STUBBY)	394.75	37.71
32 84 23 00-0272 EA GPRS Stick Antenna (Calsense GR-STICK)	571.24	37.71
32 84 23 00-0273 EA Spread Spectrum Dome Antenna (Calsense SR-DOME)	394.75	37.71
32 84 23 00-0274 EA Spread Spectrum Stick Antenna (Calsense SR-STICK)	571.24	37.71
32 84 23 00-0275 EA Spread Spectrum Yagi Antenna (Calsense SR-YAGI)	646.66	75.40
32 84 23 00-0276 EA Spread Spectrum And Calsense Radio, Remote Dome Antenna (Calsense SR-DOME-RR)	394.75	37.71
32 84 23 00-0277 EA Spread Spectrum And Calsense Radio, Enhanced Remote Dome Antenna (Calsense SR-DOME-RRE)	394.75	37.71
32 84 23 00-0278 EA Spread Spectrum Stubby Antenna (Calsense SR-STUBBY)	394.75	37.71
32 84 23 00-0279 EA WiFi Stubby Antenna (Calsense WEN-STUBBY)	394.75	37.71
32 84 23 00-0280 LF Antenna Cable With End Connectors (Calsense LMR-400-DB)	10.65	0.45
32 84 23 00-0281 EA Surge Protection Device For Antenna (Calsense ANT-PROT)	390.68	18.85
32 84 23 00-0282 EA 5' High, Non-Penetrating, Antenna Tripod Mount (Calsense ANT-TRIP5)	638.47	37.71
32 84 23 00-0283 EA 3' Antenna Stand Off Mount For 3" Maximum Tower Leg (Calsense ANT-SOM)	546.26	
32 84 23 00-0284 EA Local Radio Frequency Filter (Calsense LR-FILTER)	773.17	
32 84 23 00-0285 EA Spread Spectrum Frequency Filter (Calsense SR-FILTER)	571.47	
32 84 23 00-0286 Pedestals And Enclosures For Irrigation Controllers <small>(32 84 23 00-0225)</small>		
32 84 23 00-0287 EA 15 Amp, Circuit Breaker With Enclosure For Irrigation Controllers (Calsense SSE-BREAKER)	365.23	56.56
32 84 23 00-0288 EA Standard Gray Powder Coated Stainless Steel Controller Enclosure (Calsense C-BOX)	876.12	94.26
32 84 23 00-0289 EA Indoor Wall Mount, Stainless Steel Back Panel (Calsense SSBP)	957.82	37.71
Note: Includes GFI and receptacle.		
32 84 23 00-0290 EA Standard Gray Powder Coated Stainless Steel Pedestal (Calsense PD-1)	1,140.68	28.28
Note: Includes factory installed transient protection board and AC line protection.		
32 84 23 00-0291 EA Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE)	3,562.17	28.28
Note: Includes factory installed transient protection board and AC line protection.		
32 84 23 00-0292 EA Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-R)	4,023.25	28.28
Note: Includes factory installed transient protection board, AC line protection and dome antenna.		
32 84 23 00-0293 EA Double-Wide Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-D)	5,840.82	56.56
Note: Includes factory installed transient protection boards and AC line protection. Pre-wired for two controllers.		
32 84 23 00-0294 EA Double-Wide Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-D-R)	6,121.59	56.56
Note: Includes factory installed transient protection boards, AC line protection and dome antenna. Pre-wired for two controllers.		
32 84 23 00-0295 EA Bolt Mounting Template For Heavy-Duty Stainless Steel Enclosures (Calsense SSE-CAM)	202.21	
32 84 23 00-0296 EA Stainless Steel Fully Enclosed Riser For Calsense SSE Enclosures (Calsense SSE-PED)	653.24	
32 84 23 00-0297 Central Computer For Irrigation Control Systems <small>(32 84 23 00-0225)</small>		
32 84 23 00-0298 EA Central Computer For Irrigation Control Systems (Calsense COMP-2)	4,491.32	
Note: Includes a minimum of 133 MHz Pentium, 32 Meg Ram, 1.2 GB hard drive, 14.4 modem and a printer. Excludes Command Center Water Management software.		
32 84 23 00-0299 EA Command Center Water Management Software For Central Computer (Calsense COMM-1)	7,944.60	
32 84 23 00-0300 EA Up To 5 Simultaneous Users Capacity, Calsense Advantage Client/Server Database Add-On (Calsense CS-5)	1,527.51	
Note: Package price for up to 5 users. Includes remote communication through internet connection.		
32 84 23 00-0301 EA >5 To 10 Simultaneous Users Capacity, Calsense Advantage Client/Server Database Add-On (Calsense CS-10)	3,002.22	
Note: Package price for 6 to 10 users. Includes remote communication through internet connection.		
32 84 23 00-0302 EA Data Logger With Phone Modem For Irrigation Control Systems (Calsense DL-2)	4,832.05	
32 84 23 00-0303 EA GPRS Radio For Use At Central Computer (Calsense DTR-G)	2,887.92	
32 84 23 00-0304 Data Access Service <small>(32 84 23 00-0225)</small>		
32 84 23 00-0305 EA 1 Month, Data Access Plan For Up To 2 Controllers (Calsense COMM-1MN)	24.45	
Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0306 EA 1 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-1YR)	267.40	
Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0307 EA 5 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-5YR)	1,146.00	
Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0308 EA 1 Month, Data Access Plan For Up To 2 Controllers (Calsense COMM-1MN-M)	99.32	
Note: For communication between GPRS unit and multiple controllers.		
32 84 23 00-0309 EA 1 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-1YR-M)	1,069.60	
Note: For communication between GPRS unit and multiple controllers.		
32 84 23 00-0310 EA 5 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-5YR-M)	4,584.00	
Note: For communication between GPRS unit and multiple controllers.		
32 84 23 00-0311 Communication Options For Irrigation Controllers <small>(32 84 23 00-0225)</small>		
32 84 23 00-0312 EA FCC License Fee (Calsense)	167.59	
32 84 23 00-0313 EA P.C.I.A. And/Or A.P.C.O. Fee (Calsense)	320.39	
Note: Per frequency or frequency pair.		
32 84 23 00-0314 EA Hardware Communication Option For Irrigation Controllers (Calsense M)	886.24	
Note: Allows multiple controllers to be chained together via a communications cable and share one phone line.		
32 84 23 00-0315 EA Phone Line Communication Option For Irrigation Controllers (Calsense R)	932.08	
32 84 23 00-0316 EA Ethernet Communication Option For Irrigation Controllers (Calsense EN)	932.08	
32 84 23 00-0317 EA WiFi Communication Option For Irrigation Controllers (Calsense WEN)	1,910.00	
32 84 23 00-0318 EA Local Radio Communication Option For Irrigation Controllers (Calsense LR)	2,429.52	
32 84 23 00-0319 EA Spread Spectrum Radio Communication Option For Irrigation Controllers (Calsense SR)	2,429.52	
32 84 23 00-0320 EA GPRS Radio Modem Communication Option For Irrigation Controllers (Calsense GR)	2,429.52	
32 84 23 00-0321 EA Fiber Optic Modem Communication Option For Irrigation Controllers (Calsense FOM)	7,792.80	
32 84 23 00-0322 EA Communication Hub For Irrigation Controllers (Calsense HUB)	3,005.85	
Note: Accepts up to two communication options. Excludes communication options.		



Exterior Improvements		32
Irrigation		32 80
Planting Irrigation		32 84

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0323 Retrofit Options For Irrigation Controllers <small>(32 84 23 00-0225)</small>		
32 84 23 00-0324 Weather Retrofits For Irrigation Controllers <small>(32 84 23 00-0323)</small>		
32 84 23 00-0325 EA Add One Flow Sensor Interface To An Existing Calsense Controller (Calsense F-RETRO).....	1,198.48	
32 84 23 00-0326 EA Add One ET Gage Interface To An Existing Calsense Controller (Calsense G-RETRO).....	1,198.48	
32 84 23 00-0327 EA Add One Tipping Rain Bucket Interface To An Existing Calsense Controller (Calsense RB-RETRO).....	1,198.48	
32 84 23 00-0328 EA Add One Wind Gage Interface To An Existing Calsense Controller (Calsense WG-RETRO).....	1,198.48	
32 84 23 00-0329 Phone Communication Retrofits For Irrigation Controllers <small>(32 84 23 00-0323)</small>		
32 84 23 00-0330 EA Add The Ability To Chain To Another Calsense Controller With The Phone Line Communication Option And Share One Phone Line (Calsense M-RETRO).....	1,259.60	
32 84 23 00-0331 EA Add The Phone Line Communication Option To An Existing Calsense Controller (Calsense R-RETRO).....	1,488.80	
32 84 23 00-0332 EA Add The Phone Line Communication Option And The Ability To Chain To Another Calsense Controller And Share One Phone Line (Calsense MLR-RETRO).....	2,382.68	
32 84 23 00-0333 Local Radio Communication Retrofits For Irrigation Controllers <small>(32 84 23 00-0323)</small>		
32 84 23 00-0334 EA Add The Ability To Chain To Another Calsense Controller With The Local Radio Communication Option And Share One Local Radio (Calsense ML-RETRO).....	1,412.40	
32 84 23 00-0335 EA Add The Local Radio Communication Option To An Existing Calsense Controller (Calsense LR-RETRO).....	2,970.96	
32 84 23 00-0336 EA Add The Local Radio Communication Option And The Ability To Chain To Another Calsense Controller And Share One Local Radio (Calsense MLR-RETRO).....	3,857.20	
32 84 23 00-0337 Spread Spectrum Radio Communication Retrofits For Irrigation Controllers <small>(32 84 23 00-0323)</small>		
32 84 23 00-0338 EA Add The Ability To Chain To Another Calsense Controller With The Spread Spectrum Radio Communication Option And Share One Spread Spectrum Radio (Calsense MS-Retro).....	1,412.40	
32 84 23 00-0339 EA Add The Spread Spectrum Radio Communication Option To An Existing Calsense Controller (Calsense SR-RETRO).....	2,970.96	
32 84 23 00-0340 EA Add The Spread Spectrum Radio Communication Option And The Ability To Chain To Another Calsense Controller And Share One Spread Spectrum Radio (Calsense MSR-RETRO).....	3,857.20	
32 84 23 00-0341 Ethernet Communication Retrofits For Irrigation Controllers <small>(32 84 23 00-0323)</small>		
32 84 23 00-0342 EA Add The Ability To Chain To Another Calsense Controller With The Ethernet Communication Option And Share One Ethernet Device (Calsense ME-Retro).....	1,412.40	
32 84 23 00-0343 EA Add The Ethernet Communication Option To An Existing Calsense Controller (Calsense EN-RETRO).....	1,488.80	
32 84 23 00-0344 EA Add The Ethernet Communication Option And The Ability To Chain To Another Calsense Controller And Share One Ethernet Device (Calsense MEN-RETRO).....	2,382.68	
32 84 23 00-0345 GPRS Radio Modem Communication Retrofits For Irrigation Controllers <small>(32 84 23 00-0323)</small>		
32 84 23 00-0346 EA Add The Ability To Chain To Another Calsense Controller With The GPRS Communication Option And Share One GPRS Modem (Calsense MG-RETRO).....	1,412.40	
32 84 23 00-0347 EA Add The GPRS Communication Option To An Existing Calsense Controller (Calsense GR-RETRO).....	2,970.96	
32 84 23 00-0348 EA Add The GPRS Communication Option And The Ability To Chain To Another Calsense Controller And Share One GPRS Modem (Calsense MGR-RETRO).....	3,857.20	
32 84 23 00-0349 Radio Remote Units For Irrigation Controllers <small>(32 84 23 00-0225)</small>		
32 84 23 00-0350 EA Enhanced Radio Remote Hand-Held Transmitter With Carry Case (Calsense RRe-TRAN).....	1,420.04	
32 84 23 00-0351 EA Calsense Integrated Radio Remote Receiver Board (Calsense RR/RRe)..... Note: Includes polyvinyl chloride (PVC) stick antenna. Excludes antenna cable.	302.54	
32 84 23 00-0352 EA Wall Mount Charger For Hand-Held Transmitter (Calsense RRTRAN-CHG).....	129.88	
32 84 23 00-0353 EA Removal And Replacement Of Battery For Hand-Held Transmitter (Calsense RRTRAN-BAT).....	232.77	
32 84 23 00-0354 EA Polyvinyl Chloride (PVC) Stick Antenna For Radio Remote Receiver Board (Calsense RR-ANT)..... Note: Excludes antenna cable.	148.73	9.43
32 84 23 00-0355 EA Whip Antenna For Radio Remote Receiver Board (Calsense RRe-WHIP)..... Note: Excludes antenna cable.	286.25	9.43
32 84 23 00-0356 EA Dome Antenna For Radio Remote Receiver Board (Calsense RR-Dome/RRe-Dome)..... Note: Excludes antenna cable.	309.17	9.43
32 84 23 00-0357 Satellite Irrigation Controllers (Rain Bird® ESP-SAT) <small>(32 84 23 00-0120)</small>		
Note: Satellite controllers compatible with Maxi-Con Central Control. Includes link communication with SEMET at the controller and stainless steel cabinet. Excludes concrete pad.		
32 84 23 00-0358 EA 12 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP12SATLS).....	3,351.21	169.67
32 84 23 00-0359 EA 24 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP24SATLS).....	3,534.19	179.10
32 84 23 00-0360 EA 40 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP40SATLS).....	4,895.31	188.52
32 84 23 00-0361 LEIT Controllers <small>(32 84 23 00-0120)</small>		
32 84 23 00-0362 LEIT X Series Irrigation Controller <small>(32 84 23 00-0361)</small>		
32 84 23 00-0363 EA 10 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	3,140.78	30.17
32 84 23 00-0364 EA 12 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	3,445.06	30.17
32 84 23 00-0365 EA 16 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	3,946.71	30.17

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0366 EA 20 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	4,448.38	30.17
32 84 23 00-0367 EA 24 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	4,805.43	30.17
32 84 23 00-0368 EA 28 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	5,162.49	30.17
32 84 23 00-0369 LEIT X Series Irrigation Controller Assembly (32 84 23 00-0361) Note: Includes excavation and concrete for footing, 2" diameter galvanized steel pole (minimum 18" bury), 2" sweeps, controller, and number 5 concrete box with non-traffic rated lid per detail.		
32 84 23 00-0370 EA 10 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	3,602.75	157.30
32 84 23 00-0371 EA 12 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	3,907.02	157.30
32 84 23 00-0372 EA 16 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	4,408.68	157.30
32 84 23 00-0373 EA 20 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	4,910.33	157.30
32 84 23 00-0374 EA 24 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	5,267.40	157.30
32 84 23 00-0375 EA 28 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	5,624.46	157.30
32 84 23 00-0376 Enclosure For LEIT Controller Assembly (32 84 23 00-0361) Note: Includes mounting bolts to concrete foundation and installation of enclosure per detail.		
32 84 23 00-0377 EA 12" x 12" x 54" Milled Steel, #9 Expanded Metal, Painted Per Detail, Enclosure With Access Hatch	2,429.65	212.46
Note: For LEIT Controller		
32 84 23 00-0378 Hunter Controllers (32 84 23 00-0120)		
32 84 23 00-0379 Hunter XC Hybrid Controller (32 84 23 00-0378) Note: Operates DC latching solenoids with battery power or a plug in 24 VAC transformer. Includes 6 AA batteries, outdoor stainless steel enclosure and installation of controller in Irrigation Controller Enclosure.		
32 84 23 00-0380 EA 6 Station Hybrid Irrigation Controller With Stainless Steel Enclosure (Hunter XCH-600-SS)	533.94	75.40
32 84 23 00-0381 EA 12 Station Hybrid Irrigation Controller With Stainless Steel Enclosure (Hunter XCH-1200-SS)	678.94	94.26
32 84 23 00-0382 DC Latching Solenoid (32 84 23 00-0120)		
32 84 23 00-0383 EA DC Latching Solenoid (Micro Power Solenoid) For Non LEIT Controllers	31.30	
Note: As per manufacture of valve.		
32 84 23 00-0384 EA DC Solenoid For LEIT Controllers (DIG S-305DC)	47.59	
32 84 23 00-0385 Irrigation Controller Enclosure Cabinet (32 84 23 00-0120) Note: Includes excavation, installation of concrete foundation, mounting bolts, sweeps, number 5 concrete pull box with non-traffic rated lid and installation of enclosure per detail.		
32 84 23 00-0386 EA 35" (H) x 18" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan)	2,410.07	414.37
32 84 23 00-0387 EA 35" (H) x 24" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan)	2,603.93	452.05
32 84 23 00-0388 EA 35" (H) x 36" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan)	2,879.75	489.71
32 84 23 00-0389 EA 35" (H) x 18" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Irrigation Controller Enclosure Cabinet	2,410.09	414.37
32 84 23 00-0390 EA 35" (H) x 24" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Steel Irrigation Controller Enclosure Cabinet	2,603.93	452.05
32 84 23 00-0391 EA 35" (H) x 36" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Steel Irrigation Controller Enclosure Cabinet	2,879.75	489.71
32 84 23 00-0392 EA 35" (H) x 18" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet	2,963.57	414.37
32 84 23 00-0393 EA 35" (H) x 24" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet	3,226.59	452.05
32 84 23 00-0394 EA 35" (H) x 36" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet	3,502.42	489.71
32 84 23 00-0395 Irrigation Valves (32 84 23)		
32 84 23 00-0396 Reduced Pressure Zone Valves With QT Shut-Offs (32 84 23 00-0395) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).		
32 84 23 00-0397 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series)	606.35	40.14
32 84 23 00-0398 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	720.10	49.01
32 84 23 00-0399 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,080.01	57.04
32 84 23 00-0400 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,144.17	65.49
32 84 23 00-0401 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,375.95	84.50
32 84 23 00-0402 Brass Quick-Coupling Irrigation Valves (32 84 23 00-0395)		
32 84 23 00-0403 EA 3/4", 1-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 3RC)	142.64	35.02
For Valve Key, Add	37.22	
32 84 23 00-0404 EA 3/4", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 33DRC)	146.94	35.02
For Locking Cover, Add	25.00	
For Valve Key, Add	37.22	
32 84 23 00-0405 EA 1", 1-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44RC)	194.29	35.02
For Valve Key, Add	95.20	
32 84 23 00-0406 EA 1", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44LRC)	211.51	35.02
For Valve Key, Add	95.20	
32 84 23 00-0407 EA 1", 1-Piece Brass Body, Non-Potable (Purple) Quick-Coupling Irrigation Valve (Rain Bird® 5NP)	203.40	35.02
32 84 23 00-0408 EA 1", 2-Piece Brass Body, Non-Potable (Purple) Quick-Coupling Irrigation Valve (Rain Bird® 44NP)	211.51	35.02
32 84 23 00-0409 Anti-Siphon Pressure Type Vacuum Breaker (32 84 23 00-0395) Note: Pressure: 15 to 150 PSI, temperature: 33 to 140 degrees Fahrenheit.		



		Exterior Improvements	32
		Irrigation	32 80
		Planting Irrigation	32 84

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0410	EA		3/4" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	236.03	29.57
32 84 23 00-0411	EA		1" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	336.22	33.80
32 84 23 00-0412	EA		1-1/4" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	605.16	39.08
32 84 23 00-0413	EA		1-1/2" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	736.66	43.30
32 84 23 00-0414	EA		2" Anti-Siphon Pressure Type Vacuum Breaker	744.84	52.82
32 84 23 00-0415			Aluminum Cam And Groove Adapter (32 84 23 00-0395)		
32 84 23 00-0416	EA		1-1/2" Type A Aluminum Cam And Groove Male Adapter x 1-1/2" NPT Female Pipe Thread.....	36.26	
32 84 23 00-0417	EA		2" Type A Aluminum Cam And Groove Male Adapter x 2" NPT Female Pipe Thread.....	38.26	
32 84 23 00-0418	EA		1-1/2" Type F Aluminum Cam And Groove Male Adapter x 1-1/2" NPT Male Pipe Thread.....	37.14	
32 84 23 00-0419	EA		2" Type F Aluminum Cam And Groove Male Adapter x 2" NPT Male Pipe Thread.....	39.90	
32 84 23 00-0420			Irrigation Piping (32 84 23)		
32 84 23 00-0421			Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0420)		
			Note: Install stabilizers every 20', at change of direction and at sprinkler heads less than 12" tall.		
32 84 23 00-0422			Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0421)		
32 84 23 00-0423	LF		1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	2.72	0.97
			For >1,000, Deduct	-0.14	
32 84 23 00-0424	LF		3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	3.33	1.22
			For >1,000, Deduct	-0.17	
32 84 23 00-0425	LF		1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	4.01	1.46
			For >1,000, Deduct	-0.20	
32 84 23 00-0426	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	5.31	1.84
			For >1,000, Deduct	-0.27	
32 84 23 00-0427	LF		2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	6.66	2.32
			For >1,000, Deduct	-0.33	
32 84 23 00-0428	LF		2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	8.42	2.70
			For >1,000, Deduct	-0.42	
32 84 23 00-0429	LF		3" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	11.60	3.89
			For >1,000, Deduct	-0.58	
32 84 23 00-0430	LF		4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	15.09	4.86
			For >1,000, Deduct	-0.75	
32 84 23 00-0431	LF		6" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	21.28	6.08
			For >1,000, Deduct	-1.06	
32 84 23 00-0432			Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0421)		
32 84 23 00-0433	LF		3/4" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	3.16	1.22
			For >1,000, Deduct	-0.16	
32 84 23 00-0434	LF		1" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	3.73	1.46
			For >1,000, Deduct	-0.19	
32 84 23 00-0435	LF		1-1/2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	5.11	1.84
			For >1,000, Deduct	-0.26	
32 84 23 00-0436	LF		2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	6.49	2.32
			For >1,000, Deduct	-0.32	
32 84 23 00-0437	LF		2-1/2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	8.16	2.70
			For >1,000, Deduct	-0.41	
32 84 23 00-0438	LF		3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	11.50	3.89
			For >1,000, Deduct	-0.58	
32 84 23 00-0439	LF		4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	15.62	4.86
			For >1,000, Deduct	-0.78	
32 84 23 00-0440	LF		6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	24.61	6.08
			For >1,000, Deduct	-1.23	
32 84 23 00-0441			Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0421)		
32 84 23 00-0442	LF		3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	3.30	1.22
			For >1,000, Deduct	-0.17	
32 84 23 00-0443	LF		1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	3.92	1.46
			For >1,000, Deduct	-0.20	
32 84 23 00-0444	LF		1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	5.48	1.84
			For >1,000, Deduct	-0.27	
32 84 23 00-0445	LF		2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	7.11	2.32
			For >1,000, Deduct	-0.36	
32 84 23 00-0446	LF		2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	9.14	2.70
			For >1,000, Deduct	-0.46	
32 84 23 00-0447	LF		3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	11.60	3.89
			For >1,000, Deduct	-0.58	
32 84 23 00-0448	LF		4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	15.09	4.86
			For >1,000, Deduct	-0.75	
32 84 23 00-0449	LF		6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	21.60	6.08
			For >1,000, Deduct	-1.08	

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 84 23 00-0450	Irrigation Piping With Fittings, Trenching, Cover, Backfilled And Compacted <small>(32 84 23 00-0420)</small> Note: Install thrust blocks per Caltrans details for 3" piping and larger, upstream of remote control valve.		
32 84 23 00-0451	Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0450)</small>		
32 84 23 00-0452	LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	5.23	1.22
	<i>For >1,000, Deduct</i>	-0.26	
32 84 23 00-0453	LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	5.91	1.46
	<i>For >1,000, Deduct</i>	-0.30	
32 84 23 00-0454	LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	7.21	1.84
	<i>For >1,000, Deduct</i>	-0.36	
32 84 23 00-0455	LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	8.56	2.32
	<i>For >1,000, Deduct</i>	-0.43	
32 84 23 00-0456	LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	10.32	2.70
	<i>For >1,000, Deduct</i>	-0.52	
32 84 23 00-0457	LF 3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	13.50	3.89
	<i>For >1,000, Deduct</i>	-0.68	
32 84 23 00-0458	LF 4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	16.99	4.86
	<i>For >1,000, Deduct</i>	-0.85	
32 84 23 00-0459	LF 6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	23.18	6.08
	<i>For >1,000, Deduct</i>	-1.16	
32 84 23 00-0460	Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0450)</small>		
32 84 23 00-0461	LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	5.46	1.22
	<i>For >1,000, Deduct</i>	-0.27	
32 84 23 00-0462	LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	6.13	1.46
	<i>For >1,000, Deduct</i>	-0.31	
32 84 23 00-0463	LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	7.44	1.84
	<i>For >1,000, Deduct</i>	-0.37	
32 84 23 00-0464	LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	8.78	2.32
	<i>For >1,000, Deduct</i>	-0.44	
32 84 23 00-0465	LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	10.54	2.70
	<i>For >1,000, Deduct</i>	-0.53	
32 84 23 00-0466	LF 3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	13.72	3.89
	<i>For >1,000, Deduct</i>	-0.69	
32 84 23 00-0467	LF 4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	17.21	4.86
	<i>For >1,000, Deduct</i>	-0.86	
32 84 23 00-0468	LF 6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	23.41	6.08
	<i>For >1,000, Deduct</i>	-1.17	
32 84 23 00-0469	Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0450)</small>		
32 84 23 00-0470	LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	5.68	1.22
	<i>For >1,000, Deduct</i>	-0.28	
32 84 23 00-0471	LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	6.35	1.46
	<i>For >1,000, Deduct</i>	-0.32	
32 84 23 00-0472	LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	7.66	1.84
	<i>For >1,000, Deduct</i>	-0.38	
32 84 23 00-0473	LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	9.00	2.32
	<i>For >1,000, Deduct</i>	-0.45	
32 84 23 00-0474	LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	10.77	2.70
	<i>For >1,000, Deduct</i>	-0.54	
32 84 23 00-0475	LF 3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	13.94	3.89
	<i>For >1,000, Deduct</i>	-0.70	
32 84 23 00-0476	LF 4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	17.43	4.86
	<i>For >1,000, Deduct</i>	-0.87	
32 84 23 00-0477	LF 6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	23.63	6.08
	<i>For >1,000, Deduct</i>	-1.18	
32 84 23 00-0478	Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0450)</small>		
32 84 23 00-0479	LF 3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	5.14	1.22
	<i>For >1,000, Deduct</i>	-0.26	
32 84 23 00-0480	LF 1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	5.77	1.46
	<i>For >1,000, Deduct</i>	-0.29	
32 84 23 00-0481	LF 1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	7.22	1.84
	<i>For >1,000, Deduct</i>	-0.36	
32 84 23 00-0482	LF 2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	8.86	2.32
	<i>For >1,000, Deduct</i>	-0.44	
32 84 23 00-0483	LF 2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	10.80	2.70
	<i>For >1,000, Deduct</i>	-0.54	
32 84 23 00-0484	LF 3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	13.40	3.89
	<i>For >1,000, Deduct</i>	-0.67	
32 84 23 00-0485	LF 4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	17.52	4.86
	<i>For >1,000, Deduct</i>	-0.88	



Exterior Improvements		32
Irrigation		32 80
Planting Irrigation		32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0486 LF 6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	26.51 -1.33	6.08
32 84 23 00-0487 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0450)</small>		
32 84 23 00-0488 LF 3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	5.37 -0.27	1.22
32 84 23 00-0489 LF 1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	5.99 -0.30	1.46
32 84 23 00-0490 LF 1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	7.45 -0.37	1.84
32 84 23 00-0491 LF 2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	9.08 -0.45	2.32
32 84 23 00-0492 LF 2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	11.02 -0.55	2.70
32 84 23 00-0493 LF 3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	13.62 -0.68	3.89
32 84 23 00-0494 LF 4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	17.74 -0.89	4.86
32 84 23 00-0495 LF 6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	26.74 -1.34	6.08
32 84 23 00-0496 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0450)</small>		
32 84 23 00-0497 LF 3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	5.59 -0.28	1.22
32 84 23 00-0498 LF 1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	6.21 -0.31	1.46
32 84 23 00-0499 LF 1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	7.67 -0.38	1.84
32 84 23 00-0500 LF 2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	9.30 -0.47	2.32
32 84 23 00-0501 LF 2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	11.25 -0.56	2.70
32 84 23 00-0502 LF 3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	13.84 -0.69	3.89
32 84 23 00-0503 LF 4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	17.96 -0.90	4.86
32 84 23 00-0504 LF 6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	26.96 -1.35	6.08
32 84 23 00-0505 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0450)</small>		
32 84 23 00-0506 LF 3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	5.20 -0.26	1.22
32 84 23 00-0507 LF 1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	5.82 -0.29	1.46
32 84 23 00-0508 LF 1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	7.38 -0.37	1.84
32 84 23 00-0509 LF 2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	9.01 -0.45	2.32
32 84 23 00-0510 LF 2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	11.04 -0.55	2.70
32 84 23 00-0511 LF 3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	13.50 -0.68	3.89
32 84 23 00-0512 LF 4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	16.99 -0.85	4.86
32 84 23 00-0513 LF 6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	23.50 -1.18	6.08
32 84 23 00-0514 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0450)</small>		
32 84 23 00-0515 LF 3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	5.43 -0.27	1.22
32 84 23 00-0516 LF 1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	6.04 -0.30	1.46
32 84 23 00-0517 LF 1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	7.61 -0.38	1.84

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0518 LF 2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	9.23	2.32
<i>For >1,000, Deduct</i>	-0.46	
32 84 23 00-0519 LF 2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	11.26	2.70
<i>For >1,000, Deduct</i>	-0.56	
32 84 23 00-0520 LF 3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	13.72	3.89
<i>For >1,000, Deduct</i>	-0.69	
32 84 23 00-0521 LF 4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	17.21	4.86
<i>For >1,000, Deduct</i>	-0.86	
32 84 23 00-0522 LF 6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	23.73	6.08
<i>For >1,000, Deduct</i>	-1.19	
32 84 23 00-0523 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted (32 84 23 00-0450)		
32 84 23 00-0524 LF 3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	5.65	1.22
<i>For >1,000, Deduct</i>	-0.28	
32 84 23 00-0525 LF 1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	6.26	1.46
<i>For >1,000, Deduct</i>	-0.31	
32 84 23 00-0526 LF 1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	7.83	1.84
<i>For >1,000, Deduct</i>	-0.39	
32 84 23 00-0527 LF 2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	9.45	2.32
<i>For >1,000, Deduct</i>	-0.47	
32 84 23 00-0528 LF 2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	11.49	2.70
<i>For >1,000, Deduct</i>	-0.57	
32 84 23 00-0529 LF 3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	13.94	3.89
<i>For >1,000, Deduct</i>	-0.70	
32 84 23 00-0530 LF 4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	17.43	4.86
<i>For >1,000, Deduct</i>	-0.87	
32 84 23 00-0531 LF 6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	23.95	6.08
<i>For >1,000, Deduct</i>	-1.20	
32 84 23 00-0532 Irrigation Riser Piping With Fittings (32 84 23 00-0420)		
32 84 23 00-0533 EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 6" Exposed, Type IV.....	14.70	2.91
Note: Includes #4 steel reinforcing bar, stainless steel hose clamp		
32 84 23 00-0534 EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 6" Exposed, Type IV.....	15.93	3.65
Note: Includes #4 steel reinforcing bar, stainless steel hose clamp		
32 84 23 00-0535 EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 12" Exposed, Type IV.....	15.84	3.41
Note: Includes #4 steel reinforcing bar, stainless steel hose clamp		
32 84 23 00-0536 EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 12" Exposed, Type IV.....	17.36	4.25
Note: Includes #4 steel reinforcing bar, stainless steel hose clamp		
32 84 23 00-0537 EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 24" Exposed, Type I.....	31.40	5.11
Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0538 EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 24" Exposed, Type I.....	33.54	6.38
Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0539 EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 36" Exposed, Type I.....	36.94	6.56
Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0540 EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 36" Exposed, Type I.....	39.70	8.21
Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0541 EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 48" Exposed, Type I.....	42.49	8.02
Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0542 EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 48" Exposed, Type I.....	45.87	10.03
Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0543 Irrigation Crossover Piping With Fittings (32 84 23 00-0420)		
Note: Install per Caltrans details. Includes thrust blocks, HDPE sleeve pipe and fittings, 3" pvc irrigation piping and 1" electrical pvc conduit. Excludes #5 concrete irrigation pull boxes on ends, electrical control wiring. See CSI section 32 84 23 00-0105 for #5 concrete pull box, 32 84 23 00-0587 for irrigation wiring.		
32 84 23 00-0544 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench (32 84 23 00-0543)		
32 84 23 00-0545 LF 6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation.....	29.46	
<i>For >1,000, Deduct</i>	-1.47	
32 84 23 00-0546 LF 8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation.....	40.86	
<i>For >1,000, Deduct</i>	-2.04	
32 84 23 00-0547 LF 10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation.....	55.44	
<i>For >1,000, Deduct</i>	-2.77	
32 84 23 00-0548 LF 12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation.....	72.54	
<i>For >1,000, Deduct</i>	-3.63	
32 84 23 00-0549 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench (32 84 23 00-0543)		
32 84 23 00-0550 LF 6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation.....	30.13	
<i>For >1,000, Deduct</i>	-1.51	



Exterior Improvements 32

Irrigation 32 80

Planting Irrigation 32 84

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0551	LF		8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation.....	41.60	
			<i>For >1,000, Deduct</i>	-2.08	
32 84 23 00-0552	LF		10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation.....	56.25	
			<i>For >1,000, Deduct</i>	-2.81	
32 84 23 00-0553	LF		12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation.....	73.44	
			<i>For >1,000, Deduct</i>	-3.67	
32 84 23 00-0554			Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 48" Open Trench <small>(32 84 23 00-0543)</small>		
32 84 23 00-0555	LF		6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 48" Open Trench Installation.....	30.80	
			<i>For >1,000, Deduct</i>	-1.54	
32 84 23 00-0556	LF		8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation.....	42.34	
			<i>For >1,000, Deduct</i>	-2.12	
32 84 23 00-0557	LF		10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation.....	57.06	
			<i>For >1,000, Deduct</i>	-2.85	
32 84 23 00-0558	LF		12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation.....	74.32	
			<i>For >1,000, Deduct</i>	-3.72	
32 84 23 00-0559			Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore <small>(32 84 23 00-0543)</small>		
32 84 23 00-0560	LF		6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation	78.54	
			<i>For >1,000, Deduct</i>	-3.93	
32 84 23 00-0561	LF		8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation	99.87	
			<i>For >1,000, Deduct</i>	-4.99	
32 84 23 00-0562	LF		10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation	119.34	
			<i>For >1,000, Deduct</i>	-5.97	
32 84 23 00-0563	LF		12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation	141.34	
			<i>For >1,000, Deduct</i>	-7.07	
32 84 23 00-0564			Below Ground Cam Adapter Assembly <small>(32 84 23 00-0420)</small> Note: Includes minimum 6" depth gravel or crushed rock, woven wire cloth, jumbo valve box with 15" x 21.5" cover, 1-1/2" brass ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe		
32 84 23 00-0565	EA		Below Ground Cam Adapter Assembly.....	616.91	
			Note: Includes 6" depth gravel or crushed rock, woven wire cloth, jumbo valve box with 15" x 21.5" cover, 1-1/2" brass ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe.		
32 84 23 00-0566			Above Ground Cam Adapter Assembly <small>(32 84 23 00-0420)</small> Note: Includes concrete thrust block, 1-1/2" plastic ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe		
32 84 23 00-0567	EA		Above Ground Cam Adapter Assembly	390.88	
			Note: Includes concrete thrust block, 1-1/2" plastic ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe.		
32 84 23 00-0568			Thrust Block <small>(32 84 23 00-0420)</small>		
32 84 23 00-0569	EA		Thrust Block For 1-1/2" Pipe Size And Smaller.....	34.73	
32 84 23 00-0570	EA		Thrust Block For 2" Pipe	60.36	
32 84 23 00-0571	EA		Thrust Block For 3" And 4" Pipe.....	85.99	
32 84 23 00-0572	EA		Thrust Block For 6" Pipe	137.67	
32 84 23 00-0573	EA		Thrust Block For 8" Pipe	197.62	
32 84 23 00-0574			Irrigation Swing Joints <small>(32 84 23)</small>		
32 84 23 00-0575	EA		3/4" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12075)	54.35	19.36
32 84 23 00-0576	EA		1" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12)	61.79	21.61
32 84 23 00-0577	EA		1" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint With 70 PSI Pressure Regulator (Rain Bird® TSJ100PRS)	82.05	21.61
32 84 23 00-0578	EA		1/2" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I.....	40.37	25.23
			Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.		
32 84 23 00-0579	EA		3/4" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I.....	53.93	33.66
			Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.		
32 84 23 00-0580	EA		1" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I.....	67.65	41.27
			Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.		
32 84 23 00-0581	EA		1/2" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II	57.54	25.63
			Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.		
32 84 23 00-0582	EA		3/4" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II	76.08	34.00
			Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.		
32 84 23 00-0583	EA		1" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II	93.45	41.69
			Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.		
32 84 23 00-0584	EA		1/2" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III	32.58	15.70
			Note: Consists of two street 90 degree elbows.		
32 84 23 00-0585	EA		3/4" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III	43.53	20.93
			Note: Consists of two street 90 degree elbows.		

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0586 EA 1" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III Note: Consists of two street 90 degree elbows.	51.58	25.95
32 84 23 00-0587 Irrigation Control Wire (32 84 23) Note: Excludes excavation and backfill.		
32 84 23 00-0588 18 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)		
32 84 23 00-0589 CLF 1-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	43.33	14.59
32 84 23 00-0590 CLF 2-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	56.05	17.03
32 84 23 00-0591 CLF 3-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	64.45	19.46
32 84 23 00-0592 CLF 4-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	73.64	21.89
32 84 23 00-0593 CLF 5-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	83.61	24.32
32 84 23 00-0594 CLF 6-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	99.09	26.75
32 84 23 00-0595 CLF 7-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	113.98	29.18
32 84 23 00-0596 CLF 8-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	123.80	31.61
32 84 23 00-0597 CLF 9-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	135.70	34.04
32 84 23 00-0598 CLF 10-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	149.22	36.48
32 84 23 00-0599 CLF 11-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	154.85	38.91
32 84 23 00-0600 CLF 12-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	161.29	41.34
32 84 23 00-0601 CLF 13-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	170.23	43.77
32 84 23 00-0602 16 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)		
32 84 23 00-0603 CLF 1-Conductor, 16 AWG, Irrigation Control Wire, Buried In Trench	45.42	14.59
32 84 23 00-0604 14 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)		
32 84 23 00-0605 CLF 1-Conductor, 14 AWG, Irrigation Control Wire, Buried In Trench	45.42	14.59
32 84 23 00-0606 12 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)		
32 84 23 00-0607 CLF 1-Conductor, 12 AWG, Irrigation Control Wire, Buried In Trench	59.25	14.59
32 84 23 00-0608 10 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)		
32 84 23 00-0609 CLF 1-Conductor, 10 AWG, Irrigation Control Wire, Buried In Trench	76.76	14.59
32 84 23 00-0610 Root Watering Systems (32 84 23) Note: Includes swing assembly.		
32 84 23 00-0611 EA 0.25 GPM Bubbler On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-1401)	87.23	19.46
For Root Watering Sand Sock, Add	4.71	
32 84 23 00-0612 EA 0.25 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1401)	93.93	19.46
For Root Watering Sand Sock, Add	4.71	
32 84 23 00-0613 EA 0.5 GPM Bubbler On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-1402)	87.23	19.46
For Root Watering Sand Sock, Add	4.71	
32 84 23 00-0614 EA 0.5 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1402)	93.93	19.46
For Root Watering Sand Sock, Add	4.71	
32 84 23 00-0615 EA 1 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1404)	93.93	19.46
For Root Watering Sand Sock, Add	4.71	
32 84 23 00-0616 EA 0.25 GPM Bubbler On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-1401)	75.72	17.03
For Root Watering Sand Sock, Add	4.23	
32 84 23 00-0617 EA 0.25 GPM Bubbler And Check Valve On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-C-1401)	82.15	17.03
For Root Watering Sand Sock, Add	4.23	
32 84 23 00-0618 EA 0.5 GPM Bubbler On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-1402)	75.72	17.03
For Root Watering Sand Sock, Add	4.23	
32 84 23 00-0619 EA 0.5 GPM Bubbler And Check Valve On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-C-1402)	82.15	17.03
For Root Watering Sand Sock, Add	4.23	
32 84 23 00-0620 EA 0.25 GPM Bubbler On Riser, 10" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-S-B-1401)	51.35	14.59
For Root Watering Sand Sock, Add	3.75	
32 84 23 00-0621 EA 0.25 GPM Bubbler And Check Valve On Riser, 10" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-S-B-C-1401)	57.48	14.59
For Root Watering Sand Sock, Add	3.75	

32 90 Planting (32)

Note: Plant installation includes the initial watering only. The extended watering period for the establishment of lawns, plants and trees is addressed on a per plant per amount per occurrence basis as directed in the specification. cvs = cultivar. See CSI section 32 01 90 26-0000 for additional "extended watering period" tasks.

32 91 Planting Preparation (32 90)**32 91 13 Soil Preparation** (32 91)**32 91 13 16 Mulching** (32 91 13)



Exterior Improvements		32
Planting		32 90
Planting Preparation		32 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 16-0001 Mulch <small>(32 91 13 16)</small>		
Note: Includes loading, delivery up to 15 miles and spreading. 1 CY = 108 SF of mulch spread 3" thick. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.		
32 91 13 16-0002 CY Pine Bark Nugget Mulch	105.72	
For Work On Slopes >2.5:1, Add	12.51	
For >5 To 20, Deduct	-8.41	
For >20 To 50, Deduct	-12.62	
For >50, Deduct	-17.91	
32 91 13 16-0003 CY Hardwood Bark Nugget Mulch	103.99	
For Work On Slopes >2.5:1, Add	12.51	
For >5 To 20, Deduct	-8.33	
For >20 To 50, Deduct	-12.49	
For >50, Deduct	-17.69	
32 91 13 16-0004 CY Pine Wood Chip Mulch.....	100.54	
For Work On Slopes >2.5:1, Add	12.51	
For >5 To 20, Deduct	-8.16	
For >20 To 50, Deduct	-12.23	
For >50, Deduct	-17.26	
32 91 13 16-0005 CY Hardwood Chip Mulch.....	107.44	
For Work On Slopes >2.5:1, Add	12.51	
For >5 To 20, Deduct	-8.50	
For >20 To 50, Deduct	-12.75	
For >50, Deduct	-18.12	
32 91 13 16-0006 CY Shredded Hardwood Mulch.....	107.44	
For Work On Slopes >2.5:1, Add	12.51	
For >5 To 20, Deduct	-8.50	
For >20 To 50, Deduct	-12.75	
For >50, Deduct	-18.12	
32 91 13 16-0007 CY Shredded Pine Mulch.....	91.91	
For Work On Slopes >2.5:1, Add	12.51	
For >5 To 20, Deduct	-7.72	
For >20 To 50, Deduct	-11.59	
For >50, Deduct	-16.18	
32 91 13 16-0008 CY Shredded Cedar Mulch	125.57	
For Work On Slopes >2.5:1, Add	12.51	
For >5 To 20, Deduct	-9.41	
For >20 To 50, Deduct	-14.11	
For >50, Deduct	-20.39	
32 91 13 16-0009 CY Shredded Cypress Mulch.....	122.98	
For Work On Slopes >2.5:1, Add	12.51	
For >5 To 20, Deduct	-9.28	
For >20 To 50, Deduct	-13.92	
For >50, Deduct	-20.07	
32 91 13 16-0010 CY Shredded Redwood Mulch.....	129.88	
For Work On Slopes >2.5:1, Add	12.51	
For >5 To 20, Deduct	-9.62	
For >20 To 50, Deduct	-14.43	
For >50, Deduct	-20.93	
32 91 13 16-0011 CY Pea Gravel Mulch	93.52	
For Work On Slopes >2.5:1, Add	12.51	
For >5 To 20, Deduct	-7.80	
For >20 To 50, Deduct	-11.71	
For >50, Deduct	-16.38	
32 91 13 16-0012 CY Chunk Recycled Tire Mulch	200.55	
For Work On Slopes >2.5:1, Add	15.95	
For >5 To 20, Deduct	-14.01	
For >20 To 50, Deduct	-21.02	
For >50, Deduct	-31.05	
32 91 13 16-0013 CY Chunk Colored Recycled Tire Mulch.....	319.64	
For Work On Slopes >2.5:1, Add	15.95	
For >5 To 20, Deduct	-19.97	
For >20 To 50, Deduct	-29.95	
For >50, Deduct	-45.94	
32 91 13 16-0014 CY Shredded Recycled Tire Mulch	321.37	
For Work On Slopes >2.5:1, Add	15.95	
For >5 To 20, Deduct	-20.06	
For >20 To 50, Deduct	-30.08	
For >50, Deduct	-46.15	
32 91 13 16-0015 CY Shredded Colored Recycled Tire Mulch.....	559.54	
For Work On Slopes >2.5:1, Add	15.95	
For >5 To 20, Deduct	-31.96	
For >20 To 50, Deduct	-47.95	
For >50, Deduct	-75.92	
32 91 13 16-0016 EA Pine Straw Mulch Bale.....	9.43	
Note: Covers 50 SF at a thickness of 2" to 4" forming a uniform mat through which none of the original ground surface can be seen.		
For Work On Slopes >2.5:1, Add	0.68	
For >100 To 250, Deduct	-0.64	
For >250 To 500, Deduct	-0.81	
For >500, Deduct	-1.11	
32 91 13 16-0017 EA Wheat Straw Mulch Bale.....	9.65	
Note: Covers 350 SF forming a uniform mat through which 20 to 40% of the original ground surface can be seen.		
For Work On Slopes >2.5:1, Add	0.51	
For >100 To 250, Deduct	-0.61	
For >250 To 500, Deduct	-0.74	
For >500, Deduct	-1.09	

32 Exterior Improvements

32 90 Planting

32 91 Planting Preparation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 16-0018	CY		Stone/Gravel Mulch, Marble Chips..... <i>For Work On Slopes >2.5:1, Add</i> <i>For >5 To 20, Deduct</i> <i>For >20 To 50, Deduct</i> <i>For >50, Deduct</i>	249.55 12.51 -15.61 -23.41 -35.89	
32 91 13 16-0019	CY		Stone Mulch, Decomposed Granite Chips <i>For Work On Slopes >2.5:1, Add</i> <i>For >5 To 20, Deduct</i> <i>For >20 To 50, Deduct</i> <i>For >50, Deduct</i>	124.19 12.51 -9.34 -14.01 -20.22	
32 91 13 16-0020			Compost Soil Amendment (AgriService) ^(32 91 13 16) Note: Includes loading, delivery up to 15 miles and spreading. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.		
32 91 13 16-0021	CY		Humic Compost (OIM) Note: (Agri Service or Equal) <i>For Work On Slopes >2.5:1, Add</i> <i>For >100 To 1,000, Deduct</i> <i>For >1,000, Deduct</i>	76.66 12.51 -13.22 -20.18	
32 91 13 26			Planting Beds ^(32 91 13) Note: Not for use when installing trees and shrubs.		
32 91 13 26-0001			Plant Bed Preparation ^(32 91 13 26) Note: Not for use when installing trees and shrubs.		
32 91 13 26-0002	SF		Prepare And Mix Plant Bed, Up To 8" Deep By Machine..... Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments. <i>For Work On Slopes >2.5:1, Add</i>	0.98 0.20	
32 91 13 26-0003	SF		Prepare And Mix Plant Bed, 9" To 13" Deep By Machine Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments. <i>For Work On Slopes >2.5:1, Add</i>	1.12 0.22	
32 91 13 26-0004	SF		Prepare And Mix Plant Bed, 14" To 18" Deep By Machine Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments. <i>For Work On Slopes >2.5:1, Add</i>	1.32 0.26	
32 91 13 26-0005	SF		Prepare And Mix Plant Bed By Hand, Up To 8" Deep..... Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments. <i>For Work On Slopes >2.5:1, Add</i>	4.36 0.87	
32 91 13 26-0006	SF		Prepare And Mix Plant Bed By Hand, 9" To 13" Deep Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments. <i>For Work On Slopes >2.5:1, Add</i>	5.01 1.00	
32 91 13 26-0007	SF		Prepare And Mix Plant Bed By Hand, 14" To 18" Deep Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments. <i>For Work On Slopes >2.5:1, Add</i>	5.89 1.18	
32 91 13 26-0008			Plant Bed Preparation With Humic Compost ^(32 91 13 26)		
32 91 13 26-0009	SF		Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 3 CY Per 1,000 SF) Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface. <i>For Work On Slopes >2.5:1, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000 To 10,000, Deduct</i> <i>For >10,000 To 20,000, Deduct</i> <i>For >20,000, Deduct</i>	1.06 0.20 -0.15 -0.26 -0.51 -0.72	
32 91 13 26-0010	SF		Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 6 CY Per 1,000 SF) Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface. <i>For Work On Slopes >2.5:1, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000 To 10,000, Deduct</i> <i>For >10,000 To 20,000, Deduct</i> <i>For >20,000, Deduct</i>	1.32 0.25 -0.19 -0.31 -0.62 -0.88	
32 91 13 26-0011	SF		Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 9 CY Per 1,000 SF) Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface. <i>For Work On Slopes >2.5:1, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000 To 10,000, Deduct</i> <i>For >10,000 To 20,000, Deduct</i> <i>For >20,000, Deduct</i>	1.57 0.29 -0.22 -0.36 -0.73 -1.02	
32 91 13 26-0012			Planting Pit Preparation ^(32 91 13 26) Note: Not for use when installing trees and shrubs.		
32 91 13 26-0013	CY		Excavate Planting Pit By Hand, Sandy Soil Note: For use with existing planting pits. <i>For Work On Slopes >2.5:1, Add</i>	75.40 15.08	



		Exterior Improvements	32
		Planting	32 90
		Planting Preparation	32 91
32			

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 26-0014 CY Excavate Planting Pit By Hand, Heavy Soil Note: For use with existing planting pits. <i>For Work On Slopes >2.5:1, Add</i>	150.82 30.16	
32 91 13 26-0015 CY Excavate Planting Pit By Machine, Sandy Soil Note: For use with existing planting pits. <i>For Work On Slopes >2.5:1, Add</i>	12.33 2.47	
32 91 13 26-0016 CY Excavate Planting Pit By Machine, Heavy Soil Note: For use with existing planting pits. <i>For Work On Slopes >2.5:1, Add</i>	16.03 3.21	
32 91 13 26-0017 CY Backfill Planting Pit By Hand With Topsoil From Stockpile <i>For Work On Slopes >2.5:1, Add</i>	67.01 13.40	
32 91 13 26-0018 CY Backfill Planting Pit By Hand With Contractor Furnished Planting Mix..... <i>For Work On Slopes >2.5:1, Add</i>	143.08 12.27	
32 91 13 26-0019 CY Backfill Planting Pit By Machine, With Topsoil From Stockpile <i>For Work On Slopes >2.5:1, Add</i>	6.60 1.32	
32 91 13 26-0020 CY Backfill Planting Pit By Machine, With Contractor Furnished Planting Mix..... <i>For Work On Slopes >2.5:1, Add</i>	98.28 3.31	
32 91 13 26-0021 Weed Barrier <small>(32 91 13 26)</small>		
32 91 13 26-0022 SY Up To 3 Oz/SY Non Woven, Polypropylene Weed Barrier..... <i>For Work On Slopes >2.5:1, Add</i>	1.75 0.12	
32 91 13 26-0023 SY 4 Oz/SY Woven, Polypropylene Weed Barrier..... <i>For Work On Slopes >2.5:1, Add</i>	2.34 0.12	
32 91 13 26-0024 SY 5 Oz/SY Woven, Needle Punched Polypropylene Weed Barrier <i>For Work On Slopes >2.5:1, Add</i>	2.60 0.12	
32 91 13 33 Soil Conditioners <small>(32 91 13)</small>		
32 91 13 33-0001 Spread Soil Conditioners <small>(32 91 13 33)</small>		
32 91 13 33-0002 SY Aluminum Sulfate 1 LB/SY, Push Spreader.....	0.34	
32 91 13 33-0003 MSF Aluminum Sulfate 110 LB/MSF Tractor Spreader.....	32.36	
32 91 13 33-0004 MSF Fertilizer, 20 LB/MSF, Push Spreader.....	6.15	
32 91 13 33-0005 MSF Fertilizer, 20 LB/MSF, Tractor Spread.....	2.54	
32 91 13 33-0006 MSF Fertilizer, 20 LB/MSF, Truck Spread.....	4.70	
32 91 13 33-0007 SY Pelletized Lime, 1 LB/SY, Push Spreader.....	0.08	
32 91 13 33-0008 MSF Pelitized Lime, 110 LB/MSF, Tractor Spreader.....	6.25	
32 91 13 33-0009 SY Perlite, 1" Deep, Push Spreader.....	2.93	
32 91 13 33-0010 MSF Perlite, 1" Deep, Tractor Spreader.....	304.72	
32 91 13 33-0011 SY Vermiculite, Push Spreader.....	2.72	
32 91 13 33-0012 MSF Vermiculite, Tractor Spreader.....	297.66	
32 91 13 33-0013 SY Humate Granular Soil Conditioner, 0.10 LB/SY, Push Spreader.....	0.16	
32 91 13 33-0014 MSF Humate Granular Soil Conditioner, 10 LB/MSF, Tractor Spreader.....	14.33	
32 91 13 36 Lawn Bed Preparation <small>(32 91 13)</small>		
32 91 13 36-0001 Lawn Bed Preparation <small>(32 91 13 36)</small>		
32 91 13 36-0002 MSF Rake Topsoil With Machine.....	76.50	
32 91 13 36-0003 MSF Rake Topsoil By Hand.....	60.31	
32 91 13 36-0004 MSF Screen Loam By Hand.....	40.21	
32 91 13 36-0005 SY Roll Topsoil With Machine.....	0.99	
32 91 13 36-0006 SY Roll Topsoil By Hand.....	2.69	
32 91 13 36-0007 MSF Removal Of Rocks And Debris With Machine.....	9.04	
32 91 13 36-0008 MSF Removal Of Rocks And Debris By Hand.....	27.85	
32 91 13 36-0009 MSF Root Raking And Loading, No Boulders..... <i>For >45 to 225, Deduct</i> <i>For >225, Deduct</i>	47.34 -33.14 -42.61	
32 91 13 36-0010 MSF Root Raking And Loading, With Boulders..... <i>For >45 to 225, Deduct</i> <i>For >225, Deduct</i>	78.90 -55.23 -71.01	
32 91 13 36-0011 MSF Up To 6" Deep Tilling Topsoil With Tractor.....	4.27	
32 91 13 36-0012 MSF >6" To 12" Deep Tilling Topsoil With Tractor..... <i>For Work On Slopes >2.5:1, Add</i>	8.65 1.73	
32 91 13 36-0013 SY Up To 2" Deep Tilling Topsoil With Rototiller.....	0.65	
32 91 13 36-0014 SY >2" To 4" Deep Tilling Topsoil With Rototiller.....	0.77	
32 91 13 36-0015 SY >4" To 6" Deep Tilling Topsoil With Rototiller.....	0.97	
32 91 13 36-0016 LF "V" Cut Soil For Edge Of Planting Beds.....	1.07	
32 91 13 36-0017 Sod Removal <small>(32 91 13 36)</small>		
32 91 13 36-0018 SY Removal Of Sod By Hand..... <i>For Work On Slopes >2.5:1, Add</i>	5.08 1.02	
32 91 13 36-0019 SY Removal Of Sod With Machine..... <i>For Work On Slopes >2.5:1, Add</i>	0.58 0.12	
32 91 13 36-0020 SY Pile Sod By Hand..... <i>For Work On Slopes >2.5:1, Add</i>	3.01 0.60	
32 91 13 36-0021 SY Pile Sod With Machine..... <i>For Work On Slopes >2.5:1, Add</i>	1.08 0.22	

32 Exterior Improvements**32 90 Planting****32 91 Planting Preparation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**32 91 19 Landscape Grading (32 91)****32 91 19 13 Topsoil Placement and Grading (32 91 19)****32 91 19 13-0001 Remove And Stockpile Topsoil On Site (32 91 19 13)**

32 91 19 13-0002	CY	Removal Of Topsoil, 4" Deep Stockpile On Site	4.58
32 91 19 13-0003	CY	Removal Of Topsoil, 6" Deep Stockpile On Site	4.53

32 91 19 13-0004 Screening Topsoil (32 91 19 13)

32 91 19 13-0005	CY	Screen Topsoil With Vibrating Screen, Wet Material (Organic)	10.10
32 91 19 13-0006	CY	Screen Topsoil With Vibrating Screen, Dry Material	6.73

32 91 19 13-0007 Spreading Topsoil From Stockpile (32 91 19 13)

32 91 19 13-0008	CY	Spread Topsoil By Machine From Stockpile	7.35
32 91 19 13-0009	CY	Spread Topsoil By Hand From Stockpile	57.55

32 91 19 13-0010 Furnish And Place Imported Screened Topsoil (32 91 19 13)

Note: Includes delivery up to 15 miles from the closest approved source and spread by machine. Excludes hand spreading. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles, 31 23 16 36-0030 for hand spreading.

32 91 19 13-0011	SY	Furnish And Place Imported Screened Topsoil, 2" Deep	5.09
		<i>For Unscreened, Deduct</i>	-0.86
32 91 19 13-0012	SY	Furnish And Place Imported Screened Topsoil, 4" Deep	9.91
		<i>For Unscreened, Deduct</i>	-1.71
32 91 19 13-0013	SY	Furnish And Place Imported Screened Topsoil, 6" Deep	14.50
		<i>For Unscreened, Deduct</i>	-2.57
32 91 19 13-0014	SY	Furnish And Place Imported Screened Topsoil, 9" Deep	21.23
		<i>For Unscreened, Deduct</i>	-3.85
32 91 19 13-0015	SY	Furnish And Place Imported Screened Topsoil, 12" Deep	27.95
		<i>For Unscreened, Deduct</i>	-5.14
32 91 19 13-0016	CY	Furnish And Place Imported Screened Topsoil, Over 12" Deep	79.34
		<i>For Unscreened, Deduct</i>	-15.41

32 91 19 13-0017 Scarify Soil For Planting Preparation (32 91 19 13)

Note: Ripped in multiple directions with 3" maximum clods.

32 91 19 13-0018	MSF	Up To 5,000 SF Scarify Up To 8" Soil With Machine	57.67
32 91 19 13-0019	MSF	>5,000 To 20,000 SF Scarify Up To 8" Soil With Machine	40.36
32 91 19 13-0020	MSF	>20,000 SF Scarify Up To 8" Soil With Machine	23.73

32 92 Turf and Grasses (32 90)**32 92 16 Plugging (32 92)****32 92 16 00-0001 Bermuda Or Centipede Plugging, 1" Deep (32 92 16)**

Note: Includes fine grade and soil preparation.

32 92 16 00-0002 6" On Center Plugging (32 92 16 00-0001)

32 92 16 00-0003	MSF	Plugging By Hand, 6" On Center	199.50
32 92 16 00-0004	MSF	Plugging By Walk Behind Planter, 6" On Center	31.39
32 92 16 00-0005	MSF	Plugging By Towed Planter, 6" On Center	24.55

32 92 16 00-0006 9" On Center Plugging (32 92 16 00-0001)

32 92 16 00-0007	MSF	Plugging By Hand, 9" On Center	152.91
32 92 16 00-0008	MSF	Plugging By Walk Behind Planter, 9" On Center	24.38
32 92 16 00-0009	MSF	Plugging By Towed Planter, 9" On Center	18.35

32 92 16 00-0010 12" On Center Plugging (32 92 16 00-0001)

32 92 16 00-0011	MSF	Plugging By Hand, 12" On Center	127.96
32 92 16 00-0012	MSF	Plugging By Walk Behind Planter, 12" On Center	16.30
32 92 16 00-0013	MSF	Plugging By Towed Planter, 12" On Center	11.66

32 92 19 Seeding (32 92)**32 92 19 13 Mechanical Seeding (32 92 19)**

Note: Includes fertilizing, liming, mixing, seeding and initial watering.

32 92 19 13-0001 Tractor Spreader Mechanical Seeding (32 92 19 13)

Note: Excludes straw. See CSI section 32 91 13 16-0017 for wheat straw mulch.

32 92 19 13-0002	MSF	Common Bluegrass, Tractor Spreader	45.14
		Note: 4 LB/MSF spread rate.	
32 92 19 13-0003	MSF	Tall Fescue, Tractor Spreader	34.74
		Note: 5.5 LB/MSF spread rate.	
32 92 19 13-0004	MSF	Rye, Tractor Spreader	35.47
		Note: 10 LB/MSF spread rate.	



Exterior Improvements	32	32
Planting	32 90	
Turf and Grasses	32 92	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 13-0005	MSF		Shade Mix, Tractor Spreader..... Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.	39.22	
32 92 19 13-0006	MSF		Turf Mix, Tractor Spreader..... Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.	41.91	
32 92 19 13-0007	MSF		Slope Mix, Tractor Spreader..... Note: 6 LB/MSF spread rate.	38.33	
32 92 19 13-0008	MSF		Utility Mix, Tractor Spreader..... Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.	33.85	
32 92 19 13-0009	MSF		Wild Flower Mix, Tractor Spreader..... Note: 0.10 LB/MSF spread rate.	25.41	
32 92 19 13-0010	MSF		Crown Vetch Mix, Tractor Spreader..... Note: 4 LB/MSF spread rate.	92.13	
32 92 19 13-0011	MSF		Athletic Mix, Tractor Spreader..... Note: 8 LB/MSF spread rate. Mixture of three varieties of drought resistant bluegrass, tall fescue and Kentucky bluegrass.	52.67	
32 92 19 13-0012	MSF		White Clover Mix, Tractor Spreader..... Note: 7 LB/MSF spread rate.	25.32	
32 92 19 13-0013	MSF		Ladino Clover Mix, Tractor Spreader..... Note: 7 LB/MSF spread rate.	28.91	
32 92 19 13-0014			Hydro Or Air Mechanical Seeding (32 92 19 13)		
32 92 19 13-0015	MSF		Common Bluegrass, Hydro Or Air Seeding..... Note: 4 LB/MSF spread rate.	89.92	
			<i>For Spot Areas Up To 1, Add</i>	89.51	
			<i>For >1 To 4, Add</i>	56.92	
			<i>For >4 To 7.5, Add</i>	38.19	
			<i>For >7.5 To 10, Add</i>	19.10	
			<i>For >45, Deduct</i>	-6.93	
			<i>For Tackifier, Add</i>	0.99	
32 92 19 13-0016	MSF		Tall Fescue, Hydro Or Air Seeding..... Note: 5.5 LB/MSF spread rate.	96.20	
			<i>For Spot Areas Up To 1, Add</i>	92.02	
			<i>For >1 To 4, Add</i>	58.18	
			<i>For >4 To 7.5, Add</i>	38.82	
			<i>For >7.5 To 10, Add</i>	19.41	
			<i>For >45, Deduct</i>	-7.24	
			<i>For Tackifier, Add</i>	0.99	
32 92 19 13-0017	MSF		Rye, Hydro Or Air Spread..... Note: 10 LB/MSF spread rate.	90.19	
			<i>For Spot Areas Up To 1, Add</i>	89.61	
			<i>For >1 To 4, Add</i>	56.97	
			<i>For >4 To 7.5, Add</i>	38.22	
			<i>For >7.5 To 10, Add</i>	19.11	
			<i>For >45, Deduct</i>	-6.94	
			<i>For Tackifier, Add</i>	0.99	
32 92 19 13-0018	MSF		Shade Mix, Hydro Or Air Seeding..... Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.	89.92	
			<i>For Spot Areas Up To 1, Add</i>	89.51	
			<i>For >1 To 4, Add</i>	56.92	
			<i>For >4 To 7.5, Add</i>	38.19	
			<i>For >7.5 To 10, Add</i>	19.10	
			<i>For >45, Deduct</i>	-6.93	
			<i>For Tackifier, Add</i>	0.99	
32 92 19 13-0019	MSF		Turf Mix, Hydro Or Air Seeding..... Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.	96.20	
			<i>For Spot Areas Up To 1, Add</i>	92.02	
			<i>For >1 To 4, Add</i>	58.18	
			<i>For >4 To 7.5, Add</i>	38.82	
			<i>For >7.5 To 10, Add</i>	19.41	
			<i>For >45, Deduct</i>	-7.24	
			<i>For Tackifier, Add</i>	0.99	
32 92 19 13-0020	MSF		Slope Mix, Hydro Or Air Seeding..... Note: 6 LB/MSF spread rate.	93.51	
			<i>For Spot Areas Up To 1, Add</i>	90.94	
			<i>For >1 To 4, Add</i>	57.64	
			<i>For >4 To 7.5, Add</i>	38.55	
			<i>For >7.5 To 10, Add</i>	19.28	
			<i>For >45, Deduct</i>	-7.11	
			<i>For Tackifier, Add</i>	0.99	
32 92 19 13-0021	MSF		Utility Mix, Hydro Or Air Seeding..... Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.	91.34	
			<i>For Spot Areas Up To 1, Add</i>	90.07	
			<i>For >1 To 4, Add</i>	57.20	
			<i>For >4 To 7.5, Add</i>	38.34	
			<i>For >7.5 To 10, Add</i>	19.17	
			<i>For >45, Deduct</i>	-7.00	
			<i>For Tackifier, Add</i>	0.99	
32 92 19 13-0022	MSF		Wild Flower Mix, Hydro Or Air Seeding..... Note: 0.10 LB/MSF spread rate.	84.35	
			<i>For Spot Areas Up To 1, Add</i>	87.28	
			<i>For >1 To 4, Add</i>	55.81	
			<i>For >4 To 7.5, Add</i>	37.64	
			<i>For >7.5 To 10, Add</i>	18.82	
			<i>For >45, Deduct</i>	-6.65	
			<i>For Tackifier, Add</i>	0.99	

32 Exterior Improvements**32 90 Planting****32 92 Turf and Grasses**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 13-0023 MSF Crown Vetch Mix, Hydro Or Air Seeding .....147.32 Note: 4 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	112.47	
For >1 To 4, Add	68.40	
For >4 To 7.5, Add	43.93	
For >7.5 To 10, Add	21.97	
For >45, Deduct	-9.80	
For Tackifier, Add	0.99	
32 92 19 13-0024 MSF Athletic Mix, Hydro Or Air Seeding .....127.61 Note: 8 LB/MSF spread rate. Mixture of three varieties of drought resistant bluegrass, tall fescue and Kentucky bluegrass.		
For Spot Areas Up To 1, Add	104.58	
For >1 To 4, Add	64.46	
For >4 To 7.5, Add	41.96	
For >7.5 To 10, Add	20.98	
For >45, Deduct	-8.81	
For Tackifier, Add	0.99	
32 92 19 13-0025 MSF White Clover Mix, Hydro Or Air Seeding .....75.84 Note: 7 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	83.87	
For >1 To 4, Add	54.10	
For >4 To 7.5, Add	36.79	
For >7.5 To 10, Add	18.39	
For >45, Deduct	-6.23	
For Tackifier, Add	0.99	
32 92 19 13-0026 MSF Ladino Clover Mix, Hydro Or Air Seeding .....86.34 Note: 7 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	88.07	
For >1 To 4, Add	56.20	
For >4 To 7.5, Add	37.84	
For >7.5 To 10, Add	18.92	
For >45, Deduct	-6.75	
For Tackifier, Add	0.99	
32 92 19 13-0027 MSF 60% Kentucky Bluegrass, 20% Creeping Red Fescue, 10% Red Top And 10% Domestic Rye, Hydro Or Air Spread .....91.72 Note: 4 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	90.23	
For >1 To 4, Add	57.28	
For >4 To 7.5, Add	38.37	
For >7.5 To 10, Add	19.19	
For >45, Deduct	-7.02	
For Tackifier, Add	0.99	
32 92 19 13-0028 MSF 2,500 LB/Acre, High Performance - Flexible Growth Medium .....93.24 Note: Applied with seed. Excludes seed.		
For >45, Deduct	-5.88	
32 92 19 13-0029 MSF 3,000 LB/Acre, High Performance - Flexible Growth Medium .....108.24 Note: Applied with seed. Excludes seed.		
For >45, Deduct	-6.69	
32 92 19 13-0030 MSF 3,500 LB/Acre, High Performance - Flexible Growth Medium .....123.31 Note: Applied with seed. Excludes seed.		
For >45, Deduct	-7.51	
32 92 19 13-0031 MSF 4,000 LB/Acre, High Performance - Flexible Growth Medium .....138.41 Note: Applied with seed. Excludes seed.		
For >45, Deduct	-8.33	
32 92 19 13-0032 MSF 4,500 LB/Acre, High Performance - Flexible Growth Medium .....153.60 Note: Applied with seed. Excludes seed.		
For >45, Deduct	-9.16	
32 92 19 19 Seeding by Hand <small>(32 92 19)</small>		
Note: Includes fertilizing, liming, mixing, seeding and initial watering. See CSI section 32 91 13 16-0017 for wheat straw mulch.		
32 92 19 19-0001 Push Spreader Or Hand Seeding <small>(32 92 19 19)</small>		
Note: Excludes straw. See CSI section 32 91 13 16-0017 for wheat straw mulch.		
32 92 19 19-0002 MSF Common Bluegrass, Push Spreader Or Hand .....100.14 Note: 4 LB/MSF spread rate.		
For >5 To 20, Deduct	-6.89	
For >20 To 45, Deduct	-13.16	
For >45, Deduct	-21.32	
32 92 19 19-0003 MSF Tall Fescue, Push Spreader Or Hand .....89.74 Note: 5.5 LB/MSF spread rate.		
For >5 To 20, Deduct	-6.37	
For >20 To 45, Deduct	-12.38	
For >45, Deduct	-20.28	
32 92 19 19-0004 MSF Rye, Push Spreader Or Hand .....90.47 Note: 10 LB/MSF spread rate.		
For >5 To 20, Deduct	-6.41	
For >20 To 45, Deduct	-12.44	
For >45, Deduct	-20.36	
32 92 19 19-0005 MSF Shade Mix, Push Spreader Or Hand .....94.22 Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.		
For >5 To 20, Deduct	-6.60	
For >20 To 45, Deduct	-12.72	
For >45, Deduct	-20.73	



		Exterior Improvements	32
		Planting	32 90
		Turf and Grasses	32 92

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 19-0006 MSF Turf Mix, Push Spreader Or Hand.....	96.91	
Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.		
For >5 To 20, Deduct	-6.73	
For >20 To 45, Deduct	-12.92	
For >45, Deduct	-21.00	
32 92 19 19-0007 MSF Slope Mix, Push Spreader Or Hand.....	93.33	
Note: 6 LB/MSF spread rate.		
For >5 To 20, Deduct	-6.55	
For >20 To 45, Deduct	-12.65	
For >45, Deduct	-20.64	
32 92 19 19-0008 MSF Utility Mix, Push Spreader Or Hand.....	88.85	
Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.		
For >5 To 20, Deduct	-6.33	
For >20 To 45, Deduct	-12.32	
For >45, Deduct	-20.19	
32 92 19 19-0009 MSF Wild Flower Mix, Push Spreader Or Hand.....	80.41	
Note: 0.10 LB/MSF spread rate.		
For >5 To 20, Deduct	-5.91	
For >20 To 45, Deduct	-11.69	
For >45, Deduct	-19.35	
32 92 19 19-0010 MSF Crown Vetch Mix, Push Spreader Or Hand.....	147.13	
Note: 4 LB/MSF spread rate.		
For >5 To 20, Deduct	-9.24	
For >20 To 45, Deduct	-16.69	
For >45, Deduct	-26.02	
32 92 19 19-0011 MSF Athletic Mix, Push Spreader Or Hand.....	107.67	
Note: 8 LB/MSF spread rate. Mixture of drought resistant bluegrass, tall fescue and Kentucky bluegrass.		
For >5 To 20, Deduct	-7.27	
For >20 To 45, Deduct	-13.73	
For >45, Deduct	-22.08	
32 92 19 19-0012 MSF White Clover Mix, Push Spreader Or Hand.....	80.32	
Note: 7 LB/MSF spread rate.		
For >5 To 20, Deduct	-5.90	
For >20 To 45, Deduct	-11.68	
For >45, Deduct	-19.34	
32 92 19 19-0013 MSF Ladino Clover Mix, Push Spreader Or Hand.....	83.91	
Note: 7 LB/MSF spread rate.		
For >5 To 20, Deduct	-6.08	
For >20 To 45, Deduct	-11.95	
For >45, Deduct	-19.70	
32 92 19 19-0014 MSF 100% Kentucky Bluegrass, Push Spreader Or Hand.....	101.85	
Note: 3.3 LB/MSF spread rate.		
For >5 To 20, Deduct	-6.98	
For >20 To 45, Deduct	-13.29	
For >45, Deduct	-21.49	
32 92 19 19-0015 MSF 70% Kentucky Bluegrass And 30% Fescue, Push Spreader Or Hand.....	96.91	
Note: 3.3 LB/MSF spread rate.		
For >5 To 20, Deduct	-6.73	
For >20 To 45, Deduct	-12.92	
For >45, Deduct	-21.00	
32 92 19 19-0016 MSF 50% Kentucky Bluegrass And 50% Fescue, Push Spreader Or Hand.....	93.33	
Note: 3.3 LB/MSF spread rate.		
For >5 To 20, Deduct	-6.55	
For >20 To 45, Deduct	-12.65	
For >45, Deduct	-20.64	
32 92 19 19-0017 MSF 50% Kentucky Bluegrass And 50% Perennial Rye, Push Spreader Or Hand.....	100.50	
Note: 4.4 LB/MSF spread rate.		
For >5 To 20, Deduct	-6.91	
For >20 To 45, Deduct	-13.19	
For >45, Deduct	-21.36	
32 92 19 19-0018 MSF 60% Kentucky Bluegrass, 20% Creeping Red Fescue, 10% Red Top And 10% Domestic Rye, Push Spreader Or Hand.....	95.12	
Note: 3.3 LB/MSF spread rate.		
For >5 To 20, Deduct	-6.64	
For >20 To 45, Deduct	-12.79	
For >45, Deduct	-20.82	
32 92 19 19-0019 MSF 40% Creeping Red Fescue, 30% Kentucky Bluegrass, 10% Red Top, And 20% Blue Tag Perennial Rye, Push Spreader Or Hand.....	96.91	
Note: 3.3 LB/MSF spread rate.		
For >5 To 20, Deduct	-6.73	
For >20 To 45, Deduct	-12.92	
For >45, Deduct	-21.00	

32 92 23 Sodding (32 92)

Note: Includes raking preparation, water thoroughly and allow surface to dry before planting, rolling of sod, sanding seams for (up to 16" wide by 24" long) squares or (up to 24" wide by 54" long) rolls and initial watering within 2 hours after planting.

32 92 23 00-0001 Bermuda Sod (32 92 23)

32 92 23 00-0002 MSF Up To 1,000 SF, Bermuda Sod, Installed On Level Ground.....	1,499.99
32 92 23 00-0003 MSF >1,000 To 4,000 SF, Bermuda Sod, Installed On Level Ground.....	1,247.04
32 92 23 00-0004 MSF >4,000 To 8,000 SF, Bermuda Sod, Installed On Level Ground.....	1,058.69
32 92 23 00-0005 MSF >8,000 SF, Bermuda Sod, Installed On Level Ground.....	917.72
32 92 23 00-0006 MSF Up To 1,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,796.91
32 92 23 00-0007 MSF >1,000 To 4,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,498.41
32 92 23 00-0008 MSF >4,000 To 8,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,232.10

32 Exterior Improvements**32 90 Planting****32 92 Turf and Grasses**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 23 00-0009 MSF >8,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes	1,065.19	
32 92 23 00-0010 Zoysia Sod <small>(32 92 23)</small>		
32 92 23 00-0011 MSF Up To 1,000 SF, Zoysia Sod, Installed On Level Ground	2,258.18	
32 92 23 00-0012 MSF >1,000 To 4,000 SF, Zoysia Sod, Installed On Level Ground	1,814.20	
32 92 23 00-0013 MSF >4,000 To 8,000 SF, Zoysia Sod, Installed On Level Ground	1,531.32	
32 92 23 00-0014 MSF >8,000 SF, Zoysia Sod, Installed On Level Ground	1,295.82	
32 92 23 00-0015 MSF Up To 1,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes	2,553.12	
32 92 23 00-0016 MSF >1,000 To 4,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes	2,065.57	
32 92 23 00-0017 MSF >4,000 To 8,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes	1,704.73	
32 92 23 00-0018 MSF >8,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes	1,443.29	
32 92 23 00-0019 Tall Fescue Sod <small>(32 92 23)</small>		
32 92 23 00-0020 MSF Up To 1,000 SF, Tall Fescue Sod, Installed On Level Ground	2,223.09	
<i>For Hybrid Fescue "Marathon", Add</i>	160.02	
32 92 23 00-0021 MSF >1,000 To 4,000 SF, Tall Fescue Sod, Installed On Level Ground	1,787.88	
<i>For Hybrid Fescue "Marathon", Add</i>	120.39	
32 92 23 00-0022 MSF >4,000 To 8,000 SF, Tall Fescue Sod, Installed On Level Ground	1,509.39	
<i>For Hybrid Fescue "Marathon", Add</i>	100.57	
32 92 23 00-0023 MSF >8,000 SF, Tall Fescue Sod, Installed On Level Ground	1,278.28	
<i>For Hybrid Fescue "Marathon", Add</i>	80.75	
32 92 23 00-0024 MSF Up To 1,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes	2,518.03	
<i>For Hybrid Fescue "Marathon", Add</i>	160.02	
32 92 23 00-0025 MSF >1,000 To 4,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes	2,039.25	
<i>For Hybrid Fescue "Marathon", Add</i>	120.39	
32 92 23 00-0026 MSF >4,000 To 8,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes	1,682.80	
<i>For Hybrid Fescue "Marathon", Add</i>	100.57	
32 92 23 00-0027 MSF >8,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes	1,425.75	
<i>For Hybrid Fescue "Marathon", Add</i>	80.75	
32 92 23 00-0028 Centipede Sod <small>(32 92 23)</small>		
32 92 23 00-0029 MSF Up To 1,000 SF, Centipede Sod, Installed On Level Ground	1,965.85	
32 92 23 00-0030 MSF >1,000 To 4,000 SF, Centipede Sod, Installed On Level Ground	1,594.95	
32 92 23 00-0031 MSF >4,000 To 8,000 SF, Centipede Sod, Installed On Level Ground	1,348.62	
32 92 23 00-0032 MSF >8,000 SF, Centipede Sod, Installed On Level Ground	1,149.66	
32 92 23 00-0033 MSF Up To 1,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes	2,260.79	
32 92 23 00-0034 MSF >1,000 To 4,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes	1,846.32	
32 92 23 00-0035 MSF >4,000 To 8,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes	1,522.03	
32 92 23 00-0036 MSF >8,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes	1,297.13	
32 92 23 00-0037 Kentucky Blue Grass Sod <small>(32 92 23)</small>		
32 92 23 00-0038 MSF Up To 1,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	1,862.77	
32 92 23 00-0039 MSF >1,000 To 4,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	1,517.64	
32 92 23 00-0040 MSF >4,000 To 8,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	1,284.19	
32 92 23 00-0041 MSF >8,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	1,098.12	
32 92 23 00-0042 MSF Up To 1,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	2,157.71	
32 92 23 00-0043 MSF >1,000 To 4,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	1,769.01	
32 92 23 00-0044 MSF >4,000 To 8,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	1,457.60	
32 92 23 00-0045 MSF >8,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	1,245.59	
32 92 23 00-0046 Ballfield Mix 2A Sod 10% Bermuda Shorts, 10% Barclay, 80% Turfstar <small>(32 92 23)</small>		
32 92 23 00-0047 MSF Up To 1,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground	1,708.14	
32 92 23 00-0048 MSF >1,000 To 4,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground	1,401.67	
32 92 23 00-0049 MSF >4,000 To 8,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground	1,187.55	
32 92 23 00-0050 MSF >8,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground	1,020.80	
32 92 23 00-0051 MSF Up To 1,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes	2,003.08	
32 92 23 00-0052 MSF >1,000 To 4,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes	1,653.04	
32 92 23 00-0053 MSF >4,000 To 8,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes	1,360.96	
32 92 23 00-0054 MSF >8,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes	1,168.27	
32 92 23 00-0055 GN-1 Sod <small>(32 92 23)</small>		
32 92 23 00-0056 MSF Up To 1,000 SF, GN-1 Sod, Installed On Level Ground	2,243.39	
32 92 23 00-0057 MSF >1,000 To 4,000 SF, GN-1 Sod, Installed On Level Ground	1,803.10	
32 92 23 00-0058 MSF >4,000 To 8,000 SF, GN-1 Sod, Installed On Level Ground	1,522.08	
32 92 23 00-0059 MSF >8,000 SF, GN-1 Sod, Installed On Level Ground	1,288.43	
32 92 23 00-0060 MSF Up To 1,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes	2,538.33	
32 92 23 00-0061 MSF >1,000 To 4,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes	2,054.47	
32 92 23 00-0062 MSF >4,000 To 8,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes	1,695.49	
32 92 23 00-0063 MSF >8,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes	1,435.90	
32 92 23 00-0064 Tifgreen Bermuda Sod <small>(32 92 23)</small>		
32 92 23 00-0065 MSF Up To 1,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground	2,360.35	
32 92 23 00-0066 MSF >1,000 To 4,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground	1,890.82	



		Exterior Improvements	32
		Planting	32 90
		Turf and Grasses	32 92

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 23 00-0067	MSF		>4,000 To 8,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground.....	1,595.18	
32 92 23 00-0068	MSF		>8,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground.....	1,346.91	
32 92 23 00-0069	MSF		Up To 1,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,655.29	
32 92 23 00-0070	MSF		>1,000 To 4,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,142.19	
32 92 23 00-0071	MSF		>4,000 To 8,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,768.59	
32 92 23 00-0072	MSF		>8,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,494.38	

32 93 Plants (32 90)

32 93 13 Ground Covers (32 93)

Note: Materials only. See CSI section 32 93 83 00-0057 for installation and planting of ground cover.

32 93 13 00-0001 Ornamental Grasses (32 93 13)

32 93 13 00-0002	EA	1	Gallon, Cortaderia selloana - Pampas Grass.....	19.62	
32 93 13 00-0003	EA	2	Gallon, Cortaderia selloana - Pampas Grass.....	36.27	
32 93 13 00-0004	EA	3	Gallon, Cortaderia selloana - Pampas Grass.....	65.91	
32 93 13 00-0005	EA	5	Gallon, Cortaderia selloana - Pampas Grass.....	119.96	
32 93 13 00-0006	EA	1	Quart, Imperata cylindrica - Japanese Blood Grass.....	15.02	
32 93 13 00-0007	EA	1	Gallon, Imperata cylindrica - Japanese Blood Grass.....	19.97	
32 93 13 00-0008	EA	2	Gallon, Imperata cylindrica - Japanese Blood Grass.....	21.37	
32 93 13 00-0009	EA	1	Quart, Koeleria glauca - Blue Hair Grass.....	14.98	
32 93 13 00-0010	EA	1	Gallon, Koeleria glauca - Blue Hair Grass.....	19.97	
32 93 13 00-0011	EA	3	Gallon, Koeleria glauca - Blue Hair Grass.....	48.31	
32 93 13 00-0012	EA	1	Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass.....	18.96	
32 93 13 00-0013	EA	3	Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass.....	24.57	
32 93 13 00-0014	EA	5	Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass.....	46.97	
32 93 13 00-0015	EA	1	Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass.....	17.60	
32 93 13 00-0016	EA	3	Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass.....	27.66	
32 93 13 00-0017	EA	5	Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass.....	47.34	
32 93 13 00-0018	EA	1	Quart, Pennisetum setaceum - Fountain Grass.....	16.38	
32 93 13 00-0019	EA	1	Gallon, Pennisetum setaceum - Fountain Grass.....	41.67	
32 93 13 00-0020	EA	3	Gallon, Pennisetum setaceum - Fountain Grass.....	54.94	
32 93 13 00-0021	EA	1	Gallon, Saccharum ravennae - Ravenna Grass.....	51.86	
32 93 13 00-0022	EA	3	Gallon, Saccharum ravennae - Ravenna Grass.....	58.26	
32 93 13 00-0023	EA	7	Gallon, Saccharum ravennae - Ravenna Grass.....	96.11	
32 93 13 00-0024	EA	1	Gallon, Spartina pectinata - Variegated Cord Grass.....	28.16	
32 93 13 00-0025	EA	2	Gallon, Spartina pectinata - Variegated Cord Grass.....	42.15	
32 93 13 00-0026	EA	1	Quart, Stipa gigantea - Giant Feather Grass.....	21.50	
32 93 13 00-0027	EA	1	Gallon, Stipa gigantea - Giant Feather Grass.....	29.95	

32 93 13 00-0028 Ground Covers (32 93 13)

32 93 13 00-0029	EA	1	Gallon Agave Attenuata - Century Plant.....	8.52	
32 93 13 00-0030	EA	5	Gallon Agave Attenuata - Century Plant.....	22.96	
32 93 13 00-0031	EA	15	Gallon Agave Attenuata - Century Plant.....	75.91	
32 93 13 00-0032	EA	1	Gallon Ceanothus 'Carmel Creeper' - Wild Lilac.....	7.26	
32 93 13 00-0033	EA	5	Gallon Ceanothus 'Carmel Creeper' - Wild Lilac.....	20.22	
32 93 13 00-0034	EA	1	Gallon Ceanothus 'Yankee Point' - Wild Lilac.....	7.26	
32 93 13 00-0035	EA	5	Gallon Ceanothus 'Yankee Point' - Wild Lilac.....	18.89	
32 93 13 00-0036	EA	1	Gallon Dietes Vegata - Fortnight Lily.....	6.37	
32 93 13 00-0037	EA	5	Gallon Dietes Vegata - Fortnight Lily.....	15.70	
32 93 13 00-0038	EA	1	Gallon Juncus Patens 'Elk Blue' - California Gray Rush.....	11.83	
32 93 13 00-0039	EA	5	Gallon Juncus Patens 'Elk Blue' - California Gray Rush.....	31.09	
32 93 13 00-0040	EA	4"	Pot Miscanthus 'Morning Light' - NCN.....	8.87	
32 93 13 00-0041	EA	20	Count Flat Miscanthus 'Morning Light' - NCN.....	130.87	
32 93 13 00-0042	EA	1	Gallon Nassella Tenuissima - Mexican Feather Grass.....	11.83	
32 93 13 00-0043	EA	1	Gallon Trachelospermum Jasminoides - Star Jasmine.....	6.43	
32 93 13 00-0044	EA	5	Gallon Trachelospermum Jasminoides - Star Jasmine.....	16.12	
32 93 13 00-0045	EA	1	Gallon Westringia Fruticosa - Coast Rosemary.....	6.37	
32 93 13 00-0046	EA	5	Gallon Westringia Fruticosa - Coast Rosemary.....	15.70	
32 93 13 00-0047	EA	15	Gallon Westringia Fruticosa - Coast Rosemary.....	64.43	
32 93 13 00-0048	EA	1	Quart Carex 'Bowles Golden' - Variegated Japanese Sedge.....	19.36	
32 93 13 00-0049	EA	1	Gallon Carex 'Bowles Golden' - Variegated Japanese Sedge.....	25.21	
32 93 13 00-0050	EA	2	Gallon Juniperus horizontalis 'Plumosa Compacta' - Andorra Creeping Juniper.....	31.91	
32 93 13 00-0051	EA	1	Quart Waldsteinia ternata - Barren Strawberry.....	5.48	
32 93 13 00-0052	EA	1	Gallon Waldsteinia ternata - Barren Strawberry.....	13.15	
32 93 13 00-0053	EA	1	Gallon Cotoneaster dammeri - Bearberry Cotoneaster.....	17.90	
32 93 13 00-0054	EA	2	Gallon Cotoneaster dammeri - Bearberry Cotoneaster.....	33.98	
32 93 13 00-0055	EA	5	Gallon Cotoneaster dammeri - Bearberry Cotoneaster.....	59.92	
32 93 13 00-0056	EA	1	Gallon Liriope muscari 'Big Blue' - Big Blue Liriope.....	6.13	
32 93 13 00-0057	EA	1	Gallon Distictis buccinatoria - Blood Red Trumpet Vine.....	11.33	
32 93 13 00-0058	EA	5	Gallon Distictis buccinatoria - Blood Red Trumpet Vine.....	39.82	
32 93 13 00-0059	EA	1	Gallon Juniperus horizontalis 'Wiltoni' - Blue Rug Juniper.....	14.87	
32 93 13 00-0060	EA	4"	Pot Parthenocissus tricuspidata - Boston Ivy.....	7.31	
32 93 13 00-0061	EA	1	Gallon Parthenocissus tricuspidata - Boston Ivy.....	16.66	
32 93 13 00-0062	EA	5	Gallon Parthenocissus tricuspidata - Boston Ivy.....	45.59	
32 93 13 00-0063	EA	3	Gallon Bougainvillea spectabilis - Bougainvillea.....	19.16	
32 93 13 00-0064	EA	1	Quart Iberis sempervirens - Candytuft.....	5.48	
32 93 13 00-0065	EA	1	Gallon Iberis sempervirens - Candytuft.....	13.15	
32 93 13 00-0066	EA	1	Gallon Gelsemium sempervirens - Carolina Jessamine.....	15.78	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 13 00-0067	EA	5 Gallon Gelsemium sempervirens - Carolina Jessamine.....	56.99	
32 93 13 00-0068	EA	3" Pot Ajuga reptans - Carpet Bugle	3.29	
32 93 13 00-0069	EA	1 Quart Ajuga reptans - Carpet Bugle	5.48	
32 93 13 00-0070	EA	1 Gallon Ajuga reptans - Carpet Bugle.....	13.15	
32 93 13 00-0071	EA	24 Plant Flat Ajuga reptans - Carpet Bugle.....	56.63	
32 93 13 00-0072	EA	1 Gallon Macfadyena unguis-cati - Cat Claw Vine	13.15	
32 93 13 00-0073	EA	5 Gallon Macfadyena unguis-cati - Cat Claw Vine	56.99	
32 93 13 00-0074	EA	1 Gallon Wisteria sinensis - Chinese Wisteria Vine.....	17.17	
32 93 13 00-0075	EA	3 Gallon Wisteria sinensis - Chinese Wisteria Vine.....	38.00	
32 93 13 00-0076	EA	5 Gallon Wisteria sinensis - Chinese Wisteria Vine.....	56.99	
32 93 13 00-0077	EA	1 Gallon Ranunculaceae - Clematis Varieties.....	18.88	
32 93 13 00-0078	EA	2 Gallon Ranunculaceae - Clematis Varieties.....	34.91	
32 93 13 00-0079	EA	1 Gallon Hydrangea petiolaris - Climbing Hydrangea	23.75	
32 93 13 00-0080	EA	2 Gallon Hydrangea petiolaris - Climbing Hydrangea	44.57	
32 93 13 00-0081	EA	5 Gallon Hydrangea petiolaris - Climbing Hydrangea	73.07	
32 93 13 00-0082	EA	4" Pot Lantana camera - Common Lantana	3.29	
32 93 13 00-0083	EA	1 Gallon Lantana camera - Common Lantana	9.50	
32 93 13 00-0084	EA	1 Gallon Gardenia jasminoides 'Radicans' - Creeping Gardenia.....	11.33	
32 93 13 00-0085	EA	5 Gallon Gardenia jasminoides 'Radicans' - Creeping Gardenia.....	37.26	
32 93 13 00-0086	EA	2 Quart Lysimachia nummularia - Creeping Jenny	5.48	
32 93 13 00-0087	EA	1 Gallon Lysimachia nummularia - Creeping Jenny.....	10.60	
32 93 13 00-0088	EA	2 Quart Liriope spicata - Creeping Lilytuft	9.50	
32 93 13 00-0089	EA	1 Gallon Liriope spicata - Creeping Lilytuft.....	17.17	
32 93 13 00-0090	EA	5 Gallon Liriope spicata - Creeping Lilytuft.....	36.17	
32 93 13 00-0091	EA	Bare Root Liriope spicata - Creeping Liriope	2.40	
32 93 13 00-0092	EA	3" Pot Rosmarinus officinalis 'Prostratus' - Creeping Rosemary	3.29	
32 93 13 00-0093	EA	1 Gallon Rosmarinus officinalis 'Prostratus' - Creeping Rosemary	13.15	
32 93 13 00-0094	EA	2-1/4" Pot Securigera varia - Crown Vetch.....	2.19	
32 93 13 00-0095	EA	50 Plant Flat Securigera varia - Crown Vetch	74.16	
32 93 13 00-0096	EA	1 Quart Senecio cineraria - Dusty Miller	5.48	
32 93 13 00-0097	EA	1 Gallon Senecio cineraria - Dusty Miller	13.15	
32 93 13 00-0098	EA	2 Gallon Aristolochia macrophylla - Dutchman's Pipe	45.67	
32 93 13 00-0099	EA	5 Gallon Aristolochia macrophylla - Dutchman's Pipe	83.66	
32 93 13 00-0100	EA	1 Gallon Ilex cornuta - Dwarf Holly.....	9.92	
32 93 13 00-0101	EA	3 Gallon Ilex cornuta - Dwarf Holly	21.26	
32 93 13 00-0102	EA	3 Gallon Rhampholepis umbellata 'Minor' - Dwarf Indian Hawthorn.....	21.26	
32 93 13 00-0103	EA	1 Gallon Tradescantia spathacea - Dwarf Oyster Plant	7.09	
32 93 13 00-0104	EA	2" To 3" Pot Hedera helix - English Ivy	3.29	
32 93 13 00-0105	EA	12" To 15" Runners Hedera helix - English Ivy	5.48	
32 93 13 00-0106	EA	1 Gallon Hedera helix - English Ivy	13.15	
32 93 13 00-0107	EA	50 Plant Flat Hedera helix - English Ivy	75.99	
32 93 13 00-0108	EA	4" Pot Lavandula angustifolia - English Lavender	4.75	
32 93 13 00-0109	EA	1 Quart Lavandula angustifolia - English Lavender	9.13	
32 93 13 00-0110	EA	1 Gallon Lavandula angustifolia - English Lavender	14.98	
32 93 13 00-0111	EA	1 Gallon Euonymus fortunei 'Kewensis' - Wintercreeper.....	14.25	
32 93 13 00-0112	EA	2 Gallon Euonymus fortunei 'Kewensis' - Wintercreeper.....	28.50	
32 93 13 00-0113	EA	1 Quart Arundo donax - Giant Reed.....	17.54	
32 93 13 00-0114	EA	1 Gallon Arundo donax - Giant Reed	25.21	
32 93 13 00-0115	EA	1 Gallon Lonicera x heckrottii - Gold Flame Honeysuckle.....	14.98	
32 93 13 00-0116	EA	2 Gallon Lonicera x heckrottii - Gold Flame Honeysuckle.....	28.50	
32 93 13 00-0117	EA	1 Quart Hakonechloa macra 'Aureola' - Golden Variegated Hakone Grass	19.36	
32 93 13 00-0118	EA	1 Gallon Hakonechloa macra 'Aureola' - Golden Variegated Hakone Grass	29.23	
32 93 13 00-0119	EA	3" Pot Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle	3.29	
32 93 13 00-0120	EA	1 Gallon Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle.....	14.98	
32 93 13 00-0121	EA	2 Gallon Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle.....	28.50	
32 93 13 00-0122	EA	1 Gallon Hardenbergia violacea - Happy Wanderer.....	13.15	
32 93 13 00-0123	EA	5 Gallon Hardenbergia violacea - Happy Wanderer	43.84	
32 93 13 00-0124	EA	3 Gallon Hibiscus, Assorted Colors.....	17.13	
32 93 13 00-0125	EA	1 Gallon Acorus gramineus - Japanese Sweet Flag	13.70	
32 93 13 00-0126	EA	1 Gallon Jasminum volubile - Wax Jasmine.....	6.90	
32 93 13 00-0127	EA	1 Gallon Jasminum volubile - Wax Jasmine.....	17.13	
32 93 13 00-0128	EA	1 Gallon Juniperus davurica 'Parsonii' - Parson's Juniper.....	8.61	
32 93 13 00-0129	EA	3 Gallon Juniperus davurica 'Parsonii' - Parson's Juniper.....	19.16	
32 93 13 00-0130	EA	1 Gallon Cissus antarctica - Kangaroo Vine.....	10.60	
32 93 13 00-0131	EA	5 Gallon Cissus antarctica - Kangaroo Vine.....	33.25	
32 93 13 00-0132	EA	1 Quart Stachys byzantina - Lamb's Ear	5.48	
32 93 13 00-0133	EA	1 Quart Stachys byzantina - Lamb's Ear	13.15	
32 93 13 00-0134	EA	1 Gallon Lantana spp. Various Colors.....	7.75	
32 93 13 00-0135	EA	1 Gallon Lantana sellowiana - Trailing Lantana	5.10	
32 93 13 00-0136	EA	1 Gallon Cocculus laurifolius - Laurel-leaf Snailseed	10.60	
32 93 13 00-0137	EA	5 Gallon Cocculus laurifolius - Laurel-leaf Snailseed	38.00	
32 93 13 00-0138	EA	1 Gallon Liriope Evergreen Giant, 6 To 8 Bibs Minimum	7.75	
32 93 13 00-0139	EA	1 Gallon Variegated Liriope Evergreen Giant, 6 To 8 Bibs Minimum	9.78	
32 93 13 00-0140	EA	3 Gallon Variegated Liriope Evergreen Giant, 6 To 8 Bibs Minimum	15.64	
32 93 13 00-0141	EA	1 Quart Moss Phlox, Creeping Phlox	5.48	
32 93 13 00-0142	EA	1 Gallon Moss Phlox, Creeping Phlox.....	13.15	
32 93 13 00-0143	EA	1 Gallon Nephrolepis exaltata - Common Boston Fern.....	6.90	
32 93 13 00-0144	EA	4" Pot Ophiopogon Japonicus - Mondo grass	3.29	
32 93 13 00-0145	EA	1 Gallon Ophiopogon Japonicus - Mondo grass	13.15	
32 93 13 00-0146	EA	5 Gallon Ophiopogon Japonicus - Mondo grass	30.32	
32 93 13 00-0147	EA	2' To 3' High Oregon Holly-Grape.....	15.18	



		Exterior Improvements	32
		Planting	32 90
		Plants	32 93

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93	13 00-0148	EA	1 Gallon Pachysandra terminalis - Pachysandra	19.78	
32 93	13 00-0149	EA	2-1/4" Pot Vinca minor - Periwinkle	1.83	
32 93	13 00-0150	EA	4" Pot Vinca minor - Periwinkle	5.48	
32 93	13 00-0151	EA	Bare Root Vinca minor - Periwinkle	1.83	
32 93	13 00-0152	EA	1 Quart Nepeta mussinii - Persian Catmint	5.48	
32 93	13 00-0153	EA	1 Gallon Nepeta mussinii - Persian Catmint	11.33	
32 93	13 00-0154	EA	1 Gallon Coprosma kirkii - Prostrate Coprosma	9.13	
32 93	13 00-0155	EA	5 Gallon Coprosma kirkii - Prostrate Coprosma	33.25	
32 93	13 00-0156	EA	1 Gallon Juniperus Horizontalis - Prostrate Juniper	14.98	
32 93	13 00-0157	EA	3 Gallon Juniperus Horizontalis - Prostrate Juniper	32.15	
32 93	13 00-0158	EA	5 Gallon Juniperus Horizontalis - Prostrate Juniper	47.49	
32 93	13 00-0159	EA	1 Quart Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	13.04	
32 93	13 00-0160	EA	1 Gallon Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	33.80	
32 93	13 00-0161	EA	24 Plant Flat Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	56.63	
32 93	13 00-0162	EA	1 Gallon Tradescantia spathacea - Rhoeco Discolor "Dwarf"	6.90	
32 93	13 00-0163	EA	1 Quart Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	7.67	
32 93	13 00-0164	EA	1 Gallon Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	13.70	
32 93	13 00-0165	EA	2 Gallon Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	21.37	
32 93	13 00-0166	EA	1 Gallon Hymenocallis latifolia - Spider Lily	8.50	
32 93	13 00-0167	EA	3 Gallon Hymenocallis latifolia - Spider Lily	22.68	
32 93	13 00-0168	EA	1 Quart Hypericum perforatum - St. John's Wort	5.48	
32 93	13 00-0169	EA	1 Gallon Hypericum perforatum - St. John's Wort	13.15	
32 93	13 00-0170	EA	5 Gallon Hypericum perforatum - St. John's Wort	33.98	
32 93	13 00-0171	EA	24" To 30" High Viburnum awabuki - Sweet Viburnum	46.24	
32 93	13 00-0172	EA	1 Gallon Campsis radicans - Trumpet Creeper	20.09	
32 93	13 00-0173	EA	2 Gallon Campsis radicans - Trumpet Creeper	30.32	
32 93	13 00-0174	EA	5 Gallon Campsis radicans - Trumpet Creeper	73.07	
32 93	13 00-0175	EA	2-1/4" Pot Vinca major - Variegated Greater Periwinkle	1.83	
32 93	13 00-0176	EA	4" Pot Vinca major - Variegated Greater Periwinkle	5.48	
32 93	13 00-0177	EA	Bare Root Vinca major - Variegated Greater Periwinkle	1.83	
32 93	13 00-0178	EA	1 Quart Carex hachijoensis - Variegated Japanese Sedge	9.86	
32 93	13 00-0179	EA	1 Gallon Carex hachijoensis - Variegated Japanese Sedge	13.70	
32 93	13 00-0180	EA	2 Gallon Carex hachijoensis - Variegated Japanese Sedge	21.37	
32 93	13 00-0181	EA	1 Gallon Liriope muscari 'Variegata' - Variegated Lilyturf	14.98	
32 93	13 00-0182	EA	2 Quart Verbena peruviana "St. Paul" - St. Paul Verbena	6.94	
32 93	13 00-0183	EA	1 Gallon Verbena peruviana "St. Paul" - St. Paul Verbena	10.60	
32 93	13 00-0184	EA	48 Plant Flat Vinca minor - Lesser Periwinkle	65.12	
32 93	13 00-0185	EA	3" Pot Parthenocissus quinquefolia - Virginia Creeper	3.29	
32 93	13 00-0186	EA	1 Gallon Parthenocissus quinquefolia - Virginia Creeper	17.17	
32 93	13 00-0187	EA	1 Gallon Jasminum polyanthum - Winter Jasmine	13.15	
32 93	13 00-0188	EA	2 Gallon Jasminum polyanthum - Winter Jasmine	26.30	
32 93	13 00-0189	EA	5 Gallon Jasminum polyanthum - Winter Jasmine	45.67	
32 93	13 00-0190	EA	1 Gallon Cistaceae - Wrinkleleaf Rock Rose	10.60	
32 93	13 00-0191	EA	5 Gallon Cistaceae - Wrinkleleaf Rock Rose	36.17	
32 93	13 00-0192	EA	Flat Hedera canariensis - Algerian Ivy	17.30	
32 93	13 00-0193	EA	2-1/2" Pot Hedera canariensis - Algerian Ivy	4.57	
32 93	13 00-0194	EA	Flat Gazania 'Copper King'	14.18	
32 93	13 00-0195	EA	1 Gallon Gazania 'Copper King'	4.84	
32 93	13 00-0196	EA	Flat Myoporum parvifolium - Myoporum	17.30	
32 93	13 00-0197	EA	1 Gallon Myoporum parvifolium - Myoporum	4.84	
32 93	13 00-0198	EA	5 Gallon Myoporum parvifolium - Myoporum	13.84	
32 93	13 00-0199	EA	1 Gallon Lantana montevidensis - Purple Lantana	4.84	
32 93	13 00-0200	EA	5 Gallon Lantana montevidensis - Purple Lantana	13.84	
32 93	13 00-0201	EA	Flat Carpobrotus - Ice Plant	13.15	
32 93	13 00-0202	EA	1 Gallon Carpobrotus - Ice Plant	5.53	

32 93 23 Plants and Bulbs (32 93)

Note: Materials only. See CSI section 32 93 83 00-0057 for installation and planting of bulbs and annuals.

32 93 23 00-0001 Perennials (32 93 23)

32 93	23 00-0002	EA	2 Quart Assorted Daylilies	10.59	
32 93	23 00-0003	EA	1 Gallon Assorted Daylilies	14.98	
32 93	23 00-0004	EA	2 Gallon Assorted Daylilies	24.84	
32 93	23 00-0005	EA	1 Quart Azure Penstemon	5.48	
32 93	23 00-0006	EA	1 Gallon Azure Penstemon	13.70	
32 93	23 00-0007	EA	1 Quart Balloon Flower	5.48	
32 93	23 00-0008	EA	1 Gallon Balloon Flower	13.70	
32 93	23 00-0009	EA	1 Quart Black-eyed Susan	5.48	
32 93	23 00-0010	EA	1 Gallon Black-eyed Susan	13.70	
32 93	23 00-0011	EA	2 Gallon Black-eyed Susan	17.72	
32 93	23 00-0012	EA	1 Quart Blackberry Lily	5.48	
32 93	23 00-0013	EA	1 Gallon Blackberry Lily	13.70	
32 93	23 00-0014	EA	1 Quart Blank Flower	5.48	
32 93	23 00-0015	EA	1 Gallon Blank Flower	12.60	
32 93	23 00-0016	EA	2 Gallon Blank Flower	17.72	
32 93	23 00-0017	EA	1 Quart Blazing Star, Gayfeather	5.48	
32 93	23 00-0018	EA	1 Gallon Blazing Star, Gayfeather	13.70	
32 93	23 00-0019	EA	1 Quart Bloodred Geranium	9.32	
32 93	23 00-0020	EA	1 Gallon Bloodred Geranium	15.71	
32 93	23 00-0021	EA	1 Quart Blue Plumbago	5.48	
32 93	23 00-0022	EA	1 Gallon Blue Plumbago	13.70	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 23 00-0023	EA	1 Quart Blue Star	9.86	
32 93 23 00-0024	EA	1 Gallon Blue Star	15.71	
32 93 23 00-0025	EA	1 Quart Cardinal Flower	5.48	
32 93 23 00-0026	EA	1 Gallon Cardinal Flower	13.70	
32 93 23 00-0027	EA	4" Pot Columbine	3.29	
32 93 23 00-0028	EA	1 Quart Columbine	5.48	
32 93 23 00-0029	EA	1 Gallon Columbine	13.70	
32 93 23 00-0030	EA	1 Quart Common Globeflower	5.48	
32 93 23 00-0031	EA	1 Gallon Common Globeflower	13.70	
32 93 23 00-0032	EA	1 Quart Cottage Pink, Scotch Pink	5.48	
32 93 23 00-0033	EA	1 Quart Cottage Pink, Scotch Pink	13.70	
32 93 23 00-0034	EA	1 Gallon Astilbe 'Deutschland'	19.73	
32 93 23 00-0035	EA	1 Quart Diploid	6.94	
32 93 23 00-0036	EA	1 Gallon Diploid	15.71	
32 93 23 00-0037	EA	3 Gallon Diploid	27.04	
32 93 23 00-0038	EA	4" Pot Dune Sunflower	7.82	
32 93 23 00-0039	EA	1 Quart Evans Begonia	9.86	
32 93 23 00-0040	EA	1 Gallon Evans Begonia	17.72	
32 93 23 00-0041	EA	1 Quart False Dragonhead	5.48	
32 93 23 00-0042	EA	1 Gallon False Dragonhead	13.70	
32 93 23 00-0043	EA	1 Quart False Spirea	5.48	
32 93 23 00-0044	EA	1 Gallon False Spirea	17.72	
32 93 23 00-0045	EA	3 Gallon False Spirea	24.48	
32 93 23 00-0046	EA	2 Quart False Sunflower	8.77	
32 93 23 00-0047	EA	1 Gallon False Sunflower	13.70	
32 93 23 00-0048	EA	2 Gallon False Sunflower	17.72	
32 93 23 00-0049	EA	1 Gallon Foxglove	12.60	
32 93 23 00-0050	EA	2 Gallon Foxglove	17.72	
32 93 23 00-0051	EA	3 Gallon Foxglove	25.57	
32 93 23 00-0052	EA	1 Gallon Francee Hostas	22.19	
32 93 23 00-0053	EA	1 Quart Garden Phlox	5.48	
32 93 23 00-0054	EA	1 Gallon Garden Phlox	13.70	
32 93 23 00-0055	EA	2 Quart Golden Groundsel	11.69	
32 93 23 00-0056	EA	2 Gallon Golden Groundsel	23.57	
32 93 23 00-0057	EA	1 Quart Golden Star	5.48	
32 93 23 00-0058	EA	1 Gallon Golden Star	13.70	
32 93 23 00-0059	EA	1 Quart Goldenrod	5.48	
32 93 23 00-0060	EA	1 Gallon Goldenrod	13.70	
32 93 23 00-0061	EA	1 Gallon Happy Returns Daylillies	25.51	
32 93 23 00-0062	EA	4" Pot Hardy Aster, Michaelmas Daisy	3.29	
32 93 23 00-0063	EA	1 Quart Hardy Aster, Michaelmas Daisy	5.48	
32 93 23 00-0064	EA	1 Gallon Hardy Aster, Michaelmas Daisy	13.70	
32 93 23 00-0065	EA	1 Quart Hardy Chrysanthemum	4.75	
32 93 23 00-0066	EA	6" To 8" Pot Hardy Chrysanthemum	7.86	
32 93 23 00-0067	EA	1 Gallon Hardy Chrysanthemum	12.60	
32 93 23 00-0068	EA	1 Gallon Herbaceous Peony	19.55	
32 93 23 00-0069	EA	2 Gallon Herbaceous Peony	31.24	
32 93 23 00-0070	EA	3 Gallon Herbaceous Peony	41.10	
32 93 23 00-0071	EA	4" Pot Japanese Anemone	3.29	
32 93 23 00-0072	EA	1 Quart Japanese Anemone	9.86	
32 93 23 00-0073	EA	2 Gallon Japanese Anemone	17.72	
32 93 23 00-0074	EA	2" Pot Japanese Spurge	1.95	
32 93 23 00-0075	EA	6" Pot Japanese Spurge	2.92	
32 93 23 00-0076	EA	1 Gallon Japanese Spurge	12.59	
32 93 23 00-0077	EA	1 Quart Oriental Poppy	7.86	
32 93 23 00-0078	EA	1 Gallon Oriental Poppy	15.71	
32 93 23 00-0079	EA	48 Plant Flat Pachysandra terminalis	65.12	
32 93 23 00-0080	EA	1 Gallon Pacific Coast Iris	10.78	
32 93 23 00-0081	EA	3 Gallon Pacific Coast Iris	20.46	
32 93 23 00-0082	EA	1 Gallon Palace Purple Coral Bells	20.74	
32 93 23 00-0083	EA	4" Pot Perennial Salvia	3.29	
32 93 23 00-0084	EA	1 Quart Perennial Salvia	5.48	
32 93 23 00-0085	EA	1 Gallon Perennial Salvia	13.70	
32 93 23 00-0086	EA	1 Quart Pincushion Flower	5.48	
32 93 23 00-0087	EA	1 Gallon Pincushion Flower	13.70	
32 93 23 00-0088	EA	2 Quart Plantain Lily	10.59	
32 93 23 00-0089	EA	1 Gallon Plantain Lily	14.98	
32 93 23 00-0090	EA	2 Gallon Plantain Lily	24.84	
32 93 23 00-0091	EA	3 Gallon Plantain Lily	46.95	
32 93 23 00-0092	EA	2 Quart Purple Coneflower	9.86	
32 93 23 00-0093	EA	1 Gallon Purple Coneflower	13.70	
32 93 23 00-0094	EA	2 Gallon Purple Coneflower	17.72	
32 93 23 00-0095	EA	1 Quart Purple Loosestrife	5.48	
32 93 23 00-0096	EA	1 Gallon Purple Loosestrife	13.70	
32 93 23 00-0097	EA	1 Quart Rose Mallow	10.78	
32 93 23 00-0098	EA	2 Gallon Rose Mallow	19.55	
32 93 23 00-0099	EA	3 Gallon Rose Mallow	33.43	
32 93 23 00-0100	EA	1 Gallon Autumn Joy Sedum	20.89	
32 93 23 00-0101	EA	1 Quart Siberian Iris	9.32	
32 93 23 00-0102	EA	2 Gallon Siberian Iris	17.72	
32 93 23 00-0103	EA	3 Gallon Siberian Iris	24.48	



		Exterior Improvements	32
		Planting	32 90
		Plants	32 93

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 93 23 00-0104	EA	1	Quart Speedwell	5.48	
32 93 23 00-0105	EA	1	Gallon Speedwell	13.70	
32 93 23 00-0106	EA	1	Quart Tetraploid	13.70	
32 93 23 00-0107	EA	1	Gallon Tetraploid	25.57	
32 93 23 00-0108	EA	3	Gallon Tetraploid	34.89	
32 93 23 00-0109	EA	1	Quart Threadleaf Coreopsis	5.48	
32 93 23 00-0110	EA	1	Gallon Threadleaf Coreopsis	13.70	
32 93 23 00-0111	EA	1	Quart Torch Lily	5.48	
32 93 23 00-0112	EA	1	Quart Bluebeard	9.86	
32 93 23 00-0113	EA	1	Gallon Bluebeard	14.62	
32 93 23 00-0114	EA	2	Gallon Bluebeard	21.37	

32 93 23 00-0115 **Annuals** (32 93 23)

32 93 23 00-0116	EA	2-1/2"	Pot Annual Flowers	2.54	
32 93 23 00-0117	EA	3"	Pot Annual Flowers	3.44	
32 93 23 00-0118	EA	4"	Pot Annual Flowers	7.35	
32 93 23 00-0119	EA	5-1/2"	Pot Annual Flowers	9.78	
32 93 23 00-0120	EA	6"	Pot Annual Flowers	19.36	
32 93 23 00-0121	EA	8"	Pot Annual Flowers	32.26	
32 93 23 00-0122	EA	36	Plant Flat Annual Flowers	42.24	
32 93 23 00-0123	EA	48	Plant Flat Annual Flowers	47.91	

32 93 23 00-0124 **Bulbs** (32 93 23)

32 93 23 00-0125	EA	Top Size	Allium giganteum - Giant Ornamental Onion	8.84	
32 93 23 00-0126	EA	Top Size	Allium sphaerocephalum - Drumstick Ornamental Onion	0.51	
32 93 23 00-0127	EA	Top Size	Crocus Hybrid	0.58	
32 93 23 00-0128	EA	Top Size	Eranthis hyemalis - Winter Aconite	0.75	
32 93 23 00-0129	EA	Top Size	Galanthus nivalis - Snowdrops	0.95	
32 93 23 00-0130	EA	Top Size	Iris reticulata cvs - Dutch Iris	0.37	
32 93 23 00-0131	EA	Top Size	Muscari armeniacum - Grape Hyacinth	0.44	
32 93 23 00-0132	EA	Top Size	Muscari latifolium - Grape Hyacinth	0.51	
32 93 23 00-0133	EA	Narcissus	'Carlton' - Carlton Daffodil DNI	3.06	
32 93 23 00-0134	EA	Narcissus	'Dutch Master' - Dutch Master Daffodil DNI	1.46	
32 93 23 00-0135	EA	Narcissus	'February Gold' - February Gold Daffodil DNI	1.53	
32 93 23 00-0136	EA	Narcissus	'Ice Follies' - Ice Follies Daffodil DNI	1.53	
32 93 23 00-0137	EA	Narcissus	'Mount Hood' - Mount Hood Daffodil DNI	1.60	
32 93 23 00-0138	EA	Narcissus	'Papillon Blanc' - Papillon Blanc Daffodil DNI	1.70	
32 93 23 00-0139	EA	Narcissus	'Pipit' - Pipit Daffodil DNI	1.60	
32 93 23 00-0140	EA	Narcissus	'Salome' - Salome Daffodil DNI	1.50	
32 93 23 00-0141	EA	Narcissus	'Tete A Tete' - Tete A Tete Daffodil DNI	1.60	
32 93 23 00-0142	EA	Narcissus	'Thalia' - Thalia Daffodil DNI	1.60	
32 93 23 00-0143	EA	Top Size	Scilla siberica - Siberian Squill	0.48	
32 93 23 00-0144	EA	Top Size	Tulip 'Angelique' - Angelique Tulip	1.36	
32 93 23 00-0145	EA	Top Size	Tulip 'Apeldoorn' - Apeldoorn Tulip	1.02	
32 93 23 00-0146	EA	Top Size	Tulip 'Apricot Beauty' - Apricot Beauty Tulip	1.36	
32 93 23 00-0147	EA	Top Size	Tulip 'Big Smile' - Big Smile Tulip	1.19	
32 93 23 00-0148	EA	Top Size	Tulip 'Black Parrot' - Black Parrot Tulip	1.70	
32 93 23 00-0149	EA	Top Size	Tulip 'Blue Heron' - Blue Heron Tulip	1.29	
32 93 23 00-0150	EA	Top Size	Tulip 'Cardinal' - Cardinal Tulip	1.12	
32 93 23 00-0151	EA	Top Size	Tulip 'Christmas Marvel' - Christmas Marvel Tulip	1.26	
32 93 23 00-0152	EA	Top Size	Tulip clusiana - Species Tulip	1.26	
32 93 23 00-0153	EA	Top Size	Tulip 'Elizabeth Arden' - Elizabeth Arden Tulip	1.26	
32 93 23 00-0154	EA	Top Size	Tulip 'Golden Apledoorn' - Golden Apledoorn Tulip	1.02	
32 93 23 00-0155	EA	Top Size	Tulip 'Golden Emperor' - Golden Emperor Tulip	0.99	
32 93 23 00-0156	EA	Top Size	Tulip 'Haicro' - Haicro Tulip	1.02	
32 93 23 00-0157	EA	Top Size	Tulip 'Ivory Floridale' - Ivory Floradale Tulip	1.70	
32 93 23 00-0158	EA	Top Size	Tulip 'Orange Emperor' - Orange Emperor Tulip	1.02	
32 93 23 00-0159	EA	Top Size	Tulip 'Passionale' - Passionale Tulip	1.36	
32 93 23 00-0160	EA	Top Size	Tulip 'Peach Blossom' - Peach Blossom Tulip	1.46	
32 93 23 00-0161	EA	Top Size	Tulip 'Peer Gynt' - Peer Gynt Tulip	1.53	
32 93 23 00-0162	EA	Top Size	Tulip 'Pink Diamond' - Pink Diamond Tulip	1.22	
32 93 23 00-0163	EA	Top Size	Tulip 'Pink Emperor' - Pink Emperor Tulip	1.16	
32 93 23 00-0164	EA	Top Size	Tulip praetens 'Fusilier' - Praetens Fusilier Tulip	1.26	
32 93 23 00-0165	EA	Top Size	Tulip 'Princes' - Princes Tulip	1.26	
32 93 23 00-0166	EA	Top Size	Tulip 'Red Riding Hood' - Red Riding Hood Tulip	0.99	
32 93 23 00-0167	EA	Top Size	Tulip saxatilis - Species Tulip	0.68	
32 93 23 00-0168	EA	Top Size	Tulip 'Shirley' - Shirley Tulip	1.02	
32 93 23 00-0169	EA	Top Size	Tulip 'Spring Green' - Spring Green Tulip	1.33	
32 93 23 00-0170	EA	Top Size	Tulip 'White Emperor' - White Emperor Tulip	1.02	

32 93 33 **Shrubs** (32 93)

Note: (cvs = cultivar) materials only. See CSI section 32 93 83 00-0033 for installation and planting of shrubs.

32 93 33 00-0001 **Shrubs** (32 93 33)

32 93 33 00-0002	EA	1	Gallon Abelia x grandiflora - Abelia	9.97	
32 93 33 00-0003	EA	3	Gallon Abelia x grandiflora - Abelia	20.31	
32 93 33 00-0004	EA	5	Gallon Abelia x grandiflora - Abelia	38.99	
32 93 33 00-0005	EA	1	Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia	6.43	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0006	EA	5 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia.....	15.91	
32 93 33 00-0007	EA	15 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia.....	63.17	
32 93 33 00-0008	EA	3 Gallon Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye.....	116.47	
32 93 33 00-0009	EA	18" B&B Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye.....	170.23	
32 93 33 00-0010	EA	24" B&B Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye.....	189.94	
32 93 33 00-0011	EA	30" B&B Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye.....	240.12	
32 93 33 00-0012	EA	36" B&B Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye.....	267.00	
32 93 33 00-0013	EA	18" B&B Aesculus parviflora - Bottlebrush Buckeye.....	53.76	
32 93 33 00-0014	EA	24" B&B Aesculus parviflora - Bottlebrush Buckeye.....	71.68	
32 93 33 00-0015	EA	30" B&B Aesculus parviflora - Bottlebrush Buckeye.....	89.60	
32 93 33 00-0016	EA	1 Gallon Agapanthus 'Peter Pan' - Lily of the Nile.....	6.43	
32 93 33 00-0017	EA	5 Gallon Agapanthus 'Peter Pan' - Lily of the Nile.....	15.91	
32 93 33 00-0018	EA	36" B&B Aronia arbutifolia & cvs - Red Chokeberry.....	54.40	
32 93 33 00-0019	EA	42" B&B Aronia arbutifolia & cvs - Red Chokeberry.....	64.00	
32 93 33 00-0020	EA	48" B&B Aronia arbutifolia & cvs - Red Chokeberry.....	76.80	
32 93 33 00-0021	EA	60" B&B Aronia arbutifolia & cvs - Red Chokeberry.....	89.60	
32 93 33 00-0022	EA	72" B&B Aronia arbutifolia & cvs - Red Chokeberry.....	108.80	
32 93 33 00-0023	EA	36" B&B Aronia melanocarpa & cvs - Black Chokeberry.....	52.80	
32 93 33 00-0024	EA	42" B&B Aronia melanocarpa & cvs - Black Chokeberry.....	56.00	
32 93 33 00-0025	EA	48" B&B Aronia melanocarpa & cvs - Black Chokeberry.....	59.20	
32 93 33 00-0026	EA	60" B&B Aronia melanocarpa & cvs - Black Chokeberry.....	67.20	
32 93 33 00-0027	EA	36" B&B Aronia prunifolia - Purple-Fruited Chokeberry.....	53.60	
32 93 33 00-0028	EA	42" B&B Aronia prunifolia - Purple-Fruited Chokeberry.....	56.80	
32 93 33 00-0029	EA	48" B&B Aronia prunifolia - Purple-Fruited Chokeberry.....	60.00	
32 93 33 00-0030	EA	60" B&B Aronia prunifolia - Purple-Fruited Chokeberry.....	63.20	
32 93 33 00-0031	EA	1 Gallon Aspidistra elatior - Cast Iron Plant.....	11.00	
32 93 33 00-0032	EA	2 Gallon Aspidistra elatior - Cast Iron Plant.....	25.44	
32 93 33 00-0033	EA	1 Gallon Aucuba japonica "Variegata" - Gold Dust Plant.....	12.89	
32 93 33 00-0034	EA	3 Gallon Aucuba japonica "Variegata" - Gold Dust Plant.....	28.36	
32 93 33 00-0035	EA	5 Gallon Aucuba japonica "Variegata" - Gold Dust Plant.....	38.33	
32 93 33 00-0036	EA	1 Gallon Baccharis pilularis 'Pigeon Point' - Dwarf Coyote Brush.....	6.43	
32 93 33 00-0037	EA	5 Gallon Baccharis pilularis 'Pigeon Point' - Dwarf Coyote Brush.....	15.91	
32 93 33 00-0038	EA	1 Gallon Baccharis pilularis 'Twin Peaks' - Dwarf Coyote Brush.....	6.43	
32 93 33 00-0039	EA	5 Gallon Baccharis pilularis 'Twin Peaks' - Dwarf Coyote Brush.....	15.91	
32 93 33 00-0040	EA	1 Gallon Bauhinia purpurea - Orange-eye Butterfly Bush.....	13.75	
32 93 33 00-0041	EA	2 Gallon Bauhinia purpurea - Orange-eye Butterfly Bush.....	20.11	
32 93 33 00-0042	EA	15" To 18" Berberis - Northern Bayberry.....	57.41	
32 93 33 00-0043	EA	2' To 2-1/2' Berberis - Northern Bayberry.....	72.88	
32 93 33 00-0044	EA	2-1/2' To 3' Berberis - Northern Bayberry.....	102.10	
32 93 33 00-0045	EA	1 Gallon Berberis Buxifolia 'Nana' - Barberrry.....	7.26	
32 93 33 00-0046	EA	5 Gallon Berberis Buxifolia 'Nana' - Barberrry.....	17.50	
32 93 33 00-0047	EA	18" To 24" Berberis julianae - Dwarf Wintergreen Barberrry.....	61.36	
32 93 33 00-0048	EA	2' To 2-1/2' Berberis julianae - Dwarf Wintergreen Barberrry.....	78.55	
32 93 33 00-0049	EA	2-1/2' To 3' Berberis julianae - Dwarf Wintergreen Barberrry.....	100.38	
32 93 33 00-0050	EA	1 Gallon Berberis thunbergii - Crimson Pygmy Barberrry.....	16.50	
32 93 33 00-0051	EA	2 Gallon Berberis thunbergii - Crimson Pygmy Barberrry.....	32.49	
32 93 33 00-0052	EA	3 Gallon Berberis thunbergii - Crimson Pygmy Barberrry.....	39.70	
32 93 33 00-0053	EA	1 Gallon Berberis x mentorensis - Mentor Barberrry.....	15.64	
32 93 33 00-0054	EA	5 Gallon Berberis x mentorensis - Mentor Barberrry.....	44.17	
32 93 33 00-0055	EA	2' To 3' Berberis x mentorensis - Mentor Barberrry.....	61.36	
32 93 33 00-0056	EA	3' To 4' Berberis x mentorensis - Mentor Barberrry.....	94.71	
32 93 33 00-0057	EA	1 Gallon Buxus microphylla japonica - Japanese Boxwood.....	17.88	
32 93 33 00-0058	EA	5 Gallon Buxus microphylla japonica - Japanese Boxwood.....	47.95	
32 93 33 00-0059	EA	12" To 15" Buxus microphylla japonica - Japanese Boxwood.....	51.05	
32 93 33 00-0060	EA	15" To 18" Buxus microphylla japonica - Japanese Boxwood.....	65.66	
32 93 33 00-0061	EA	18" To 24" Buxus microphylla japonica - Japanese Boxwood.....	87.49	
32 93 33 00-0062	EA	24" To 30" Buxus microphylla japonica - Japanese Boxwood.....	131.32	
32 93 33 00-0063	EA	30" To 36" Buxus microphylla japonica - Japanese Boxwood.....	182.36	
32 93 33 00-0064	EA	12" To 15" Buxus sempervirens - Common Boxwood.....	51.05	
32 93 33 00-0065	EA	15" To 18" Buxus sempervirens - Common Boxwood.....	65.66	
32 93 33 00-0066	EA	18" To 24" Buxus sempervirens - Common Boxwood.....	87.49	
32 93 33 00-0067	EA	24" To 30" Buxus sempervirens - Common Boxwood.....	131.32	
32 93 33 00-0068	EA	2 Gallon Buxus Hybrid - Boxwood Cultivars.....	33.60	
32 93 33 00-0069	EA	5 Gallon Buxus Hybrid - Boxwood Cultivars.....	56.00	
32 93 33 00-0070	EA	5 Gallon Buxus microphylla & cvs - Little leaf Boxwood.....	147.20	
32 93 33 00-0071	EA	18" B&B Buxus microphylla & cvs - Little leaf Boxwood.....	80.00	
32 93 33 00-0072	EA	24" B&B Buxus microphylla & cvs - Little leaf Boxwood.....	108.80	
32 93 33 00-0073	EA	30" B&B Buxus microphylla & cvs - Little leaf Boxwood.....	147.20	
32 93 33 00-0074	EA	1 Gallon Callistemon citrinus 'Little John' - Dwarf Bottle Bush.....	5.78	
32 93 33 00-0075	EA	5 Gallon Callistemon citrinus 'Little John' - Dwarf Bottle Bush.....	17.77	
32 93 33 00-0076	EA	15 Gallon Callistemon citrinus 'Little John' - Dwarf Bottle Bush.....	57.76	
32 93 33 00-0077	EA	5 Gallon Calycanthus floridus - Common Sweetshrub.....	52.80	
32 93 33 00-0078	EA	30" B&B Calycanthus floridus - Common Sweetshrub.....	48.00	
32 93 33 00-0079	EA	36" B&B Calycanthus floridus - Common Sweetshrub.....	64.00	
32 93 33 00-0080	EA	1 Gallon Camellia "Sasanqua" - Camellia.....	12.89	
32 93 33 00-0081	EA	3 Gallon Camellia "Sasanqua" - Camellia.....	27.50	
32 93 33 00-0082	EA	5 Gallon Camellia "Sasanqua" - Camellia.....	45.72	
32 93 33 00-0083	EA	7 Gallon Camellia "Sasanqua" - Camellia.....	68.08	
32 93 33 00-0084	EA	15 Gallon Camellia "Sasanqua" - Camellia.....	176.64	
32 93 33 00-0085	EA	1 Gallon Camellia japonica - Camellia.....	12.89	
32 93 33 00-0086	EA	3 Gallon Camellia japonica - Camellia.....	27.50	



Exterior Improvements		32
Planting		32 90
Plants		32 93

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0087 EA 5 Gallon Camellia japonica - Camellia	45.72	
32 93 33 00-0088 EA 5 Gallon Ceanothus americanus - New Jersey Tea	52.80	
32 93 33 00-0089 EA 1 Gallon Ceanothus Griseus Horizontalis 'Yankee Point' - Yankee Point Ceanothus	7.26	
32 93 33 00-0090 EA 5 Gallon Ceanothus Griseus Horizontalis 'Yankee Point' - Yankee Point Ceanothus	18.89	
32 93 33 00-0091 EA 5 Gallon Celastrus scandens - Bittersweet	52.80	
32 93 33 00-0092 EA 36" B&B Celastrus scandens - Bittersweet	44.80	
32 93 33 00-0093 EA 5 Gallon Cephalanthus occidentalis - Buttonbush	52.80	
32 93 33 00-0094 EA 24" B&B Cephalanthus occidentalis - Buttonbush	40.00	
32 93 33 00-0095 EA 30" B&B Cephalanthus occidentalis - Buttonbush	44.80	
32 93 33 00-0096 EA 36" B&B Cephalanthus occidentalis - Buttonbush	48.00	
32 93 33 00-0097 EA 18" To 24" Chaenomeles speciosa - Flowering Quince	46.06	
32 93 33 00-0098 EA 2' To 3' Chaenomeles speciosa - Flowering Quince	61.36	
32 93 33 00-0099 EA 3' To 4' Chaenomeles speciosa - Flowering Quince	94.71	
32 93 33 00-0100 EA 1 Gallon Cistus Hybridus - White Rockrose	6.43	
32 93 33 00-0101 EA 5 Gallon Cistus Hybridus - White Rockrose	15.91	
32 93 33 00-0102 EA 3 Gallon Clethra alnifolia & cvs - Summersweet Clethra	51.20	
32 93 33 00-0103 EA 18" B&B Clethra alnifolia & cvs - Summersweet Clethra	55.20	
32 93 33 00-0104 EA 24" B&B Clethra alnifolia & cvs - Summersweet Clethra	61.60	
32 93 33 00-0105 EA 30" B&B Clethra alnifolia & cvs - Summersweet Clethra	64.80	
32 93 33 00-0106 EA 36" B&B Clethra alnifolia & cvs - Summersweet Clethra	76.00	
32 93 33 00-0107 EA 1 Gallon Coleonema Pulchellum - Confetti Bush	6.43	
32 93 33 00-0108 EA 5 Gallon Coleonema Pulchellum - Confetti Bush	15.91	
32 93 33 00-0109 EA 15 Gallon Coleonema Pulchellum - Confetti Bush	74.51	
32 93 33 00-0110 EA 2' To 3' Cornus mas - Cornelian Cherry	72.88	
32 93 33 00-0111 EA 3' To 4' Cornus mas - Cornelian Cherry	91.10	
32 93 33 00-0112 EA 4' To 5' Cornus mas - Cornelian Cherry	116.71	
32 93 33 00-0113 EA 5' To 6' Cornus mas - Cornelian Cherry	160.36	
32 93 33 00-0114 EA 5 Gallon Cornus alba & cvs - Tartarian Dogwood	48.00	
32 93 33 00-0115 EA 36" B&B Cornus alba & cvs - Tartarian Dogwood	33.60	
32 93 33 00-0116 EA 48" B&B Cornus alba & cvs - Tartarian Dogwood	38.40	
32 93 33 00-0117 EA 60" B&B Cornus alba & cvs - Tartarian Dogwood	48.00	
32 93 33 00-0118 EA 72" B&B Cornus alba & cvs - Tartarian Dogwood	57.60	
32 93 33 00-0119 EA 36" B&B Cornus amomum - Silky Dogwood	48.00	
32 93 33 00-0120 EA 5 Gallon Cornus obliqua - Blue Fruited Dogwood	52.80	
32 93 33 00-0121 EA 5 Gallon Cornus racemosa - Gray Dogwood	52.80	
32 93 33 00-0122 EA 36" B&B Cornus racemosa - Gray Dogwood	48.00	
32 93 33 00-0123 EA 48" B&B Cornus racemosa - Gray Dogwood	56.00	
32 93 33 00-0124 EA 60" B&B Cornus racemosa - Gray Dogwood	60.80	
32 93 33 00-0125 EA 72" B&B Cornus racemosa - Gray Dogwood	73.60	
32 93 33 00-0126 EA 36" B&B Cornus sanguinea & cvs - Bloodtwig Dogwood	52.00	
32 93 33 00-0127 EA 48" B&B Cornus sanguinea & cvs - Bloodtwig Dogwood	58.40	
32 93 33 00-0128 EA 60" B&B Cornus sanguinea & cvs - Bloodtwig Dogwood	66.40	
32 93 33 00-0129 EA 24" B&B Cornus sericea & cvs - Redosier Dogwood	41.60	
32 93 33 00-0130 EA 30" B&B Cornus sericea & cvs - Redosier Dogwood	48.00	
32 93 33 00-0131 EA 36" B&B Cornus sericea & cvs - Redosier Dogwood	51.20	
32 93 33 00-0132 EA 48" B&B Cornus sericea & cvs - Redosier Dogwood	56.00	
32 93 33 00-0133 EA 60" B&B Cornus sericea & cvs - Redosier Dogwood	62.40	
32 93 33 00-0134 EA 5 Gallon Corylus americana - American Filbert	49.60	
32 93 33 00-0135 EA 30" B&B Corylus americana - American Filbert	56.00	
32 93 33 00-0136 EA 36" B&B Corylus americana - American Filbert	60.00	
32 93 33 00-0137 EA 48" B&B Corylus americana - American Filbert	64.80	
32 93 33 00-0138 EA 24" B&B Corylus avellana - Contorted Hazelnut	160.00	
32 93 33 00-0139 EA 30" B&B Corylus avellana - Contorted Hazelnut	207.99	
32 93 33 00-0140 EA 36" B&B Corylus avellana - Contorted Hazelnut	223.99	
32 93 33 00-0141 EA 42" B&B Corylus avellana - Contorted Hazelnut	287.99	
32 93 33 00-0142 EA 48" B&B Corylus avellana - Contorted Hazelnut	351.99	
32 93 33 00-0143 EA 60" B&B Corylus avellana - Contorted Hazelnut	399.99	
32 93 33 00-0144 EA 5' To 6' Cotinus coggygria - Smoke Tree	153.14	
32 93 33 00-0145 EA 6' To 8' Cotinus coggygria - Smoke Tree	229.63	
32 93 33 00-0146 EA 8' To 10' Cotinus coggygria - Smoke Tree	346.34	
32 93 33 00-0147 EA 5 Gallon Cotoneaster acutifolia & cvs - Peking Cotoneaster	40.00	
32 93 33 00-0148 EA 18" B&B Cotoneaster acutifolia & cvs - Peking Cotoneaster	40.00	
32 93 33 00-0149 EA 24" B&B Cotoneaster acutifolia & cvs - Peking Cotoneaster	41.60	
32 93 33 00-0150 EA 12" To 15" Spread Cotoneaster adpressus - Creeping Cotoneaster	38.33	
32 93 33 00-0151 EA 3 Gallon Cotoneaster apiculata & cvs - Cranberry Cotoneaster	41.60	
32 93 33 00-0152 EA 18" B&B Cotoneaster apiculata & cvs - Cranberry Cotoneaster	40.00	
32 93 33 00-0153 EA 24" B&B Cotoneaster apiculata & cvs - Cranberry Cotoneaster	41.60	
32 93 33 00-0154 EA 1 Gallon Cotoneaster divaricatus - Spreading Cotoneaster	16.50	
32 93 33 00-0155 EA 2' To 3' Cotoneaster divaricatus - Spreading Cotoneaster	51.05	
32 93 33 00-0156 EA 3' To 4' Cotoneaster divaricatus - Spreading Cotoneaster	68.92	
32 93 33 00-0157 EA 4' To 5' Cotoneaster divaricatus - Spreading Cotoneaster	116.71	
32 93 33 00-0158 EA 1 Gallon Cotoneaster glaucophyllus - Gray Leaf Cotoneaster	6.43	
32 93 33 00-0159 EA 5 Gallon Cotoneaster glaucophyllus - Gray Leaf Cotoneaster	15.91	
32 93 33 00-0160 EA 1 Gallon Cotoneaster horizontalis - Rockspray Cotoneaster	16.50	
32 93 33 00-0161 EA 2 Gallon Cotoneaster horizontalis - Rockspray Cotoneaster	32.49	
32 93 33 00-0162 EA 1 Gallon Cotoneaster lacteus - Red Clusterberry	6.43	
32 93 33 00-0163 EA 5 Gallon Cotoneaster lacteus - Red Clusterberry	15.91	
32 93 33 00-0164 EA 15 Gallon Cotoneaster lacteus - Red Clusterberry	63.17	
32 93 33 00-0165 EA 1 Gallon Dendromecon harfordii - Island Bush Poppy	14.81	
32 93 33 00-0166 EA 5 Gallon Dendromecon harfordii - Island Bush Poppy	37.03	
32 93 33 00-0167 EA 18" B&B Deutzia gracilis - Slender Deutzia	40.80	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0168	EA	24" B&B Deutzia gracilis - Slender Deutzia.....	44.80	
32 93 33 00-0169	EA	30" B&B Deutzia gracilis - Slender Deutzia.....	57.60	
32 93 33 00-0170	EA	36" B&B Deutzia gracilis - Slender Deutzia.....	67.20	
32 93 33 00-0171	EA	42" B&B Deutzia gracilis - Slender Deutzia.....	76.80	
32 93 33 00-0172	EA	24" B&B Diervilla sessilifolia - Southern Bush Honeysuckle.....	64.00	
32 93 33 00-0173	EA	30" B&B Diervilla sessilifolia - Southern Bush Honeysuckle.....	76.80	
32 93 33 00-0174	EA	36" B&B Diervilla sessilifolia - Southern Bush Honeysuckle.....	89.60	
32 93 33 00-0175	EA	2 Gallon Diervilla splendens - Splendens Bush Honeysuckle.....	24.00	
32 93 33 00-0176	EA	36" B&B Diervilla splendens - Splendens Bush Honeysuckle.....	57.60	
32 93 33 00-0177	EA	48" B&B Diervilla splendens - Splendens Bush Honeysuckle.....	76.80	
32 93 33 00-0178	EA	5 Gallon Elaeagnus angustifolia - Russian Olive.....	15.91	
32 93 33 00-0179	EA	1 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry.....	6.43	
32 93 33 00-0180	EA	5 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry.....	15.91	
32 93 33 00-0181	EA	15 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry.....	63.17	
32 93 33 00-0182	EA	1 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry.....	6.43	
32 93 33 00-0183	EA	5 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry.....	15.91	
32 93 33 00-0184	EA	15 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry.....	63.17	
32 93 33 00-0185	EA	3' To 4' Elaeagnus umbellata - Autumn Olive.....	47.78	
32 93 33 00-0186	EA	4' To 5' Elaeagnus umbellata - Autumn Olive.....	65.66	
32 93 33 00-0187	EA	5' To 6' Elaeagnus umbellata - Autumn Olive.....	78.55	
32 93 33 00-0188	EA	3' To 4' Elaeagnus angustifolia - Russian Olive.....	76.49	
32 93 33 00-0189	EA	1 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia.....	6.43	
32 93 33 00-0190	EA	5 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia.....	15.91	
32 93 33 00-0191	EA	15 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia.....	63.17	
32 93 33 00-0192	EA	1 Gallon Euonymus - Gold Spot.....	13.75	
32 93 33 00-0193	EA	2 Gallon Euonymus - Gold Spot.....	28.88	
32 93 33 00-0194	EA	5 Gallon Euonymus - Gold Spot.....	39.71	
32 93 33 00-0195	EA	1 Gallon Euonymus alatus - Winged Euonymus.....	11.74	
32 93 33 00-0196	EA	3 Gallon Euonymus alatus - Winged Euonymus.....	33.86	
32 93 33 00-0197	EA	24" B&B Euonymus alatus - Winged Euonymus.....	45.63	
32 93 33 00-0198	EA	30" B&B Euonymus alatus - Winged Euonymus.....	57.04	
32 93 33 00-0199	EA	36" B&B Euonymus alatus - Winged Euonymus.....	78.38	
32 93 33 00-0200	EA	42" B&B Euonymus alatus - Winged Euonymus.....	96.78	
32 93 33 00-0201	EA	48" B&B Euonymus alatus - Winged Euonymus.....	114.08	
32 93 33 00-0202	EA	54" B&B Euonymus alatus - Winged Euonymus.....	147.20	
32 93 33 00-0203	EA	5 Gallon Euonymus alatus - Winged Euonymus.....	42.32	
32 93 33 00-0204	EA	60" B&B Euonymus alatus - Winged Euonymus.....	184.00	
32 93 33 00-0205	EA	30" B&B Euonymus alatus compactus - Compact Winged Euonymus.....	72.00	
32 93 33 00-0206	EA	36" B&B Euonymus alatus compactus - Compact Winged Euonymus.....	85.60	
32 93 33 00-0207	EA	42" B&B Euonymus alatus compactus - Compact Winged Euonymus.....	112.00	
32 93 33 00-0208	EA	48" B&B Euonymus alatus compactus - Compact Winged Euonymus.....	134.40	
32 93 33 00-0209	EA	60" B&B Euonymus alatus compactus - Compact Winged Euonymus.....	166.40	
32 93 33 00-0210	EA	18" To 24" Euonymus alatus - Winged Burning Bush.....	51.05	
32 93 33 00-0211	EA	2' To 2-1/2' Euonymus alatus - Winged Burning Bush.....	60.16	
32 93 33 00-0212	EA	2-1/2' To 3' Euonymus alatus - Winged Burning Bush.....	82.16	
32 93 33 00-0213	EA	3' To 3-1/2' Euonymus alatus - Winged Burning Bush.....	98.49	
32 93 33 00-0214	EA	3-1/2' To 4' Euonymus alatus - Winged Burning Bush.....	123.92	
32 93 33 00-0215	EA	4' To 5' Euonymus alatus - Winged Burning Bush.....	174.97	
32 93 33 00-0216	EA	5' To 6' Euonymus alatus - Winged Burning Bush.....	218.80	
32 93 33 00-0217	EA	6' To 8' Euonymus alatus - Winged Burning Bush.....	255.24	
32 93 33 00-0218	EA	15" To 18" Euonymus alatus - Dwarf Winged Burning Bush.....	51.05	
32 93 33 00-0219	EA	18" To 24" Euonymus alatus - Dwarf Winged Burning Bush.....	58.27	
32 93 33 00-0220	EA	2' To 2-1/2' Euonymus alatus - Dwarf Winged Burning Bush.....	71.16	
32 93 33 00-0221	EA	2-1/2' To 3' Euonymus alatus - Dwarf Winged Burning Bush.....	100.38	
32 93 33 00-0222	EA	3' To 3-1/2' Euonymus alatus - Dwarf Winged Burning Bush.....	118.60	
32 93 33 00-0223	EA	3-1/2' To 4' Euonymus alatus - Dwarf Winged Burning Bush.....	142.14	
32 93 33 00-0224	EA	4' To 5' Euonymus alatus - Dwarf Winged Burning Bush.....	200.58	
32 93 33 00-0225	EA	5' To 6' Euonymus alatus - Dwarf Winged Burning Bush.....	237.02	
32 93 33 00-0226	EA	36" B&B Euonymus atropurpurea - Eastern Wahoo.....	43.20	
32 93 33 00-0227	EA	1 Gallon Euonymus fortunei - Wintercreeper.....	16.50	
32 93 33 00-0228	EA	2 Gallon Euonymus fortunei - Wintercreeper.....	32.49	
32 93 33 00-0229	EA	3 Gallon Euonymus fortunei - Wintercreeper.....	39.71	
32 93 33 00-0230	EA	5 Gallon Euonymus fortunei - Wintercreeper.....	47.10	
32 93 33 00-0231	EA	1 Gallon Euonymus japonicus - Evergreen Spindle.....	6.43	
32 93 33 00-0232	EA	5 Gallon Euonymus japonicus - Evergreen Spindle.....	15.91	
32 93 33 00-0233	EA	15 Gallon Euonymus japonicus - Evergreen Spindle.....	63.17	
32 93 33 00-0234	EA	2' To 3' Forsythia - Korean Forsythia.....	36.44	
32 93 33 00-0235	EA	3' To 4' Forsythia - Korean Forsythia.....	46.06	
32 93 33 00-0236	EA	4' To 5' Forsythia - Korean Forsythia.....	57.41	
32 93 33 00-0237	EA	30" B&B Forsythia cvs - Forsythia cultivars.....	36.80	
32 93 33 00-0238	EA	36" B&B Forsythia cvs - Forsythia cultivars.....	40.80	
32 93 33 00-0239	EA	48" B&B Forsythia cvs - Forsythia cultivars.....	44.00	
32 93 33 00-0240	EA	18" B&B Forsythia viridissima & cvs - Green Forsythia.....	38.40	
32 93 33 00-0241	EA	24" B&B Forsythia viridissima & cvs - Green Forsythia.....	51.20	
32 93 33 00-0242	EA	24" B&B Forsythia x intermedia & cvs - Border Forsythia.....	38.40	
32 93 33 00-0243	EA	30" B&B Forsythia x intermedia & cvs - Border Forsythia.....	44.80	
32 93 33 00-0244	EA	36" B&B Forsythia x intermedia & cvs - Border Forsythia.....	52.80	
32 93 33 00-0245	EA	42" B&B Forsythia x intermedia & cvs - Border Forsythia.....	60.80	
32 93 33 00-0246	EA	48" B&B Forsythia x intermedia & cvs - Border Forsythia.....	70.40	
32 93 33 00-0247	EA	2 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla.....	54.40	
32 93 33 00-0248	EA	3 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla.....	76.00	



Exterior Improvements 32

Planting 32 90

Plants 32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0249	EA	5	Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla	80.00	
32 93 33 00-0250	EA	15"	B&B Fothergilla gardenii & cvs - Dwarf Fothergilla	83.20	
32 93 33 00-0251	EA	18"	B&B Fothergilla gardenii & cvs - Dwarf Fothergilla	89.60	
32 93 33 00-0252	EA	24"	B&B Fothergilla gardenii & cvs - Dwarf Fothergilla	108.80	
32 93 33 00-0253	EA	24"	B&B Fothergilla major - Large Fothergilla	140.80	
32 93 33 00-0254	EA	30"	B&B Fothergilla major - Large Fothergilla	160.00	
32 93 33 00-0255	EA	1	Gallon Gardenia jasminoides - Cape Jasmine	11.86	
32 93 33 00-0256	EA	3	Gallon Gardenia jasminoides - Cape Jasmine	31.11	
32 93 33 00-0257	EA	5	Gallon Gardenia jasminoides - Cape Jasmine	39.71	
32 93 33 00-0258	EA	1	Gallon Grevillea 'Noellii' - Noel's Grevillea	6.43	
32 93 33 00-0259	EA	5	Gallon Grevillea 'Noellii' - Noel's Grevillea	15.91	
32 93 33 00-0260	EA	15	Gallon Grevillea 'Noellii' - Noel's Grevillea	63.17	
32 93 33 00-0261	EA	36"	B&B Hamamelis vernalis & cvs - Vernal Witchhazel	112.00	
32 93 33 00-0262	EA	48"	B&B Hamamelis vernalis & cvs - Vernal Witchhazel	182.40	
32 93 33 00-0263	EA	60"	B&B Hamamelis vernalis & cvs - Vernal Witchhazel	230.39	
32 93 33 00-0264	EA	72"	B&B Hamamelis vernalis & cvs - Vernal Witchhazel	351.99	
32 93 33 00-0265	EA	84"	B&B Hamamelis vernalis & cvs - Vernal Witchhazel	399.99	
32 93 33 00-0266	EA	1	Gallon Hedychium gartdnerum - Variegated Ginger	6.81	
32 93 33 00-0267	EA	3	Gallon Hedychium gartdnerum - Variegated Ginger	23.92	
32 93 33 00-0268	EA	5	Gallon Hedychium gartdnerum - Variegated Ginger	46.00	
32 93 33 00-0269	EA	1	Gallon Hibiscus rosa-sinensis - Hibiscus	17.44	
32 93 33 00-0270	EA	3	Gallon Hibiscus rosa-sinensis - Hibiscus	29.44	
32 93 33 00-0271	EA	5	Gallon Hibiscus rosa-sinensis - Hibiscus	44.53	
32 93 33 00-0272	EA	5	Gallon Hibiscus syriacus - Rose Of Sharon	46.06	
32 93 33 00-0273	EA	2'	To 3' Hibiscus syriacus - Rose Of Sharon	39.19	
32 93 33 00-0274	EA	3'	To 4' Hibiscus syriacus - Rose Of Sharon	52.94	
32 93 33 00-0275	EA	4'	To 5' Hibiscus syriacus - Rose Of Sharon	76.49	
32 93 33 00-0276	EA	5'	To 6' Hibiscus syriacus - Rose Of Sharon	105.71	
32 93 33 00-0277	EA	2	Gallon Hydrangea - Blue Hydrangea	32.49	
32 93 33 00-0278	EA	5	Gallon Hydrangea - Blue Hydrangea	45.72	
32 93 33 00-0279	EA	2'	To 3' Hydrangea paniculata "Grandiflora" - Peegee Hydrangea	51.05	
32 93 33 00-0280	EA	3'	To 4' Hydrangea paniculata "Grandiflora" - Peegee Hydrangea	58.27	
32 93 33 00-0281	EA	2	Gallon Hydrangea quercifolia - Oakleaf Hydrangea	32.49	
32 93 33 00-0282	EA	5	Gallon Hydrangea arborescens & cvs - Smooth Hydrangea	56.00	
32 93 33 00-0283	EA	30"	B&B Hydrangea arborescens & cvs - Smooth Hydrangea	60.80	
32 93 33 00-0284	EA	36"	B&B Hydrangea arborescens & cvs - Smooth Hydrangea	70.40	
32 93 33 00-0285	EA	4	Gallon Hydrangea macrophylla & cvs - Bigleaf Hydrangea	73.60	
32 93 33 00-0286	EA	18"	B&B Hydrangea macrophylla & cvs - Bigleaf Hydrangea	57.60	
32 93 33 00-0287	EA	24"	B&B Hydrangea macrophylla & cvs - Bigleaf Hydrangea	76.80	
32 93 33 00-0288	EA	3	Gallon Hydrangea paniculata & cvs - Panicle Hydrangea	33.60	
32 93 33 00-0289	EA	5	Gallon Hydrangea paniculata & cvs - Panicle Hydrangea	40.00	
32 93 33 00-0290	EA	18"	B&B Hydrangea paniculata & cvs - Panicle Hydrangea	34.40	
32 93 33 00-0291	EA	24"	B&B Hydrangea paniculata & cvs - Panicle Hydrangea	36.80	
32 93 33 00-0292	EA	30"	B&B Hydrangea paniculata & cvs - Panicle Hydrangea	41.60	
32 93 33 00-0293	EA	36"	B&B Hydrangea paniculata & cvs - Panicle Hydrangea	48.00	
32 93 33 00-0294	EA	48"	B&B Hydrangea paniculata & cvs - Panicle Hydrangea	64.00	
32 93 33 00-0295	EA	18"	B&B Hydrangea quercifolia & cvs - Oakleaf Hydrangea	46.40	
32 93 33 00-0296	EA	24"	B&B Hydrangea quercifolia & cvs - Oakleaf Hydrangea	52.80	
32 93 33 00-0297	EA	30"	B&B Hydrangea quercifolia & cvs - Oakleaf Hydrangea	62.40	
32 93 33 00-0298	EA	2	Gallon Hypericum kalmianum - St. John's Wort	32.49	
32 93 33 00-0299	EA	3	Gallon Hypericum kalmianum - Kalm St. John's Wort	38.40	
32 93 33 00-0300	EA	24"	B&B Hypericum kalmianum - Kalm St. John's Wort	41.60	
32 93 33 00-0301	EA	1	Gallon Ilex "Carissa" - Holly	16.50	
32 93 33 00-0302	EA	2	Gallon Ilex "Carissa" - Holly	32.49	
32 93 33 00-0303	EA	5	Gallon Ilex "Carissa" - Holly	45.72	
32 93 33 00-0304	EA	18"	To 24" Ilex - Gulf tide Sweet Holly	43.83	
32 93 33 00-0305	EA	2'	To 2-1/2' Ilex - Gulf tide Sweet Holly	55.52	
32 93 33 00-0306	EA	2-1/2'	To 3' Ilex - Gulf tide Sweet Holly	72.02	
32 93 33 00-0307	EA	3'	To 3-1/2' Ilex - Gulf tide Sweet Holly	87.49	
32 93 33 00-0308	EA	3	Gallon Ilex cornuta - Dwarf Horned Holly	32.74	
32 93 33 00-0309	EA	1	Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	16.50	
32 93 33 00-0310	EA	2	Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	32.49	
32 93 33 00-0311	EA	5	Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	47.10	
32 93 33 00-0312	EA	1	Gallon Ilex crenata - Hellers Japanese Holly	16.50	
32 93 33 00-0313	EA	2	Gallon Ilex crenata - Hellers Japanese Holly	36.10	
32 93 33 00-0314	EA	3	Gallon Ilex crenata - Hellers Japanese Holly	47.10	
32 93 33 00-0315	EA	2	Gallon Ilex crenata - Hetzi Japanese Holly	36.09	
32 93 33 00-0316	EA	3	Gallon Ilex crenata - Hetzi Japanese Holly	43.49	
32 93 33 00-0317	EA	2'	To 3' Ilex crenata - Hetzi Japanese Holly	87.49	
32 93 33 00-0318	EA	3'	To 4' Ilex crenata - Hetzi Japanese Holly	116.71	
32 93 33 00-0319	EA	2'	To 3' Ilex opaca - American Holly	116.71	
32 93 33 00-0320	EA	3'	To 4' Ilex opaca - American Holly	193.19	
32 93 33 00-0321	EA	4'	To 5' Ilex opaca - American Holly	247.85	
32 93 33 00-0322	EA	5'	To 6' Ilex opaca - American Holly	298.90	
32 93 33 00-0323	EA	6'	To 7' Ilex opaca - American Holly	419.21	
32 93 33 00-0324	EA	7'	To 8' Ilex opaca - American Holly	583.36	
32 93 33 00-0325	EA	8'	To 10' Ilex opaca - American Holly	838.43	
32 93 33 00-0326	EA	10'	To 12' Ilex opaca - American Holly	1,276.03	
32 93 33 00-0327	EA	12'	To 14' Ilex opaca - American Holly	1,549.32	
32 93 33 00-0328	EA	14'	To 16' Ilex opaca - American Holly	1,913.88	
32 93 33 00-0329	EA	2'	To 3' Ilex verticillata - Winterberry (Female)	116.71	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0330	EA	3' To 4' Ilex verticillata - Winterberry (Female)	153.14
32 93 33 00-0331	EA	2' To 3' Ilex verticillata - Winterberry (Male)	94.71
32 93 33 00-0332	EA	3' To 4' Ilex verticillata - Winterberry (Male)	131.32
32 93 33 00-0333	EA	4' To 5' Ilex verticillata - Winterberry (Male)	153.14
32 93 33 00-0334	EA	1 Gallon Ilex vomitoria - Yaupon Holly	15.47
32 93 33 00-0335	EA	3 Gallon Ilex vomitoria - Yaupon Holly	31.11
32 93 33 00-0336	EA	10 Gallon Ilex vomitoria - Yaupon Holly	109.32
32 93 33 00-0337	EA	18" B&B Ilex glabra compacta & cvs - Compact Inkberry Holly	49.60
32 93 33 00-0338	EA	24" B&B Ilex glabra compacta & cvs - Compact Inkberry Holly	56.00
32 93 33 00-0339	EA	3 Gallon Ilex meserveae & cvs - Blue Holly	64.00
32 93 33 00-0340	EA	18" B&B Ilex meserveae & cvs - Blue Holly	59.20
32 93 33 00-0341	EA	24" B&B Ilex meserveae & cvs - Blue Holly	72.00
32 93 33 00-0342	EA	5 Gallon Ilex verticillata & cvs - Common Winterberry	52.80
32 93 33 00-0343	EA	24" B&B Ilex verticillata & cvs - Common Winterberry	52.80
32 93 33 00-0344	EA	30" B&B Ilex verticillata & cvs - Common Winterberry	56.00
32 93 33 00-0345	EA	36" B&B Ilex verticillata & cvs - Common Winterberry	67.20
32 93 33 00-0346	EA	42" B&B Ilex verticillata & cvs - Common Winterberry	75.20
32 93 33 00-0347	EA	48" B&B Ilex verticillata & cvs - Common Winterberry	80.00
32 93 33 00-0348	EA	60" B&B Ilex verticillata & cvs - Common Winterberry	102.40
32 93 33 00-0349	EA	4' To 5' Ilex x attenuata "Foster" - Holly	189.58
32 93 33 00-0350	EA	5' To 6' Ilex x attenuata "Foster" - Holly	251.46
32 93 33 00-0351	EA	6' To 7' Ilex x attenuata "Foster" - Holly	224.99
32 93 33 00-0352	EA	7' To 8' Ilex x attenuata "Foster" - Holly	437.43
32 93 33 00-0353	EA	1 Gallon Jasminum - Jasmine	4.23
32 93 33 00-0354	EA	3 Gallon Jasminum - Jasmine	16.56
32 93 33 00-0355	EA	3 Gallon Jasminum - Orange Jasmine	12.88
32 93 33 00-0356	EA	4' - 5' Jasminum - Orange Jasmine	147.20
32 93 33 00-0357	EA	6' - 7' Jasminum - Orange Jasmine	294.39
32 93 33 00-0358	EA	8' - 10' Jasminum - Orange Jasmine	397.43
32 93 33 00-0359	EA	3 Gallon Juniperus chinensis cvs - Chinese Juniper	56.00
32 93 33 00-0360	EA	5 Gallon Juniperus chinensis cvs - Chinese Juniper	62.40
32 93 33 00-0361	EA	18" B&B Juniperus chinensis cvs - Chinese Juniper	83.20
32 93 33 00-0362	EA	24" B&B Juniperus chinensis cvs - Chinese Juniper	108.80
32 93 33 00-0363	EA	30" B&B Juniperus chinensis cvs - Chinese Juniper	128.00
32 93 33 00-0364	EA	36" B&B Juniperus chinensis cvs - Chinese Juniper	172.80
32 93 33 00-0365	EA	48" B&B Juniperus chinensis cvs - Chinese Juniper	236.79
32 93 33 00-0366	EA	1 Gallon Juniperus horizontalis cvs - Creeping Juniper	26.68
32 93 33 00-0367	EA	3 Gallon Juniperus horizontalis cvs - Creeping Juniper	56.00
32 93 33 00-0368	EA	5 Gallon Juniperus horizontalis cvs - Creeping Juniper	62.40
32 93 33 00-0369	EA	15" B&B Juniperus horizontalis cvs - Creeping Juniper	67.20
32 93 33 00-0370	EA	18" B&B Juniperus horizontalis cvs - Creeping Juniper	73.60
32 93 33 00-0371	EA	24" B&B Juniperus horizontalis cvs - Creeping Juniper	89.60
32 93 33 00-0372	EA	30" B&B Juniperus horizontalis cvs - Creeping Juniper	108.80
32 93 33 00-0373	EA	3 Gallon Juniperus procumbens cvs - Japanese Garden Juniper	43.20
32 93 33 00-0374	EA	18" B&B Juniperus procumbens cvs - Japanese Garden Juniper	51.20
32 93 33 00-0375	EA	24" B&B Juniperus procumbens cvs - Japanese Garden Juniper	70.40
32 93 33 00-0376	EA	30" B&B Juniperus procumbens cvs - Japanese Garden Juniper	89.60
32 93 33 00-0377	EA	36" B&B Juniperus procumbens cvs - Japanese Garden Juniper	108.80
32 93 33 00-0378	EA	3 Gallon Juniperus sabina cvs - Savin Juniper	40.00
32 93 33 00-0379	EA	5 Gallon Juniperus sabina cvs - Savin Juniper	48.00
32 93 33 00-0380	EA	4 Gallon Juniperus virginiana cvs - Red Cedar Juniper	41.60
32 93 33 00-0381	EA	36" B&B Juniperus virginiana cvs - Red Cedar Juniper	80.00
32 93 33 00-0382	EA	48" B&B Juniperus virginiana cvs - Red Cedar Juniper	124.80
32 93 33 00-0383	EA	60" B&B Juniperus virginiana cvs - Red Cedar Juniper	156.80
32 93 33 00-0384	EA	15" To 18" Kalmia latifolia - Mountain Laurel	65.66
32 93 33 00-0385	EA	18" To 24" Kalmia latifolia - Mountain Laurel	87.49
32 93 33 00-0386	EA	2' To 3' Kalmia latifolia - Mountain Laurel	127.53
32 93 33 00-0387	EA	4' To 5' Kalmia latifolia - Mountain Laurel	233.24
32 93 33 00-0388	EA	5' To 6' Kalmia latifolia - Mountain Laurel	357.34
32 93 33 00-0389	EA	6' To 8' Kalmia latifolia - Mountain Laurel	546.92
32 93 33 00-0390	EA	1 Gallon Kerria japonica - Kerria	14.61
32 93 33 00-0391	EA	5 Gallon Kerria japonica - Kerria	45.72
32 93 33 00-0392	EA	24" B&B Kolkwitzia amabilis & cvs - Beautybush	46.40
32 93 33 00-0393	EA	30" B&B Kolkwitzia amabilis & cvs - Beautybush	52.80
32 93 33 00-0394	EA	36" B&B Kolkwitzia amabilis & cvs - Beautybush	57.60
32 93 33 00-0395	EA	42" B&B Kolkwitzia amabilis & cvs - Beautybush	67.20
32 93 33 00-0396	EA	48" B&B Kolkwitzia amabilis & cvs - Beautybush	76.80
32 93 33 00-0397	EA	60" B&B Kolkwitzia amabilis & cvs - Beautybush	96.00
32 93 33 00-0398	EA	1 Gallon Lagerstroemia indica - Crape Myrtle	11.00
32 93 33 00-0399	EA	5 Gallon Lagerstroemia indica - Crape Myrtle	39.19
32 93 33 00-0400	EA	3' To 4' Lagerstroemia indica - Crape Myrtle	54.66
32 93 33 00-0401	EA	4' To 5' Lagerstroemia indica - Crape Myrtle	80.27
32 93 33 00-0402	EA	5' To 6' Lagerstroemia indica - Crape Myrtle	127.53
32 93 33 00-0403	EA	7' To 8' Lagerstroemia indica - Crape Myrtle	165.60
32 93 33 00-0404	EA	9' To 10' Lagerstroemia indica - Crape Myrtle	220.79
32 93 33 00-0405	EA	11' To 12' Lagerstroemia indica - Crape Myrtle	459.99
32 93 33 00-0406	EA	1 Gallon Leucothoe axillaris - Coast Leucothoe	16.50
32 93 33 00-0407	EA	2 Gallon Leucothoe axillaris - Coast Leucothoe	36.10
32 93 33 00-0408	EA	3 Gallon Leucothoe axillaris - Coast Leucothoe	43.49
32 93 33 00-0409	EA	1 Gallon Ligustrum lucidum - Glossy Privet	10.14
32 93 33 00-0410	EA	5 Gallon Ligustrum lucidum - Glossy Privet	31.11



		Exterior Improvements	32
		Planting	32 90
		Plants	32 93

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0411 EA 15 Gallon Ligustrum lucidum - Glossy Privet	145.75	
32 93 33 00-0412 EA 1 Gallon Ligustrum sinense - Variegated Chinese Privet	10.14	
32 93 33 00-0413 EA 2 Gallon Ligustrum sinense - Variegated Chinese Privet	21.83	
32 93 33 00-0414 EA 3 Gallon Ligustrum sinense - Variegated Chinese Privet	28.36	
32 93 33 00-0415 EA 36" B&B Ligustrum vulgare & cvs - Common Privet	48.00	
32 93 33 00-0416 EA 48" B&B Ligustrum vulgare & cvs - Common Privet	70.40	
32 93 33 00-0417 EA 60" B&B Ligustrum vulgare & cvs - Common Privet	89.60	
32 93 33 00-0418 EA 72" B&B Ligustrum vulgare & cvs - Common Privet	102.40	
32 93 33 00-0419 EA 5 Gallon Lindera benzoin - Spicebush	52.80	
32 93 33 00-0420 EA 36" B&B Lindera benzoin - Spicebush	44.80	
32 93 33 00-0421 EA 48" B&B Lindera benzoin - Spicebush	54.40	
32 93 33 00-0422 EA 2' To 3' Lonicera fragrantissima - Winter Honeysuckle	87.49	
32 93 33 00-0423 EA 3' To 4' Lonicera fragrantissima - Winter Honeysuckle	105.71	
32 93 33 00-0424 EA 30" B&B Lonicera tatarica & cvs - Tatarian Honeysuckle	48.00	
32 93 33 00-0425 EA 36" B&B Lonicera tatarica & cvs - Tatarian Honeysuckle	57.60	
32 93 33 00-0426 EA 42" B&B Lonicera tatarica & cvs - Tatarian Honeysuckle	64.00	
32 93 33 00-0427 EA 48" B&B Lonicera tatarica & cvs - Tatarian Honeysuckle	70.40	
32 93 33 00-0428 EA 1 Gallon Myrica cerifera - Wax Myrtle	9.20	
32 93 33 00-0429 EA 4 Gallon Myrica cerifera - Wax Myrtle	29.44	
32 93 33 00-0430 EA 7 Gallon Myrica cerifera - Wax Myrtle	64.40	
32 93 33 00-0431 EA 10 Gallon Myrica cerifera - Wax Myrtle	95.68	
32 93 33 00-0432 EA 15 Gallon Myrica cerifera - Wax Myrtle	147.20	
32 93 33 00-0433 EA 45 Gallon Myrica cerifera - Wax Myrtle	441.59	
32 93 33 00-0434 EA 1' - 2' Myrica cerifera - Wax Myrtle	12.88	
32 93 33 00-0435 EA 3' - 4' Myrica cerifera - Wax Myrtle	44.16	
32 93 33 00-0436 EA 5' - 6' Myrica cerifera - Wax Myrtle	80.96	
32 93 33 00-0437 EA 7' - 8' Myrica cerifera - Wax Myrtle	110.40	
32 93 33 00-0438 EA 9' - 10' Myrica cerifera - Wax Myrtle	147.20	
32 93 33 00-0439 EA 11' - 12' Myrica cerifera - Wax Myrtle	224.47	
32 93 33 00-0440 EA 3 Gallon Myrica pensylvanica - Northern Bayberry	48.00	
32 93 33 00-0441 EA 24" B&B Myrica pensylvanica - Northern Bayberry	78.40	
32 93 33 00-0442 EA 30" B&B Myrica pensylvanica - Northern Bayberry	115.20	
32 93 33 00-0443 EA 36" B&B Myrica pensylvanica - Northern Bayberry	137.60	
32 93 33 00-0444 EA 48" B&B Myrica pensylvanica - Northern Bayberry	144.00	
32 93 33 00-0445 EA 1 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum	6.43	
32 93 33 00-0446 EA 5 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum	15.91	
32 93 33 00-0447 EA 15 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum	63.17	
32 93 33 00-0448 EA 1 Gallon Nandina domestica - Heavenly Bamboo	16.50	
32 93 33 00-0449 EA 2 Gallon Nandina domestica - Heavenly Bamboo	36.10	
32 93 33 00-0450 EA 5 Gallon Nandina domestica - Heavenly Bamboo	54.66	
32 93 33 00-0451 EA 15 Gallon Nerium oleander - Oleander	69.12	
32 93 33 00-0452 EA 24" Box Nerium oleander - Oleander	248.37	
32 93 33 00-0453 EA 1 Gallon Osmanthus fragrans - Fragrant Tea Olive	10.14	
32 93 33 00-0454 EA 3 Gallon Osmanthus fragrans - Fragrant Tea Olive	27.50	
32 93 33 00-0455 EA 1 Gallon Philadelphus - Evergreen Mockorange	14.09	
32 93 33 00-0456 EA 5 Gallon Philadelphus - Evergreen Mockorange	45.72	
32 93 33 00-0457 EA 36" B&B Philadelphus x virginialis & cvs - Mockorange	48.00	
32 93 33 00-0458 EA 42" B&B Philadelphus x virginialis & cvs - Mockorange	56.00	
32 93 33 00-0459 EA 48" B&B Philadelphus x virginialis & cvs - Mockorange	64.00	
32 93 33 00-0460 EA 1 Gallon Photinia fraseri - Red-Tipped Photinia	6.43	
32 93 33 00-0461 EA 5 Gallon Photinia fraseri - Red-Tipped Photinia	15.91	
32 93 33 00-0462 EA 15 Gallon Photinia fraseri - Red-Tipped Photinia	63.17	
32 93 33 00-0463 EA 1 Gallon Phormium tenax - New Zealand Flax	6.78	
32 93 33 00-0464 EA 5 Gallon Phormium tenax - New Zealand Flax	16.26	
32 93 33 00-0465 EA 15 Gallon Phormium tenax - New Zealand Flax	69.12	
32 93 33 00-0466 EA 24" B&B Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark	48.00	
32 93 33 00-0467 EA 30" B&B Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark	56.00	
32 93 33 00-0468 EA 36" B&B Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark	64.00	
32 93 33 00-0469 EA 42" B&B Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark	80.00	
32 93 33 00-0470 EA 48" B&B Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark	96.00	
32 93 33 00-0471 EA 12" To 15" Spread Pieris - Mountain Andromeda	44.17	
32 93 33 00-0472 EA 15" To 18" Spread Pieris - Mountain Andromeda	94.71	
32 93 33 00-0473 EA 12" To 15" Pieris japonica - Japanese Andromeda	57.41	
32 93 33 00-0474 EA 15" To 18" Pieris japonica - Japanese Andromeda	65.66	
32 93 33 00-0475 EA 18" To 24" Pieris japonica - Japanese Andromeda	82.16	
32 93 33 00-0476 EA 2' To 2-1/2' Pieris japonica - Japanese Andromeda	116.71	
32 93 33 00-0477 EA 2-1/2' To 3' Pieris japonica - Japanese Andromeda	138.54	
32 93 33 00-0478 EA 24" B&B Pinus mugo & cvs - Mugo Pine	44.80	
32 93 33 00-0479 EA 30" B&B Pinus mugo & cvs - Mugo Pine	57.34	
32 93 33 00-0480 EA 36" B&B Pinus mugo & cvs - Mugo Pine	68.99	
32 93 33 00-0481 EA 48" B&B Pinus mugo & cvs - Mugo Pine	88.70	
32 93 33 00-0482 EA 60" B&B Pinus mugo & cvs - Mugo Pine	106.62	
32 93 33 00-0483 EA 72" B&B Pinus mugo & cvs - Mugo Pine	155.90	
32 93 33 00-0484 EA 30" B&B Pinus mugo compacta - Dwarf Mugo Pine	96.76	
32 93 33 00-0485 EA 36" B&B Pinus mugo compacta - Dwarf Mugo Pine	116.47	
32 93 33 00-0486 EA 48" B&B Pinus mugo compacta - Dwarf Mugo Pine	155.00	
32 93 33 00-0487 EA 1 Gallon Pittosporum - Pittosporum	6.07	
32 93 33 00-0488 EA 3 Gallon Pittosporum - Pittosporum	15.64	
32 93 33 00-0489 EA 1 Gallon Pittosporum - Varigated Pittosporum	6.07	
32 93 33 00-0490 EA 3 Gallon Pittosporum - Varigated Pittosporum	15.64	
32 93 33 00-0491 EA 5 Gallon Pittosporum - Varigated Pittosporum	27.42	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0492	EA	1 Gallon Pittosporum eugenioides - Lemonwood	7.39	
32 93 33 00-0493	EA	5 Gallon Pittosporum eugenioides - Lemonwood	17.50	
32 93 33 00-0494	EA	1 Gallon Pittosporum tobira - Japanese Pittosporum	6.43	
32 93 33 00-0495	EA	5 Gallon Pittosporum tobira - Japanese Pittosporum	15.91	
32 93 33 00-0496	EA	15 Gallon Pittosporum tobira - Japanese Pittosporum	63.17	
32 93 33 00-0497	EA	2 Gallon Potentilla fruticosa & cvs - Bush Cinquefoil	27.20	
32 93 33 00-0498	EA	5 Gallon Potentilla fruticosa & cvs - Bush Cinquefoil	38.40	
32 93 33 00-0499	EA	18" B&B Potentilla fruticosa & cvs - Bush Cinquefoil	28.80	
32 93 33 00-0500	EA	24" B&B Potentilla fruticosa & cvs - Bush Cinquefoil	32.00	
32 93 33 00-0501	EA	30" B&B Potentilla fruticosa & cvs - Bush Cinquefoil	46.40	
32 93 33 00-0502	EA	36" B&B Potentilla fruticosa & cvs - Bush Cinquefoil	53.60	
32 93 33 00-0503	EA	1 Gallon Prunus caroliniana - Carolina Cherry Laurel	6.16	
32 93 33 00-0504	EA	5 Gallon Prunus caroliniana - Carolina Cherry Laurel	15.40	
32 93 33 00-0505	EA	15 Gallon Prunus caroliniana - Carolina Cherry Laurel	91.82	
32 93 33 00-0506	EA	15" To 18" Prunus laurocerasus - Cherry Laurel	23.49	
32 93 33 00-0507	EA	18" To 24" Prunus laurocerasus - Cherry Laurel	29.07	
32 93 33 00-0508	EA	24" To 30" Prunus laurocerasus - Cherry Laurel	37.83	
32 93 33 00-0509	EA	15" To 18" Prunus triloba - Double White Flowering Almond	20.98	
32 93 33 00-0510	EA	18" To 24" Prunus triloba - Double White Flowering Almond	26.85	
32 93 33 00-0511	EA	3' To 4' Prunus triloba - Double White Flowering Almond	42.83	
32 93 33 00-0512	EA	4' To 6' Prunus triloba - Double White Flowering Almond	85.76	
32 93 33 00-0513	EA	5 Gallon Prunus triloba - Pink Flowering Almond	25.80	
32 93 33 00-0514	EA	18" To 24" Prunus triloba - Pink Flowering Almond	28.97	
32 93 33 00-0515	EA	2' To 3' Prunus triloba - Pink Flowering Almond	33.69	
32 93 33 00-0516	EA	2' To 3' Prunus virginiana - Brilliant Chokeberry	22.91	
32 93 33 00-0517	EA	3' To 4' Prunus virginiana - Brilliant Chokeberry	28.11	
32 93 33 00-0518	EA	4' To 5' Prunus virginiana - Brilliant Chokeberry	33.69	
32 93 33 00-0519	EA	5' To 6' Prunus virginiana - Brilliant Chokeberry	38.60	
32 93 33 00-0520	EA	1 Gallon Punica granatum - Dwarf Pomegranate	10.83	
32 93 33 00-0521	EA	3 Gallon Punica granatum - Dwarf Pomegranate	31.97	
32 93 33 00-0522	EA	7 Gallon Punica granatum - Dwarf Pomegranate	65.66	
32 93 33 00-0523	EA	1 Gallon Pyracantha koidzumi "Santa Cruz" - Pyracantha	13.75	
32 93 33 00-0524	EA	5 Gallon Pyracantha koidzumi "Santa Cruz" - Pyracantha	45.72	
32 93 33 00-0525	EA	5 Gallon Espalier Pyracantha koidzumi "Santa Cruz" - Pyracantha	94.71	
32 93 33 00-0526	EA	1 Gallon Ralphiolepis indica - Indian Hawthorne	11.00	
32 93 33 00-0527	EA	2 Gallon Ralphiolepis indica - Indian Hawthorne	20.97	
32 93 33 00-0528	EA	5 Gallon Ralphiolepis indica - Indian Hawthorne	37.30	
32 93 33 00-0529	EA	1 Gallon Rhamnus californica - Coffeeberry	16.72	
32 93 33 00-0530	EA	5 Gallon Rhamnus californica - Coffeeberry	47.81	
32 93 33 00-0531	EA	15 Gallon Rhamnus californica - Coffeeberry	143.49	
32 93 33 00-0532	EA	4' To 5' Rhamnus frangula "Columnaris" - Tallhedge	83.88	
32 93 33 00-0533	EA	5' To 6' Rhamnus frangula "Columnaris" - Tallhedge	114.99	
32 93 33 00-0534	EA	6' To 8' Rhamnus frangula "Columnaris" - Tallhedge	149.53	
32 93 33 00-0535	EA	10' To 12' Rhamnus frangula "Columnaris" - Tallhedge	273.46	
32 93 33 00-0536	EA	1 Gallon Ralphiolepis indica 'Ballerina' - Ballerina Indian Hawthorn	6.85	
32 93 33 00-0537	EA	5 Gallon Ralphiolepis indica 'Ballerina' - Ballerina Indian Hawthorn	16.26	
32 93 33 00-0538	EA	15 Gallon Ralphiolepis indica 'Ballerina' - Ballerina Indian Hawthorn	69.12	
32 93 33 00-0539	EA	1 Gallon Rhododendron - Azalea Evergreen Hybrids	17.88	
32 93 33 00-0540	EA	2 Gallon Rhododendron - Azalea Evergreen Hybrids	36.09	
32 93 33 00-0541	EA	3 Gallon Rhododendron - Azalea Evergreen Hybrids	47.10	
32 93 33 00-0542	EA	5 Gallon Rhododendron - Azalea Evergreen Hybrids	54.66	
32 93 33 00-0543	EA	15" To 18" Rhododendron - Azalea Evergreen Hybrids	63.94	
32 93 33 00-0544	EA	18" To 24" Rhododendron - Azalea Evergreen Hybrids	80.27	
32 93 33 00-0545	EA	2' To 2-1/2' Rhododendron - Azalea Evergreen Hybrids	116.71	
32 93 33 00-0546	EA	2-1/2' To 3' Rhododendron - Azalea Evergreen Hybrids	163.97	
32 93 33 00-0547	EA	1 Gallon Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	20.11	
32 93 33 00-0548	EA	2 Gallon Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	36.09	
32 93 33 00-0549	EA	15' To 18' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	62.05	
32 93 33 00-0550	EA	18" To 24" Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	80.27	
32 93 33 00-0551	EA	2' To 3' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	116.71	
32 93 33 00-0552	EA	3' To 4' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	171.36	
32 93 33 00-0553	EA	4' To 5' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	229.63	
32 93 33 00-0554	EA	5 Gallon Rhododendron - Boxleaf Azara	45.72	
32 93 33 00-0555	EA	15 Gallon Rhododendron - Boxleaf Azara	163.97	
32 93 33 00-0556	EA	15" To 18" Rhododendron - Carolina Rhododendron	51.74	
32 93 33 00-0557	EA	18" To 24" Rhododendron - Carolina Rhododendron	91.10	
32 93 33 00-0558	EA	24" To 30" Rhododendron - Carolina Rhododendron	134.93	
32 93 33 00-0559	EA	2' To 3' Rhododendron - Five-leafed Azalea	61.36	
32 93 33 00-0560	EA	3' To 4' Rhododendron - Five-leafed Azalea	80.27	
32 93 33 00-0561	EA	4' To 5' Rhododendron - Five-leafed Azalea	105.71	
32 93 33 00-0562	EA	15" To 18" Rhododendron - Ghent Azalea	61.36	
32 93 33 00-0563	EA	18" To 24" Rhododendron - Ghent Azalea	76.49	
32 93 33 00-0564	EA	2' To 3' Rhododendron - Ghent Azalea	123.92	
32 93 33 00-0565	EA	3' To 4' Rhododendron - Ghent Azalea	171.36	
32 93 33 00-0566	EA	4' To 5' Rhododendron - Ghent Azalea	229.63	
32 93 33 00-0567	EA	5' To 6' Rhododendron - Ghent Azalea	306.29	
32 93 33 00-0568	EA	1 Gallon Rhododendron - Hybrid Rhododendron	20.11	
32 93 33 00-0569	EA	2 Gallon Rhododendron - Hybrid Rhododendron	43.49	
32 93 33 00-0570	EA	3 Gallon Rhododendron - Hybrid Rhododendron	61.70	
32 93 33 00-0571	EA	5 Gallon Rhododendron - Hybrid Rhododendron	68.92	
32 93 33 00-0572	EA	15" To 18" Rhododendron - Hybrid Rhododendron	58.27	



Exterior Improvements 32

Planting 32 90

Plants 32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0573	EA		18" To 24" Rhododendron - Hybrid Rhododendron	80.27	
32 93 33 00-0574	EA		24" To 30" Rhododendron - Hybrid Rhododendron	109.32	
32 93 33 00-0575	EA		30" To 36" Rhododendron - Hybrid Rhododendron	127.53	
32 93 33 00-0576	EA		36" To 42" Rhododendron - Hybrid Rhododendron	182.36	
32 93 33 00-0577	EA		42" To 48" Rhododendron - Hybrid Rhododendron	226.02	
32 93 33 00-0578	EA		15" To 18" Rhododendron - Pjm Rhododendron.....	65.66	
32 93 33 00-0579	EA		18" To 24" Rhododendron - Pjm Rhododendron.....	80.27	
32 93 33 00-0580	EA		2' To 2-1/2' Rhododendron - Pjm Rhododendron.....	116.71	
32 93 33 00-0581	EA		2-1/2 To 3' Rhododendron - Pjm Rhododendron.....	149.53	
32 93 33 00-0582	EA		3' To 3-1/2' Rhododendron - Pjm Rhododendron.....	182.36	
32 93 33 00-0583	EA		12" To 15" Rhododendron - Torch Azalea	51.05	
32 93 33 00-0584	EA		15" To 18" Rhododendron - Torch Azalea	61.36	
32 93 33 00-0585	EA		18" To 24" Rhododendron - Torch Azalea	76.49	
32 93 33 00-0586	EA		2' To 3' Rhododendron - Torch Azalea.....	127.53	
32 93 33 00-0587	EA		3 Gallon Rhododendron cvs - Lepidote Rhododendron.....	57.60	
32 93 33 00-0588	EA		5 Gallon Rhododendron cvs - Lepidote Rhododendron.....	70.40	
32 93 33 00-0589	EA		18" B&B Rhododendron cvs - Lepidote Rhododendron.....	86.40	
32 93 33 00-0590	EA		24" B&B Rhododendron cvs - Lepidote Rhododendron.....	108.80	
32 93 33 00-0591	EA		30" B&B Rhododendron cvs - Lepidote Rhododendron.....	128.00	
32 93 33 00-0592	EA		36" B&B Rhododendron cvs - Lepidote Rhododendron.....	153.60	
32 93 33 00-0593	EA		1 Gallon Rhus glabra - Dwarf Smooth Sumac.....	16.50	
32 93 33 00-0594	EA		5 Gallon Rhus glabra - Dwarf Smooth Sumac	45.72	
32 93 33 00-0595	EA		2 Gallon Rhus aromatica & cvs - Fragrant Sumac.....	38.40	
32 93 33 00-0596	EA		5 Gallon Rhus aromatica & cvs - Fragrant Sumac.....	52.80	
32 93 33 00-0597	EA		18" B&B Rhus aromatica & cvs - Fragrant Sumac.....	60.80	
32 93 33 00-0598	EA		24" B&B Rhus aromatica & cvs - Fragrant Sumac.....	80.00	
32 93 33 00-0599	EA		36" B&B Rhus glabra - Smooth Sumac.....	48.00	
32 93 33 00-0600	EA		48" B&B Rhus typhina & cvs - Staghorn Sumac.....	80.00	
32 93 33 00-0601	EA		72" B&B Rhus typhina & cvs - Staghorn Sumac.....	128.00	
32 93 33 00-0602	EA		15" B&B Ribes alpinum & cvs - Alpine Currant.....	43.20	
32 93 33 00-0603	EA		18" B&B Ribes alpinum & cvs - Alpine Currant.....	49.60	
32 93 33 00-0604	EA		24" B&B Ribes alpinum & cvs - Alpine Currant.....	72.00	
32 93 33 00-0605	EA		30" B&B Ribes alpinum & cvs - Alpine Currant.....	96.00	
32 93 33 00-0606	EA		1 Gallon Rosa hybrids & cvs - Shrub Rose.....	26.40	
32 93 33 00-0607	EA		2 Gallon Rosa hybrids & cvs - Shrub Rose.....	32.00	
32 93 33 00-0608	EA		3 Gallon Rosa hybrids & cvs - Shrub Rose.....	40.00	
32 93 33 00-0609	EA		2 Gallon Rosa rugosa & cvs - Rugosa Rose.....	28.80	
32 93 33 00-0610	EA		3 Gallon Rosa rugosa & cvs - Rugosa Rose.....	36.80	
32 93 33 00-0611	EA		5 Gallon Sambucus canadensis - American Elder.....	52.80	
32 93 33 00-0612	EA		1 Gallon Santolina chamaecyparissus - Lavender Cotton.....	6.43	
32 93 33 00-0613	EA		5 Gallon Santolina chamaecyparissus - Lavender Cotton.....	15.91	
32 93 33 00-0614	EA		1 Gallon Santolina rosmarinifolia - Green Lavender Cotton.....	6.43	
32 93 33 00-0615	EA		5 Gallon Santolina rosmarinifolia - Green Lavender Cotton.....	15.91	
32 93 33 00-0616	EA		2 Gallon Sarcococca hookeriana humilis - Himalayan Sarcococca.....	23.72	
32 93 33 00-0617	EA		3 Gallon Sarcococca hookeriana humilis - Himalayan Sarcococca.....	34.72	
32 93 33 00-0618	EA		1 Gallon Sarcococca humilis - Fragrant Sarcococca.....	12.89	
32 93 33 00-0619	EA		5 Gallon Sarcococca humilis - Fragrant Sarcococca.....	33.69	
32 93 33 00-0620	EA		5 Gallon Senna artemisioides - Feathery Cassia.....	17.77	
32 93 33 00-0621	EA		15 Gallon Senna artemisioides - Feathery Cassia.....	70.72	
32 93 33 00-0622	EA		24" Box Senna artemisioides - Feathery Cassia.....	222.16	
32 93 33 00-0623	EA		1 Gallon Skimmia japonica - Japanese Skimmia.....	16.50	
32 93 33 00-0624	EA		2 Gallon Skimmia japonica - Japanese Skimmia.....	32.83	
32 93 33 00-0625	EA		5 Gallon Skimmia japonica - Japanese Skimmia.....	52.94	
32 93 33 00-0626	EA		1 Gallon Sollya fusiformis - Bluebell Creeper.....	6.43	
32 93 33 00-0627	EA		5 Gallon Sollya fusiformis - Bluebell Creeper.....	15.91	
32 93 33 00-0628	EA		3' To 4' Spiraea - Garland Spirea.....	76.49	
32 93 33 00-0629	EA		4' To 5' Spiraea - Garland Spirea.....	116.71	
32 93 33 00-0630	EA		5 Gallon Spiraea - Snowmound Spirea.....	45.72	
32 93 33 00-0631	EA		18" To 24" Spiraea - Snowmound Spirea.....	37.47	
32 93 33 00-0632	EA		2' To 3' Spiraea - Snowmound Spirea.....	52.94	
32 93 33 00-0633	EA		3' To 4' Spiraea - Snowmound Spirea.....	61.36	
32 93 33 00-0634	EA		4' To 5' Spiraea - Snowmound Spirea.....	105.71	
32 93 33 00-0635	EA		1 Gallon Spiraea japonica & cvs - Japanese Spirea.....	16.50	
32 93 33 00-0636	EA		2 Gallon Spiraea japonica & cvs - Japanese Spirea.....	32.49	
32 93 33 00-0637	EA		3 Gallon Spiraea japonica & cvs - Japanese Spirea.....	37.60	
32 93 33 00-0638	EA		5 Gallon Spiraea japonica & cvs - Japanese Spirea.....	40.80	
32 93 33 00-0639	EA		18" B&B Spiraea japonica & cvs - Japanese Spirea.....	41.60	
32 93 33 00-0640	EA		24" B&B Spiraea japonica & cvs - Japanese Spirea.....	48.00	
32 93 33 00-0641	EA		30" B&B Spiraea japonica & cvs - Japanese Spirea.....	54.40	
32 93 33 00-0642	EA		36" B&B Spiraea japonica & cvs - Japanese Spirea.....	63.20	
32 93 33 00-0643	EA		2 Gallon Spiraea nipponica & cvs - Nippon Spiraea.....	25.60	
32 93 33 00-0644	EA		5 Gallon Spiraea nipponica & cvs - Nippon Spiraea.....	38.40	
32 93 33 00-0645	EA		18" B&B Spiraea nipponica & cvs - Nippon Spiraea.....	35.20	
32 93 33 00-0646	EA		24" B&B Spiraea nipponica & cvs - Nippon Spiraea.....	41.60	
32 93 33 00-0647	EA		30" B&B Spiraea nipponica & cvs - Nippon Spiraea.....	48.00	
32 93 33 00-0648	EA		36" B&B Spiraea nipponica & cvs - Nippon Spiraea.....	54.40	
32 93 33 00-0649	EA		48" B&B Spiraea nipponica & cvs - Nippon Spiraea.....	70.40	
32 93 33 00-0650	EA		1 Gallon Spiraea x bumalda & cvs - Bumalda Spirea.....	16.50	
32 93 33 00-0651	EA		2 Gallon Spiraea x bumalda & cvs - Bumalda Spirea.....	29.60	
32 93 33 00-0652	EA		4 Gallon Spiraea x bumalda & cvs - Bumalda Spirea.....	38.40	
32 93 33 00-0653	EA		18" B&B Spiraea x bumalda & cvs - Bumalda Spirea.....	33.60	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0654	EA	24" B&B Spiraea x bumalda & cvs - Bumalda Spirea	40.80	
32 93 33 00-0655	EA	30" B&B Spiraea x bumalda & cvs - Bumalda Spirea	48.00	
32 93 33 00-0656	EA	36" B&B Spiraea x bumalda & cvs - Bumalda Spirea	54.40	
32 93 33 00-0657	EA	5 Gallon Spiraea x vanhouttei & cvs - Vanhoutte Spirea	38.40	
32 93 33 00-0658	EA	18" B&B Spiraea x vanhouttei & cvs - Vanhoutte Spirea	38.40	
32 93 33 00-0659	EA	24" B&B Spiraea x vanhouttei & cvs - Vanhoutte Spirea	44.80	
32 93 33 00-0660	EA	30" B&B Spiraea x vanhouttei & cvs - Vanhoutte Spirea	60.80	
32 93 33 00-0661	EA	36" B&B Spiraea x vanhouttei & cvs - Vanhoutte Spirea	70.40	
32 93 33 00-0662	EA	42" B&B Spiraea x vanhouttei & cvs - Vanhoutte Spirea	83.20	
32 93 33 00-0663	EA	5 Gallon Staphylea trifolia - Bladdernut	54.01	
32 93 33 00-0664	EA	2 Gallon Stephanandra incisa & cvs - Cutleaf Stephanadra	38.40	
32 93 33 00-0665	EA	5 Gallon Stephanandra incisa & cvs - Cutleaf Stephanadra	41.60	
32 93 33 00-0666	EA	24" B&B Stephanandra incisa & cvs - Cutleaf Stephanadra	48.00	
32 93 33 00-0667	EA	30" B&B Stephanandra incisa & cvs - Cutleaf Stephanadra	57.60	
32 93 33 00-0668	EA	2 Gallon Symphoricarpos albus - Common Snowberry	40.00	
32 93 33 00-0669	EA	5 Gallon Symphoricarpos albus - Common Snowberry	42.40	
32 93 33 00-0670	EA	24" B&B Syringa meyeri & cvs - Meyer Lilac	70.40	
32 93 33 00-0671	EA	30" B&B Syringa meyeri & cvs - Meyer Lilac	88.00	
32 93 33 00-0672	EA	36" B&B Syringa meyeri & cvs - Meyer Lilac	102.40	
32 93 33 00-0673	EA	42" B&B Syringa meyeri & cvs - Meyer Lilac	118.40	
32 93 33 00-0674	EA	18" B&B Syringa patula 'Miss Kim' - Miss Kim Lilac	70.40	
32 93 33 00-0675	EA	24" B&B Syringa patula 'Miss Kim' - Miss Kim Lilac	76.80	
32 93 33 00-0676	EA	30" B&B Syringa patula 'Miss Kim' - Miss Kim Lilac	88.00	
32 93 33 00-0677	EA	36" B&B Syringa patula 'Miss Kim' - Miss Kim Lilac	102.40	
32 93 33 00-0678	EA	42" B&B Syringa patula 'Miss Kim' - Miss Kim Lilac	118.40	
32 93 33 00-0679	EA	60" B&B Syringa villosa & cvs - Late Lilac	56.00	
32 93 33 00-0680	EA	72" B&B Syringa villosa & cvs - Late Lilac	60.80	
32 93 33 00-0681	EA	36" B&B Syringa vulgaris & cvs - Common Lilac	48.00	
32 93 33 00-0682	EA	42" B&B Syringa vulgaris & cvs - Common Lilac	54.40	
32 93 33 00-0683	EA	48" B&B Syringa vulgaris & cvs - Common Lilac	60.80	
32 93 33 00-0684	EA	60" B&B Syringa vulgaris & cvs - Common Lilac	70.40	
32 93 33 00-0685	EA	72" B&B Syringa vulgaris & cvs - Common Lilac	86.40	
32 93 33 00-0686	EA	5 Gallon Syringa x chinensis & cvs - Chinese Lilac	40.00	
32 93 33 00-0687	EA	36" B&B Syringa x hyacinthiflora & cvs - Hybrid Lilac	46.40	
32 93 33 00-0688	EA	48" B&B Syringa x hyacinthiflora & cvs - Hybrid Lilac	60.80	
32 93 33 00-0689	EA	48" B&B Taxus cuspidata capitata - Capitata Japanese Yew	254.39	
32 93 33 00-0690	EA	54" B&B Taxus cuspidata capitata - Capitata Japanese Yew	284.79	
32 93 33 00-0691	EA	60" B&B Taxus cuspidata capitata - Capitata Japanese Yew	313.59	
32 93 33 00-0692	EA	72" B&B Taxus cuspidata capitata - Capitata Japanese Yew	377.59	
32 93 33 00-0693	EA	18" B&B Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	67.20	
32 93 33 00-0694	EA	24" B&B Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	88.00	
32 93 33 00-0695	EA	30" B&B Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	102.40	
32 93 33 00-0696	EA	36" B&B Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	112.00	
32 93 33 00-0697	EA	15" B&B Taxus x media & cvs - Anglojap Yew	67.20	
32 93 33 00-0698	EA	18" B&B Taxus x media & cvs - Anglojap Yew	88.00	
32 93 33 00-0699	EA	24" B&B Taxus x media & cvs - Anglojap Yew	104.00	
32 93 33 00-0700	EA	30" B&B Taxus x media & cvs - Anglojap Yew	123.20	
32 93 33 00-0701	EA	36" B&B Taxus x media & cvs - Anglojap Yew	185.60	
32 93 33 00-0702	EA	36" B&B Thuja occidentalis & cvs - Upright Arborvitae	102.40	
32 93 33 00-0703	EA	48" B&B Thuja occidentalis & cvs - Upright Arborvitae	137.60	
32 93 33 00-0704	EA	60" B&B Thuja occidentalis & cvs - Upright Arborvitae	207.99	
32 93 33 00-0705	EA	72" B&B Thuja occidentalis & cvs - Upright Arborvitae	303.99	
32 93 33 00-0706	EA	84" B&B Thuja occidentalis & cvs - Upright Arborvitae	348.79	
32 93 33 00-0707	EA	96" B&B Thuja occidentalis & cvs - Upright Arborvitae	404.79	
32 93 33 00-0708	EA	15" B&B Thuja occidentalis cvs - Dwarf Arborvitae	44.80	
32 93 33 00-0709	EA	18" B&B Thuja occidentalis cvs - Dwarf Arborvitae	62.40	
32 93 33 00-0710	EA	24" B&B Thuja occidentalis cvs - Dwarf Arborvitae	88.00	
32 93 33 00-0711	EA	3' To 4' Viburnum dilatatum - Linden Viburnum	76.49	
32 93 33 00-0712	EA	4' To 5' Viburnum dilatatum - Linden Viburnum	116.71	
32 93 33 00-0713	EA	5' To 6' Viburnum dilatatum - Linden Viburnum	153.15	
32 93 33 00-0714	EA	1 Gallon Viburnum japonicum - Japanese Viburnum	9.28	
32 93 33 00-0715	EA	3 Gallon Viburnum japonicum - Japanese Viburnum	25.44	
32 93 33 00-0716	EA	5 Gallon Viburnum plicatum - Japanese Snowball	45.72	
32 93 33 00-0717	EA	5' To 6' Viburnum plicatum - Japanese Snowball	171.37	
32 93 33 00-0718	EA	2' To 3' Viburnum rhytidophyllum - Leatherleaf Viburnum	80.27	
32 93 33 00-0719	EA	3' To 4' Viburnum rhytidophyllum - Leatherleaf Viburnum	94.71	
32 93 33 00-0720	EA	4' To 5' Viburnum rhytidophyllum - Leatherleaf Viburnum	133.21	
32 93 33 00-0721	EA	30" B&B Viburnum burkwoodii & cvs - Burkwood Viburnum	88.00	
32 93 33 00-0722	EA	36" B&B Viburnum burkwoodii & cvs - Burkwood Viburnum	105.60	
32 93 33 00-0723	EA	24" B&B Viburnum carlesii & cvs - Korean Spice Viburnum	80.00	
32 93 33 00-0724	EA	30" B&B Viburnum carlesii & cvs - Korean Spice Viburnum	96.00	
32 93 33 00-0725	EA	36" B&B Viburnum carlesii & cvs - Korean Spice Viburnum	112.00	
32 93 33 00-0726	EA	42" B&B Viburnum carlesii & cvs - Korean Spice Viburnum	128.00	
32 93 33 00-0727	EA	1 Gallon Viburnum davidii - David Viburnum	6.43	
32 93 33 00-0728	EA	5 Gallon Viburnum davidii - David Viburnum	15.91	
32 93 33 00-0729	EA	36" B&B Viburnum dentatum & cvs - Arrowwood Viburnum	44.80	
32 93 33 00-0730	EA	42" B&B Viburnum dentatum & cvs - Arrowwood Viburnum	48.00	
32 93 33 00-0731	EA	48" B&B Viburnum dentatum & cvs - Arrowwood Viburnum	56.00	
32 93 33 00-0732	EA	60" B&B Viburnum dentatum & cvs - Arrowwood Viburnum	64.00	
32 93 33 00-0733	EA	72" B&B Viburnum dentatum & cvs - Arrowwood Viburnum	70.40	
32 93 33 00-0734	EA	30" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum	43.20	



Exterior Improvements 32

Planting 32 90

Plants 32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0735	EA		36" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum	48.00	
32 93 33 00-0736	EA		42" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum	60.80	
32 93 33 00-0737	EA		48" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum	70.40	
32 93 33 00-0738	EA		60" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum	96.00	
32 93 33 00-0739	EA		72" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum	115.20	
32 93 33 00-0740	EA		36" B&B Viburnum lentago & cvs - Nannyberry Viburnum	48.00	
32 93 33 00-0741	EA		48" B&B Viburnum lentago & cvs - Nannyberry Viburnum	64.00	
32 93 33 00-0742	EA		5' B&B Viburnum lentago & cvs - Nannyberry Viburnum	80.00	
32 93 33 00-0743	EA		6' B&B Viburnum lentago & cvs - Nannyberry Viburnum	112.00	
32 93 33 00-0744	EA		7' B&B Viburnum lentago & cvs - Nannyberry Viburnum	160.00	
32 93 33 00-0745	EA		8' B&B Viburnum lentago & cvs - Nannyberry Viburnum	223.99	
32 93 33 00-0746	EA		9' B&B Viburnum lentago & cvs - Nannyberry Viburnum	287.99	
32 93 33 00-0747	EA		30" B&B Viburnum plicatum tomentosum & cvs - Doublefile Viburnum	57.60	
32 93 33 00-0748	EA		36" B&B Viburnum plicatum tomentosum & cvs - Doublefile Viburnum	64.00	
32 93 33 00-0749	EA		36" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	115.20	
32 93 33 00-0750	EA		48" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	176.00	
32 93 33 00-0751	EA		60" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	223.99	
32 93 33 00-0752	EA		72" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	271.99	
32 93 33 00-0753	EA		84" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	335.99	
32 93 33 00-0754	EA		96" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	399.99	
32 93 33 00-0755	EA		108" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	479.99	
32 93 33 00-0756	EA		120" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	559.99	
32 93 33 00-0757	EA		30" B&B Viburnum sargentii & cvs - Sargent Viburnum	48.80	
32 93 33 00-0758	EA		36" B&B Viburnum sargentii & cvs - Sargent Viburnum	53.60	
32 93 33 00-0759	EA		48" B&B Viburnum sargentii & cvs - Sargent Viburnum	60.80	
32 93 33 00-0760	EA		60" B&B Viburnum sargentii & cvs - Sargent Viburnum	70.40	
32 93 33 00-0761	EA		72" B&B Viburnum sargentii & cvs - Sargent Viburnum	80.80	
32 93 33 00-0762	EA		18" B&B Viburnum trilobum & cvs - American Cranberry Viburnum	46.40	
32 93 33 00-0763	EA		24" B&B Viburnum trilobum & cvs - American Cranberry Viburnum	56.00	
32 93 33 00-0764	EA		30" B&B Viburnum trilobum & cvs - American Cranberry Viburnum	67.20	
32 93 33 00-0765	EA		36" B&B Viburnum trilobum & cvs - American Cranberry Viburnum	76.80	
32 93 33 00-0766	EA		42" B&B Viburnum trilobum & cvs - American Cranberry Viburnum	92.80	
32 93 33 00-0767	EA		48" B&B Viburnum trilobum & cvs - American Cranberry Viburnum	102.40	
32 93 33 00-0768	EA		30" B&B Viburnum x carlcephalum & cvs - Fragrant Viburnum	80.00	
32 93 33 00-0769	EA		36" B&B Viburnum x carlcephalum & cvs - Fragrant Viburnum	96.00	
32 93 33 00-0770	EA		42" B&B Viburnum x carlcephalum & cvs - Fragrant Viburnum	112.00	
32 93 33 00-0771	EA		48" B&B Viburnum x carlcephalum & cvs - Fragrant Viburnum	128.00	
32 93 33 00-0772	EA		60" B&B Viburnum x carlcephalum & cvs - Fragrant Viburnum	144.00	
32 93 33 00-0773	EA		30" B&B Viburnum x juddii & cvs - Judd Viburnum	102.40	
32 93 33 00-0774	EA		36" B&B Viburnum x juddii & cvs - Judd Viburnum	115.20	
32 93 33 00-0775	EA		42" B&B Viburnum x juddii & cvs - Judd Viburnum	131.20	
32 93 33 00-0776	EA		48" B&B Viburnum x juddii & cvs - Judd Viburnum	150.40	
32 93 33 00-0777	EA		2' To 3' Viburnum opulus "Roseum" - Fragrant Snowball	94.71	
32 93 33 00-0778	EA		3' To 4' Viburnum opulus "Roseum" - Fragrant Snowball	116.71	
32 93 33 00-0779	EA		4' To 5' Viburnum opulus "Roseum" - Fragrant Snowball	171.36	
32 93 33 00-0780	EA		5 Gallon Weigela florida & cvs - Old Fashioned Weigela	52.80	
32 93 33 00-0781	EA		24" B&B Weigela florida & cvs - Old Fashioned Weigela	48.00	
32 93 33 00-0782	EA		30" B&B Weigela florida & cvs - Old Fashioned Weigela	54.40	
32 93 33 00-0783	EA		36" B&B Weigela florida & cvs - Old Fashioned Weigela	60.80	
32 93 33 00-0784	EA		42" B&B Weigela florida & cvs - Old Fashioned Weigela	70.40	
32 93 33 00-0785	EA		48" B&B Weigela florida & cvs - Old Fashioned Weigela	80.00	
32 93 33 00-0786	EA		1 Gallon Xylosma congestum - Shiny Xylosma	11.00	
32 93 33 00-0787	EA		5 Gallon Xylosma congestum - Shiny Xylosma	31.11	
32 93 33 00-0788	EA		15 Gallon Xylosma congestum - Shiny Xylosma	136.82	
32 93 33 00-0789	EA		1 Gallon Yucca aloifolia - Spanish Bayonet	9.28	
32 93 33 00-0790	EA		3 Gallon Yucca aloifolia - Spanish Bayonet	24.58	
32 93 33 00-0791	EA		1 Gallon Yucca filamentosa - Adams Needle	12.89	
32 93 33 00-0792	EA		3 Gallon Yucca filamentosa - Adams Needle	25.09	
32 93 33 00-0793	EA		5 Gallon Yucca filamentosa - Adams Needle	39.71	
32 93 33 00-0794	EA		5 Gallon Border Forsythia - Goldenbells	44.17	
32 93 33 00-0795	EA		2' To 3' Border Forsythia - Goldenbells	36.44	
32 93 33 00-0796	EA		3' To 4' Border Forsythia - Goldenbells	46.06	
32 93 33 00-0797	EA		4' To 5' Border Forsythia - Goldenbells	57.41	
32 93 33 00-0798	EA		5' To 6' Border Forsythia - Goldenbells	68.92	
32 93 33 00-0799	EA		6' To 8' Border Forsythia - Goldenbells	94.71	
32 93 33 00-0800	EA		3' Juniperus chinensis - Columnar Chinese Juniper	93.84	
32 93 33 00-0801	EA		4' Juniperus chinensis - Columnar Chinese Juniper	128.80	
32 93 33 00-0802	EA		5' Juniperus chinensis - Columnar Chinese Juniper	202.39	
32 93 33 00-0803	EA		6' Juniperus chinensis - Columnar Chinese Juniper	235.51	
32 93 33 00-0804	EA		7' Juniperus chinensis - Columnar Chinese Juniper	309.11	
32 93 33 00-0805	EA		2 Gallon Chrysobalanus icaco - Cocoplum Red Tip	18.40	
32 93 33 00-0806	EA		3 Gallon Chrysobalanus icaco - Cocoplum Red Tip	25.76	
32 93 33 00-0807	EA		5 Gallon Chrysobalanus icaco - Cocoplum Red Tip	62.37	
32 93 33 00-0808	EA		2 Gallon Chrysobalanus icaco - Cocoplum Green Tip	18.40	
32 93 33 00-0809	EA		3 Gallon Chrysobalanus icaco - Cocoplum Green Tip	25.76	

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Trees (32 93)

Note: (cvs = cultivar) materials only. See CSI section 32 93 83 00-0001 for installation and planting of trees.

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**32 93 43 00-0001****Deciduous Ornamental Trees** (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0002	EA	6' Clump Form Acer ginnala & cvs - Amur Maple.....	294.20	
32 93 43 00-0003	EA	7' Clump Form Acer ginnala & cvs - Amur Maple.....	359.58	
32 93 43 00-0004	EA	8' Clump Form Acer ginnala & cvs - Amur Maple.....	408.61	
32 93 43 00-0005	EA	10' Clump Form Acer ginnala & cvs - Amur Maple.....	473.99	
32 93 43 00-0006	EA	12' Clump Form Acer ginnala & cvs - Amur Maple.....	539.36	
32 93 43 00-0007	EA	14' Clump Form Acer ginnala & cvs - Amur Maple.....	637.43	
32 93 43 00-0008	EA	1-1/2" To 2" Caliper Acer griseum - Paperbark Maple.....	238.78	
32 93 43 00-0009	EA	2" To 2-1/2" Caliper Acer griseum - Paperbark Maple.....	1,046.04	
32 93 43 00-0010	EA	2-1/2" To 3" Caliper Acer griseum - Paperbark Maple.....	1,307.55	
32 93 43 00-0011	EA	5' Clump Form Acer griseum - Paperbark Maple.....	261.51	
32 93 43 00-0012	EA	1-1/2" Caliper Aesculus californica - California Buckeye.....	653.77	
32 93 43 00-0013	EA	2" Caliper Aesculus californica - California Buckeye.....	849.91	
32 93 43 00-0014	EA	2-1/2" Caliper Aesculus californica - California Buckeye.....	980.66	
32 93 43 00-0015	EA	3" Caliper Aesculus californica - California Buckeye.....	1,111.42	
32 93 43 00-0016	EA	3-1/2" Caliper Aesculus californica - California Buckeye.....	1,307.55	
32 93 43 00-0017	EA	36" B&B Amelanchier alnifolia & cvs - Saskatoon Serviceberry.....	128.00	
32 93 43 00-0018	EA	48" B&B Amelanchier alnifolia & cvs - Saskatoon Serviceberry.....	160.00	
32 93 43 00-0019	EA	60" B&B Amelanchier alnifolia & cvs - Saskatoon Serviceberry.....	198.39	
32 93 43 00-0020	EA	60" B&B Amelanchier arborea & cvs - Downy Serviceberry.....	160.00	
32 93 43 00-0021	EA	72" B&B Amelanchier arborea & cvs - Downy Serviceberry.....	191.99	
32 93 43 00-0022	EA	7' B&B Amelanchier arborea & cvs - Downy Serviceberry.....	223.99	
32 93 43 00-0023	EA	8' B&B Amelanchier arborea & cvs - Downy Serviceberry.....	255.99	
32 93 43 00-0024	EA	5' B&B Amelanchier canadensis & cvs - Shadblow Serviceberry.....	287.99	
32 93 43 00-0025	EA	6' B&B Amelanchier canadensis & cvs - Shadblow Serviceberry.....	319.99	
32 93 43 00-0026	EA	7' B&B Amelanchier canadensis & cvs - Shadblow Serviceberry.....	367.99	
32 93 43 00-0027	EA	8' B&B Amelanchier canadensis & cvs - Shadblow Serviceberry.....	415.99	
32 93 43 00-0028	EA	9' B&B Amelanchier canadensis & cvs - Shadblow Serviceberry.....	479.99	
32 93 43 00-0029	EA	7' B&B Amelanchier laevis & cvs - Allegheny Serviceberry.....	367.99	
32 93 43 00-0030	EA	8' B&B Amelanchier laevis & cvs - Allegheny Serviceberry.....	431.99	
32 93 43 00-0031	EA	9' B&B Amelanchier laevis & cvs - Allegheny Serviceberry.....	495.99	
32 93 43 00-0032	EA	10' B&B Amelanchier laevis & cvs - Allegheny Serviceberry.....	543.99	
32 93 43 00-0033	EA	30" B&B Amelanchier stolonifera & cvs - Running Serviceberry.....	128.00	
32 93 43 00-0034	EA	48" B&B Amelanchier stolonifera & cvs - Running Serviceberry.....	271.99	
32 93 43 00-0035	EA	60" B&B Amelanchier stolonifera & cvs - Running Serviceberry.....	351.99	
32 93 43 00-0036	EA	2' To 4' Amelemchier - Juneberry.....	38.96	
32 93 43 00-0037	EA	4' To 5' Amelemchier - Juneberry.....	40.87	
32 93 43 00-0038	EA	5' To 6' Amelemchier - Juneberry.....	48.66	
32 93 43 00-0039	EA	6' To 8' Amelemchier - Juneberry.....	58.06	
32 93 43 00-0040	EA	6' Cercis occidentalis - Western Redbud.....	183.07	
32 93 43 00-0041	EA	8' Cercis occidentalis - Western Redbud.....	251.87	
32 93 43 00-0042	EA	2-1/2" Caliper Cercis occidentalis - Western Redbud.....	518.77	
32 93 43 00-0043	EA	3" Caliper Cercis occidentalis - Western Redbud.....	631.55	
32 93 43 00-0044	EA	2' To 3' Magnolia virginiana - Sweetbay Magnolia.....	61.95	
32 93 43 00-0045	EA	3' To 4' Magnolia virginiana - Sweetbay Magnolia.....	92.92	
32 93 43 00-0046	EA	4' To 5' Magnolia virginiana - Sweetbay Magnolia.....	116.16	
32 93 43 00-0047	EA	5' To 6' Magnolia virginiana - Sweetbay Magnolia.....	144.67	
32 93 43 00-0048	EA	4' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia.....	245.17	
32 93 43 00-0049	EA	5' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia.....	326.89	
32 93 43 00-0050	EA	6' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia.....	424.95	
32 93 43 00-0051	EA	7' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia.....	473.99	
32 93 43 00-0052	EA	8' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia.....	572.05	
32 93 43 00-0053	EA	9' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia.....	637.43	
32 93 43 00-0054	EA	4' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia.....	245.17	
32 93 43 00-0055	EA	5' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia.....	326.89	
32 93 43 00-0056	EA	6' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia.....	424.95	
32 93 43 00-0057	EA	7' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia.....	473.99	
32 93 43 00-0058	EA	8' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia.....	572.05	
32 93 43 00-0059	EA	9' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia.....	637.43	
32 93 43 00-0060	EA	1 Gallon Platanus racemosa, Multi Trunk - Western Sycamore.....	5.70	
32 93 43 00-0061	EA	5 Gallon Platanus racemosa, Multi Trunk - Western Sycamore.....	24.15	
32 93 43 00-0062	EA	20 Gallon Prunus subhirtella - Flowering Cherry.....	229.85	
32 93 43 00-0063	EA	1-1/2" To 2" Caliper Prunus subhirtella - Flowering Cherry.....	237.60	
32 93 43 00-0064	EA	2" To 2-1/2" Caliper Prunus subhirtella - Flowering Cherry.....	296.96	
32 93 43 00-0065	EA	3-1/2" To 4" Caliper Prunus subhirtella - Flowering Cherry.....	619.74	
32 93 43 00-0066	EA	3" To 3-1/2" Caliper Prunus subhirtella - Flowering Cherry.....	477.65	
32 93 43 00-0067	EA	4" To 5" Caliper Prunus subhirtella - Flowering Cherry.....	929.60	
32 93 43 00-0068	EA	5 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	59.37	
32 93 43 00-0069	EA	15 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	162.62	
32 93 43 00-0070	EA	20 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	211.78	
32 93 43 00-0071	EA	5' To 6' Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	67.11	
32 93 43 00-0072	EA	6' To 8' Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	129.06	
32 93 43 00-0073	EA	1-1/2" To 2" Caliper Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	237.60	
32 93 43 00-0074	EA	2" To 2-1/2" Caliper Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	284.05	
32 93 43 00-0075	EA	1-1/2" To 1-3/4" Caliper Prunus subhirtella - Weeping Cherry.....	185.97	
32 93 43 00-0076	EA	1-1/4" To 1-1/2" Caliper Prunus subhirtella - Weeping Cherry.....	154.87	
32 93 43 00-0077	EA	1-3/4" To 2" Caliper Prunus subhirtella - Weeping Cherry.....	227.15	
32 93 43 00-0078	EA	2" To 2-1/2" Caliper Prunus subhirtella - Weeping Cherry.....	271.15	
32 93 43 00-0079	EA	2-1/2" To 3" Caliper Prunus subhirtella - Weeping Cherry.....	348.59	



Exterior Improvements 32

Planting 32 90

Plants 32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0080	EA		15 Gallon Pyrus Calleryana x 'Aristocrat' - Flowering Pear	179.46	
32 93 43 00-0081	EA		20 Gallon Pyrus Calleryana x 'Aristocrat' - Flowering Pear	224.32	
32 93 43 00-0082	EA		1-1/2" To 2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	233.29	
32 93 43 00-0083	EA		2" To 2-1/2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	278.15	
32 93 43 00-0084	EA		2-1/2" To 3" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	376.86	
32 93 43 00-0085	EA		3" To 3-1/2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	493.50	
32 93 43 00-0086	EA		3-1/2" To 4" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	628.09	
32 93 43 00-0087	EA		15 Gallon Pyrus Calleryana x "Bradford" - Flowering Pear	179.46	
32 93 43 00-0088	EA		20 Gallon Pyrus Calleryana x "Bradford" - Flowering Pear	224.32	
32 93 43 00-0089	EA		1-1/2" To 2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	152.54	
32 93 43 00-0090	EA		2" To 2-1/2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	233.29	
32 93 43 00-0091	EA		2-1/2" To 3" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	277.91	
32 93 43 00-0092	EA		3" To 3-1/2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	376.86	
32 93 43 00-0093	EA		3-1/2" To 4" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	493.50	
32 93 43 00-0094	EA		1-1/2" Caliper Pyrus calleryana & cvs - Callery Pear	326.89	
32 93 43 00-0095	EA		2" Caliper Pyrus calleryana & cvs - Callery Pear	408.61	
32 93 43 00-0096	EA		2-1/2" Caliper Pyrus calleryana & cvs - Callery Pear	506.67	
32 93 43 00-0097	EA		3" Caliper Pyrus calleryana & cvs - Callery Pear	572.05	
32 93 43 00-0098	EA		3-1/2" Caliper Pyrus calleryana & cvs - Callery Pear	637.43	
32 93 43 00-0099	EA		4" Caliper Pyrus calleryana & cvs - Callery Pear	817.22	
32 93 43 00-0100	EA		1 Gallon Ribes aureum - Golden Currant	4.99	
32 93 43 00-0101	EA		5 Gallon Ribes aureum - Golden Currant	14.27	
32 93 43 00-0102	EA		1 Gallon Ribes sanguineum - Red Flowering Currant	4.99	
32 93 43 00-0103	EA		5 Gallon Ribes sanguineum - Red Flowering Currant	14.27	
32 93 43 00-0104	EA		1 Gallon Ribes viburnifolium - Evergreen Currant	4.99	
32 93 43 00-0105	EA		5 Gallon Ribes viburnifolium - Evergreen Currant	14.27	
32 93 43 00-0106	EA		8" Cassia leptophlia - Gold Medallion Tree	269.70	
32 93 43 00-0107	EA		10" Cassia leptophlia - Gold Medallion Tree	342.31	
32 93 43 00-0108	EA		12" Cassia leptophlia - Gold Medallion Tree	414.92	
32 93 43 00-0109	EA		6" Magnolia grandiflora 'St. Mary's'	311.19	
32 93 43 00-0110	EA		8" Magnolia grandiflora 'St. Mary's'	549.77	
32 93 43 00-0111	EA		10" Magnolia grandiflora 'St. Mary's'	690.84	
32 93 43 00-0112	EA		12" Magnolia grandiflora 'St. Mary's'	829.84	
32 93 43 00-0113	EA		14" Magnolia grandiflora 'St. Mary's'	964.69	
32 93 43 00-0114	EA		16" Magnolia grandiflora 'St. Mary's'	1,141.03	
32 93 43 00-0115	EA		24" Box Magnolia grandiflora 'St. Mary's'	342.31	
32 93 43 00-0116	EA		6" Prunus cerasifera - Purple Leaf Plum	161.82	
32 93 43 00-0117	EA		8" Prunus cerasifera - Purple Leaf Plum	186.71	
32 93 43 00-0118	EA		10" Prunus cerasifera - Purple Leaf Plum	240.65	
32 93 43 00-0119	EA		24" Box Prunus cerasifera - Purple Leaf Plum	256.21	
32 93 43 00-0120	EA		30" Box Prunus cerasifera - Purple Leaf Plum	518.65	
32 93 43 00-0121	EA		36" Box Prunus cerasifera - Purple Leaf Plum	795.61	
32 93 43 00-0122	EA		6" Pittosporum phylliraeoides - Willow Pittosporum	338.16	
32 93 43 00-0123	EA		8" Pittosporum phylliraeoides - Willow Pittosporum	483.38	
32 93 43 00-0124	EA		10" Pittosporum phylliraeoides - Willow Pittosporum	578.81	
32 93 43 00-0125	EA		12" Pittosporum phylliraeoides - Willow Pittosporum	746.86	
32 93 43 00-0126	EA		6" Stenocarpus sinuatus - Firewheel Tree	497.90	
32 93 43 00-0127	EA		8" Stenocarpus sinuatus - Firewheel Tree	663.87	
32 93 43 00-0128	EA		10" Stenocarpus sinuatus - Firewheel Tree	829.84	
32 93 43 00-0129	EA		12" Stenocarpus sinuatus - Firewheel Tree	995.81	
32 93 43 00-0130	EA		24" Box Handroanthus impetiginosus (Tabebuia avellanedae) - Pink Trumpet Tree	237.73	
32 93 43 00-0131	EA		36" Box Handroanthus impetiginosus (Tabebuia avellanedae) - Pink Trumpet Tree	688.16	
32 93 43 00-0132	EA		1-1/2" Caliper Arbutus menziesii - Madrona	360.80	
32 93 43 00-0133	EA		2" Caliper Arbutus menziesii - Madrona	469.04	
32 93 43 00-0134	EA		2-1/2" Caliper Arbutus menziesii - Madrona	541.20	
32 93 43 00-0135	EA		3" Caliper Arbutus menziesii - Madrona	613.36	
32 93 43 00-0136	EA		3-1/2" Caliper Arbutus menziesii - Madrona	721.60	
32 93 43 00-0137	EA		1-1/2" Caliper Koelreuteria bipinnata - Chinese Flame Tree	248.95	
32 93 43 00-0138	EA		2" Caliper Koelreuteria bipinnata - Chinese Flame Tree	404.55	
32 93 43 00-0139	EA		2-1/2" Caliper Koelreuteria bipinnata - Chinese Flame Tree	497.90	
32 93 43 00-0140	EA		3" Caliper Koelreuteria bipinnata - Chinese Flame Tree	549.77	
32 93 43 00-0141	EA		24" Box Koelreuteria bipinnata - Chinese Flame Tree	242.73	
32 93 43 00-0142	EA		30" Box Koelreuteria bipinnata - Chinese Flame Tree	560.14	
32 93 43 00-0143	EA		36" Box Koelreuteria bipinnata - Chinese Flame Tree	876.52	
32 93 43 00-0144	EA		1-1/2" Cliber Koelreuteria paniculata - Golden Rain Tree	226.13	
32 93 43 00-0145	EA		2" Cliber Koelreuteria paniculata - Golden Rain Tree	367.20	
32 93 43 00-0146	EA		2-1/2" Cliber Koelreuteria paniculata - Golden Rain Tree	450.19	
32 93 43 00-0147	EA		3" Cliber Koelreuteria paniculata - Golden Rain Tree	508.28	
32 93 43 00-0148	EA		6" Magnolia grandiflora - Southern Magnolia	153.52	
32 93 43 00-0149	EA		7" Magnolia grandiflora - Southern Magnolia	232.36	
32 93 43 00-0150	EA		8" Magnolia grandiflora - Southern Magnolia	325.71	
32 93 43 00-0151	EA		9" Magnolia grandiflora - Southern Magnolia	433.59	
32 93 43 00-0152	EA		10" Magnolia grandiflora - Southern Magnolia	659.72	
32 93 43 00-0153	EA		24" Box Magnolia grandiflora - Southern Magnolia	269.70	
32 93 43 00-0154	EA		1-1/2" Caliper Tipuana tipu - Tipu Tree	321.56	
32 93 43 00-0155	EA		2" Caliper Tipuana tipu - Tipu Tree	419.07	
32 93 43 00-0156	EA		2-1/2" Caliper Tipuana tipu - Tipu Tree	531.10	
32 93 43 00-0157	EA		3" Caliper Tipuana tipu - Tipu Tree	612.01	
32 93 43 00-0158	EA		3-1/2" Caliper Tipuana tipu - Tipu Tree	900.38	
32 93 43 00-0159	EA		4" Caliper Tipuana tipu - Tipu Tree	1,203.27	
32 93 43 00-0160	EA		24" Box Tipuana tipu - Tipu Tree	242.73	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 43 00-0161	EA	6' Albizia julibrissin - Silk Tree.....	497.90	
32 93 43 00-0162	EA	8' Albizia julibrissin - Silk Tree.....	663.87	
32 93 43 00-0163	EA	10' Albizia julibrissin - Silk Tree.....	829.84	
32 93 43 00-0164	EA	12' Albizia julibrissin - Silk Tree.....	995.81	
32 93 43 00-0165	EA	6' Brachychiton acerifolius - Flame Tree.....	497.90	
32 93 43 00-0166	EA	8' Brachychiton acerifolius - Flame Tree.....	663.87	
32 93 43 00-0167	EA	10' Brachychiton acerifolius - Flame Tree.....	829.84	
32 93 43 00-0168	EA	12' Brachychiton acerifolius - Flame Tree.....	995.81	
32 93 43 00-0169	EA	1-1/2" Caliper Chilopsis linearis - Desert Willow.....	402.47	
32 93 43 00-0170	EA	2" Caliper Chilopsis linearis - Desert Willow.....	483.38	
32 93 43 00-0171	EA	2-1/2" Caliper Chilopsis linearis - Desert Willow.....	514.50	
32 93 43 00-0172	EA	3" Caliper Chilopsis linearis - Desert Willow.....	570.52	
32 93 43 00-0173	EA	5 Gallon Chionanthus retusus - Chinese Fringe Tree.....	20.75	
32 93 43 00-0174	EA	15 Gallon Chionanthus retusus - Chinese Fringe Tree.....	82.98	
32 93 43 00-0175	EA	24" Box Chionanthus retusus - Chinese Fringe Tree.....	414.92	
32 93 43 00-0176	EA	5 Gallon Calodendrum capense - Cape Chestnut.....	31.12	
32 93 43 00-0177	EA	15 Gallon Calodendrum capense - Cape Chestnut.....	124.48	
32 93 43 00-0178	EA	24" Box Calodendrum capense - Cape Chestnut.....	466.78	
32 93 43 00-0179	EA	6' Chionanthus virginicus - White Fringe Tree.....	248.95	
32 93 43 00-0180	EA	8' Chionanthus virginicus - White Fringe Tree.....	526.29	
32 93 43 00-0181	EA	10' Chionanthus virginicus - White Fringe Tree.....	733.04	
32 93 43 00-0182	EA	15 Gallon Geijera parvifolia - Australian Willow.....	225.55	
32 93 43 00-0183	EA	24" Box Geijera parvifolia - Australian Willow.....	464.26	
32 93 43 00-0184	EA	30" Box Geijera parvifolia - Australian Willow.....	864.62	
32 93 43 00-0185	EA	36" Box Geijera parvifolia - Australian Willow.....	1,240.54	
32 93 43 00-0186	EA	1-1/2" Caliper Ginkgo Biloba - Maidenhair Tree.....	669.14	
32 93 43 00-0187	EA	2" Caliper Ginkgo Biloba - Maidenhair Tree.....	932.28	
32 93 43 00-0188	EA	2-1/2" Caliper Ginkgo Biloba - Maidenhair Tree.....	1,124.00	
32 93 43 00-0189	EA	3" Caliper Ginkgo Biloba - Maidenhair Tree.....	1,311.96	
32 93 43 00-0190	EA	3-1/2" Caliper Ginkgo Biloba - Maidenhair Tree.....	1,717.95	
32 93 43 00-0191	EA	4" Caliper Ginkgo Biloba - Maidenhair Tree.....	1,834.49	
32 93 43 00-0192	EA	4-1/2" Caliper Ginkgo Biloba - Maidenhair Tree.....	1,954.78	
32 93 43 00-0193	EA	24" Box Ginkgo Biloba - Maidenhair Tree.....	610.87	
32 93 43 00-0194	EA	15 Gallon Sapium sebiferum - Chinese Tallow Tree.....	225.55	
32 93 43 00-0195	EA	24" Box Sapium sebiferum - Chinese Tallow Tree.....	827.02	
32 93 43 00-0196	EA	4' To 5' Lagerstroemia indica - Crape Myrtle.....	204.59	
32 93 43 00-0197	EA	6' Lagerstroemia indica - Crape Myrtle.....	447.34	
32 93 43 00-0198	EA	8' Lagerstroemia indica - Crape Myrtle.....	462.38	
32 93 43 00-0199	EA	10' Lagerstroemia indica - Crape Myrtle.....	560.12	
32 93 43 00-0200	EA	24" Box Lagerstroemia indica - Crape Myrtle.....	439.83	
32 93 43 00-0201	EA	5 Gallon Celtis Sinensis - Chinese Hackberry.....	30.44	
32 93 43 00-0202	EA	15 Gallon Celtis Sinensis - Chinese Hackberry.....	80.25	
32 93 43 00-0203	EA	24" Box Celtis Sinensis - Chinese Hackberry.....	262.90	
32 93 43 00-0204	EA	36" Box Celtis Sinensis - Chinese Hackberry.....	767.95	
32 93 43 00-0205	EA	5 Gallon Crataegus phaenopyrum - Washington Hawthorn.....	30.44	
32 93 43 00-0206	EA	15 Gallon Crataegus phaenopyrum - Washington Hawthorn.....	80.25	
32 93 43 00-0207	EA	24" Box Crataegus phaenopyrum - Washington Hawthorn.....	262.90	
32 93 43 00-0208	EA	36" Box Crataegus phaenopyrum - Washington Hawthorn.....	767.95	
32 93 43 00-0209	EA	1 Gallon Eucalyptus ficifolia - Red-Flowering Gum.....	8.99	
32 93 43 00-0210	EA	5 Gallon Eucalyptus ficifolia - Red-Flowering Gum.....	24.91	
32 93 43 00-0211	EA	15 Gallon Eucalyptus ficifolia - Red-Flowering Gum.....	109.31	
32 93 43 00-0212	EA	24" Box Eucalyptus ficifolia - Red-Flowering Gum.....	262.90	
32 93 43 00-0213	EA	36" Box Eucalyptus ficifolia - Red-Flowering Gum.....	691.85	
32 93 43 00-0214	EA	15 Gallon Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	67.80	
32 93 43 00-0215	EA	24" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	221.39	
32 93 43 00-0216	EA	36" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	588.07	
32 93 43 00-0217	EA	48" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	1,314.52	
32 93 43 00-0218	EA	5 Gallon Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	19.37	
32 93 43 00-0219	EA	15 Gallon Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	67.80	
32 93 43 00-0220	EA	24" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	221.39	
32 93 43 00-0221	EA	36" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	588.07	
32 93 43 00-0222	EA	48" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	1,314.52	
32 93 43 00-0223	EA	5 Gallon Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	19.37	
32 93 43 00-0224	EA	15 Gallon Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	61.64	
32 93 43 00-0225	EA	24" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	221.39	
32 93 43 00-0226	EA	36" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	622.66	
32 93 43 00-0227	EA	48" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	1,591.26	
32 93 43 00-0228	EA	5 Gallon Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	19.37	
32 93 43 00-0229	EA	15 Gallon Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	61.64	
32 93 43 00-0230	EA	24" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	221.39	
32 93 43 00-0231	EA	36" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	622.66	
32 93 43 00-0232	EA	48" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	1,591.26	
32 93 43 00-0233	EA	5 Gallon Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	19.37	
32 93 43 00-0234	EA	15 Gallon Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	61.64	
32 93 43 00-0235	EA	24" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	221.39	
32 93 43 00-0236	EA	36" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	622.66	
32 93 43 00-0237	EA	48" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	1,591.26	
32 93 43 00-0238	EA	1 Gallon Pittosporum undulatum - Victorian Box.....	8.13	
32 93 43 00-0239	EA	5 Gallon Pittosporum undulatum - Victorian Box.....	17.52	
32 93 43 00-0240	EA	15 Gallon Pittosporum undulatum - Victorian Box.....	98.84	
32 93 43 00-0241	EA	24" Box Pittosporum undulatum - Victorian Box.....	237.73	



		Exterior Improvements	32
		Planting	32 90
		Plants	32 93

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 93 43 00-0242	EA		36" Box Pittosporum undulatum - Victorian Box	688.16	
32 93 43 00-0243	EA		48" Box Pittosporum undulatum - Victorian Box	1,564.00	
32 93 43 00-0244	EA		15 Gallon Prunus cerasifera 'Thundercloud' - Thundercloud Purple Leaf Plum	69.12	
32 93 43 00-0245	EA		24" Box Prunus cerasifera 'Thundercloud' - Thundercloud Purple Leaf Plum	249.00	

32 93 43 00-0246

Deciduous Shade Trees (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0247	EA		3-1/2" To 4" Caliper Acer palmatum - Bloodgood Japanese Maple	204.30	
32 93 43 00-0248	EA		4" To 4-1/2" Caliper Acer palmatum - Bloodgood Japanese Maple	250.44	
32 93 43 00-0249	EA		4-1/2" To 5" Caliper Acer palmatum - Bloodgood Japanese Maple	326.22	
32 93 43 00-0250	EA		5" To 6" Caliper Acer palmatum - Bloodgood Japanese Maple	422.88	
32 93 43 00-0251	EA		2' To 2-1/2' Acer palmatum - Japanese Maple	21.55	
32 93 43 00-0252	EA		4' To 5' Acer palmatum - Japanese Maple	45.25	
32 93 43 00-0253	EA		5' To 6' Acer palmatum - Japanese Maple	59.26	
32 93 43 00-0254	EA		6' To 7' Acer palmatum - Japanese Maple	107.74	
32 93 43 00-0255	EA		7' To 8' Acer palmatum - Japanese Maple	150.84	
32 93 43 00-0256	EA		8' To 10' Acer palmatum - Japanese Maple	193.94	
32 93 43 00-0257	EA		10' To 12' Acer palmatum - Japanese Maple	258.58	
32 93 43 00-0258	EA		2" Caliper Acer platanoides & cvs - Norway Maple	109.84	
32 93 43 00-0259	EA		2" Caliper Acer platanoides & cvs - Norway Maple	133.72	
32 93 43 00-0260	EA		3" Caliper Acer platanoides & cvs - Norway Maple	171.92	
32 93 43 00-0261	EA		3-1/2" Caliper Acer platanoides & cvs - Norway Maple	200.58	
32 93 43 00-0262	EA		4" Caliper Acer platanoides & cvs - Norway Maple	214.90	
32 93 43 00-0263	EA		4-1/2" Caliper Acer platanoides & cvs - Norway Maple	234.01	
32 93 43 00-0264	EA		5" Caliper Acer platanoides & cvs - Norway Maple	262.66	
32 93 43 00-0265	EA		2" Caliper Acer rubrum & cvs - Red Maple	105.06	
32 93 43 00-0266	EA		2-1/2" Caliper Acer rubrum & cvs - Red Maple	133.72	
32 93 43 00-0267	EA		3" Caliper Acer rubrum & cvs - Red Maple	171.92	
32 93 43 00-0268	EA		3-1/2" Caliper Acer rubrum & cvs - Red Maple	210.13	
32 93 43 00-0269	EA		4" Caliper Acer rubrum & cvs - Red Maple	238.78	
32 93 43 00-0270	EA		4-1/2" Caliper Acer rubrum & cvs - Red Maple	276.99	
32 93 43 00-0271	EA		5" Caliper Acer rubrum & cvs - Red Maple	310.42	
32 93 43 00-0272	EA		8' Clump Form Acer rubrum & cvs - Red Maple	128.94	
32 93 43 00-0273	EA		10' Clump Form Acer rubrum & cvs - Red Maple	171.92	
32 93 43 00-0274	EA		12' Clump Form Acer rubrum & cvs - Red Maple	200.58	
32 93 43 00-0275	EA		14' Clump Form Acer rubrum & cvs - Red Maple	229.23	
32 93 43 00-0276	EA		16' Clump Form Acer rubrum & cvs - Red Maple	257.89	
32 93 43 00-0277	EA		18' Clump Form Acer rubrum & cvs - Red Maple	286.54	
32 93 43 00-0278	EA		2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut	167.15	
32 93 43 00-0279	EA		2-1/2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut	186.25	
32 93 43 00-0280	EA		3" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut	210.13	
32 93 43 00-0281	EA		3-1/2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut	238.78	
32 93 43 00-0282	EA		4" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut	286.54	
32 93 43 00-0283	EA		2" Caliper Betula nigra - River Birch	119.39	
32 93 43 00-0284	EA		2-1/2" Caliper Betula nigra - River Birch	135.20	
32 93 43 00-0285	EA		3" Caliper Betula nigra - River Birch	152.82	
32 93 43 00-0286	EA		3-1/2" Caliper Betula nigra - River Birch	191.03	
32 93 43 00-0287	EA		4" Caliper Betula nigra - River Birch	214.90	
32 93 43 00-0288	EA		4-1/2" Caliper Betula nigra - River Birch	238.78	
32 93 43 00-0289	EA		5" Caliper Betula nigra - River Birch	262.66	
32 93 43 00-0290	EA		8' Clump Form Betula nigra - River Birch	109.84	
32 93 43 00-0291	EA		10' Clump Form Betula nigra - River Birch	124.17	
32 93 43 00-0292	EA		12' Clump Form Betula nigra - River Birch	143.27	
32 93 43 00-0293	EA		14' Clump Form Betula nigra - River Birch	167.15	
32 93 43 00-0294	EA		16' Clump Form Betula nigra - River Birch	191.03	
32 93 43 00-0295	EA		12' Clump Form Betula platyphylla japonica & cvs - Asian White Birch	143.27	
32 93 43 00-0296	EA		14' Clump Form Betula platyphylla japonica & cvs - Asian White Birch	171.92	
32 93 43 00-0297	EA		16' Clump Form Betula platyphylla japonica & cvs - Asian White Birch	200.58	
32 93 43 00-0298	EA		18' Clump Form Betula platyphylla japonica & cvs - Asian White Birch	238.78	
32 93 43 00-0299	EA		20' Clump Form Betula platyphylla japonica & cvs - Asian White Birch	248.33	
32 93 43 00-0300	EA		2" Caliper Carpinus betulus & cvs - European Hornbeam	191.03	
32 93 43 00-0301	EA		2-1/2" Caliper Carpinus betulus & cvs - European Hornbeam	214.90	
32 93 43 00-0302	EA		3" Caliper Carpinus betulus & cvs - European Hornbeam	248.33	
32 93 43 00-0303	EA		3-1/2" Caliper Carpinus betulus & cvs - European Hornbeam	300.87	
32 93 43 00-0304	EA		6' Clump Form Carpinus betulus & cvs - European Hornbeam	85.96	
32 93 43 00-0305	EA		7' Clump Form Carpinus betulus & cvs - European Hornbeam	119.39	
32 93 43 00-0306	EA		8' Clump Form Carpinus betulus & cvs - European Hornbeam	148.05	
32 93 43 00-0307	EA		2" Caliper Catalpa speciosa - Western Catalpa	105.06	
32 93 43 00-0308	EA		2-1/2" Caliper Catalpa speciosa - Western Catalpa	143.27	
32 93 43 00-0309	EA		3" Caliper Catalpa speciosa - Western Catalpa	186.25	
32 93 43 00-0310	EA		3-1/2" Caliper Catalpa speciosa - Western Catalpa	224.46	
32 93 43 00-0311	EA		4" Caliper Catalpa speciosa - Western Catalpa	257.89	
32 93 43 00-0312	EA		8' Clump Form Corylus cornuta californica - Western Filbert	133.72	
32 93 43 00-0313	EA		10' Clump Form Corylus cornuta californica - Western Filbert	162.37	
32 93 43 00-0314	EA		12' Clump Form Corylus cornuta californica - Western Filbert	191.03	
32 93 43 00-0315	EA		1-1/2" Caliper Diospyros - Persimmon	85.96	
32 93 43 00-0316	EA		2" Caliper Diospyros - Persimmon	105.06	
32 93 43 00-0317	EA		2-1/2" Caliper Diospyros - Persimmon	133.72	
32 93 43 00-0318	EA		3" Caliper Diospyros - Persimmon	167.15	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 43 00-0319	EA	3-1/2" Caliper Diospyros - Persimmon	200.58	
32 93 43 00-0320	EA	2" Caliper Fagus sylvatica & cvs - European Beech	214.90	
32 93 43 00-0321	EA	2-1/2" Caliper Fagus sylvatica & cvs - European Beech	257.89	
32 93 43 00-0322	EA	3" Caliper Fagus sylvatica & cvs - European Beech	310.42	
32 93 43 00-0323	EA	3-1/2" Caliper Fagus sylvatica & cvs - European Beech	343.85	
32 93 43 00-0324	EA	4" Caliper Fagus sylvatica & cvs - European Beech	405.93	
32 93 43 00-0325	EA	4-1/2" Caliper Fagus sylvatica & cvs - European Beech	525.32	
32 93 43 00-0326	EA	5" Caliper Fagus sylvatica & cvs - European Beech	620.83	
32 93 43 00-0327	EA	2" Caliper Fraxinus americana & cvs - White Ash	119.39	
32 93 43 00-0328	EA	2-1/2" Caliper Fraxinus americana & cvs - White Ash	143.27	
32 93 43 00-0329	EA	3" Caliper Fraxinus americana & cvs - White Ash	181.47	
32 93 43 00-0330	EA	3-1/2" Caliper Fraxinus americana & cvs - White Ash	219.68	
32 93 43 00-0331	EA	4" Caliper Fraxinus americana & cvs - White Ash	257.89	
32 93 43 00-0332	EA	4-1/2" Caliper Fraxinus americana & cvs - White Ash	286.54	
32 93 43 00-0333	EA	5" Caliper Fraxinus americana & cvs - White Ash	334.30	
32 93 43 00-0334	EA	1-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	167.15	
32 93 43 00-0335	EA	2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	186.25	
32 93 43 00-0336	EA	2-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	210.13	
32 93 43 00-0337	EA	3" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	234.01	
32 93 43 00-0338	EA	3-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	262.66	
32 93 43 00-0339	EA	4" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	286.54	
32 93 43 00-0340	EA	4-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	429.81	
32 93 43 00-0341	EA	5" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	477.57	
32 93 43 00-0342	EA	2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	114.62	
32 93 43 00-0343	EA	2-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	143.27	
32 93 43 00-0344	EA	3" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	171.92	
32 93 43 00-0345	EA	3-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	200.58	
32 93 43 00-0346	EA	4" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	229.23	
32 93 43 00-0347	EA	4-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	257.89	
32 93 43 00-0348	EA	5" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	305.64	
32 93 43 00-0349	EA	10' - 12' Bursera Simaruba - Gumbo Limbo	60.41	
32 93 43 00-0350	EA	12' - 14' Bursera Simaruba - Gumbo Limbo	71.40	
32 93 43 00-0351	EA	14' - 16' Bursera Simaruba - Gumbo Limbo	98.86	
32 93 43 00-0352	EA	17' - 18' Bursera Simaruba - Gumbo Limbo	128.51	
32 93 43 00-0353	EA	19' - 20' Bursera Simaruba - Gumbo Limbo	142.79	
32 93 43 00-0354	EA	21' - 22' Bursera Simaruba - Gumbo Limbo	169.15	
32 93 43 00-0355	EA	1-1/2" Caliper Juglans californica - California Walnut	114.62	
32 93 43 00-0356	EA	2" Caliper Juglans californica - California Walnut	133.72	
32 93 43 00-0357	EA	2-1/2" Caliper Juglans californica - California Walnut	167.15	
32 93 43 00-0358	EA	3" Caliper Juglans californica - California Walnut	210.13	
32 93 43 00-0359	EA	3-1/2" Caliper Juglans californica - California Walnut	257.89	
32 93 43 00-0360	EA	4" Caliper Juglans californica - California Walnut	310.42	
32 93 43 00-0361	EA	4-1/2" Caliper Juglans californica - California Walnut	358.17	
32 93 43 00-0362	EA	5" Caliper Juglans californica - California Walnut	405.93	
32 93 43 00-0363	EA	5 Gallon Koelreuteria Paniculata - Goldenrain Tree	12.93	
32 93 43 00-0364	EA	15 Gallon Koelreuteria Paniculata - Goldenrain Tree	32.32	
32 93 43 00-0365	EA	20 Gallon Koelreuteria Paniculata - Goldenrain Tree	64.65	
32 93 43 00-0366	EA	55 Gallon Koelreuteria Paniculata - Goldenrain Tree	84.04	
32 93 43 00-0367	EA	1-1/2" To 2" Caliper Koelreuteria Paniculata - Goldenrain Tree	61.41	
32 93 43 00-0368	EA	2" To 2-1/2" Caliper Koelreuteria Paniculata - Goldenrain Tree	74.34	
32 93 43 00-0369	EA	2-1/2" To 3" Caliper Koelreuteria Paniculata - Goldenrain Tree	103.43	
32 93 43 00-0370	EA	1-1/2" Caliper Liquidambar styraciflua - American Sweetgum	152.82	
32 93 43 00-0371	EA	2" Caliper Liquidambar styraciflua - American Sweetgum	191.03	
32 93 43 00-0372	EA	2-1/2" Caliper Liquidambar styraciflua - American Sweetgum	238.78	
32 93 43 00-0373	EA	3" Caliper Liquidambar styraciflua - American Sweetgum	286.54	
32 93 43 00-0374	EA	3-1/2" Caliper Liquidambar styraciflua - American Sweetgum	334.30	
32 93 43 00-0375	EA	1-1/2" Caliper Liriodendron tulipifera - Tulip Tree	152.82	
32 93 43 00-0376	EA	2" Caliper Liriodendron tulipifera - Tulip Tree	210.13	
32 93 43 00-0377	EA	2-1/2" Caliper Liriodendron tulipifera - Tulip Tree	248.33	
32 93 43 00-0378	EA	3" Caliper Liriodendron tulipifera - Tulip Tree	286.54	
32 93 43 00-0379	EA	3-1/2" Caliper Liriodendron tulipifera - Tulip Tree	324.74	
32 93 43 00-0380	EA	8' Clump Form Liriodendron tulipifera - Tulip Tree	114.62	
32 93 43 00-0381	EA	10' Clump Form Liriodendron tulipifera - Tulip Tree	205.35	
32 93 43 00-0382	EA	12' Clump Form Liriodendron tulipifera - Tulip Tree	248.33	
32 93 43 00-0383	EA	1-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	152.82	
32 93 43 00-0384	EA	2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	191.03	
32 93 43 00-0385	EA	2-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	238.78	
32 93 43 00-0386	EA	3" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	286.54	
32 93 43 00-0387	EA	3-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	334.30	
32 93 43 00-0388	EA	4' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum	66.86	
32 93 43 00-0389	EA	5' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum	76.41	
32 93 43 00-0390	EA	6' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum	90.74	
32 93 43 00-0391	EA	7' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum	114.62	
32 93 43 00-0392	EA	8' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum	143.27	
32 93 43 00-0393	EA	30" Box Platanus Occidentalis - Buttonwood Sycamore	207.48	
32 93 43 00-0394	EA	36" Box Platanus Occidentalis - Buttonwood Sycamore	301.79	
32 93 43 00-0395	EA	42" Box Platanus occidentalis - Buttonwood Sycamore	448.93	
32 93 43 00-0396	EA	1-1/2" To 2" Caliper Platanus occidentalis - Buttonwood Sycamore	69.42	
32 93 43 00-0397	EA	2" To 2-1/2" Caliper Platanus occidentalis - Buttonwood Sycamore	83.00	
32 93 43 00-0398	EA	2-1/2" To 3" Caliper Platanus occidentalis - Buttonwood Sycamore	113.17	
32 93 43 00-0399	EA	3" To 3-1/2" Caliper Platanus occidentalis - Buttonwood Sycamore	137.34	



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 93 43 00-0400	EA	8' To 10' Platanus occidentalis - Green Or Silver Buttonwood		57.12	
32 93 43 00-0401	EA	10' To 12' Platanus occidentalis - Green Or Silver Buttonwood		71.40	
32 93 43 00-0402	EA	12' To 14' Platanus occidentalis - Green Or Silver Buttonwood		126.32	
32 93 43 00-0403	EA	16' To 18' Platanus occidentalis - Green Or Silver Buttonwood		181.24	
32 93 43 00-0404	EA	2" Caliper Platanus x acerifolia & cvs - London Planetree		114.62	
32 93 43 00-0405	EA	2-1/2" Caliper Platanus x acerifolia & cvs - London Planetree		138.49	
32 93 43 00-0406	EA	3" Caliper Platanus x acerifolia & cvs - London Planetree		167.15	
32 93 43 00-0407	EA	3-1/2" Caliper Platanus x acerifolia & cvs - London Planetree		200.58	
32 93 43 00-0408	EA	4" Caliper Platanus x acerifolia & cvs - London Planetree		238.78	
32 93 43 00-0409	EA	2" Caliper Populus alba & cvs - White Poplar		114.62	
32 93 43 00-0410	EA	2-1/2" Caliper Populus alba & cvs - White Poplar		133.72	
32 93 43 00-0411	EA	3" Caliper Populus alba & cvs - White Poplar		152.82	
32 93 43 00-0412	EA	3-1/2" Caliper Populus alba & cvs - White Poplar		181.47	
32 93 43 00-0413	EA	4" Caliper Populus alba & cvs - White Poplar		200.58	
32 93 43 00-0414	EA	4-1/2" Caliper Populus alba & cvs - White Poplar		229.23	
32 93 43 00-0415	EA	2" Caliper Populus deltoides & cvs - Eastern Cottonwood		105.06	
32 93 43 00-0416	EA	2-1/2" Caliper Populus deltoides & cvs - Eastern Cottonwood		138.49	
32 93 43 00-0417	EA	3" Caliper Populus deltoides & cvs - Eastern Cottonwood		167.15	
32 93 43 00-0418	EA	3-1/2" Caliper Populus deltoides & cvs - Eastern Cottonwood		200.58	
32 93 43 00-0419	EA	4" Caliper Populus deltoides & cvs - Eastern Cottonwood		238.78	
32 93 43 00-0420	EA	2" Caliper Quercus palustris - Pin Oak		105.06	
32 93 43 00-0421	EA	2-1/2" Caliper Quercus palustris - Pin Oak		143.27	
32 93 43 00-0422	EA	3" Caliper Quercus palustris - Pin Oak		186.25	
32 93 43 00-0423	EA	3-1/2" Caliper Quercus palustris - Pin Oak		214.90	
32 93 43 00-0424	EA	4" Caliper Quercus palustris - Pin Oak		248.33	
32 93 43 00-0425	EA	4-1/2" Caliper Quercus palustris - Pin Oak		281.76	
32 93 43 00-0426	EA	5" Caliper Quercus palustris - Pin Oak		310.42	
32 93 43 00-0427	EA	2" Caliper Quercus shumardii - Shumard Oak		162.37	
32 93 43 00-0428	EA	2-1/2" Caliper Quercus shumardii - Shumard Oak		205.35	
32 93 43 00-0429	EA	3" Caliper Quercus shumardii - Shumard Oak		238.78	
32 93 43 00-0430	EA	3-1/2" Caliper Quercus shumardii - Shumard Oak		286.54	
32 93 43 00-0431	EA	4" Caliper Quercus shumardii - Shumard Oak		334.30	
32 93 43 00-0432	EA	4-1/2" Caliper Quercus shumardii - Shumard Oak		382.05	
32 93 43 00-0433	EA	5" Caliper Quercus shumardii - Shumard Oak		429.81	
32 93 43 00-0434	EA	24" Box Salix babylonica - Weeping Willow		120.71	
32 93 43 00-0435	EA	36" Box Salix babylonica - Weeping Willow		301.79	
32 93 43 00-0436	EA	1-1/2" To 2" Caliper Salix babylonica - Weeping Willow		69.42	
32 93 43 00-0437	EA	2" To 2-1/2" Caliper Salix babylonica - Weeping Willow		83.00	
32 93 43 00-0438	EA	2-1/2" To 3" Caliper Salix babylonica - Weeping Willow		90.54	
32 93 43 00-0439	EA	2' Thuja occidentalis - American Arborvitae		16.37	
32 93 43 00-0440	EA	2-1/2' Thuja occidentalis - American Arborvitae		17.68	
32 93 43 00-0441	EA	3' Thuja occidentalis - American Arborvitae		25.26	
32 93 43 00-0442	EA	4' Thuja occidentalis - American Arborvitae		34.71	
32 93 43 00-0443	EA	5' Thuja occidentalis - American Arborvitae		48.33	
32 93 43 00-0444	EA	6' Thuja occidentalis - American Arborvitae		67.00	
32 93 43 00-0445	EA	7' Thuja occidentalis - American Arborvitae		81.28	
32 93 43 00-0446	EA	8' Thuja occidentalis - American Arborvitae		114.23	
32 93 43 00-0447	EA	2" Caliper Tilia cordata & cvs - Littleleaf Linden		120.11	
32 93 43 00-0448	EA	2-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden		145.08	
32 93 43 00-0449	EA	3" Caliper Tilia cordata & cvs - Littleleaf Linden		167.15	
32 93 43 00-0450	EA	3-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden		205.35	
32 93 43 00-0451	EA	4" Caliper Tilia cordata & cvs - Littleleaf Linden		234.01	
32 93 43 00-0452	EA	4-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden		262.66	
32 93 43 00-0453	EA	5" Caliper Tilia cordata & cvs - Littleleaf Linden		291.31	
32 93 43 00-0454	EA	2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm		133.72	
32 93 43 00-0455	EA	2-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm		152.82	
32 93 43 00-0456	EA	3" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm		167.15	
32 93 43 00-0457	EA	3-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm		181.47	
32 93 43 00-0458	EA	4" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm		200.58	
32 93 43 00-0459	EA	4-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm		238.78	
32 93 43 00-0460	EA	5" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm		281.76	
32 93 43 00-0461	EA	2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm		152.82	
32 93 43 00-0462	EA	2-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm		167.15	
32 93 43 00-0463	EA	3" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm		181.47	
32 93 43 00-0464	EA	3-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm		200.58	
32 93 43 00-0465	EA	4" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm		238.78	
32 93 43 00-0466	EA	4-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm		281.76	
32 93 43 00-0467	EA	5" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm		324.74	
32 93 43 00-0468	EA	2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm		152.82	
32 93 43 00-0469	EA	2-1/2" Mary-Louise Parker Ulmus x 'Regal' - Regal Hybrid Elm		167.15	
32 93 43 00-0470	EA	3" Caliper Ulmus x 'Regal' - Regal Hybrid Elm		181.47	
32 93 43 00-0471	EA	3-1/2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm		200.58	
32 93 43 00-0472	EA	4" Caliper Ulmus x 'Regal' - Regal Hybrid Elm		238.78	
32 93 43 00-0473	EA	4-1/2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm		281.76	
32 93 43 00-0474	EA	5" Caliper Ulmus x 'Regal' - Regal Hybrid Elm		324.74	
32 93 43 00-0475	EA	1-1/2" To 2" Caliper Platanus acerifolia "Bloodgold" - London Plane		349.61	
32 93 43 00-0476	EA	2" To 2-1/2" Caliper Platanus acerifolia "Bloodgold" - London Plane		624.03	
32 93 43 00-0477	EA	2-1/2" To 3" Caliper Platanus acerifolia "Bloodgold" - London Plane		913.49	
32 93 43 00-0478	EA	3" To 3-1/2" Caliper Platanus acerifolia "Bloodgold" - London Plane		1,135.28	
32 93 43 00-0479	EA	3-1/2" To 4" Caliper Platanus acerifolia "Bloodgold" - London Plane		1,469.85	
32 93 43 00-0480	EA	4" To 5" Caliper Platanus acerifolia "Bloodgold" - London Plane		1,672.84	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 43 00-0481	EA	24" Box Platanus acerifolia "Bloodgold" - London Plane	439.83
32 93 43 00-0482	EA	1-1/2" Caliper Quercus suber - Cork Oak	526.29
32 93 43 00-0483	EA	2" Caliper Quercus suber - Cork Oak	729.28
32 93 43 00-0484	EA	2-1/2" Caliper Quercus suber - Cork Oak	932.28
32 93 43 00-0485	EA	3" Caliper Quercus suber - Cork Oak	1,165.35
32 93 43 00-0486	EA	3-1/2" Caliper Quercus suber - Cork Oak	1,748.03
32 93 43 00-0487	EA	4" Caliper Quercus suber - Cork Oak	2,255.52
32 93 43 00-0488	EA	4-1/2" Caliper Quercus suber - Cork Oak	2,932.18
32 93 43 00-0489	EA	1-1/2" Caliper Quercus ilex - Holly Oak	582.68
32 93 43 00-0490	EA	2" Caliper Quercus ilex - Holly Oak	785.67
32 93 43 00-0491	EA	2-1/2" Caliper Quercus ilex - Holly Oak	962.36
32 93 43 00-0492	EA	3" Caliper Quercus ilex - Holly Oak	1,165.35
32 93 43 00-0493	EA	3-1/2" Caliper Quercus ilex - Holly Oak	1,748.03
32 93 43 00-0494	EA	4" Caliper Quercus ilex - Holly Oak	2,255.52

32 93 43 00-0495**Evergreen Trees** (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0496	EA	2' To 3' Cedrus atlantica - Blue Atlas Cedar	16.54
32 93 43 00-0497	EA	3' To 4' Cedrus atlantica - Blue Atlas Cedar	26.59
32 93 43 00-0498	EA	4' To 5' Cedrus atlantica - Blue Atlas Cedar	39.51
32 93 43 00-0499	EA	5' To 6' Cedrus atlantica - Blue Atlas Cedar	53.15
32 93 43 00-0500	EA	7' To 8' Cedrus atlantica - Blue Atlas Cedar	75.47
32 93 43 00-0501	EA	6' To 8' Cedrus deodara - Indian Cedar	68.28
32 93 43 00-0502	EA	8' To 10' Cedrus deodara - Indian Cedar	79.06
32 93 43 00-0503	EA	10' To 12' Cedrus deodara - Indian Cedar	107.79
32 93 43 00-0504	EA	12' To 14' Cedrus deodara - Indian Cedar	140.12
32 93 43 00-0505	EA	14' To 16' Cedrus deodara - Indian Cedar	179.67
32 93 43 00-0506	EA	15" To 18" Chamaecyparis obtusa - Compact Hinoki Cypress	21.34
32 93 43 00-0507	EA	18" To 24" Chamaecyparis obtusa - Compact Hinoki Cypress	32.02
32 93 43 00-0508	EA	2' To 3' Chamaecyparis obtusa - Compact Hinoki Cypress	49.80
32 93 43 00-0509	EA	3' To 4' Chamaecyparis obtusa - Compact Hinoki Cypress	85.38
32 93 43 00-0510	EA	5 Gallon Cupressocyparis leylandii - Leyland Cypress	11.74
32 93 43 00-0511	EA	15 Gallon Cupressocyparis leylandii - Leyland Cypress	46.97
32 93 43 00-0512	EA	4' To 5' Cupressocyparis leylandii - Leyland Cypress	20.55
32 93 43 00-0513	EA	5' To 6' Cupressocyparis leylandii - Leyland Cypress	26.42
32 93 43 00-0514	EA	6' To 7' Cupressocyparis leylandii - Leyland Cypress	41.10
32 93 43 00-0515	EA	24" Box Cupressocyparis leylandii - Leyland Cypress	99.81
32 93 43 00-0516	EA	1 Gallon Cupressus macrocarpa - Monterey Cypress	2.14
32 93 43 00-0517	EA	5 Gallon Cupressus macrocarpa - Monterey Cypress	9.64
32 93 43 00-0518	EA	15 Gallon Cupressus macrocarpa - Monterey Cypress	32.12
32 93 43 00-0519	EA	5 Gallon Cupressus sempervirens - Italian Cypress	11.05
32 93 43 00-0520	EA	15 Gallon Cupressus sempervirens - Italian Cypress	30.39
32 93 43 00-0521	EA	1 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	3.25
32 93 43 00-0522	EA	2 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	6.35
32 93 43 00-0523	EA	3 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	7.87
32 93 43 00-0524	EA	5 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	9.26
32 93 43 00-0525	EA	1 Gallon Juniperus - Blue Sargent Juniper	3.25
32 93 43 00-0526	EA	2 Gallon Juniperus - Blue Sargent Juniper	6.35
32 93 43 00-0527	EA	3 Gallon Juniperus - Blue Sargent Juniper	7.87
32 93 43 00-0528	EA	5 Gallon Juniperus - Blue Sargent Juniper	9.26
32 93 43 00-0529	EA	5 Gallon Juniperus - Compact Pfitzer Juniper	9.26
32 93 43 00-0530	EA	15" To 18" Juniperus - Compact Pfitzer Juniper	10.02
32 93 43 00-0531	EA	18" To 24" Juniperus - Compact Pfitzer Juniper	12.09
32 93 43 00-0532	EA	2' To 2 1/2' Juniperus - Compact Pfitzer Juniper	17.96
32 93 43 00-0533	EA	2-1/2' To 3' Juniperus - Compact Pfitzer Juniper	20.79
32 93 43 00-0534	EA	5' To 6' Juniperus - Fairview Juniper	30.97
32 93 43 00-0535	EA	1 Gallon Juniperus - Hollywood Juniper	4.14
32 93 43 00-0536	EA	5 Gallon Juniperus - Hollywood Juniper	11.54
32 93 43 00-0537	EA	15 Gallon Juniperus - Hollywood Juniper	48.91
32 93 43 00-0538	EA	4' To 5' Juniperus - Hollywood Juniper	32.33
32 93 43 00-0539	EA	5' To 6' Juniperus - Hollywood Juniper	41.65
32 93 43 00-0540	EA	1 Gallon Juniperus - Parson's Juniper	3.25
32 93 43 00-0541	EA	2 Gallon Juniperus - Parson's Juniper	6.42
32 93 43 00-0542	EA	3 Gallon Juniperus - Parson's Juniper	7.94
32 93 43 00-0543	EA	5 Gallon Juniperus - Parson's Juniper	9.39
32 93 43 00-0544	EA	5 Gallon Juniperus - Skyrocket Juniper	11.60
32 93 43 00-0545	EA	15 Gallon Juniperus - Skyrocket Juniper	49.39
32 93 43 00-0546	EA	2' To 3' Juniperus - Skyrocket Juniper	17.41
32 93 43 00-0547	EA	3' To 4' Juniperus - Skyrocket Juniper	24.66
32 93 43 00-0548	EA	4' To 5' Juniperus - Skyrocket Juniper	32.67
32 93 43 00-0549	EA	5' To 6' Juniperus - Skyrocket Juniper	42.14
32 93 43 00-0550	EA	6' To 8' Juniperus - Skyrocket Juniper	54.43
32 93 43 00-0551	EA	1 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	3.25
32 93 43 00-0552	EA	2 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	6.39
32 93 43 00-0553	EA	3 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	7.84
32 93 43 00-0554	EA	5 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	9.29
32 93 43 00-0555	EA	1 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	3.25
32 93 43 00-0556	EA	2 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	6.39
32 93 43 00-0557	EA	3 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	7.84



Exterior Improvements 32

Planting 32 90

Plants 32 93

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0558	EA		5 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper.....	9.29	
32 93 43 00-0559	EA		3' Pinus sylvestris - Scotch Pine	30.17	
32 93 43 00-0560	EA		4' Pinus sylvestris - Scotch Pine	41.88	
32 93 43 00-0561	EA		5' Pinus sylvestris - Scotch Pine	58.79	
32 93 43 00-0562	EA		6' Pinus sylvestris - Scotch Pine	81.56	
32 93 43 00-0563	EA		7' Pinus sylvestris - Scotch Pine	99.94	
32 93 43 00-0564	EA		8' Pinus sylvestris - Scotch Pine	141.08	
32 93 43 00-0565	EA		9' Pinus sylvestris - Scotch Pine	179.11	
32 93 43 00-0566	EA		10' Pinus sylvestris - Scotch Pine	206.67	
32 93 43 00-0567	EA		12' Pinus sylvestris - Scotch Pine	243.41	
32 93 43 00-0568	EA		14' Pinus sylvestris - Scotch Pine	275.56	
32 93 43 00-0569	EA		16' Pinus sylvestris - Scotch Pine	321.48	
32 93 43 00-0570	EA		1 Gallon Pinus thunbergiana - Japanese Black Pine	3.25	
32 93 43 00-0571	EA		5 Gallon Pinus thunbergiana - Japanese Black Pine	11.54	
32 93 43 00-0572	EA		15 Gallon Pinus thunbergiana - Japanese Black Pine	37.37	
32 93 43 00-0573	EA		2' To 3' Pinus thunbergiana - Japanese Black Pine	15.82	
32 93 43 00-0574	EA		3' To 4' Pinus thunbergiana - Japanese Black Pine	20.10	
32 93 43 00-0575	EA		4' To 5' Pinus thunbergiana - Japanese Black Pine	30.19	
32 93 43 00-0576	EA		5' To 6' Pinus thunbergiana - Japanese Black Pine	58.92	
32 93 43 00-0577	EA		6' To 7' Pinus Thunbergiana - Japanese Black Pine.....	66.11	
32 93 43 00-0578	EA		7' To 8' Pinus thunbergiana - Japanese Black Pine	82.61	
32 93 43 00-0579	EA		6' Pinus flexilis & cvs - Limber Pine.....	114.82	
32 93 43 00-0580	EA		7' Pinus flexilis & cvs - Limber Pine.....	133.19	
32 93 43 00-0581	EA		8' Pinus flexilis & cvs - Limber Pine.....	165.33	
32 93 43 00-0582	EA		9' Pinus flexilis & cvs - Limber Pine.....	202.07	
32 93 43 00-0583	EA		10' Pinus flexilis & cvs - Limber Pine.....	229.63	
32 93 43 00-0584	EA		1 Gallon Pinus mugo - Mugho Pine	4.28	
32 93 43 00-0585	EA		2 Gallon Pinus mugo - Mugho Pine	9.05	
32 93 43 00-0586	EA		3 Gallon Pinus mugo - Mugho Pine	11.33	
32 93 43 00-0587	EA		5 Gallon Pinus mugo - Mugho Pine	14.37	
32 93 43 00-0588	EA		12" To 15" Spread Pinus mugo - Mugho Pine.....	11.12	
32 93 43 00-0589	EA		15" To 18" Spread Pinus mugo - Mugho Pine.....	13.26	
32 93 43 00-0590	EA		18" To 24" Spread Pinus mugo - Mugho Pine.....	17.96	
32 93 43 00-0591	EA		2' To 2-1/2' Spread Pinus mugo - Mugho Pine.....	25.14	
32 93 43 00-0592	EA		2-1/2' To 3' Spread Pinus mugo - Mugho Pine.....	32.33	
32 93 43 00-0593	EA		3' To 3-1/2' Spread Pinus mugo - Mugho Pine.....	40.27	
32 93 43 00-0594	EA		3-1/2' To 4' Spread Pinus mugo - Mugho Pine.....	48.91	
32 93 43 00-0595	EA		6' Pinus nigra - Austrian Pine.....	114.82	
32 93 43 00-0596	EA		7' Pinus nigra - Austrian Pine.....	137.78	
32 93 43 00-0597	EA		8' Pinus nigra - Austrian Pine.....	179.11	
32 93 43 00-0598	EA		9' Pinus nigra - Austrian Pine.....	206.67	
32 93 43 00-0599	EA		10' Pinus nigra - Austrian Pine.....	243.41	
32 93 43 00-0600	EA		12' Pinus nigra - Austrian Pine.....	275.56	
32 93 43 00-0601	EA		14' Pinus nigra - Austrian Pine.....	307.70	
32 93 43 00-0602	EA		16' Pinus nigra - Austrian Pine.....	349.04	
32 93 43 00-0603	EA		1 Gallon Podocarpus - Chinese Podocarpus	2.14	
32 93 43 00-0604	EA		3 Gallon Podocarpus - Chinese Podocarpus	4.97	
32 93 43 00-0605	EA		7 Gallon Podocarpus - Chinese Podocarpus	14.37	
32 93 43 00-0606	EA		15 Gallon Podocarpus - Chinese Podocarpus	23.35	
32 93 43 00-0607	EA		4' To 5' Podocarpus - Chinese Podocarpus.....	35.92	
32 93 43 00-0608	EA		5' To 6' Sequoia sempervirens - Dawn Redwood	44.90	
32 93 43 00-0609	EA		6' To 8' Sequoia sempervirens - Dawn Redwood	60.61	
32 93 43 00-0610	EA		8' To 10' Sequoia sempervirens - Dawn Redwood	74.08	
32 93 43 00-0611	EA		3' To 4' Thuja occidentalis 'Wareana' - Siberian Arborvitae	8.66	
32 93 43 00-0612	EA		3' To 4' Thuja occidentalis 'Woodwardii' - Woodward Arborvitae	30.16	
32 93 43 00-0613	EA		6' Cedrus decurrens - Incese Cedar	77.11	
32 93 43 00-0614	EA		8' Cedrus decurrens - Incese Cedar	159.50	
32 93 43 00-0615	EA		10' Cedrus decurrens - Incese Cedar	211.26	
32 93 43 00-0616	EA		12' Cedrus decurrens - Incese Cedar	279.92	
32 93 43 00-0617	EA		6' Melaleuca linariifolia - Flaxleaf Paperbark.....	221.82	
32 93 43 00-0618	EA		8' Melaleuca linariifolia - Flaxleaf Paperbark.....	295.76	
32 93 43 00-0619	EA		10' Melaleuca linariifolia - Flaxleaf Paperbark.....	369.70	
32 93 43 00-0620	EA		12' Melaleuca linariifolia - Flaxleaf Paperbark.....	443.65	
32 93 43 00-0621	EA		24" Box Melaleuca linariifolia - Flaxleaf Paperbark	219.71	
32 93 43 00-0622	EA		6' Melaleuca quinquenervia - Cajeput Tree.....	221.82	
32 93 43 00-0623	EA		8' Melaleuca quinquenervia - Cajeput Tree.....	295.76	
32 93 43 00-0624	EA		10' Melaleuca quinquenervia - Cajeput Tree.....	369.70	
32 93 43 00-0625	EA		12' Melaleuca quinquenervia - Cajeput Tree.....	443.65	
32 93 43 00-0626	EA		24" Box Melaleuca quinquenervia - Cajeput Tree	123.59	
32 93 43 00-0627	EA		30" Box Melaleuca quinquenervia - Cajeput Tree	311.61	
32 93 43 00-0628	EA		36" Box Melaleuca quinquenervia - Cajeput Tree	491.18	
32 93 43 00-0629	EA		4' Metrosideros excelsus - New Zealand Christmas Tree	65.49	
32 93 43 00-0630	EA		5' Metrosideros excelsus - New Zealand Christmas Tree	88.73	
32 93 43 00-0631	EA		6' Metrosideros excelsus - New Zealand Christmas Tree	151.05	
32 93 43 00-0632	EA		8' Metrosideros excelsus - New Zealand Christmas Tree	186.97	
32 93 43 00-0633	EA		24" Box Metrosideros excelsus - New Zealand Christmas Tree	158.17	
32 93 43 00-0634	EA		6' Pinus canariensis - Canary Island Pine	253.51	
32 93 43 00-0635	EA		8' Pinus canariensis - Canary Island Pine	338.02	
32 93 43 00-0636	EA		10' Pinus canariensis - Canary Island Pine.....	422.52	
32 93 43 00-0637	EA		12' Pinus canariensis - Canary Island Pine.....	507.02	
32 93 43 00-0638	EA		24" Box Pinus canariensis - Canary Island Pine.....	260.91	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 43 00-0639	EA	6' Pinus pinea - Italian Stone Pine	253.51
32 93 43 00-0640	EA	8' Pinus pinea - Italian Stone Pine	338.02
32 93 43 00-0641	EA	10' Pinus pinea - Italian Stone Pine	422.52
32 93 43 00-0642	EA	12' Pinus pinea - Italian Stone Pine	507.02
32 93 43 00-0643	EA	6' Pittosporum undulatum - Victorian Box	139.43
32 93 43 00-0644	EA	8' Pittosporum undulatum - Victorian Box	220.77
32 93 43 00-0645	EA	10' Pittosporum undulatum - Victorian Box	290.48
32 93 43 00-0646	EA	6' Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine	264.08
32 93 43 00-0647	EA	8' Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine	348.58
32 93 43 00-0648	EA	10' Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine	443.65
32 93 43 00-0649	EA	12' Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine	528.15
32 93 43 00-0650	EA	24" Box Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine	123.59
32 93 43 00-0651	EA	1 Gallon Podocarpus macrophyllus - Yew Pine	4.91
32 93 43 00-0652	EA	3 Gallon Podocarpus macrophyllus - Yew Pine	11.51
32 93 43 00-0653	EA	5 Gallon Podocarpus macrophyllus - Yew Pine	15.11
32 93 43 00-0654	EA	15 Gallon Podocarpus macrophyllus - Yew Pine	65.49
32 93 43 00-0655	EA	24" Box Podocarpus macrophyllus - Yew Pine	126.76
32 93 43 00-0656	EA	24" Box Rhus lancea - African Sumac	130.45
32 93 43 00-0657	EA	30" Box Rhus lancea - African Sumac	211.26
32 93 43 00-0658	EA	8' Rhus lancea - African Sumac	316.89
32 93 43 00-0659	EA	10' Rhus lancea - African Sumac	353.86
32 93 43 00-0660	EA	12' Rhus lancea - African Sumac	422.52

32 93 43 00-0661**Palm And Subtropical Trees** (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0662	EA	4' To 5' Archontophoenix cunninghamiana - King Palm	92.96
32 93 43 00-0663	EA	6' To 8' Archontophoenix cunninghamiana - King Palm	144.60
32 93 43 00-0664	EA	8' To 10' Archontophoenix cunninghamiana - King Palm	185.91
32 93 43 00-0665	EA	10' To 12' Archontophoenix cunninghamiana - King Palm	247.88
32 93 43 00-0666	EA	4' To 5' Arecastrum romanzoffianum - Queen Palm	70.42
32 93 43 00-0667	EA	6' To 8' Arecastrum romanzoffianum - Queen Palm	98.59
32 93 43 00-0668	EA	8' To 10' Arecastrum romanzoffianum - Queen Palm	126.76
32 93 43 00-0669	EA	10' To 12' Arecastrum romanzoffianum - Queen Palm	154.93
32 93 43 00-0670	EA	12' To 14' Arecastrum romanzoffianum - Queen Palm	187.79
32 93 43 00-0671	EA	14' To 16' Arecastrum romanzoffianum - Queen Palm	234.74
32 93 43 00-0672	EA	3' To 4' Chamaedorea radicalis - Dwarf Bamboo Palm	197.18
32 93 43 00-0673	EA	5' To 6' Chamaedorea radicalis - Dwarf Bamboo Palm	309.85
32 93 43 00-0674	EA	3' To 4' Chamaerops humilis - European Fan Palm	169.01
32 93 43 00-0675	EA	5' To 6' Chamaerops humilis - European Fan Palm	225.35
32 93 43 00-0676	EA	7' To 8' Chamaerops humilis - European Fan Palm	525.81
32 93 43 00-0677	EA	9' To 10' Chamaerops humilis - European Fan Palm	901.39
32 93 43 00-0678	EA	12' To 16' Cocos nucifera - Coconut Palm	395.99
32 93 43 00-0679	EA	6' To 7' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut	131.45
32 93 43 00-0680	EA	8' To 10' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut	262.91
32 93 43 00-0681	EA	10' To 12' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut	338.02
32 93 43 00-0682	EA	12' To 14' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut	469.48
32 93 43 00-0683	EA	4' To 5' Rhapsis excelsa - Lady Palm	356.80
32 93 43 00-0684	EA	6' To 7' Rhapsis excelsa - Lady Palm	507.03
32 93 43 00-0685	EA	8' To 9' Roystonea regia - Royal Palm	287.32
32 93 43 00-0686	EA	10' To 11' Roystonea regia - Royal Palm	351.17
32 93 43 00-0687	EA	12' To 13' Roystonea regia - Royal Palm	415.02
32 93 43 00-0688	EA	14' To 15' Roystonea regia - Royal Palm	478.86
32 93 43 00-0689	EA	16' To 17' Roystonea regia - Royal Palm	542.71
32 93 43 00-0690	EA	18' To 19' Roystonea regia - Royal Palm	606.56
32 93 43 00-0691	EA	20' To 21' Roystonea regia - Royal Palm	670.41
32 93 43 00-0692	EA	10' To 16' Sabal palmetto - Cabbage Palm	145.20
32 93 43 00-0693	EA	6' To 7' Thrinax morrisii - Key Thatch Palm	394.36
32 93 43 00-0694	EA	8' To 9' Thrinax morrisii - Key Thatch Palm	507.03
32 93 43 00-0695	EA	10' To 11' Thrinax morrisii - Key Thatch Palm	619.71
32 93 43 00-0696	EA	9' Ptychosperma elegans - Alexander Palm, Solitaire Palm	140.84
32 93 43 00-0697	EA	11' Ptychosperma elegans - Alexander Palm, Solitaire Palm	234.74
32 93 43 00-0698	EA	15' Ptychosperma elegans - Alexander Palm, Solitaire Palm	356.80
32 93 43 00-0699	EA	17' Ptychosperma elegans - Alexander Palm, Solitaire Palm	403.75
32 93 43 00-0700	EA	20' Ptychosperma elegans - Alexander Palm, Solitaire Palm	469.48
32 93 43 00-0701	EA	4' To 5' Bauninia blakeana - Hong Kong Orchid	403.75
32 93 43 00-0702	EA	6' Bauninia blakeana - Hong Kong Orchid	478.86
32 93 43 00-0703	EA	8' Bauninia blakeana - Hong Kong Orchid	638.49
32 93 43 00-0704	EA	10' Bauninia blakeana - Hong Kong Orchid	798.11
32 93 43 00-0705	EA	4' To 5' Acacia baileyana - Bailey Acacia	219.68
32 93 43 00-0706	EA	6' Acacia baileyana - Bailey Acacia	263.62
32 93 43 00-0707	EA	8' Acacia baileyana - Bailey Acacia	307.55
32 93 43 00-0708	EA	10' Acacia baileyana - Bailey Acacia	384.44
32 93 43 00-0709	EA	6' Agonis flexuosa - Peppermint Tree	131.81
32 93 43 00-0710	EA	8' Agonis flexuosa - Peppermint Tree	164.76
32 93 43 00-0711	EA	10' Agonis flexuosa - Peppermint Tree	197.71
32 93 43 00-0712	EA	24" Box Agonis flexuosa - Peppermint Tree	164.21
32 93 43 00-0713	EA	6' Bauhinia purpurea - Purple Orchid Tree	507.03
32 93 43 00-0714	EA	8' Bauhinia purpurea - Purple Orchid Tree	676.04
32 93 43 00-0715	EA	10' Bauhinia purpurea - Purple Orchid Tree	845.06



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0716	EA		24" Box Bauhinia purpurea - Purple Orchid Tree.....	219.71	
32 93 43 00-0717	EA		6' Bauhinia variegata candida - White Orchid Tree.....	563.37	
32 93 43 00-0718	EA		8' Bauhinia variegata candida - White Orchid Tree.....	751.16	
32 93 43 00-0719	EA		10' Bauhinia variegata candida - White Orchid Tree.....	938.95	
32 93 43 00-0720	EA		6' Callistemon citrinus - Crimson or Lemon Bottle Brush.....	296.57	
32 93 43 00-0721	EA		8' Callistemon citrinus - Crimson or Lemon Bottle Brush.....	395.42	
32 93 43 00-0722	EA		10' Callistemon citrinus - Crimson or Lemon Bottle Brush.....	494.28	
32 93 43 00-0723	EA		6' Eriobotrya deflexa - Bronze Loquat.....	507.03	
32 93 43 00-0724	EA		8' Eriobotrya deflexa - Bronze Loquat.....	676.04	
32 93 43 00-0725	EA		10' Eriobotrya deflexa - Bronze Loquat.....	845.06	
32 93 43 00-0726	EA		6' Eucalyptus erythrocorys - Red Cap Gum.....	507.03	
32 93 43 00-0727	EA		8' Eucalyptus erythrocorys - Red Cap Gum.....	676.04	
32 93 43 00-0728	EA		10' Eucalyptus erythrocorys - Red Cap Gum.....	845.06	
32 93 43 00-0729	EA		6' Eucalyptus torquata - Coral Gum.....	507.03	
32 93 43 00-0730	EA		8' Eucalyptus torquata - Coral Gum.....	676.04	
32 93 43 00-0731	EA		10' Eucalyptus torquata - Coral Gum.....	845.06	
32 93 43 00-0732	EA		8' Fraxinus oxycarpa "Raywood" - Raywood Ash.....	307.55	
32 93 43 00-0733	EA		10' Fraxinus oxycarpa "Raywood" - Raywood Ash.....	417.39	
32 93 43 00-0734	EA		12' Fraxinus oxycarpa "Raywood" - Raywood Ash.....	516.25	
32 93 43 00-0735	EA		1 Gallon Washingtonia robusta - Mexican Fan Palm.....	6.23	
32 93 43 00-0736	EA		5 Gallon Washingtonia robusta - Mexican Fan Palm.....	19.37	
32 93 43 00-0737	EA		15 Gallon Washingtonia robusta - Mexican Fan Palm.....	67.80	
32 93 43 00-0738	EA		24" Box Washingtonia robusta - Mexican Fan Palm.....	221.39	
32 93 43 00-0739	EA		36" Box Washingtonia robusta - Mexican Fan Palm.....	588.07	
32 93 43 00-0740	EA		6' Washingtonia robusta - Mexican Fan Palm.....	507.03	
32 93 43 00-0741	EA		8' Washingtonia robusta - Mexican Fan Palm.....	676.04	
32 93 43 00-0742	EA		10' Washingtonia robusta - Mexican Fan Palm.....	845.06	
32 93 43 00-0743	EA		12' Washingtonia robusta - Mexican Fan Palm.....	1,014.07	
32 93 43 00-0744	EA		6' Olea europaea - Olive "Fruitless".....	285.20	
32 93 43 00-0745	EA		8' Olea europaea - Olive "Fruitless".....	380.27	
32 93 43 00-0746	EA		10' Olea europaea - Olive "Fruitless".....	475.34	
32 93 43 00-0747	EA		12' Olea europaea - Olive "Fruitless".....	570.40	
32 93 43 00-0748	EA		24" Box Olea europaea - Olive "Fruitless".....	350.69	
32 93 43 00-0749	EA		6' Eucalyptus polyanthemos - Silver Dollar Gum.....	507.03	
32 93 43 00-0750	EA		8' Eucalyptus polyanthemos - Silver Dollar Gum.....	676.04	
32 93 43 00-0751	EA		10' Eucalyptus polyanthemos - Silver Dollar Gum.....	845.06	
32 93 43 00-0752	EA		6' Eucalyptus leucoxylon - White Ironbark.....	507.03	
32 93 43 00-0753	EA		8' Eucalyptus leucoxylon - White Ironbark.....	676.04	
32 93 43 00-0754	EA		10' Eucalyptus leucoxylon - White Ironbark.....	845.06	
32 93 43 00-0755	EA		12' Eucalyptus leucoxylon - White Ironbark.....	1,014.07	
32 93 43 00-0756	EA		6' Callistemon viminalis - Weeping Bottle Brush.....	296.57	
32 93 43 00-0757	EA		8' Callistemon viminalis - Weeping Bottle Brush.....	395.42	
32 93 43 00-0758	EA		10' Callistemon viminalis - Weeping Bottle Brush.....	494.28	
32 93 43 00-0759	EA		12' Callistemon viminalis - Weeping Bottle Brush.....	593.14	
32 93 43 00-0760	EA		6' Eucalyptus gunnii - Cider Gum.....	507.03	
32 93 43 00-0761	EA		8' Eucalyptus gunnii - Cider Gum.....	676.04	
32 93 43 00-0762	EA		10' Eucalyptus gunnii - Cider Gum.....	845.06	
32 93 43 00-0763	EA		6' Jacarandra acutifolia - Jacaranda.....	507.03	
32 93 43 00-0764	EA		8' Jacarandra acutifolia - Jacaranda.....	676.04	
32 93 43 00-0765	EA		10' Jacarandra acutifolia - Jacaranda.....	845.06	
32 93 43 00-0766	EA		24" Box Jacarandra acutifolia - Jacaranda.....	219.71	
32 93 43 00-0767	EA		5 Gallon Phoenix roebelenii - Pygmy Date Palm.....	23.70	
32 93 43 00-0768	EA		7 Gallon Phoenix roebelenii - Pygmy Date Palm.....	57.76	
32 93 43 00-0769	EA		15 Gallon Phoenix roebelenii - Pygmy Date Palm.....	87.38	
32 93 43 00-0770	EA		24" Box Phoenix roebelenii - Pygmy Date Palm.....	259.19	
32 93 43 00-0771	EA		5 Gallon Pistacia chinensis - Chinese Pistache.....	33.80	
32 93 43 00-0772	EA		15 Gallon Pistacia chinensis - Chinese Pistache.....	112.67	
32 93 43 00-0773	EA		24" Box Pistacia chinensis - Chinese Pistache.....	437.55	
32 93 43 00-0774	EA		36" Box Pistacia chinensis - Chinese Pistache.....	1,164.30	
32 93 43 00-0775	EA		48" Box Pistacia chinensis - Chinese Pistache.....	2,478.83	
32 93 43 00-0776	EA		5 Gallon Pyrus kawakamii - Evergreen Pear, Single.....	20.43	
32 93 43 00-0777	EA		15 Gallon Pyrus kawakamii - Evergreen Pear, Single.....	68.10	
32 93 43 00-0778	EA		24" Box Pyrus kawakamii - Evergreen Pear, Single.....	255.93	
32 93 43 00-0779	EA		30" Box Pyrus kawakamii - Evergreen Pear, Single.....	467.92	
32 93 43 00-0780	EA		36" Box Pyrus kawakamii - Evergreen Pear, Single.....	681.01	
32 93 43 00-0781	EA		5 Gallon Pyrus kawakamii - Evergreen Pear, Multi.....	20.43	
32 93 43 00-0782	EA		15 Gallon Pyrus kawakamii - Evergreen Pear, Multi.....	72.49	
32 93 43 00-0783	EA		24" Box Pyrus kawakamii - Evergreen Pear, Multi.....	263.62	
32 93 43 00-0784	EA		30" Box Pyrus kawakamii - Evergreen Pear, Multi.....	467.92	
32 93 43 00-0785	EA		36" Box Pyrus kawakamii - Evergreen Pear, Multi.....	681.01	

32 93 83 Planting of Trees, Shrubs and Ground Cover (32 93)

Note: Includes moving plant(s) from truck or staging site to planting site, excavation of hole, placing plant in hole, backfill and compaction. Use appropriate gallon, height or caliper size to match with description from plant section.

32 93 83 00-0001 Planting Trees (32 93 83)

Note: Excludes mulch. See CSI section 32 91 13 16-0001 for mulch.

32 93 83 00-0002	EA		3" To 5" Bare Root Seedlings Tree Planting.....	1.17	
32 93 83 00-0003	EA		6" To 10" Bare Root Seedlings Tree Planting.....	1.89	
32 93 83 00-0004	EA		11" To 16" Bare Root Seedlings Tree Planting.....	2.36	
32 93 83 00-0005	EA		17" To 24" Bare Root Seedlings Tree Planting.....	3.77	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0006 EA 1 Gallon Container Tree Planting.....	18.85	
For >10 To 25, Deduct	-0.94	
For >25 To 50, Deduct	-2.36	
For >50 To 100, Deduct	-3.77	
For >100, Deduct	-5.66	
32 93 83 00-0007 EA 2 Gallon Container Tree Planting.....	26.39	
For >10 To 25, Deduct	-1.32	
For >25 To 50, Deduct	-3.30	
For >50 To 100, Deduct	-5.28	
For >100, Deduct	-7.92	
32 93 83 00-0008 EA 3 Gallon Container Tree Planting.....	33.93	
For >10 To 25, Deduct	-1.70	
For >25 To 50, Deduct	-4.24	
For >50 To 100, Deduct	-6.79	
For >100, Deduct	-10.18	
32 93 83 00-0009 EA 5 Gallon Container Tree Planting.....	56.56	
For >10 To 25, Deduct	-2.83	
For >25 To 50, Deduct	-7.07	
For >50 To 100, Deduct	-11.31	
For >100, Deduct	-16.97	
32 93 83 00-0010 EA 7 Gallon Container Tree Planting.....	75.40	
For >10 To 25, Deduct	-3.77	
For >25 To 50, Deduct	-9.43	
For >50 To 100, Deduct	-15.08	
For >100, Deduct	-22.62	
32 93 83 00-0011 EA 10 Gallon Container Tree Planting.....	98.03	
For >10 To 25, Deduct	-4.90	
For >25 To 50, Deduct	-12.25	
For >50 To 100, Deduct	-19.61	
For >100, Deduct	-29.41	
32 93 83 00-0012 EA 15 Gallon Container Tree Planting.....	139.50	
For >10 To 25, Deduct	-6.98	
For >25 To 50, Deduct	-17.44	
For >50 To 100, Deduct	-27.90	
For >100, Deduct	-41.85	
32 93 83 00-0013 EA 20 Gallon Container Tree Planting.....	230.00	
For >10 To 25, Deduct	-11.50	
For >25 To 50, Deduct	-28.75	
For >50 To 100, Deduct	-46.00	
For >100, Deduct	-69.00	
32 93 83 00-0014 EA 25 Gallon Container Tree Planting.....	297.86	
For >10 To 25, Deduct	-14.89	
For >25 To 50, Deduct	-37.23	
For >50 To 100, Deduct	-59.57	
For >100, Deduct	-89.36	
32 93 83 00-0015 EA 30 Gallon Container Tree Planting.....	358.19	
For >10 To 25, Deduct	-17.91	
For >25 To 50, Deduct	-44.77	
For >50 To 100, Deduct	-71.64	
For >100, Deduct	-107.46	
32 93 83 00-0016 EA 45 Gallon Container Tree Planting.....	444.91	
For >10 To 25, Deduct	-22.25	
For >25 To 50, Deduct	-55.61	
For >50 To 100, Deduct	-88.98	
For >100, Deduct	-133.47	
32 93 83 00-0017 EA 65 Gallon Container Tree Planting.....	527.86	
For >10 To 25, Deduct	-26.39	
For >25 To 50, Deduct	-65.98	
For >50 To 100, Deduct	-105.57	
For >100, Deduct	-158.36	
32 93 83 00-0018 EA 6' Balled And Burlapped Tree Planting.....	188.52	
For >10 To 25, Deduct	-9.43	
For >25 To 50, Deduct	-23.57	
For >50 To 100, Deduct	-37.70	
For >100, Deduct	-56.56	
32 93 83 00-0019 EA 7' Balled And Burlapped Tree Planting.....	251.11	
For >10 To 25, Deduct	-12.56	
For >25 To 50, Deduct	-31.39	
For >50 To 100, Deduct	-50.22	
For >100, Deduct	-75.33	
32 93 83 00-0020 EA 8' Balled And Burlapped Tree Planting.....	282.78	
For >10 To 25, Deduct	-14.14	
For >25 To 50, Deduct	-35.35	
For >50 To 100, Deduct	-56.56	
For >100, Deduct	-84.83	
32 93 83 00-0021 EA 10' Balled And Burlapped Tree Planting.....	329.91	
For >10 To 25, Deduct	-16.50	
For >25 To 50, Deduct	-41.24	
For >50 To 100, Deduct	-65.98	
For >100, Deduct	-98.97	
32 93 83 00-0022 EA 12' Balled And Burlapped Tree Planting.....	441.14	
For >10 To 25, Deduct	-22.06	
For >25 To 50, Deduct	-55.14	
For >50 To 100, Deduct	-88.23	
For >100, Deduct	-132.34	



Exterior Improvements		32
Planting		32 90
Plants		32 93

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0023 EA 14' Balled And Burlapped Tree Planting	505.24	
For >10 To 25, Deduct	-25.26	
For >25 To 50, Deduct	-63.16	
For >50 To 100, Deduct	-101.05	
For >100, Deduct	-151.57	
32 93 83 00-0024 EA 16' Balled And Burlapped Tree Planting	612.70	
For >10 To 25, Deduct	-30.64	
For >25 To 50, Deduct	-76.59	
For >50 To 100, Deduct	-122.54	
For >100, Deduct	-183.81	
32 93 83 00-0025 EA 18' Balled And Burlapped Tree Planting	735.23	
For >10 To 25, Deduct	-36.76	
For >25 To 50, Deduct	-91.90	
For >50 To 100, Deduct	-147.05	
For >100, Deduct	-220.57	
32 93 83 00-0026 EA 20' Balled And Burlapped Tree Planting	848.35	
For >10 To 25, Deduct	-42.42	
For >25 To 50, Deduct	-106.04	
For >50 To 100, Deduct	-169.67	
For >100, Deduct	-254.51	
32 93 83 00-0027 EA 1-1/2" Caliper Balled And Burlapped Tree Planting	282.78	
For >10 To 25, Deduct	-14.14	
For >25 To 50, Deduct	-35.35	
For >50 To 100, Deduct	-56.56	
For >100, Deduct	-84.83	
32 93 83 00-0028 EA 2" Caliper Balled And Burlapped Tree Planting	329.91	
For >10 To 25, Deduct	-16.50	
For >25 To 50, Deduct	-41.24	
For >50 To 100, Deduct	-65.98	
For >100, Deduct	-98.97	
32 93 83 00-0029 EA 2-1/2" Caliper Balled And Burlapped Tree Planting	443.03	
For >10 To 25, Deduct	-22.15	
For >25 To 50, Deduct	-55.38	
For >50 To 100, Deduct	-88.61	
For >100, Deduct	-132.91	
32 93 83 00-0030 EA 3" Caliper Balled And Burlapped Tree Planting	509.00	
For >10 To 25, Deduct	-25.45	
For >25 To 50, Deduct	-63.63	
For >50 To 100, Deduct	-101.80	
For >100, Deduct	-152.70	
32 93 83 00-0031 EA 3-1/2" Caliper Balled And Burlapped Tree Planting	565.56	
For >10 To 25, Deduct	-28.28	
For >25 To 50, Deduct	-70.70	
For >50 To 100, Deduct	-113.11	
For >100, Deduct	-169.67	
32 93 83 00-0032 EA 4" Caliper Balled And Burlapped Tree Planting	648.51	
For >10 To 25, Deduct	-32.43	
For >25 To 50, Deduct	-81.06	
For >50 To 100, Deduct	-129.70	
For >100, Deduct	-194.55	
32 93 83 00-0033 Planting Shrubs <small>(32 93 83)</small>		
Note: Excludes mulch. See CSI section 32 91 13 16-0001 for mulch.		
32 93 83 00-0034 EA 1 Gallon Container Shrub Planting.....	16.03	
For >10 To 25, Deduct	-0.80	
For >25 To 50, Deduct	-2.00	
For >50 To 100, Deduct	-3.21	
For >100, Deduct	-4.81	
32 93 83 00-0035 EA 2 Gallon Container Shrub Planting.....	22.62	
For >10 To 25, Deduct	-1.13	
For >25 To 50, Deduct	-2.83	
For >50 To 100, Deduct	-4.52	
For >100, Deduct	-6.79	
32 93 83 00-0036 EA 3 Gallon Container Shrub Planting.....	28.28	
For >10 To 25, Deduct	-1.41	
For >25 To 50, Deduct	-3.54	
For >50 To 100, Deduct	-5.66	
For >100, Deduct	-8.48	
32 93 83 00-0037 EA 4 Gallon Container Shrub Planting.....	37.71	
For >10 To 25, Deduct	-1.89	
For >25 To 50, Deduct	-4.71	
For >50 To 100, Deduct	-7.54	
For >100, Deduct	-11.31	
32 93 83 00-0038 EA 5 Gallon Container Shrub Planting.....	47.13	
For >10 To 25, Deduct	-2.36	
For >25 To 50, Deduct	-5.89	
For >50 To 100, Deduct	-9.43	
For >100, Deduct	-14.14	
32 93 83 00-0039 EA 7 Gallon Container Shrub Planting.....	64.10	
For >10 To 25, Deduct	-3.21	
For >25 To 50, Deduct	-8.01	
For >50 To 100, Deduct	-12.82	
For >100, Deduct	-19.23	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0040 EA 10 Gallon Container Shrub Planting.....	84.83	
For >10 To 25, Deduct	-4.24	
For >25 To 50, Deduct	-10.60	
For >50 To 100, Deduct	-16.97	
For >100, Deduct	-25.45	
32 93 83 00-0041 EA 15 Gallon Container Shrub Planting.....	116.89	
For >10 To 25, Deduct	-5.84	
For >25 To 50, Deduct	-14.61	
For >50 To 100, Deduct	-23.38	
For >100, Deduct	-35.07	
32 93 83 00-0042 EA 20 Gallon Container Shrub Planting.....	196.06	
For >10 To 25, Deduct	-9.80	
For >25 To 50, Deduct	-24.51	
For >50 To 100, Deduct	-39.21	
For >100, Deduct	-58.82	
32 93 83 00-0043 EA 25 Gallon Container Shrub Planting.....	251.11	
For >10 To 25, Deduct	-12.56	
For >25 To 50, Deduct	-31.39	
For >50 To 100, Deduct	-50.22	
For >100, Deduct	-75.33	
32 93 83 00-0044 EA 15" Balled And Burlapped Shrub Planting.....	52.79	
For >10 To 25, Deduct	-2.64	
For >25 To 50, Deduct	-6.60	
For >50 To 100, Deduct	-10.56	
For >100, Deduct	-15.84	
32 93 83 00-0045 EA 18" Balled And Burlapped Shrub Planting.....	54.67	
For >10 To 25, Deduct	-2.73	
For >25 To 50, Deduct	-6.83	
For >50 To 100, Deduct	-10.93	
For >100, Deduct	-16.40	
32 93 83 00-0046 EA 24" Balled And Burlapped Shrub Planting.....	60.33	
For >10 To 25, Deduct	-3.02	
For >25 To 50, Deduct	-7.54	
For >50 To 100, Deduct	-12.07	
For >100, Deduct	-18.10	
32 93 83 00-0047 EA 30" Balled And Burlapped Shrub Planting.....	60.33	
For >10 To 25, Deduct	-3.02	
For >25 To 50, Deduct	-7.54	
For >50 To 100, Deduct	-12.07	
For >100, Deduct	-18.10	
32 93 83 00-0048 EA 36" Balled And Burlapped Shrub Planting.....	65.99	
For >10 To 25, Deduct	-3.30	
For >25 To 50, Deduct	-8.25	
For >50 To 100, Deduct	-13.20	
For >100, Deduct	-19.80	
32 93 83 00-0049 EA 42" Balled And Burlapped Shrub Planting.....	69.75	
For >10 To 25, Deduct	-3.49	
For >25 To 50, Deduct	-8.72	
For >50 To 100, Deduct	-13.95	
For >100, Deduct	-20.93	
32 93 83 00-0050 EA 48" Balled And Burlapped Shrub Planting.....	75.40	
For >10 To 25, Deduct	-3.77	
For >25 To 50, Deduct	-9.43	
For >50 To 100, Deduct	-15.08	
For >100, Deduct	-22.62	
32 93 83 00-0051 EA 5' Balled And Burlapped Shrub Planting.....	113.11	
For >10 To 25, Deduct	-5.66	
For >25 To 50, Deduct	-14.14	
For >50 To 100, Deduct	-22.62	
For >100, Deduct	-33.93	
32 93 83 00-0052 EA 6' Balled And Burlapped Shrub Planting.....	160.24	
For >10 To 25, Deduct	-8.01	
For >25 To 50, Deduct	-20.03	
For >50 To 100, Deduct	-32.05	
For >100, Deduct	-48.07	
32 93 83 00-0053 EA 7' Balled And Burlapped Shrub Planting.....	213.03	
For >10 To 25, Deduct	-10.65	
For >25 To 50, Deduct	-26.63	
For >50 To 100, Deduct	-42.61	
For >100, Deduct	-63.91	
32 93 83 00-0054 EA 8' Balled And Burlapped Shrub Planting.....	241.31	
For >10 To 25, Deduct	-12.07	
For >25 To 50, Deduct	-30.16	
For >50 To 100, Deduct	-48.26	
For >100, Deduct	-72.39	
32 93 83 00-0055 EA 9' Balled And Burlapped Shrub Planting.....	260.16	
For >10 To 25, Deduct	-13.01	
For >25 To 50, Deduct	-32.52	
For >50 To 100, Deduct	-52.03	
For >100, Deduct	-78.05	
32 93 83 00-0056 EA 10' Balled And Burlapped Shrub Planting.....	282.78	
For >10 To 25, Deduct	-14.14	
For >25 To 50, Deduct	-35.35	
For >50 To 100, Deduct	-56.56	
For >100, Deduct	-84.83	



Exterior Improvements		32
Planting		32 90
Plants		32 93

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 93 83 00-0057	Planting Groundcover, Vines, Perennials, Annuals And Bulbs <small>(32 93 83)</small> See CSI section 32 91 13 16-0001 for mulch.	
32 93 83 00-0058	EA 2-1/4" Diameter Potted Groundcover And Flower Planting 1.57 <i>For >10 To 25, Deduct</i> -0.08 <i>For >25 To 50, Deduct</i> -0.20 <i>For >50 To 100, Deduct</i> -0.31 <i>For >100, Deduct</i> -0.47	
32 93 83 00-0059	EA 3" Diameter Potted Groundcover And Flower Planting 1.80 <i>For >10 To 25, Deduct</i> -0.09 <i>For >25 To 50, Deduct</i> -0.23 <i>For >50 To 100, Deduct</i> -0.36 <i>For >100, Deduct</i> -0.54	
32 93 83 00-0060	EA 4" Diameter Potted Groundcover And Flower Planting 2.10 <i>For >10 To 25, Deduct</i> -0.11 <i>For >25 To 50, Deduct</i> -0.26 <i>For >50 To 100, Deduct</i> -0.42 <i>For >100, Deduct</i> -0.63	
32 93 83 00-0061	EA 5-1/2" Diameter Potted Groundcover And Flower Planting 2.51 <i>For >10 To 25, Deduct</i> -0.13 <i>For >25 To 50, Deduct</i> -0.31 <i>For >50 To 100, Deduct</i> -0.50 <i>For >100, Deduct</i> -0.75	
32 93 83 00-0062	EA 6" Diameter Potted Groundcover And Flower Planting 3.14 <i>For >10 To 25, Deduct</i> -0.16 <i>For >25 To 50, Deduct</i> -0.39 <i>For >50 To 100, Deduct</i> -0.63 <i>For >100, Deduct</i> -0.94	
32 93 83 00-0063	EA 8" Diameter Potted Groundcover And Flower Planting 4.71 <i>For >10 To 25, Deduct</i> -0.24 <i>For >25 To 50, Deduct</i> -0.59 <i>For >50 To 100, Deduct</i> -0.94 <i>For >100, Deduct</i> -1.41	
32 93 83 00-0064	EA 1 Gallon Container Groundcover And Flower Planting 15.08 <i>For >10 To 25, Deduct</i> -0.75 <i>For >25 To 50, Deduct</i> -1.89 <i>For >50 To 100, Deduct</i> -3.02 <i>For >100, Deduct</i> -4.52	
32 93 83 00-0065	EA 2 Gallon Container Groundcover And Flower Planting 20.74 <i>For >10 To 25, Deduct</i> -1.04 <i>For >25 To 50, Deduct</i> -2.59 <i>For >50 To 100, Deduct</i> -4.15 <i>For >100, Deduct</i> -6.22	
32 93 83 00-0066	EA 3 Gallon Container Groundcover And Flower Planting 26.39 <i>For >10 To 25, Deduct</i> -1.32 <i>For >25 To 50, Deduct</i> -3.30 <i>For >50 To 100, Deduct</i> -5.28 <i>For >100, Deduct</i> -7.92	
32 93 83 00-0067	EA 4 Gallon Container Groundcover And Flower Planting 33.93 <i>For >10 To 25, Deduct</i> -1.70 <i>For >25 To 50, Deduct</i> -4.24 <i>For >50 To 100, Deduct</i> -6.79 <i>For >100, Deduct</i> -10.18	
32 93 83 00-0068	EA 5 Gallon Container Groundcover And Flower Planting 41.47 <i>For >10 To 25, Deduct</i> -2.07 <i>For >25 To 50, Deduct</i> -5.18 <i>For >50 To 100, Deduct</i> -8.29 <i>For >100, Deduct</i> -12.44	
32 93 83 00-0069	EA 7 Gallon Container Groundcover And Flower Planting 56.56 <i>For >10 To 25, Deduct</i> -2.83 <i>For >25 To 50, Deduct</i> -7.07 <i>For >50 To 100, Deduct</i> -11.31 <i>For >100, Deduct</i> -16.97	
32 93 83 00-0070	EA Bulb Planting 0.94 <i>For >10 To 25, Deduct</i> -0.05 <i>For >25 To 50, Deduct</i> -0.12 <i>For >50 To 100, Deduct</i> -0.19 <i>For >100, Deduct</i> -0.28	
32 93 83 00-0071	EA Flats Of 24 Groundcover And Flower Planting 26.39 <i>For >10 To 25, Deduct</i> -1.32 <i>For >25, Deduct</i> -3.30	
32 93 83 00-0072	EA Flats Of 36 Groundcover And Flower Planting 37.44 <i>For >10 To 25, Deduct</i> -1.87 <i>For >25, Deduct</i> -4.68	
32 93 83 00-0073	EA Flats Of 48 Groundcover And Flower Planting 49.84 <i>For >10 To 25, Deduct</i> -2.49 <i>For >25, Deduct</i> -6.23	

32 93 83 00-0074	Tree Pits <small>(32 93 83)</small> Note: Costs given show the tree pit size accommodates the soil ball and the type of soil excavated includes excavation, bank run sand and gravel fill for drainage, imported mix planting soil, hand backfill, perforated drainage pipe for watering, and drainage fabric. Includes one layer of woven fabric to be applied before mulch is spread. Excludes additional soil conditioners or mulch. See CSI section 32 91 13 16-0000 for appropriate mulch or decorative topping, 32 91 13 16-0001 for appropriate mulch or decorative topping.	
32 93 83 00-0075	EA 2' x 1-1/4' Deep Tree Pit..... 127.95	
32 93 83 00-0076	EA 2' x 2-1/2' Deep Tree Pit..... 191.88	

32 Exterior Improvements

32 90 Planting

32 93 Plants



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0077	EA		2-1/2' x 1-1/2' Deep Tree Pit .....	.245.82	
32 93 83 00-0078	EA		2-1/2' x 3' Deep Tree Pit.....	.368.66	
32 93 83 00-0079	EA		3' x 1-3/4' Deep Tree Pit.....	.383.18	
32 93 83 00-0080	EA		3' x 3-1/2' Deep Tree Pit.....	.572.32	
32 93 83 00-0081	EA		3-1/2' x 1-3/4' Deep Tree Pit .....	.471.79	
32 93 83 00-0082	EA		3-1/2' x 3-1/2' Deep Tree Pit .....	.706.87	
32 93 83 00-0083	EA		4' x 2' Deep Tree Pit.....	.564.83	
32 93 83 00-0084	EA		4' x 4' Deep Tree Pit.....	.846.86	
32 93 83 00-0085	EA		4-1/2' x 2' Deep Tree Pit.....	.816.96	
32 93 83 00-0086	EA		4-1/2' x 4' Deep Tree Pit.....	1,227.44	
32 93 83 00-0087	EA		5' x 2-1/4' Deep Tree Pit.....	1,086.58	
32 93 83 00-0088	EA		5' x 4-1/2' Deep Tree Pit.....	1,620.48	
32 93 83 00-0089	EA		6' x 2-1/2' Deep Tree Pit.....	1,540.81	
32 93 83 00-0090	EA		6' x 5' Deep Tree Pit.....	2,308.40	
32 93 83 00-0091	EA		7' x 3' Deep Tree Pit.....	2,598.06	
32 93 83 00-0092	EA		7' x 6' Deep Tree Pit.....	3,914.19	
32 93 83 00-0093	EA		8' x 3-1/4' Deep Tree Pit.....	3,581.51	
32 93 83 00-0094	EA		8' x 6-1/2' Deep Tree Pit.....	5,370.41	

32 94 Planting Accessories (32 90)

32 94 13 Landscape Edging (32 94)

Note: Including stakes.

32 94 13 00-0001 Landscape Edging (32 94 13)

Note: Includes stakes.

32 94 13 00-0002	LF		6" Poly/Vinyl Landscape Edging With Non-Round Top.....	4.43	0.97
			<i>For >2,000 To 5,000 LF, Deduct</i>	-0.25	
			<i>For >5,000 LF, Deduct</i>	-0.50	
32 94 13 00-0003	LF		5" Polyethylene Landscape Edging With Round Top.....	2.72	0.97
			<i>For >2,000 To 5,000 LF, Deduct</i>	-0.08	
			<i>For >5,000 LF, Deduct</i>	-0.16	
32 94 13 00-0004	LF		5-1/2" Polyethylene Landscape Edging With Round Top.....	2.76	0.97
			<i>For >2,000 To 5,000 LF, Deduct</i>	-0.08	
			<i>For >5,000 LF, Deduct</i>	-0.16	
32 94 13 00-0005	LF		5" Polyethylene Landscape Edging With Corrugated Sides And Round Top.....	2.79	0.97
			<i>For >2,000 To 5,000 LF, Deduct</i>	-0.09	
			<i>For >5,000 LF, Deduct</i>	-0.17	
32 94 13 00-0006	LF		1/8" x 4", Mill Finish, Aluminum Alloy Landscape Edging.....	7.83	2.33
			<i>For >1,000 LF, Deduct</i>	-0.80	
32 94 13 00-0007	LF		1/8" x 4", Black Paint, Aluminum Alloy Landscape Edging.....	8.49	2.33
			<i>For >1,000 LF, Deduct</i>	-0.96	
32 94 13 00-0008	LF		1/8" x 4", Black Anodized, Aluminum Alloy Landscape Edging.....	8.53	2.33
			<i>For >1,000 LF, Deduct</i>	-0.97	
32 94 13 00-0009	LF		3/16" x 4", Mill Finish, Aluminum Alloy Landscape Edging.....	9.70	2.41
			<i>For >1,000 LF, Deduct</i>	-1.23	
32 94 13 00-0010	LF		3/16" x 4", Black Paint, Aluminum Alloy Landscape Edging.....	10.51	2.41
			<i>For >1,000 LF, Deduct</i>	-1.43	
32 94 13 00-0011	LF		3/16" x 4", Black Anodized, Aluminum Alloy Landscape Edging.....	10.49	2.41
			<i>For >1,000 LF, Deduct</i>	-1.43	
32 94 13 00-0012	LF		1/8" x 5-1/2", Mill Finish, Aluminum Alloy Landscape Edging	8.75	2.48
			<i>For >1,000 LF, Deduct</i>	-0.96	
32 94 13 00-0013	LF		1/8" x 5-1/2", Black Paint, Aluminum Alloy Landscape Edging	9.65	2.48
			<i>For >1,000 LF, Deduct</i>	-1.19	
32 94 13 00-0014	LF		1/8" x 5-1/2", Black Anodized, Aluminum Alloy Landscape Edging.....	9.74	2.48
			<i>For >1,000 LF, Deduct</i>	-1.21	
32 94 13 00-0015	LF		3/16" x 5-1/2", Mill Finish, Aluminum Alloy Landscape Edging.....	10.88	2.56
			<i>For >1,000 LF, Deduct</i>	-1.46	
32 94 13 00-0016	LF		3/16" x 5-1/2", Black Paint, Aluminum Alloy Landscape Edging.....	11.78	2.56
			<i>For >1,000 LF, Deduct</i>	-1.69	
32 94 13 00-0017	LF		3/16" x 5-1/2", Black Anodized, Aluminum Alloy Landscape Edging.....	11.85	2.56
			<i>For >1,000 LF, Deduct</i>	-1.70	
32 94 13 00-0018	LF		1/8" x 4" Powder Coated Steel Landscape Edging	8.31	2.41
			<i>For >1,000 LF, Deduct</i>	-0.87	
32 94 13 00-0019	LF		3/16" x 4" Powder Coated Steel Landscape Edging	9.64	2.41
			<i>For >1,000 LF, Deduct</i>	-1.21	
32 94 13 00-0020	LF		1/4" x 5" Powder Coated Steel Landscape Edging	13.20	2.41
			<i>For >1,000 LF, Deduct</i>	-2.10	
32 94 13 00-0021	LF		1/2" x 4", Recycled Plastic Landscape Edging (Bend-A-Board).....	6.39	2.33
			<i>For >1,000 LF, Deduct</i>	-0.44	
32 94 13 00-0022	LF		1" x 4", Recycled Plastic Landscape Edging (Bend-A-Board).....	7.19	2.33
			<i>For >1,000 LF, Deduct</i>	-0.64	
32 94 13 00-0023	LF		1" x 6", Recycled Plastic Landscape Edging (Bend-A-Board).....	7.88	2.33
			<i>For >1,000 LF, Deduct</i>	-0.81	
32 94 13 00-0024	LF		2" x 4", Recycled Plastic Landscape Edging (Bend-A-Board).....	8.03	2.33
			<i>For >1,000 LF, Deduct</i>	-0.85	

32 94 16 Landscape Timbers (32 94)

32 94 16 00-0001	LF		1" x 4" Redwood Edging	4.73	1.57
32 94 16 00-0002	LF		2" x 4" Redwood Edging	6.48	2.34
32 94 16 00-0003	LF		4" x 6" Pressure Treated Hardwood.....	10.35	3.12
32 94 16 00-0004	LF		6" x 6" Pressure Treated Hardwood.....	13.67	3.90



Exterior Improvements		32
	Planting	32 90
	Planting Accessories	32 94

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 94 16 00-0005	LF		6" x 8" Pressure Treated Hardwood.....	15.88	4.59
32 94 16 00-0006	LF		1" x 4" Pressure Treated Pine.....	3.81	1.57
32 94 16 00-0007	LF		2" x 4" Pressure Treated Pine.....	5.82	2.34
32 94 16 00-0008	LF		4" x 6" Pressure Treated Pine.....	9.82	3.02
32 94 16 00-0009	LF		6" x 6" Pressure Treated Pine.....	13.54	3.90
32 94 16 00-0010	LF		6" x 8" Pressure Treated Pine.....	16.70	4.59
32 94 16 00-0011	LF		6" x 8" Railroad Ties.....	13.54	4.37
32 94 16 00-0012	LF		7" x 9" Railroad Ties.....	16.28	5.49
32 94 23 Plant Protection (32 94)					
32 94 23 00-0001	SF		Tree Trunk Protection - Hardware Cloth 1/4" Mesh, 23 Gauge.....	2.06	
32 94 43 Tree Grates (32 94)					
32 94 43 00-0001 Tree Grates With Frames (32 94 43)					
32 94 43 00-0002 Round Cast Iron Tree Grates With Frames (32 94 43 00-0001)					
32 94 43 00-0003	EA		32" Diameter, 100 To 150 LB Cast Iron Tree Grate With Frame.....	754.63	57.09
32 94 43 00-0004	EA		36" Diameter, 125 To 175 LB Cast Iron Tree Grate With Frame.....	871.06	57.09
32 94 43 00-0005	EA		42" Diameter, 150 To 200 LB Cast Iron Tree Grate With Frame.....	1,054.67	76.12
32 94 43 00-0006	EA		48" Diameter, 200 To 250 LB Cast Iron Tree Grate With Frame.....	1,308.11	76.12
32 94 43 00-0007	EA		54" Diameter, 300 To 350 LB Cast Iron Tree Grate With Frame.....	1,676.66	95.15
32 94 43 00-0008	EA		60" Diameter, Up To 350 LB Cast Iron Tree Grate With Frame.....	1,762.66	114.18
32 94 43 00-0009	EA		60" Diameter, >350 LB Cast Iron Tree Grate With Frame.....	1,939.04	114.18
32 94 43 00-0010	EA		72" Diameter, Up To 550 LB Cast Iron Tree Grate With Frame.....	2,583.87	161.76
32 94 43 00-0011	EA		72" Diameter, >500 To 550 LB Cast Iron Tree Grate With Frame.....	2,686.61	161.76
32 94 43 00-0012	EA		72" Diameter, >600 To 650 LB Cast Iron Tree Grate With Frame.....	2,772.23	161.76
32 94 43 00-0013	EA		72" Diameter, >650 To 700 LB Cast Iron Tree Grate With Frame.....	2,840.73	161.76
32 94 43 00-0014	EA		72" Diameter, >700 LB Cast Iron Tree Grate With Frame.....	2,892.10	161.76
32 94 43 00-0015	EA		93" Diameter, 950 To 1,000 LB Cast Iron Tree Grate With Frame.....	3,175.23	190.30
32 94 43 00-0016 Square Cast Iron Tree Grates With Frames (32 94 43 00-0001)					
32 94 43 00-0017	EA		30" x 30", 75 To 125 LB Cast Iron Tree Grate With Frame.....	696.40	57.09
32 94 43 00-0018	EA		36" x 36", 100 To 150 LB Cast Iron Tree Grate With Frame.....	841.95	57.09
32 94 43 00-0019	EA		48" x 48", Up To 200 LB Cast Iron Tree Grate With Frame.....	1,251.99	95.15
32 94 43 00-0020	EA		48" x 48", >200 To 250 LB Cast Iron Tree Grate With Frame.....	1,474.60	95.15
32 94 43 00-0021	EA		48" x 48", >250 To 300 LB Cast Iron Tree Grate With Frame.....	1,680.09	95.15
32 94 43 00-0022	EA		48" x 48", >300 To 350 LB Cast Iron Tree Grate With Frame.....	1,868.45	95.15
32 94 43 00-0023	EA		48" x 48", >350 To 400 LB Cast Iron Tree Grate With Frame.....	2,039.69	95.15
32 94 43 00-0024	EA		48" x 48", >400 LB Cast Iron Tree Grate With Frame.....	2,193.81	95.15
32 94 43 00-0025	EA		60" x 60", Up To 400 LB Cast Iron Tree Grate With Frame.....	2,115.81	133.21
32 94 43 00-0026	EA		60" x 60", >400 To 450 LB Cast Iron Tree Grate With Frame.....	2,269.93	133.21
32 94 43 00-0027	EA		60" x 60", >450 To 500 LB Cast Iron Tree Grate With Frame.....	2,406.92	133.21
32 94 43 00-0028	EA		60" x 60", >500 To 550 LB Cast Iron Tree Grate With Frame.....	2,526.79	133.21
32 94 43 00-0029	EA		60" x 60", >550 To 600 LB Cast Iron Tree Grate With Frame.....	2,629.53	133.21
32 94 43 00-0030	EA		60" x 60", >600 LB Cast Iron Tree Grate With Frame.....	2,715.15	133.21
32 94 43 00-0031	EA		72" x 72", Up To 550 LB Cast Iron Tree Grate With Frame.....	2,583.87	161.76
32 94 43 00-0032	EA		72" x 72", >550 To 600 LB Cast Iron Tree Grate With Frame.....	2,686.61	161.76
32 94 43 00-0033	EA		72" x 72", >600 To 650 LB Cast Iron Tree Grate With Frame.....	2,772.23	161.76
32 94 43 00-0034	EA		72" x 72", >650 To 700 LB Cast Iron Tree Grate With Frame.....	2,840.73	161.76
32 94 43 00-0035	EA		72" x 72", >700 To 750 LB Cast Iron Tree Grate With Frame.....	2,892.10	161.76
32 94 43 00-0036	EA		72" x 72", >750 To 800 LB Cast Iron Tree Grate With Frame.....	2,926.35	161.76
32 94 43 00-0037	EA		72" x 72", >800 To 850 LB Cast Iron Tree Grate With Frame.....	2,943.47	161.76
32 94 43 00-0038	EA		72" x 72", >850 LB Cast Iron Tree Grate With Frame.....	2,960.60	161.76
32 94 43 00-0039 Rectangular Cast Iron Tree Grates With Frames (32 94 43 00-0001)					
32 94 43 00-0040	EA		36" x 48", 200 To 250 LB Cast Iron Tree Grate With Frame.....	1,308.11	76.12
32 94 43 00-0041	EA		36" x 60", 200 To 250 LB Cast Iron Tree Grate With Frame.....	1,333.80	76.12
32 94 43 00-0042	EA		36" x 72", 275 To 325 LB Cast Iron Tree Grate With Frame.....	1,630.43	95.15
32 94 43 00-0043	EA		48" x 72", Up To 350 LB Cast Iron Tree Grate With Frame.....	1,916.40	95.15
32 94 43 00-0044	EA		48" x 72", >350 LB Cast Iron Tree Grate With Frame.....	2,039.69	95.15
32 94 43 00-0045	EA		60" x 84", 700 To 750 LB Cast Iron Tree Grate With Frame.....	2,737.98	161.76
32 94 49 Plant and Tree Accessories (32 94)					
32 94 49 00-0001 Tree Guying (32 94 49)					
32 94 49 00-0002 Tree Guying, Stakes (32 94 49 00-0001)					
Note: Includes stakes, cross brace, double #12 gauge twisted wire and reinforced rubber hose tree wrap.					
32 94 49 00-0003	EA		Tree Guying Up To 2" Caliper, 2 Stakes, Guy Wire And Wrap.....	29.00	
32 94 49 00-0004	EA		Tree Guying 2" To 3" Caliper, 2 Stakes, Guy Wire And Wrap.....	45.74	
32 94 49 00-0005	EA		Tree Guying 3" To 4" Caliper, 3 Stakes, Guy Wire And Wrap.....	78.92	
32 94 49 00-0006 Tree Guying, Anchors (32 94 49 00-0001)					
Note: Includes arrowhead anchor, cable, turnbuckles and wrap or reinforced rubber hose.					
32 94 49 00-0007	EA		Tree Guying Up To 3" Caliper, 3" Anchors And Polypropylene Flat Rope.....	131.62	

32 Exterior Improvements**32 90 Planting****32 94 Planting Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 94 49 00-0008 EA Tree Guying 3" To 6" Caliper, 4" Anchors And Polypropylene Flat Rope.....	178.71	
32 94 49 00-0009 EA Tree Guying 6" To 8" Caliper, 6" Anchors And Polypropylene Flat Rope.....	233.96	
32 94 49 00-0010 EA Tree Guying 8" And Up Caliper, 8" Anchors And Polypropylene Flat Rope.....	294.58	
32 94 49 00-0011 Tree Wrap (32 94 49)		
32 94 49 00-0012 EA Tree Wrap, Up To 1" Caliper Applied Ground Level To First Branches Of Tree.....	5.66	
32 94 49 00-0013 EA Tree Wrap, 1" To 2" Caliper Applied Ground Level To First Branches Of Tree.....	9.36	
32 94 49 00-0014 EA Tree Wrap, >2" To 4" Caliper Applied Ground Level To First Branches Of Tree.....	18.48	
32 94 49 00-0015 EA Tree Wrap, >4" To 6" Caliper Applied Ground Level To First Branches Of Tree.....	28.40	
32 94 49 00-0016 Tree Guards (32 94 49)		
32 94 49 00-0017 EA 3' Preformed Plastic Tree Guard.....	9.45	
32 94 49 00-0018 EA 2' Preformed Plastic Tree Guard.....	8.68	
32 94 49 00-0019 Stake Out Tree And Shrub Locations (32 94 49)		
Note: When no design available.		
32 94 49 00-0020 EA Stake Out Trees Or Shrubs.....	5.75	
32 94 49 00-0021 Root Barriers (32 94 49)		
32 94 49 00-0022 EA 12" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	9.32	
32 94 49 00-0023 EA 18" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	13.05	
32 94 49 00-0024 EA 24" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	15.38	
32 94 49 00-0025 EA 36" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	28.51	
32 94 49 00-0026 EA 48" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	39.27	
32 96 Transplanting (32 96)		
See CSI section 32 94 49 00-0001 for guying.		
32 96 33 Shrub Transplanting (32 96)		
Note: Includes digging up, moving on site, digging new hole and replanting.		
32 96 33 00-0001 Moving Shrubs On Site, Relocate (32 96 33)		
Note: Includes digging up, moving on site, digging new hole and replanting. See CSI section 32 94 49 00-0001 for guying.		
32 96 33 00-0002 EA Up To 18" Root Ball, Move Shrubs On Site.....	64.47	
For >25 To 50, Deduct	-6.45	
For >50, Deduct	-9.67	
32 96 33 00-0003 EA >18" To 24" Root Ball, Move Shrubs On Site.....	87.22	
For >25 To 50, Deduct	-8.72	
For >50, Deduct	-13.08	
32 96 33 00-0004 EA >24" To 30" Root Ball, Move Shrubs On Site.....	147.89	
For >25 To 50, Deduct	-14.79	
For >50, Deduct	-22.18	
32 96 33 00-0005 EA >30" To 36" Root Ball, Move Shrubs On Site.....	227.52	
For >25 To 50, Deduct	-22.75	
For >50, Deduct	-34.13	
32 96 43 Tree Transplanting (32 96)		
Note: Includes digging up, moving on site, digging new hole and replanting.		
32 96 43 00-0001 Moving Trees On Site, Relocate (32 96 43)		
Note: Includes digging up, moving on site, digging new hole and replanting. Excludes crane where necessary for trees over 20' tall. See CSI section 01 22 23 00-0845 for crane lifting equipment, 32 94 49 00-0001 for guying.		
32 96 43 00-0002 EA Up To 24" Root Ball, Move Trees On Site.....	251.38	
For >5 To 10, Deduct	-12.57	
For >10 To 20, Deduct	-25.14	
For >20, Deduct	-37.71	
32 96 43 00-0003 EA >24" To 30" Root Ball, Move Trees On Site.....	344.75	
For >5 To 10, Deduct	-17.24	
For >10 To 20, Deduct	-34.48	
For >20, Deduct	-51.71	
32 96 43 00-0004 EA >30" To 36" Root Ball, Move Trees On Site.....	558.62	
For >5 To 10, Deduct	-27.93	
For >10 To 20, Deduct	-55.86	
For >20, Deduct	-83.79	
32 96 43 00-0005 EA >36" To 48" Root Ball, Move Trees On Site.....	928.18	
For >5 To 10, Deduct	-46.41	
For >10 To 20, Deduct	-92.82	
For >20, Deduct	-139.23	
32 96 43 00-0006 EA >48" To 60" Root Ball, Move Trees On Site.....	1,508.29	
For >5 To 10, Deduct	-75.41	
For >10 To 20, Deduct	-150.83	
For >20, Deduct	-226.24	
32 96 43 00-0007 EA >60" To 72" Root Ball, Move Trees On Site.....	1,946.19	
For >5 To 10, Deduct	-97.31	
For >10 To 20, Deduct	-194.62	
For >20, Deduct	-291.93	



Exterior Improvements		32
Planting		32 90
Transplanting		32 96

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 96 43 00-0008 EA >72" To 84" Root Ball, Move Trees On Site.....	2,513.82	
For >5 To 10, Deduct	-125.69	
For >10 To 20, Deduct	-251.38	
For >20, Deduct	-377.07	
32 96 43 00-0009 EA >84" To 96" Root Ball, Move Trees On Site.....	3,016.59	
For >5 To 10, Deduct	-150.83	
For >10 To 20, Deduct	-301.66	
For >20, Deduct	-452.49	
32 96 43 00-0010 EA >96" To 120" Root Ball, Move Trees On Site.....	3,427.93	
For >5 To 10, Deduct	-171.40	
For >10 To 20, Deduct	-342.79	
For >20, Deduct	-514.19	

END OF SECTION 32

32	32	Exterior Improvements
	32 90	Planting
	32 96	Transplanting



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 Utilities

33 01 Operation and Maintenance of Utilities ⁽³³⁾

33 01 10 Operation and Maintenance of Water Utilities ^(33 01)

33 01 10 54 **Cleaning of Water Utility Piping** ^(33 01 10)

See CSI section 33 01 30 41-0006 for cleaning of water lines.

33 01 10 58 **Disinfection of Water Utility Piping Systems** ^(33 01 10)

33 01 10 58-0001 **Water Main Disinfection/Sterilization** ^(33 01 10 58)

Note: Gas chlorination. Continuous or plug method.

33 01 10 58-0002	EA	Setting Up And Removing Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method.....	875.61	
33 01 10 58-0003	EA	Re-Set Up/Move Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method	437.81	
33 01 10 58-0004	LF	Up To 4" Diameter Pipe Water Main Disinfection/Sterilization	0.33	
		<i>For >250 To 500, Deduct</i>	-0.02	
		<i>For >500 To 1,000, Deduct</i>	-0.03	
		<i>For >1,000 To 2,000, Deduct</i>	-0.05	
		<i>For >2,000 To 5,000, Deduct</i>	-0.07	
		<i>For >5,000, Deduct</i>	-0.08	
33 01 10 58-0005	LF	6" Diameter Pipe Water Main Disinfection/Sterilization	0.51	
		<i>For >250 To 500, Deduct</i>	-0.03	
		<i>For >500 To 1,000, Deduct</i>	-0.05	
		<i>For >1,000 To 2,000, Deduct</i>	-0.08	
		<i>For >2,000 To 5,000, Deduct</i>	-0.10	
		<i>For >5,000, Deduct</i>	-0.13	
33 01 10 58-0006	LF	8" Diameter Pipe Water Main Disinfection/Sterilization	0.65	
		<i>For >250 To 500, Deduct</i>	-0.03	
		<i>For >500 To 1,000, Deduct</i>	-0.07	
		<i>For >1,000 To 2,000, Deduct</i>	-0.10	
		<i>For >2,000 To 5,000, Deduct</i>	-0.13	
		<i>For >5,000, Deduct</i>	-0.16	
33 01 10 58-0007	LF	10" Diameter Pipe Water Main Disinfection/Sterilization	0.77	
		<i>For >250 To 500, Deduct</i>	-0.04	
		<i>For >500 To 1,000, Deduct</i>	-0.08	
		<i>For >1,000 To 2,000, Deduct</i>	-0.12	
		<i>For >2,000 To 5,000, Deduct</i>	-0.15	
		<i>For >5,000, Deduct</i>	-0.19	
33 01 10 58-0008	LF	12" Diameter Pipe Water Main Disinfection/Sterilization	1.01	
		<i>For >250 To 500, Deduct</i>	-0.05	
		<i>For >500 To 1,000, Deduct</i>	-0.10	
		<i>For >1,000 To 2,000, Deduct</i>	-0.15	
		<i>For >2,000 To 5,000, Deduct</i>	-0.20	
		<i>For >5,000, Deduct</i>	-0.25	
33 01 10 58-0009	LF	>12" To 16" Diameter Pipe Water Main Disinfection/Sterilization	1.14	
		<i>For >250 To 500, Deduct</i>	-0.06	
		<i>For >500 To 1,000, Deduct</i>	-0.11	
		<i>For >1,000 To 2,000, Deduct</i>	-0.17	
		<i>For >2,000 To 5,000, Deduct</i>	-0.23	
		<i>For >5,000, Deduct</i>	-0.29	
33 01 10 58-0010	LF	>16" To 24" Diameter Pipe Water Main Disinfection/Sterilization	1.32	
		<i>For >250 To 500, Deduct</i>	-0.07	
		<i>For >500 To 1,000, Deduct</i>	-0.13	
		<i>For >1,000 To 2,000, Deduct</i>	-0.20	
		<i>For >2,000 To 5,000, Deduct</i>	-0.26	
		<i>For >5,000, Deduct</i>	-0.33	
33 01 10 58-0011	LF	>24" To 30" Diameter Pipe Water Main Disinfection/Sterilization	1.55	
		<i>For >250 To 500, Deduct</i>	-0.08	
		<i>For >500 To 1,000, Deduct</i>	-0.16	
		<i>For >1,000 To 2,000, Deduct</i>	-0.23	
		<i>For >2,000 To 5,000, Deduct</i>	-0.31	
		<i>For >5,000, Deduct</i>	-0.39	
33 01 10 58-0012	LF	>30" To 42" Diameter Pipe Water Main Disinfection/Sterilization	1.99	
		<i>For >250 To 500, Deduct</i>	-0.10	
		<i>For >500 To 1,000, Deduct</i>	-0.20	
		<i>For >1,000 To 2,000, Deduct</i>	-0.30	
		<i>For >2,000 To 5,000, Deduct</i>	-0.40	
		<i>For >5,000, Deduct</i>	-0.50	
33 01 10 58-0013	LF	>42" To 60" Diameter Pipe Water Main Disinfection/Sterilization	2.92	
		<i>For >250 To 500, Deduct</i>	-0.15	
		<i>For >500 To 1,000, Deduct</i>	-0.29	
		<i>For >1,000 To 2,000, Deduct</i>	-0.44	
		<i>For >2,000 To 5,000, Deduct</i>	-0.58	
		<i>For >5,000, Deduct</i>	-0.73	
33 01 10 58-0014	LF	>60" Diameter Pipe Water Main Disinfection/Sterilization	4.04	
		<i>For >250 To 500, Deduct</i>	-0.20	
		<i>For >500 To 1,000, Deduct</i>	-0.40	
		<i>For >1,000 To 2,000, Deduct</i>	-0.61	
		<i>For >2,000 To 5,000, Deduct</i>	-0.81	
		<i>For >5,000, Deduct</i>	-1.01	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 10 Operation and Maintenance of Water Utilities**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**33 01 10 71 Relining Water Utilities Pipelines** (33 01 10)

See CSI section 33 01 30 71-0000 for relining water pipelines.

33 01 10 71-0001	Relining Underground Water Pipelines <small>(33 01 10 71)</small>	
	Note: Excludes costs for CCTV inspection, pipe cleaning, pavement; temporary and permanent, emergency after hours response for homeowners backups.	
33 01 10 71-0002	Relining Underground Water Pipelines Set-Up And Reinsertion <small>(33 01 10 71-0001)</small>	
33 01 10 71-0003	EA Initial Set Up And Final Equipment Removal For Relining Underground Water Pipelines	4,589.63
33 01 10 71-0004	EA Move And Reset Up At Different Access/Location	1,835.85
33 01 10 71-0005	Lining Pipe With Cement <small>(33 01 10 71-0001)</small>	
33 01 10 71-0006	LF Up To 500', 4" Pipe, 1/8" Pipe Lining With Cement.....	55.78
	<i>For 3/16" Thickness, Add</i>	0.71
	<i>For 1/4" Thickness, Add</i>	1.41
33 01 10 71-0007	LF >500' To 1,000', 4" Pipe, 1/8" Pipe Lining With Cement.....	49.63
	<i>For 3/16" Thickness, Add</i>	0.71
	<i>For 1/4" Thickness, Add</i>	1.41
33 01 10 71-0008	LF >1,000' To 5,000', 4" Pipe, 1/8" Pipe Lining With Cement.....	41.41
	<i>For 3/16" Thickness, Add</i>	0.71
	<i>For 1/4" Thickness, Add</i>	1.41
33 01 10 71-0009	LF >5,000', 4" Pipe, 1/8" Pipe Lining With Cement	31.08
	<i>For 3/16" Thickness, Add</i>	0.71
	<i>For 1/4" Thickness, Add</i>	1.41
33 01 10 71-0010	LF Up To 500', 6" Pipe, 1/8" Pipe Lining With Cement.....	57.88
	<i>For 3/16" Thickness, Add</i>	1.06
	<i>For 1/4" Thickness, Add</i>	2.11
33 01 10 71-0011	LF >500' To 1,000', 6" Pipe, 1/8" Pipe Lining With Cement.....	51.51
	<i>For 3/16" Thickness, Add</i>	1.06
	<i>For 1/4" Thickness, Add</i>	2.11
33 01 10 71-0012	LF >1,000' To 5,000', 6" Pipe, 1/8" Pipe Lining With Cement.....	43.00
	<i>For 3/16" Thickness, Add</i>	1.06
	<i>For 1/4" Thickness, Add</i>	2.11
33 01 10 71-0013	LF >5,000', 6" Pipe, 1/8" Pipe Lining With Cement	32.53
	<i>For 3/16" Thickness, Add</i>	1.06
	<i>For 1/4" Thickness, Add</i>	2.11
33 01 10 71-0014	LF Up To 500', 8" Pipe, 1/8" Pipe Lining With Cement.....	59.90
	<i>For 3/16" Thickness, Add</i>	1.41
	<i>For 1/4" Thickness, Add</i>	2.81
33 01 10 71-0015	LF >500' To 1,000', 8" Pipe, 1/8" Pipe Lining With Cement.....	53.38
	<i>For 3/16" Thickness, Add</i>	1.41
	<i>For 1/4" Thickness, Add</i>	2.81
33 01 10 71-0016	LF >1,000' To 5,000', 8" Pipe, 1/8" Pipe Lining With Cement.....	44.59
	<i>For 3/16" Thickness, Add</i>	1.41
	<i>For 1/4" Thickness, Add</i>	2.81
33 01 10 71-0017	LF >5,000', 8" Pipe, 1/8" Pipe Lining With Cement	33.98
	<i>For 3/16" Thickness, Add</i>	1.41
	<i>For 1/4" Thickness, Add</i>	2.81
33 01 10 71-0018	LF Up To 500', 10" Pipe, 1/8" Pipe Lining With Cement.....	61.41
	<i>For 3/16" Thickness, Add</i>	1.76
	<i>For 1/4" Thickness, Add</i>	3.52
33 01 10 71-0019	LF >500' To 1,000', 10" Pipe, 1/8" Pipe Lining With Cement.....	54.79
	<i>For 3/16" Thickness, Add</i>	1.76
	<i>For 1/4" Thickness, Add</i>	3.52
33 01 10 71-0020	LF >1,000' To 5,000', 10" Pipe, 1/8" Pipe Lining With Cement.....	45.87
	<i>For 3/16" Thickness, Add</i>	1.76
	<i>For 1/4" Thickness, Add</i>	3.52
33 01 10 71-0021	LF >5,000', 10" Pipe, 1/8" Pipe Lining With Cement	35.45
	<i>For 3/16" Thickness, Add</i>	1.76
	<i>For 1/4" Thickness, Add</i>	3.52
33 01 10 71-0022	LF Up To 500', 12" Pipe, 1/8" Pipe Lining With Cement.....	66.28
	<i>For 3/16" Thickness, Add</i>	2.11
	<i>For 1/4" Thickness, Add</i>	4.22
33 01 10 71-0023	LF >500' To 1,000', 12" Pipe, 1/8" Pipe Lining With Cement.....	59.25
	<i>For 3/16" Thickness, Add</i>	2.11
	<i>For 1/4" Thickness, Add</i>	4.22
33 01 10 71-0024	LF >1,000' To 5,000', 12" Pipe, 1/8" Pipe Lining With Cement.....	49.75
	<i>For 3/16" Thickness, Add</i>	2.11
	<i>For 1/4" Thickness, Add</i>	4.22
33 01 10 71-0025	LF >5,000', 12" Pipe, 1/8" Pipe Lining With Cement	38.49
	<i>For 3/16" Thickness, Add</i>	2.11
	<i>For 1/4" Thickness, Add</i>	4.22
33 01 10 71-0026	LF Up To 500', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	70.98
	<i>For 1/4" Thickness, Add</i>	2.35
	<i>For 5/16" Thickness, Add</i>	4.69
33 01 10 71-0027	LF >500' To 1,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement.....	63.69
	<i>For 1/4" Thickness, Add</i>	2.35
	<i>For 5/16" Thickness, Add</i>	4.69
33 01 10 71-0028	LF >1,000' To 5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	53.80
	<i>For 1/4" Thickness, Add</i>	2.35
	<i>For 5/16" Thickness, Add</i>	4.69
33 01 10 71-0029	LF >5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement.....	43.00
	<i>For 1/4" Thickness, Add</i>	2.35
	<i>For 5/16" Thickness, Add</i>	4.69



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0030 LF Up To 500', >16" To 20" Pipe, 3/16" Pipe Lining With Cement	74.26	
<i>For 1/4" Thickness, Add</i>	2.81	
<i>For 5/16" Thickness, Add</i>	5.63	
33 01 10 71-0031 LF >500' To 1,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement	66.74	
<i>For 1/4" Thickness, Add</i>	2.81	
<i>For 5/16" Thickness, Add</i>	5.63	
33 01 10 71-0032 LF >1,000' To 5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement	56.51	
<i>For 1/4" Thickness, Add</i>	2.81	
<i>For 5/16" Thickness, Add</i>	5.63	
33 01 10 71-0033 LF >5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement	46.28	
<i>For 1/4" Thickness, Add</i>	2.81	
<i>For 5/16" Thickness, Add</i>	5.63	
33 01 10 71-0034 LF Up To 500', >20" To 22" Pipe, 3/16" Pipe Lining With Cement	78.39	
<i>For 1/4" Thickness, Add</i>	3.28	
<i>For 5/16" Thickness, Add</i>	6.57	
33 01 10 71-0035 LF >500' To 1,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement	70.61	
<i>For 1/4" Thickness, Add</i>	3.28	
<i>For 5/16" Thickness, Add</i>	6.57	
33 01 10 71-0036 LF >1,000' To 5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement	59.89	
<i>For 1/4" Thickness, Add</i>	3.28	
<i>For 5/16" Thickness, Add</i>	6.57	
33 01 10 71-0037 LF >5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement	50.32	
<i>For 1/4" Thickness, Add</i>	3.28	
<i>For 5/16" Thickness, Add</i>	6.57	
33 01 10 71-0038 LF Up To 500', 24" Pipe, 3/16" Pipe Lining With Cement	82.62	
<i>For 1/4" Thickness, Add</i>	3.75	
<i>For 5/16" Thickness, Add</i>	7.51	
33 01 10 71-0039 LF >500' To 1,000', 24" Pipe, 3/16" Pipe Lining With Cement	74.52	
<i>For 1/4" Thickness, Add</i>	3.75	
<i>For 5/16" Thickness, Add</i>	7.51	
33 01 10 71-0040 LF >1,000' To 5,000', 24" Pipe, 3/16" Pipe Lining With Cement	63.46	
<i>For 1/4" Thickness, Add</i>	3.75	
<i>For 5/16" Thickness, Add</i>	7.51	
33 01 10 71-0041 LF >5,000', 24" Pipe, 3/16" Pipe Lining With Cement	54.54	
<i>For 1/4" Thickness, Add</i>	3.75	
<i>For 5/16" Thickness, Add</i>	7.51	
33 01 10 71-0042 LF Up To 500', 30" Pipe, 3/16" Pipe Lining With Cement	88.15	
<i>For 1/4" Thickness, Add</i>	4.69	
<i>For 5/16" Thickness, Add</i>	9.38	
33 01 10 71-0043 LF >500' To 1,000', 30" Pipe, 3/16" Pipe Lining With Cement	79.57	
<i>For 1/4" Thickness, Add</i>	4.69	
<i>For 5/16" Thickness, Add</i>	9.38	
33 01 10 71-0044 LF >1,000' To 5,000', 30" Pipe, 3/16" Pipe Lining With Cement	67.87	
<i>For 1/4" Thickness, Add</i>	4.69	
<i>For 5/16" Thickness, Add</i>	9.38	
33 01 10 71-0045 LF >5,000', 30" Pipe, 3/16" Pipe Lining With Cement	58.86	
<i>For 1/4" Thickness, Add</i>	4.69	
<i>For 5/16" Thickness, Add</i>	9.38	
33 01 10 71-0046 LF Up To 500', 36" Pipe, 3/16" Pipe Lining With Cement	93.60	
<i>For 1/4" Thickness, Add</i>	5.63	
<i>For 5/16" Thickness, Add</i>	11.26	
33 01 10 71-0047 LF 500' To 1,000', 36" Pipe, 3/16" Pipe Lining With Cement	84.65	
<i>For 1/4" Thickness, Add</i>	5.63	
<i>For 5/16" Thickness, Add</i>	11.26	
33 01 10 71-0048 LF >1,000' To 5,000', 36" Pipe, 3/16" Pipe Lining With Cement	72.29	
<i>For 1/4" Thickness, Add</i>	5.63	
<i>For 5/16" Thickness, Add</i>	11.26	
33 01 10 71-0049 LF >5,000', 36" Pipe, 3/16" Pipe Lining With Cement	63.18	
<i>For 1/4" Thickness, Add</i>	5.63	
<i>For 5/16" Thickness, Add</i>	11.26	
33 01 10 71-0050 LF Up To 500', 42" Pipe, 1/4" Pipe Lining With Cement	113.40	
<i>For 3/8" Thickness, Add</i>	14.78	
<i>For 7/16" Thickness, Add</i>	22.16	
33 01 10 71-0051 LF >500' To 1,000', 42" Pipe, 1/4" Pipe Lining With Cement	103.64	
<i>For 3/8" Thickness, Add</i>	14.78	
<i>For 7/16" Thickness, Add</i>	22.16	
33 01 10 71-0052 LF >1,000' To 5,000', 42" Pipe, 1/4" Pipe Lining With Cement	90.20	
<i>For 3/8" Thickness, Add</i>	14.78	
<i>For 7/16" Thickness, Add</i>	22.16	
33 01 10 71-0053 LF >5,000', 42" Pipe, 1/4" Pipe Lining With Cement	80.82	
<i>For 3/8" Thickness, Add</i>	14.78	
<i>For 7/16" Thickness, Add</i>	22.16	
33 01 10 71-0054 LF Up To 500', 48" Pipe, 1/4" Pipe Lining With Cement	124.66	
<i>For 3/8" Thickness, Add</i>	16.89	
<i>For 7/16" Thickness, Add</i>	25.33	
33 01 10 71-0055 LF >500' To 1,000', 48" Pipe, 1/4" Pipe Lining With Cement	114.22	
<i>For 3/8" Thickness, Add</i>	16.89	
<i>For 7/16" Thickness, Add</i>	25.33	
33 01 10 71-0056 LF >1,000' To 5,000', 48" Pipe, 1/4" Pipe Lining With Cement	99.78	
<i>For 3/8" Thickness, Add</i>	16.89	
<i>For 7/16" Thickness, Add</i>	25.33	
33 01 10 71-0057 LF >5,000', 48" Pipe, 1/4" Pipe Lining With Cement	90.20	
<i>For 3/8" Thickness, Add</i>	16.89	
<i>For 7/16" Thickness, Add</i>	25.33	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 10 Operation and Maintenance of Water Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0058 LF Up To 500', 54" Pipe, 1/4" Pipe Lining With Cement.....	130.57	
For 3/8" Thickness, Add	19.00	
For 7/16" Thickness, Add	28.49	
33 01 10 71-0059 LF >500' To 1,000', 54" Pipe, 1/4" Pipe Lining With Cement.....	119.91	
For 3/8" Thickness, Add	19.00	
For 7/16" Thickness, Add	28.49	
33 01 10 71-0060 LF >1,000' To 5,000', 54" Pipe, 1/4" Pipe Lining With Cement.....	105.12	
For 3/8" Thickness, Add	19.00	
For 7/16" Thickness, Add	28.49	
33 01 10 71-0061 LF >5,000', 54" Pipe, 1/4" Pipe Lining With Cement	95.92	
For 3/8" Thickness, Add	19.00	
For 7/16" Thickness, Add	28.49	
33 01 10 71-0062 LF Up To 500', 60" Pipe, 1/4" Pipe Lining With Cement.....	136.49	
For 3/8" Thickness, Add	21.11	
For 7/16" Thickness, Add	31.67	
33 01 10 71-0063 LF >500' To 1,000', 60" Pipe, 1/4" Pipe Lining With Cement.....	125.64	
For 3/8" Thickness, Add	21.11	
For 7/16" Thickness, Add	31.67	
33 01 10 71-0064 LF >1,000' To 5,000', 60" Pipe, 1/4" Pipe Lining With Cement.....	110.57	
For 3/8" Thickness, Add	21.11	
For 7/16" Thickness, Add	31.67	
33 01 10 71-0065 LF >5,000', 60" Pipe, 1/4" Pipe Lining With Cement	101.65	
For 3/8" Thickness, Add	21.11	
For 7/16" Thickness, Add	31.67	
33 01 10 71-0066 LF Up To 500', 66" Pipe, 1/4" Pipe Lining With Cement.....	142.68	
For 3/8" Thickness, Add	23.22	
For 7/16" Thickness, Add	34.83	
33 01 10 71-0067 LF >500' To 1,000', 66" Pipe, 1/4" Pipe Lining With Cement.....	131.60	
For 3/8" Thickness, Add	23.22	
For 7/16" Thickness, Add	34.83	
33 01 10 71-0068 LF >1,000' To 5,000', 66" Pipe, 1/4" Pipe Lining With Cement.....	116.29	
For 3/8" Thickness, Add	23.22	
For 7/16" Thickness, Add	34.83	
33 01 10 71-0069 LF >5,000', 66" Pipe, 1/4" Pipe Lining With Cement	108.04	
For 3/8" Thickness, Add	23.22	
For 7/16" Thickness, Add	34.83	
33 01 10 71-0070 LF Up To 500', 72" Pipe, 1/4" Pipe Lining With Cement.....	149.25	
For 3/8" Thickness, Add	25.33	
For 7/16" Thickness, Add	38.00	
33 01 10 71-0071 LF >500' To 1,000', 72" Pipe, 1/4" Pipe Lining With Cement.....	137.98	
For 3/8" Thickness, Add	25.33	
For 7/16" Thickness, Add	38.00	
33 01 10 71-0072 LF >1,000' To 5,000', 72" Pipe, 1/4" Pipe Lining With Cement.....	122.30	
For 3/8" Thickness, Add	25.33	
For 7/16" Thickness, Add	38.00	
33 01 10 71-0073 LF >5,000', 72" Pipe, 1/4" Pipe Lining With Cement	114.50	
For 3/8" Thickness, Add	25.33	
For 7/16" Thickness, Add	38.00	

33 01 30 Operation and Maintenance of Sewer Utilities (33 01)**33 01 30 11 Television Inspection Of Pipelines** (33 01 30)

Note: Rotating head color camera. Includes all log records and color video tape, DVD or CD.

33 01 30 11-0001 Remote Visual Inspection (RVI) Of Pipe Interior And Culverts (33 01 30 11)**33 01 30 11-0002 Video Camera Set-up** (33 01 30 11-0001)

33 01 30 11-0003 EA Initial Set Up For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert	782.21	
Note: A "push camera" is a straight view camera at the end of a rigid push rod for 1"-12" diameter pipes for distances up to 300 feet.		
33 01 30 11-0004 EA Initial Set Up For "Crawler" Video Camera Inspection, 4" To 30" Diameter Pipe Or Culvert.....	1,564.40	
Note: Crawlers are generally remotely operated vehicles (ROVs) for longer distances (over 300') and for larger diameters (4" and larger).		
33 01 30 11-0005 EA Initial Set Up For "Crawler" Video Camera Inspection, >30" Diameter Pipe Or Culvert	2,346.61	
33 01 30 11-0006 EA Re-Set Up/Move For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert	391.10	
33 01 30 11-0007 EA Re-Set Up/Move For "Crawler" Video Camera Inspection, 4" And Larger Diameter Pipe Or Culvert.....	782.21	

33 01 30 11-0008 Video Camera Planning And Analysis Inspection (33 01 30 11-0001)

Note: For pipe interior and culverts.

33 01 30 11-0009 LF 4" To 6" Diameter Pipe Inspection, Planning/Analysis Phase	1.99	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.20	
For >1,000 To 5,000, Deduct	-0.50	
For >5,000, Deduct	-0.70	
33 01 30 11-0010 LF >6" To 12" Diameter Pipe Inspection, Planning/Analysis Phase	2.64	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.26	
For >1,000 To 5,000, Deduct	-0.66	
For >5,000, Deduct	-0.92	
33 01 30 11-0011 LF >12" To 21" Diameter Pipe Inspection, Planning/Analysis Phase	3.30	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.33	
For >1,000 To 5,000, Deduct	-0.83	
For >5,000, Deduct	-1.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 11-0012 LF >21" To 30" Diameter Pipe Inspection, Planning/Analysis Phase.....	4.41	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.44	
For >1,000 To 5,000, Deduct	-1.10	
For >5,000, Deduct	-1.54	
33 01 30 11-0013 LF >30" To 42" Diameter Pipe Inspection, Planning/Analysis Phase.....	6.20	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.62	
For >1,000 To 5,000, Deduct	-1.55	
For >5,000, Deduct	-2.17	
33 01 30 11-0014 LF >42" To 60" Diameter Pipe Inspection, Planning/Analysis Phase.....	8.26	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.83	
For >1,000 To 5,000, Deduct	-2.07	
For >5,000, Deduct	-2.89	
33 01 30 11-0015 LF >60" To 72" Diameter Pipe Inspection, Planning/Analysis Phase.....	11.67	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.17	
For >1,000 To 5,000, Deduct	-2.92	
For >5,000, Deduct	-4.08	
33 01 30 11-0016 LF >72" To 84" Diameter Pipe Inspection, Planning/Analysis Phase.....	16.53	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.65	
For >1,000 To 5,000, Deduct	-4.13	
For >5,000, Deduct	-5.79	
33 01 30 11-0017 Video Camera Pre-Rehab For Pipe Interior And Culverts (33 01 30 11-0001)		
33 01 30 11-0018 LF 4" To 6" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	2.93	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.29	
For >1,000 To 5,000, Deduct	-0.73	
For >5,000, Deduct	-1.03	
33 01 30 11-0019 LF >6" To 12" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	3.91	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.39	
For >1,000 To 5,000, Deduct	-0.98	
For >5,000, Deduct	-1.37	
33 01 30 11-0020 LF >12" To 21" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	4.89	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.49	
For >1,000 To 5,000, Deduct	-1.22	
For >5,000, Deduct	-1.71	
33 01 30 11-0021 LF >21" To 30" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	6.51	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.65	
For >1,000 To 5,000, Deduct	-1.63	
For >5,000, Deduct	-2.28	
33 01 30 11-0022 LF >30" To 42" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	9.17	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.92	
For >1,000 To 5,000, Deduct	-2.29	
For >5,000, Deduct	-3.21	
33 01 30 11-0023 LF >42" To 60" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	12.22	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.22	
For >1,000 To 5,000, Deduct	-3.06	
For >5,000, Deduct	-4.28	
33 01 30 11-0024 LF >60" To 72" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	17.25	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.73	
For >1,000 To 5,000, Deduct	-4.31	
For >5,000, Deduct	-6.04	
33 01 30 11-0025 LF >72" To 84" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	24.45	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-2.45	
For >1,000 To 5,000, Deduct	-6.11	
For >5,000, Deduct	-8.56	
33 01 30 11-0026 Video Camera Post-Rehab For Pipe Interior And Culverts (33 01 30 11-0001)		
33 01 30 11-0027 LF 4" To 6" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	2.09	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.21	
For >1,000 To 5,000, Deduct	-0.52	
For >5,000, Deduct	-0.73	
33 01 30 11-0028 LF >6" To 12" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	2.79	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.28	
For >1,000 To 5,000, Deduct	-0.70	
For >5,000, Deduct	-0.98	
33 01 30 11-0029 LF >12" To 21" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	3.49	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.35	
For >1,000 To 5,000, Deduct	-0.87	
For >5,000, Deduct	-1.22	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 11-0030 LF >21" To 30" Diameter Pipe Inspection, Post-Rehabilitation Phase	4.66	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.47	
For >1,000 To 5,000, Deduct	-1.17	
For >5,000, Deduct	-1.63	
33 01 30 11-0031 LF >30" To 42" Diameter Pipe Inspection, Post-Rehabilitation Phase	6.55	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.66	
For >1,000 To 5,000, Deduct	-1.64	
For >5,000, Deduct	-2.29	
33 01 30 11-0032 LF >42" To 60" Diameter Pipe Inspection, Post-Rehabilitation Phase	8.73	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.87	
For >1,000 To 5,000, Deduct	-2.18	
For >5,000, Deduct	-3.06	
33 01 30 11-0033 LF >60" To 72" Diameter Pipe Inspection, Post-Rehabilitation Phase	12.33	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.23	
For >1,000 To 5,000, Deduct	-3.08	
For >5,000, Deduct	-4.32	
33 01 30 11-0034 LF >72" To 84" Diameter Pipe Inspection, Post-Rehabilitation Phase	17.46	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.75	
For >1,000 To 5,000, Deduct	-4.37	
For >5,000, Deduct	-6.11	
33 01 30 41 Cleaning of Sewers (33 01 30)		
33 01 30 41-0001 Pipe Line Cleaning And Flushing (33 01 30 41)		
Note: Includes flushing. Owner provided water.		
33 01 30 41-0002 Pipe Line Cleaning (33 01 30 41-0001)		
Note: Includes removal of all debris/waste. Excludes disposal.		
33 01 30 41-0003 Hydro Jet Set-up And Reinsertion (33 01 30 41-0002)		
33 01 30 41-0004 EA Initial Set Up And Final Equipment Removal For Jet Cleaning	2,432.75	
33 01 30 41-0005 EA Move And Reset Up At Different Access/Location For Jet Cleaning	608.19	
33 01 30 41-0006 Hydro Jet Cleaning Of Sewer And Water Pipelines (33 01 30 41-0002)		
33 01 30 41-0007 LF Up To 4" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	3.27	
For >250 To 500, Deduct	-0.16	
For >500 To 1,000, Deduct	-0.33	
For >1,000 To 2,000, Deduct	-0.49	
For >2,000 To 5,000, Deduct	-0.65	
For >5,000, Deduct	-0.82	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	2.45	
33 01 30 41-0008 LF 6" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	3.76	
For >250 To 500, Deduct	-0.19	
For >500 To 1,000, Deduct	-0.38	
For >1,000 To 2,000, Deduct	-0.56	
For >2,000 To 5,000, Deduct	-0.75	
For >5,000, Deduct	-0.94	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	2.82	
33 01 30 41-0009 LF 8" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	4.41	
For >250 To 500, Deduct	-0.22	
For >500 To 1,000, Deduct	-0.44	
For >1,000 To 2,000, Deduct	-0.66	
For >2,000 To 5,000, Deduct	-0.88	
For >5,000, Deduct	-1.10	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	3.31	
33 01 30 41-0010 LF 10" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	5.45	
For >250 To 500, Deduct	-0.27	
For >500 To 1,000, Deduct	-0.55	
For >1,000 To 2,000, Deduct	-0.82	
For >2,000 To 5,000, Deduct	-1.09	
For >5,000, Deduct	-1.36	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	4.09	
33 01 30 41-0011 LF 12" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	6.19	
For >250 To 500, Deduct	-0.31	
For >500 To 1,000, Deduct	-0.62	
For >1,000 To 2,000, Deduct	-0.93	
For >2,000 To 5,000, Deduct	-1.24	
For >5,000, Deduct	-1.55	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	4.64	
33 01 30 41-0012 LF >12" To 16" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	7.14	
For >250 To 500, Deduct	-0.36	
For >500 To 1,000, Deduct	-0.71	
For >1,000 To 2,000, Deduct	-1.07	
For >2,000 To 5,000, Deduct	-1.43	
For >5,000, Deduct	-1.79	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	5.36	



Utilities		33
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0013	LF		>16" To 24" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes 8.59		
			For >250 To 500, Deduct	-0.43	
			For >500 To 1,000, Deduct	-0.86	
			For >1,000 To 2,000, Deduct	-1.29	
			For >2,000 To 5,000, Deduct	-1.72	
			For >5,000, Deduct	-2.15	
			For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	6.44	
33 01 30 41-0014	LF		>24" To 30" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes 9.74		
			For >250 To 500, Deduct	-0.49	
			For >500 To 1,000, Deduct	-0.97	
			For >1,000 To 2,000, Deduct	-1.46	
			For >2,000 To 5,000, Deduct	-1.95	
			For >5,000, Deduct	-2.44	
			For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	7.31	
33 01 30 41-0015	LF		>30" To 42" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes 11.52		
			For >250 To 500, Deduct	-0.58	
			For >500 To 1,000, Deduct	-1.15	
			For >1,000 To 2,000, Deduct	-1.73	
			For >2,000 To 5,000, Deduct	-2.30	
			For >5,000, Deduct	-2.88	
			For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	8.64	
33 01 30 41-0016	LF		>42" To 60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes 14.48		
			For >250 To 500, Deduct	-0.72	
			For >500 To 1,000, Deduct	-1.45	
			For >1,000 To 2,000, Deduct	-2.17	
			For >2,000 To 5,000, Deduct	-2.90	
			For >5,000, Deduct	-3.62	
			For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	10.86	
33 01 30 41-0017	LF		>60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes 16.89		
			For >250 To 500, Deduct	-0.84	
			For >500 To 1,000, Deduct	-1.69	
			For >1,000 To 2,000, Deduct	-2.53	
			For >2,000 To 5,000, Deduct	-3.38	
			For >5,000, Deduct	-4.22	
			For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	12.67	
33 01 30 41-0018 Flushing Of Storm Water Pipelines (33 01 30 41-0002)					
Note: To remove silt and small debris from storm drainage pipes. Excludes disposal.					
33 01 30 41-0019	LF		12" To 16" Diameter Pipe Line Flushing 1.22		
			For >250 To 500, Deduct	-0.06	
			For >500 To 1,000, Deduct	-0.12	
			For >1,000 To 2,000, Deduct	-0.18	
			For >2,000 To 5,000, Deduct	-0.24	
			For >5,000, Deduct	-0.31	
33 01 30 41-0020	LF		>16" To 24" Diameter Pipe Line Flushing 1.40		
			For >250 To 500, Deduct	-0.07	
			For >500 To 1,000, Deduct	-0.14	
			For >1,000 To 2,000, Deduct	-0.21	
			For >2,000 To 5,000, Deduct	-0.28	
			For >5,000, Deduct	-0.35	
33 01 30 41-0021	LF		>24" To 30" Diameter Pipe Line Flushing 1.64		
			For >250 To 500, Deduct	-0.08	
			For >500 To 1,000, Deduct	-0.16	
			For >1,000 To 2,000, Deduct	-0.25	
			For >2,000 To 5,000, Deduct	-0.33	
			For >5,000, Deduct	-0.41	
33 01 30 41-0022	LF		>30" To 42" Diameter Pipe Line Flushing 1.89		
			For >250 To 500, Deduct	-0.09	
			For >500 To 1,000, Deduct	-0.19	
			For >1,000 To 2,000, Deduct	-0.28	
			For >2,000 To 5,000, Deduct	-0.38	
			For >5,000, Deduct	-0.47	
33 01 30 41-0023	LF		>42" To 60" Diameter Pipe Line Flushing 2.51		
			For >250 To 500, Deduct	-0.13	
			For >500 To 1,000, Deduct	-0.25	
			For >1,000 To 2,000, Deduct	-0.38	
			For >2,000 To 5,000, Deduct	-0.50	
			For >5,000, Deduct	-0.63	
33 01 30 41-0024 Hydro Jet Cleaning Of Culverts (33 01 30 41-0002)					
33 01 30 41-0025	LF		Jet Cleaning Of Culvert, 0-250 LF 15.13		
			For >250 To 500, Deduct	-0.76	
			For >500 To 1,000, Deduct	-1.51	
			For >1,000 To 2,000, Deduct	-2.27	
			For >2,000 To 5,000, Deduct	-3.03	
			For >5,000, Deduct	-3.78	
33 01 30 41-0026 Pipe Line Cleaning, Mechanical Method (33 01 30 41-0001)					
Note: Power winching buckets, scrapers, scooters, porcupines, brushes and other debris removing equipment. Includes removal of all debris/waste. Excludes disposal.					
33 01 30 41-0027	EA		Initial Set Up And Final Equipment Removal For Mechanical Cleaning 1,050.74		
33 01 30 41-0028	EA		Move And Reset Up At Different Access/Location 350.25		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0029 LF Up To 4" Diameter Pipe Line Cleaning, Mechanical Method.....	6.05	
For >250 To 500, Deduct	-0.29	
For >500 To 1,000, Deduct	-0.58	
For >1,000 To 2,000, Deduct	-0.88	
For >2,000 To 5,000, Deduct	-1.17	
For >5,000, Deduct	-1.46	
33 01 30 41-0030 LF 6" Diameter Pipe Line Cleaning, Mechanical Method.....	7.92	
For >250 To 500, Deduct	-0.38	
For >500 To 1,000, Deduct	-0.75	
For >1,000 To 2,000, Deduct	-1.13	
For >2,000 To 5,000, Deduct	-1.50	
For >5,000, Deduct	-1.88	
33 01 30 41-0031 LF 8" Diameter Pipe Line Cleaning, Mechanical Method.....	9.28	
For >250 To 500, Deduct	-0.44	
For >500 To 1,000, Deduct	-0.88	
For >1,000 To 2,000, Deduct	-1.31	
For >2,000 To 5,000, Deduct	-1.75	
For >5,000, Deduct	-2.19	
33 01 30 41-0032 LF 10" Diameter Pipe Line Cleaning, Mechanical Method.....	10.73	
For >250 To 500, Deduct	-0.51	
For >500 To 1,000, Deduct	-1.01	
For >1,000 To 2,000, Deduct	-1.52	
For >2,000 To 5,000, Deduct	-2.02	
For >5,000, Deduct	-2.53	
33 01 30 41-0033 LF 12" Diameter Pipe Line Cleaning, Mechanical Method.....	11.68	
For >250 To 500, Deduct	-0.55	
For >500 To 1,000, Deduct	-1.10	
For >1,000 To 2,000, Deduct	-1.64	
For >2,000 To 5,000, Deduct	-2.19	
For >5,000, Deduct	-2.74	
33 01 30 41-0034 LF >12" To 16" Diameter Pipe Line Cleaning, Mechanical Method.....	13.44	
For >250 To 500, Deduct	-0.63	
For >500 To 1,000, Deduct	-1.25	
For >1,000 To 2,000, Deduct	-1.88	
For >2,000 To 5,000, Deduct	-2.50	
For >5,000, Deduct	-3.13	
33 01 30 41-0035 LF >16" To 24" Diameter Pipe Line Cleaning, Mechanical Method.....	16.90	
For >250 To 500, Deduct	-0.77	
For >500 To 1,000, Deduct	-1.55	
For >1,000 To 2,000, Deduct	-2.32	
For >2,000 To 5,000, Deduct	-3.09	
For >5,000, Deduct	-3.86	
33 01 30 41-0036 LF >24" To 30" Diameter Pipe Line Cleaning, Mechanical Method.....	19.29	
For >250 To 500, Deduct	-0.86	
For >500 To 1,000, Deduct	-1.72	
For >1,000 To 2,000, Deduct	-2.58	
For >2,000 To 5,000, Deduct	-3.44	
For >5,000, Deduct	-4.31	
33 01 30 41-0037 LF >30" To 42" Diameter Pipe Line Cleaning, Mechanical Method.....	22.42	
For >250 To 500, Deduct	-0.99	
For >500 To 1,000, Deduct	-1.98	
For >1,000 To 2,000, Deduct	-2.97	
For >2,000 To 5,000, Deduct	-3.97	
For >5,000, Deduct	-4.96	
33 01 30 41-0038 LF >42 To 60" Diameter Pipe Line Cleaning, Mechanical Method.....	29.38	
For >250 To 500, Deduct	-1.31	
For >500 To 1,000, Deduct	-2.63	
For >1,000 To 2,000, Deduct	-3.94	
For >2,000 To 5,000, Deduct	-5.25	
For >5,000, Deduct	-6.57	
33 01 30 41-0039 LF >60" Diameter Pipe Line Cleaning, Mechanical Method.....	33.34	
For >250 To 500, Deduct	-1.46	
For >500 To 1,000, Deduct	-2.92	
For >1,000 To 2,000, Deduct	-4.38	
For >2,000 To 5,000, Deduct	-5.84	
For >5,000, Deduct	-7.30	
33 01 30 41-0040 Pipe Line Auguring/Rod Out Pipe (33 01 30 41-0001)		
33 01 30 41-0041 EA Initial Set Up And Final Equipment Removal For Auguring.....	1,050.74	
33 01 30 41-0042 EA Move And Reset Up At Different Location.....	350.25	
33 01 30 41-0043 LF Up To 4" Diameter Pipe Line Auguring/Rod Out.....	3.51	
For >250 To 500, Deduct	-0.18	
For >500 To 1,000, Deduct	-0.35	
For >1,000 To 2,000, Deduct	-0.53	
For >2,000 To 5,000, Deduct	-0.70	
For >5,000, Deduct	-0.88	
33 01 30 41-0044 LF 6" Diameter Pipe Line Auguring/Rod Out.....	4.53	
For >250 To 500, Deduct	-0.23	
For >500 To 1,000, Deduct	-0.45	
For >1,000 To 2,000, Deduct	-0.68	
For >2,000 To 5,000, Deduct	-0.91	
For >5,000, Deduct	-1.13	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0045 LF 8" Diameter Pipe Line Auguring/Rod Out.....	5.25	
<i>For >250 To 500, Deduct</i>	-0.26	
<i>For >500 To 1,000, Deduct</i>	-0.53	
<i>For >1,000 To 2,000, Deduct</i>	-0.79	
<i>For >2,000 To 5,000, Deduct</i>	-1.05	
<i>For >5,000, Deduct</i>	-1.31	
33 01 30 41-0046 LF 10" Diameter Pipe Line Auguring/Rod Out.....	6.11	
<i>For >250 To 500, Deduct</i>	-0.31	
<i>For >500 To 1,000, Deduct</i>	-0.61	
<i>For >1,000 To 2,000, Deduct</i>	-0.92	
<i>For >2,000 To 5,000, Deduct</i>	-1.22	
<i>For >5,000, Deduct</i>	-1.53	
33 01 30 41-0047 LF 12" Diameter Pipe Line Auguring/Rod Out.....	6.57	
<i>For >250 To 500, Deduct</i>	-0.33	
<i>For >500 To 1,000, Deduct</i>	-0.66	
<i>For >1,000 To 2,000, Deduct</i>	-0.99	
<i>For >2,000 To 5,000, Deduct</i>	-1.31	
<i>For >5,000, Deduct</i>	-1.64	
33 01 30 41-0048 LF >12" To 16" Diameter Pipe Line Auguring/Rod Out.....	7.51	
<i>For >250 To 500, Deduct</i>	-0.38	
<i>For >500 To 1,000, Deduct</i>	-0.75	
<i>For >1,000 To 2,000, Deduct</i>	-1.13	
<i>For >2,000 To 5,000, Deduct</i>	-1.50	
<i>For >5,000, Deduct</i>	-1.88	
33 01 30 41-0049 LF >16" To 24" Diameter Pipe Line Auguring/Rod Out.....	9.21	
<i>For >250 To 500, Deduct</i>	-0.46	
<i>For >500 To 1,000, Deduct</i>	-0.92	
<i>For >1,000 To 2,000, Deduct</i>	-1.38	
<i>For >2,000 To 5,000, Deduct</i>	-1.84	
<i>For >5,000, Deduct</i>	-2.30	
33 01 30 41-0050 LF >24" To 30" Diameter Pipe Line Auguring/Rod Out.....	10.30	
<i>For >250 To 500, Deduct</i>	-0.52	
<i>For >500 To 1,000, Deduct</i>	-1.03	
<i>For >1,000 To 2,000, Deduct</i>	-1.55	
<i>For >2,000 To 5,000, Deduct</i>	-2.06	
<i>For >5,000, Deduct</i>	-2.58	
33 01 30 41-0051 LF >30" To 42" Diameter Pipe Line Auguring/Rod Out.....	11.94	
<i>For >250 To 500, Deduct</i>	-0.60	
<i>For >500 To 1,000, Deduct</i>	-1.19	
<i>For >1,000 To 2,000, Deduct</i>	-1.79	
<i>For >2,000 To 5,000, Deduct</i>	-2.39	
<i>For >5,000, Deduct</i>	-2.99	
33 01 30 41-0052 LF >42 To 60" Diameter Pipe Line Auguring/Rod Out.....	16.41	
<i>For >250 To 500, Deduct</i>	-0.82	
<i>For >500 To 1,000, Deduct</i>	-1.64	
<i>For >1,000 To 2,000, Deduct</i>	-2.46	
<i>For >2,000 To 5,000, Deduct</i>	-3.28	
<i>For >5,000, Deduct</i>	-4.10	
33 01 30 41-0053 LF >60" Diameter Pipe Line Auguring/Rod Out.....	17.51	
<i>For >250 To 500, Deduct</i>	-0.88	
<i>For >500 To 1,000, Deduct</i>	-1.75	
<i>For >1,000 To 2,000, Deduct</i>	-2.63	
<i>For >2,000 To 5,000, Deduct</i>	-3.50	
<i>For >5,000, Deduct</i>	-4.38	

33 01 30 42 Cleaning of Manholes (33 01 30)

33 01 30 42-0001 Structure Cleaning And Flushing (33 01 30 42)

Note: Includes flushing. Owner provided water.

33 01 30 42-0002 Rod Out Structures And Other Hand Operations (33 01 30 42-0001)

33 01 30 42-0003 EA Rod Out Waste Water Drain	46.95	
33 01 30 42-0004 EA Rod Out Sewer Catch Basin	93.89	
33 01 30 42-0005 EA Up To 6" Diameter Pipe, Rod Out Blockage	18.77	
33 01 30 42-0006 EA 8" Diameter Pipe, Rod Out Blockage	20.65	
33 01 30 42-0007 EA 10" Diameter Pipe, Rod Out Blockage	23.47	
33 01 30 42-0008 EA 12" Diameter Pipe, Rod Out Blockage	27.23	
33 01 30 42-0009 EA >12" To 16" Diameter Pipe, Rod Out Blockage.....	31.93	
33 01 30 42-0010 EA >16" To 24" Diameter Pipe, Rod Out Blockage.....	37.56	
33 01 30 42-0011 EA >24" To 30" Diameter Pipe, Rod Out Blockage.....	44.12	
33 01 30 42-0012 EA >30" To 42" Diameter Pipe, Rod Out Blockage.....	50.70	
33 01 30 42-0013 EA >42" To 60" Diameter Pipe, Rod Out Blockage.....	59.15	
33 01 30 42-0014 EA >60" Diameter Pipe, Rod Out Blockage.....	70.42	
33 01 30 42-0015 EA Clean Out Debris From Entrance To Inlet Structure	234.73	
33 01 30 42-0016 EA 3' To 4' Diameter, Clean Out Blocked Manhole By Hand.....	754.09	
<i>For >10 To 100, Deduct</i>	-113.11	
<i>For >100 To 250, Deduct</i>	-169.67	
<i>For >250, Deduct</i>	-226.23	
33 01 30 42-0017 EA 5' To 6' Diameter, Clean Out Blocked Manhole By Hand.....	904.90	
<i>For >10 To 100, Deduct</i>	-135.74	
<i>For >100 To 250, Deduct</i>	-203.60	
<i>For >250, Deduct</i>	-271.47	

33 Utilities

33 01 Operation and Maintenance of Utilities

33 01 30 Operation and Maintenance of Sewer Utilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 42-0018 EA Clean Out Blocked Catch Basin By Hand <i>For >10 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250, Deduct</i>	452.45 -67.87 -101.80 -135.74	
33 01 30 42-0019 Cleaning Manholes And Drainage Structures With Jet/Vacuum <small>(33 01 30 42-0001)</small>		
<i>Note: Includes the removal of debris with high pressure water jetting and vacuum equipment and cleaning of grate. Excludes hardened concrete debris and disposal of material.</i>		
33 01 30 42-0020 EA Jet/Vacuum Clean 1 To 2 Catch Basins Or Manholes	260.36	
33 01 30 42-0021 EA Jet/Vacuum Clean 3 To 10 Catch Basins Or Manholes	241.87	
33 01 30 42-0022 EA Jet/Vacuum Clean 11 To 25 Catch Basins Or Manholes	223.38	
33 01 30 42-0023 EA Jet/Vacuum Clean 26 To 100 Catch Basins Or Manholes	204.90	
33 01 30 42-0024 EA Jet/Vacuum Clean 101 To 250 Catch Basins Or Manholes	186.41	
33 01 30 42-0025 EA Jet/Vacuum Clean >250 Catch Basins Or Manholes	167.92	
33 01 30 51 Maintenance of Utilities <small>(33 01 30)</small>		
33 01 30 51-0001 Pipe Repair <small>(33 01 30 51)</small>		
33 01 30 51-0002 Pipe Repair Clamp, Full Circle, Single Band <small>(33 01 30 51-0001)</small>		
<i>Note: Repair clamps for asbestos cement pipe, cast iron soil pipe, non-reinforced concrete pipe, PVC pipe, vitrified clay pipe, gray iron pipe and ductile iron pipe.</i>		
33 01 30 51-0003 EA 2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	120.51	
<i>For Stainless Steel Nuts And Bolts, Add</i>	19.70	
33 01 30 51-0004 EA 2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	171.32	
<i>For Stainless Steel Nuts And Bolts, Add</i>	29.69	
33 01 30 51-0005 EA 2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	197.96	
<i>For Stainless Steel Nuts And Bolts, Add</i>	34.96	
33 01 30 51-0006 EA 2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	225.57	
<i>For Stainless Steel Nuts And Bolts, Add</i>	40.22	
33 01 30 51-0007 EA 2-1/2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	129.98	
<i>For Stainless Steel Nuts And Bolts, Add</i>	21.39	
33 01 30 51-0008 EA 2-1/2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	182.10	
<i>For Stainless Steel Nuts And Bolts, Add</i>	31.68	
33 01 30 51-0009 EA 2-1/2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	208.73	
<i>For Stainless Steel Nuts And Bolts, Add</i>	36.83	
33 01 30 51-0010 EA 2-1/2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	241.25	
<i>For Stainless Steel Nuts And Bolts, Add</i>	43.10	
33 01 30 51-0011 EA 3" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	139.79	
<i>For Stainless Steel Nuts And Bolts, Add</i>	23.40	
33 01 30 51-0012 EA 3" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	189.43	
<i>For Stainless Steel Nuts And Bolts, Add</i>	33.12	
33 01 30 51-0013 EA 3" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	219.02	
<i>For Stainless Steel Nuts And Bolts, Add</i>	38.83	
33 01 30 51-0014 EA 3" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	255.38	
<i>For Stainless Steel Nuts And Bolts, Add</i>	46.10	
33 01 30 51-0015 EA 4" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	157.52	
<i>For Stainless Steel Nuts And Bolts, Add</i>	26.61	
33 01 30 51-0016 EA 4" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	208.08	
<i>For Stainless Steel Nuts And Bolts, Add</i>	35.82	
33 01 30 51-0017 EA 4" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	252.34	
<i>For Stainless Steel Nuts And Bolts, Add</i>	43.61	
33 01 30 51-0018 EA 4" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	304.00	
<i>For Stainless Steel Nuts And Bolts, Add</i>	52.60	
33 01 30 51-0019 EA 4" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	397.55	
<i>For Stainless Steel Nuts And Bolts, Add</i>	70.65	
33 01 30 51-0020 EA 4" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	494.61	
<i>For Stainless Steel Nuts And Bolts, Add</i>	88.70	
33 01 30 51-0021 EA 4" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	603.44	
<i>For Stainless Steel Nuts And Bolts, Add</i>	108.81	
33 01 30 51-0022 EA 6" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	185.17	
<i>For Stainless Steel Nuts And Bolts, Add</i>	31.40	
33 01 30 51-0023 EA 6" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	246.00	
<i>For Stainless Steel Nuts And Bolts, Add</i>	42.60	
33 01 30 51-0024 EA 6" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	291.35	
<i>For Stainless Steel Nuts And Bolts, Add</i>	50.23	
33 01 30 51-0025 EA 6" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	341.33	
<i>For Stainless Steel Nuts And Bolts, Add</i>	58.37	
33 01 30 51-0026 EA 6" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	472.80	
<i>For Stainless Steel Nuts And Bolts, Add</i>	84.58	
33 01 30 51-0027 EA 6" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	574.90	
<i>For Stainless Steel Nuts And Bolts, Add</i>	103.14	
33 01 30 51-0028 EA 6" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	686.64	
<i>For Stainless Steel Nuts And Bolts, Add</i>	123.25	
33 01 30 51-0029 EA 8" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	241.16	
<i>For Stainless Steel Nuts And Bolts, Add</i>	37.57	
33 01 30 51-0030 EA 8" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	313.41	
<i>For Stainless Steel Nuts And Bolts, Add</i>	49.71	
33 01 30 51-0031 EA 8" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	378.30	
<i>For Stainless Steel Nuts And Bolts, Add</i>	60.16	
33 01 30 51-0032 EA 8" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	451.75	
<i>For Stainless Steel Nuts And Bolts, Add</i>	71.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0033 EA 8" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	600.07	
<i>For Stainless Steel Nuts And Bolts, Add</i>	99.31	
33 01 30 51-0034 EA 8" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	717.70	
<i>For Stainless Steel Nuts And Bolts, Add</i>	118.75	
33 01 30 51-0035 EA 8" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	849.92	
<i>For Stainless Steel Nuts And Bolts, Add</i>	139.77	
33 01 30 51-0036 EA 10" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	282.47	
<i>For Stainless Steel Nuts And Bolts, Add</i>	45.73	
33 01 30 51-0037 EA 10" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	379.55	
<i>For Stainless Steel Nuts And Bolts, Add</i>	63.25	
33 01 30 51-0038 EA 10" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	447.00	
<i>For Stainless Steel Nuts And Bolts, Add</i>	73.95	
33 01 30 51-0039 EA 10" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	548.45	
<i>For Stainless Steel Nuts And Bolts, Add</i>	91.46	
33 01 30 51-0040 EA 10" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	720.32	
<i>For Stainless Steel Nuts And Bolts, Add</i>	124.06	
33 01 30 51-0041 EA 10" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	819.80	
<i>For Stainless Steel Nuts And Bolts, Add</i>	138.66	
33 01 30 51-0042 EA 10" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	1,055.09	
<i>For Stainless Steel Nuts And Bolts, Add</i>	182.93	
33 01 30 51-0043 EA 12" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	321.52	
<i>For Stainless Steel Nuts And Bolts, Add</i>	51.58	
33 01 30 51-0044 EA 12" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	419.83	
<i>For Stainless Steel Nuts And Bolts, Add</i>	68.59	
33 01 30 51-0045 EA 12" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	506.79	
<i>For Stainless Steel Nuts And Bolts, Add</i>	83.00	
33 01 30 51-0046 EA 12" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	623.54	
<i>For Stainless Steel Nuts And Bolts, Add</i>	103.14	
33 01 30 51-0047 EA 12" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	802.43	
<i>For Stainless Steel Nuts And Bolts, Add</i>	136.23	
33 01 30 51-0048 EA 12" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	943.64	
<i>For Stainless Steel Nuts And Bolts, Add</i>	159.09	
33 01 30 51-0049 EA 12" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	1,199.38	
<i>For Stainless Steel Nuts And Bolts, Add</i>	206.28	
33 01 30 51-0050 Pipe Repair Clamp, Full Circle, Double Bands <small>(33 01 30 51-0001)</small>		
Note: Repair clamps for reinforced concrete pipe, gray iron pipe and ductile iron pipe.		
33 01 30 51-0051 EA 14.38"-15.13" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	715.93	
<i>For Stainless Steel Nuts And Bolts, Add</i>	198.43	
33 01 30 51-0052 EA 14.38"-15.13" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,015.02	
<i>For Stainless Steel Nuts And Bolts, Add</i>	286.46	
33 01 30 51-0053 EA 14.38"-15.13" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,366.82	
<i>For Stainless Steel Nuts And Bolts, Add</i>	388.48	
33 01 30 51-0054 EA 14.38"-15.13" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	2,013.47	
<i>For Stainless Steel Nuts And Bolts, Add</i>	585.52	
33 01 30 51-0055 EA 15.07"-15.82" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	751.46	
<i>For Stainless Steel Nuts And Bolts, Add</i>	208.20	
33 01 30 51-0056 EA 15.07"-15.82" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,062.52	
<i>For Stainless Steel Nuts And Bolts, Add</i>	299.74	
33 01 30 51-0057 EA 15.07"-15.82" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,427.31	
<i>For Stainless Steel Nuts And Bolts, Add</i>	405.25	
33 01 30 51-0058 EA 15.07"-15.82" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	2,110.70	
<i>For Stainless Steel Nuts And Bolts, Add</i>	613.46	
33 01 30 51-0059 EA 15.92"-16.67" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	770.62	
<i>For Stainless Steel Nuts And Bolts, Add</i>	212.40	
33 01 30 51-0060 EA 15.92"-16.67" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,087.74	
<i>For Stainless Steel Nuts And Bolts, Add</i>	305.34	
33 01 30 51-0061 EA 15.92"-16.67" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,464.74	
<i>For Stainless Steel Nuts And Bolts, Add</i>	414.33	
33 01 30 51-0062 EA 15.92"-16.67" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	2,164.32	
<i>For Stainless Steel Nuts And Bolts, Add</i>	626.73	
33 01 30 51-0063 EA 16.56"-17.31" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	790.73	
<i>For Stainless Steel Nuts And Bolts, Add</i>	216.59	
33 01 30 51-0064 EA 16.56"-17.31" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,116.46	
<i>For Stainless Steel Nuts And Bolts, Add</i>	311.63	
33 01 30 51-0065 EA 16.56"-17.31" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,500.96	
<i>For Stainless Steel Nuts And Bolts, Add</i>	422.01	

33 Utilities

33 01 Operation and Maintenance of Utilities

33 01 30 Operation and Maintenance of Sewer Utilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0066 EA 16.56"-17.31" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,217.87	
For Stainless Steel Nuts And Bolts, Add	639.31	
33 01 30 51-0067 EA 17.15"-17.90" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	808.82	
For Stainless Steel Nuts And Bolts, Add	220.09	
33 01 30 51-0068 EA 17.15"-17.90" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,141.04	
For Stainless Steel Nuts And Bolts, Add	316.51	
33 01 30 51-0069 EA 17.15"-17.90" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,537.16	
For Stainless Steel Nuts And Bolts, Add	429.70	
33 01 30 51-0070 EA 17.15"-17.90" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,266.22	
For Stainless Steel Nuts And Bolts, Add	649.79	
33 01 30 51-0071 EA 17.82"-18.57" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	825.91	
For Stainless Steel Nuts And Bolts, Add	223.59	
33 01 30 51-0072 EA 17.82"-18.57" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,166.23	
For Stainless Steel Nuts And Bolts, Add	322.10	
33 01 30 51-0073 EA 17.82"-18.57" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,569.41	
For Stainless Steel Nuts And Bolts, Add	436.69	
33 01 30 51-0074 EA 17.82"-18.57" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,297.16	
For Stainless Steel Nuts And Bolts, Add	655.03	
33 01 30 51-0075 EA 18.46"-19.21" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	845.52	
For Stainless Steel Nuts And Bolts, Add	227.94	
33 01 30 51-0076 EA 18.46"-19.21" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,196.02	
For Stainless Steel Nuts And Bolts, Add	329.09	
33 01 30 51-0077 EA 18.46"-19.21" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,603.66	
For Stainless Steel Nuts And Bolts, Add	444.37	
33 01 30 51-0078 EA 18.46"-19.21" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,366.25	
For Stainless Steel Nuts And Bolts, Add	673.55	
33 01 30 51-0079 Repair Couplings and Fittings (33 01 30 51-0001)		
33 01 30 51-0080 Couplings And Fittings For Copper Pipe, Compression (33 01 30 51-0079)		
Note: Includes gaskets. Dresser style 88.		
33 01 30 51-0081 Copper Compression Repair Couplings (33 01 30 51-0080)		
33 01 30 51-0082 EA 1/2" Copper Compression Repair Coupling	95.92	
33 01 30 51-0083 EA 3/4" Copper Compression Repair Coupling	111.19	
33 01 30 51-0084 EA 1" Copper Compression Repair Coupling	130.83	
33 01 30 51-0085 EA 1-1/4" Copper Compression Repair Coupling	146.88	
33 01 30 51-0086 EA 1-1/2" Copper Compression Repair Coupling	232.24	
33 01 30 51-0087 Copper Compression Repair Fitting, 90 Degree Elbows (33 01 30 51-0080)		
33 01 30 51-0088 EA 1/2" Copper Compression Repair 90 Degree Elbow	117.51	
33 01 30 51-0089 EA 1" Copper Compression Repair 90 Degree Elbow	133.91	
33 01 30 51-0090 EA 1-1/2" Copper Compression Repair 90 Degree Elbow	281.32	
33 01 30 51-0091 EA 1" IPS x 1" CTS 90 Degree Plain End Street Elbow	105.01	
33 01 30 51-0092 EA 3/4" IPS x 3/4" CTS 90 Degree Threaded End Street Elbow	95.01	
33 01 30 51-0093 EA 1" IPS x 1" CTS 90 Degree Threaded End Street Elbow	111.26	
33 01 30 51-0094 EA 1-1/4" IPS x 1" CTS 90 Degree Threaded End Street Elbow	139.09	
33 01 30 51-0095 Copper Compression Repair Fitting, Tees (33 01 30 51-0080)		
33 01 30 51-0096 EA 1/2" Copper Compression Repair Tee	219.30	
33 01 30 51-0097 EA 3/4" Copper Compression Repair Tee	162.93	
33 01 30 51-0098 EA 1" Copper Compression Repair Tee	194.00	
33 01 30 51-0099 EA 1" F x 1" M x 1" CTS Street Tee	155.73	
33 01 30 51-0100 Copper Compression Repair Fitting, Male Adapters (33 01 30 51-0080)		
33 01 30 51-0101 EA 3/4" M x 1/2" CTS Male Adapter	102.40	
33 01 30 51-0102 EA 3/4" M x 3/4" CTS Male Adapter	80.08	
33 01 30 51-0103 EA 1" M x 1" CTS Male Adapter	89.92	
33 01 30 51-0104 EA 1-1/4" M x 1" CTS Male Adapter	107.59	
33 01 30 51-0105 EA 1-1/4" M x 1-1/4" CTS Male Adapter	131.87	
33 01 30 51-0106 EA 1-1/2" M x 1" CTS Male Adapter	142.77	
33 01 30 51-0107 Copper Compression Repair Fitting, Female Adapters (33 01 30 51-0080)		
33 01 30 51-0108 EA 3/4" M x 3/4" CTS Female Adapter	121.08	
33 01 30 51-0109 EA 1" M x 1" CTS Female Adapter	126.26	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0110	Couplings And Fittings For Steel Pipe, Cast Body, Compression (33 01 30 51-0079)	Note: Includes gaskets. Dresser style 90.		
33 01 30 51-0111	Couplings For Steel Pipe, Cast Body (Compression) (33 01 30 51-0110)	Note: Includes gaskets.		
33 01 30 51-0112	EA 1/2" Coupling, Cast Body (Compression), 5" Middle Ring.....		56.72	
33 01 30 51-0113	EA 3/4" Coupling, Cast Body (Compression), 5" Middle Ring.....		57.63	
33 01 30 51-0114	EA 1" Coupling, Cast Body (Compression), 5" Middle Ring.....		64.95	
33 01 30 51-0115	EA 1-1/4" Coupling, Cast Body (Compression), 5" Middle Ring.....		72.34	
33 01 30 51-0116	EA 1-1/2" Coupling, Cast Body (Compression), 5" Middle Ring.....		89.43	
33 01 30 51-0117	EA 2" Coupling, Cast Body (Compression), 5" Middle Ring.....		108.78	
33 01 30 51-0118	EA 1/2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....		58.28	
33 01 30 51-0119	EA 3/4" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....		59.35	
33 01 30 51-0120	EA 1" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....		65.20	
33 01 30 51-0121	EA 1-1/4" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....		73.13	
33 01 30 51-0122	EA 1-1/2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....		92.03	
33 01 30 51-0123	EA 2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....		109.92	
33 01 30 51-0124	EA 3/4" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket.....		110.87	
33 01 30 51-0125	EA 1" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket.....		129.70	
33 01 30 51-0126	EA 1-1/4" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket.....		135.07	
33 01 30 51-0127	EA 1-1/2" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket.....		152.03	
33 01 30 51-0128	EA 2" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket.....		184.98	
33 01 30 51-0129	Reducing Couplings For Steel Pipe (Compression) (33 01 30 51-0110)	Note: Includes armored gaskets.		
33 01 30 51-0130	EA 3/4" x 1/2" Reducing Coupling (Compression).....		62.81	
33 01 30 51-0131	EA 1" x 3/4" Reducing Coupling (Compression).....		66.63	
33 01 30 51-0132	EA 1-1/4" x 3/4" Reducing Coupling (Compression).....		75.17	
33 01 30 51-0133	EA 1-1/4" x 1" Reducing Coupling (Compression).....		78.03	
33 01 30 51-0134	EA 1-1/2" x 3/4" Reducing Coupling (Compression).....		149.17	
33 01 30 51-0135	EA 1-1/2" x 1" Reducing Coupling (Compression).....		93.87	
33 01 30 51-0136	EA 1-1/2" x 1-1/4" Reducing Coupling (Compression).....		94.27	
33 01 30 51-0137	EA 2" x 3/4" Reducing Coupling (Compression).....		178.17	
33 01 30 51-0138	EA 2" x 1" Reducing Coupling (Compression).....		162.28	
33 01 30 51-0139	EA 2" x 1-1/4" Reducing Coupling (Compression).....		124.49	
33 01 30 51-0140	EA 2" x 1-1/2" Reducing Coupling (Compression).....		124.07	
33 01 30 51-0141	Steel Compression Repair Fittings, Elbows (33 01 30 51-0110)	Note: Includes armored gaskets.		
33 01 30 51-0142	EA 1" 45 Degree Elbow (Compression).....		103.10	
33 01 30 51-0143	EA 1-1/4" 45 Degree Elbow (Compression).....		107.58	
33 01 30 51-0144	EA 1-1/2" 45 Degree Elbow (Compression).....		138.89	
33 01 30 51-0145	EA 2" 45 Degree Elbow (Compression).....		175.20	
33 01 30 51-0146	EA 3/4" 90 Degree Elbow (Compression).....		69.41	
33 01 30 51-0147	EA 1" 90 Degree Elbow (Compression).....		72.15	
33 01 30 51-0148	EA 1-1/4" 90 Degree Elbow (Compression).....		84.46	
33 01 30 51-0149	EA 1-1/2" 90 Degree Elbow (Compression).....		120.15	
33 01 30 51-0150	EA 2" 90 Degree Elbow (Compression).....		131.86	
33 01 30 51-0151	EA 3/4" Plain End 90 Degree Street Elbow (Compression).....		69.62	
33 01 30 51-0152	EA 1" Plain End 90 Degree Street Elbow (Compression).....		61.85	
33 01 30 51-0153	EA 1-1/4" Plain End 90 Degree Street Elbow (Compression).....		69.88	
33 01 30 51-0154	EA 1-1/2" Plain End 90 Degree Street Elbow (Compression).....		88.37	
33 01 30 51-0155	EA 2" Plain End 90 Degree Street Elbow (Compression).....		113.89	
33 01 30 51-0156	EA 3/4" Threaded End 90 Degree Street Elbow (Compression).....		71.86	
33 01 30 51-0157	EA 1" Threaded End 90 Degree Street Elbow (Compression).....		66.04	
33 01 30 51-0158	EA 1-1/4" Threaded End 90 Degree Street Elbow (Compression).....		85.46	
33 01 30 51-0159	EA 1-1/2" Threaded End 90 Degree Street Elbow (Compression).....		103.23	
33 01 30 51-0160	EA 2" Threaded End 90 Degree Street Elbow (Compression).....		145.67	
33 01 30 51-0161	Steel Compression Repair Fittings, Tees (33 01 30 51-0110)	Note: Includes armored gaskets.		
33 01 30 51-0162	EA 3/4" Street Tee (Compression).....		77.08	
33 01 30 51-0163	EA 1" Street Tee (Compression).....		90.70	
33 01 30 51-0164	EA 1-1/4" Street Tee (Compression).....		92.10	
33 01 30 51-0165	EA 1-1/2" Street Tee (Compression).....		106.69	
33 01 30 51-0166	EA 2" Street Tee (Compression).....		159.96	
33 01 30 51-0167	EA 1-1/4" x 1-1/4" x 1" Reducing Street Tee (Compression).....		91.29	
33 01 30 51-0168	EA 1-1/4" x 1" x 1-1/4" Reducing Street Tee (Compression).....		95.35	
33 01 30 51-0169	EA 1-1/2" x 1-1/2" x 1" Reducing Street Tee (Compression).....		119.40	
33 01 30 51-0170	EA 1-1/2" x 1-1/2" x 1-1/4" Reducing Street Tee (Compression).....		137.74	
33 01 30 51-0171	EA 1-1/2" x 1" x 1-1/2" Reducing Street Tee (Compression).....		138.55	
33 01 30 51-0172	EA 1-1/2" x 1-1/4" x 1-1/2" Reducing Street Tee (Compression).....		117.68	
33 01 30 51-0173	EA 2" x 1-1/4" x 2" Reducing Street Tee (Compression).....		156.00	
33 01 30 51-0174	EA 2" x 1-1/2" x 2" Reducing Street Tee (Compression).....		176.37	
33 01 30 51-0175	EA 3/4" Welding Street Tee (Compression).....		138.20	
33 01 30 51-0176	EA 1" Welding Street Tee (Compression).....		139.09	
33 01 30 51-0177	EA 1-1/4" Welding Street Tee (Compression).....		149.43	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 30 51-0178	EA	1-1/2" Welding Street Tee (Compression).....	180.03	
33 01 30 51-0179	EA	2" Welding Street Tee (Compression).....	241.78	
33 01 30 51-0180	EA	3/4" Regular Tee (Compression).....	102.65	
33 01 30 51-0181	EA	1" Regular Tee (Compression).....	177.88	
33 01 30 51-0182	EA	1-1/4" Regular Tee (Compression).....	188.15	
33 01 30 51-0183	EA	1-1/2" Regular Tee (Compression).....	202.74	
33 01 30 51-0184	EA	2" Regular Tee (Compression).....	225.27	
33 01 30 51-0185	EA	2" x 2" x 1-1/4" Regular Reducing Tee (Compression).....	222.01	

33 01 30 51-0186 Steel Compression Repair Fittings, Male Adapters (33 01 30 51-0110)

Note: Includes armored gaskets.

33 01 30 51-0187	EA	3/4" Male Adapter (Compression).....	69.22	
33 01 30 51-0188	EA	1" Male Adapter (Compression).....	77.23	
33 01 30 51-0189	EA	1-1/4" Male Adapter (Compression).....	100.35	
33 01 30 51-0190	EA	1-1/2" Male Adapter (Compression).....	113.64	
33 01 30 51-0191	EA	2" Male Adapter (Compression).....	128.45	
33 01 30 51-0192	EA	1" x 1-1/4" Male Adapter (Compression).....	99.82	

33 01 30 51-0193 Steel Compression Repair Fittings, Line Caps (33 01 30 51-0110)

Note: Includes armored gaskets.

33 01 30 51-0194	EA	3/4" Line Caps (Compression).....	37.11	
33 01 30 51-0195	EA	1" Line Caps (Compression).....	43.22	
33 01 30 51-0196	EA	1-1/4" Line Caps (Compression).....	49.41	
33 01 30 51-0197	EA	1-1/2" Line Caps (Compression).....	58.23	
33 01 30 51-0198	EA	2" Line Caps (Compression).....	71.86	

33 01 30 51-0199 Couplings For Steel Pipe (33 01 30 51-0079)

Note: Includes Buna S gasket. Dresser style 38

33 01 30 51-0200	EA	1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket.....	42.21	
33 01 30 51-0201	EA	3/4" Coupling, 5" Middle Ring With Buna S Gasket.....	53.82	
33 01 30 51-0202	EA	1" Coupling, 5" Middle Ring With Buna S Gasket.....	64.08	
33 01 30 51-0203	EA	1-1/2" Coupling, 5" Middle Ring With Buna S Gasket.....	79.40	
33 01 30 51-0204	EA	2" Coupling, 4" Middle Ring With Buna S Gasket.....	97.97	
33 01 30 51-0205	EA	2" Coupling, 5" Middle Ring With Buna S Gasket.....	115.23	
33 01 30 51-0206	EA	2" Coupling, 7" Middle Ring With Buna S Gasket.....	110.94	
33 01 30 51-0207	EA	3" Coupling, 4" Middle Ring With Buna S Gasket.....	150.87	
33 01 30 51-0208	EA	3" Coupling, 5" Middle Ring With Buna S Gasket.....	153.47	
33 01 30 51-0209	EA	3" Coupling, 7" Middle Ring With Buna S Gasket.....	156.07	
33 01 30 51-0210	EA	4" Coupling, 4" Middle Ring With Buna S Gasket.....	181.35	
33 01 30 51-0211	EA	4" Coupling, 5" Middle Ring With Buna S Gasket.....	185.76	
33 01 30 51-0212	EA	4" Coupling, 7" Middle Ring With Buna S Gasket.....	191.29	
33 01 30 51-0213	EA	5" Coupling, 4" Middle Ring With Buna S Gasket.....	227.67	
33 01 30 51-0214	EA	5" Coupling, 5" Middle Ring With Buna S Gasket.....	229.41	
33 01 30 51-0215	EA	5" Coupling, 7" Middle Ring With Buna S Gasket.....	235.75	
33 01 30 51-0216	EA	6" Coupling, 4" Middle Ring With Buna S Gasket.....	250.31	
33 01 30 51-0217	EA	6" Coupling, 5" Middle Ring With Buna S Gasket.....	255.02	
33 01 30 51-0218	EA	6" Coupling, 7" Middle Ring With Buna S Gasket.....	261.04	
33 01 30 51-0219	EA	8" Coupling, 4" Middle Ring With Buna S Gasket.....	292.92	
33 01 30 51-0220	EA	8" Coupling, 5" Middle Ring With Buna S Gasket.....	299.89	
33 01 30 51-0221	EA	8" Coupling, 7" Middle Ring With Buna S Gasket.....	305.61	
33 01 30 51-0222	EA	10" Coupling, 5" Middle Ring With Buna S Gasket.....	347.10	
33 01 30 51-0223	EA	10" Coupling, 7" Middle Ring With Buna S Gasket.....	379.99	
33 01 30 51-0224	EA	12" Coupling, 5" Middle Ring With Buna S Gasket.....	393.85	
33 01 30 51-0225	EA	12" Coupling, 7" Middle Ring With Buna S Gasket.....	463.57	
33 01 30 51-0226	EA	14" Coupling, 7" Middle Ring With Buna S Gasket.....	526.60	
33 01 30 51-0227	EA	16" Coupling, 7" Middle Ring With Buna S Gasket.....	610.20	
33 01 30 51-0228	EA	18" Coupling, 7" Middle Ring With Buna S Gasket.....	667.98	
33 01 30 51-0229	EA	20" Coupling, 7" Middle Ring With Buna S Gasket.....	720.57	
33 01 30 51-0230	EA	22" Coupling, 7" Middle Ring With Buna S Gasket.....	860.25	
33 01 30 51-0231	EA	24" Coupling, 7" Middle Ring With Buna S Gasket.....	908.94	

33 01 30 51-0232 Couplings For Steel Pipe (33 01 30 51-0079)

Note: Includes Buna S gasket, protected. Dresser style 38.

33 01 30 51-0233	EA	1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket, Protected.....	42.96	
33 01 30 51-0234	EA	3/4" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	53.72	
33 01 30 51-0235	EA	1" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	64.03	
33 01 30 51-0236	EA	1-1/2" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	79.06	
33 01 30 51-0237	EA	2" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	107.89	
33 01 30 51-0238	EA	2" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	106.52	
33 01 30 51-0239	EA	2" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	107.21	
33 01 30 51-0240	EA	3" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	156.07	
33 01 30 51-0241	EA	3" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	158.67	
33 01 30 51-0242	EA	3" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	161.27	
33 01 30 51-0243	EA	4" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	188.43	
33 01 30 51-0244	EA	4" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	183.85	
33 01 30 51-0245	EA	4" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	186.26	
33 01 30 51-0246	EA	5" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	236.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0247 EA 5" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	238.07	
33 01 30 51-0248 EA 5" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	297.04	
33 01 30 51-0249 EA 6" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	253.10	
33 01 30 51-0250 EA 6" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	259.87	
33 01 30 51-0251 EA 6" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	262.48	
33 01 30 51-0252 EA 8" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	308.05	
33 01 30 51-0253 EA 8" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	310.62	
33 01 30 51-0254 EA 8" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	314.76	
33 01 30 51-0255 EA 10" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	353.34	
33 01 30 51-0256 EA 10" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	386.49	
33 01 30 51-0257 EA 12" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	400.35	
33 01 30 51-0258 EA 12" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	469.93	
33 01 30 51-0259 EA 14" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	533.10	
33 01 30 51-0260 EA 16" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	619.95	
33 01 30 51-0261 EA 18" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	680.98	
33 01 30 51-0262 EA 20" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	733.57	
33 01 30 51-0263 EA 22" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	873.25	
33 01 30 51-0264 EA 24" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	921.94	

33 01 30 51-0265**Couplings For Steel Pipe** (33 01 30 51-0079)

Note: Includes Buna N gasket, protected, Dresser style 38.

33 01 30 51-0266 EA 1/2" Coupling, 3-1/2" Middle Ring With Buna N Gasket, Protected.....	47.58	
33 01 30 51-0267 EA 3/4" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	58.42	
33 01 30 51-0268 EA 1" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	69.55	
33 01 30 51-0269 EA 1-1/2" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	86.23	
33 01 30 51-0270 EA 2" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	107.89	
33 01 30 51-0271 EA 2" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	119.50	
33 01 30 51-0272 EA 2" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	123.36	
33 01 30 51-0273 EA 3" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	156.07	
33 01 30 51-0274 EA 3" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	158.67	
33 01 30 51-0275 EA 3" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	161.27	
33 01 30 51-0276 EA 4" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	188.43	
33 01 30 51-0277 EA 4" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	197.70	
33 01 30 51-0278 EA 4" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	201.23	
33 01 30 51-0279 EA 5" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	236.79	
33 01 30 51-0280 EA 5" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	238.07	
33 01 30 51-0281 EA 5" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	252.95	
33 01 30 51-0282 EA 6" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	253.10	
33 01 30 51-0283 EA 6" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	259.87	
33 01 30 51-0284 EA 6" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	262.48	
33 01 30 51-0285 EA 8" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	308.05	
33 01 30 51-0286 EA 8" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	310.62	
33 01 30 51-0287 EA 8" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	314.76	
33 01 30 51-0288 EA 10" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	353.34	
33 01 30 51-0289 EA 10" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	386.49	
33 01 30 51-0290 EA 12" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	400.35	
33 01 30 51-0291 EA 12" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	469.93	
33 01 30 51-0292 EA 14" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	533.10	
33 01 30 51-0293 EA 16" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	610.20	
33 01 30 51-0294 EA 18" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	680.98	
33 01 30 51-0295 EA 20" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	733.57	
33 01 30 51-0296 EA 22" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	873.25	
33 01 30 51-0297 EA 24" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	921.94	

33 01 30 51-0298**Couplings For Steel Pipe** (33 01 30 51-0079)

Note: Includes high temperature carded glass gasket, protected, Dresser style 38.

33 01 30 51-0299 EA 3/4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	74.73	
33 01 30 51-0300 EA 1" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	84.46	
33 01 30 51-0301 EA 1-1/2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	95.32	
33 01 30 51-0302 EA 2" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket.....	135.38	
33 01 30 51-0303 EA 2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	142.50	
33 01 30 51-0304 EA 2" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	146.12	
33 01 30 51-0305 EA 3" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	181.13	
33 01 30 51-0306 EA 3" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	180.31	
33 01 30 51-0307 EA 4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	210.70	
33 01 30 51-0308 EA 4" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	214.23	
33 01 30 51-0309 EA 5" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	278.43	
33 01 30 51-0310 EA 5" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	283.11	
33 01 30 51-0311 EA 6" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	303.97	
33 01 30 51-0312 EA 6" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	307.08	
33 01 30 51-0313 EA 8" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket.....	330.35	
33 01 30 51-0314 EA 8" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	376.87	
33 01 30 51-0315 EA 8" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	395.84	
33 01 30 51-0316 EA 10" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	418.07	
33 01 30 51-0317 EA 10" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	418.01	
33 01 30 51-0318 EA 12" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	511.07	
33 01 30 51-0319 EA 12" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	525.36	
33 01 30 51-0320 EA 14" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	598.39	
33 01 30 51-0321 EA 16" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	720.58	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0322 EA 18" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	725.18	
33 01 30 51-0323 EA 20" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	800.52	
33 01 30 51-0324 EA 22" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	864.80	
33 01 30 51-0325 EA 24" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	934.94	
33 01 30 51-0326 Temporary Pipe Plugging (33 01 30 51-0001)		
33 01 30 51-0327 Gravity Bladder Pipe Plugging (33 01 30 51-0326)		
Note: Includes insertion of expandable bladder device into pipe, expanding to block flow and removal.		
33 01 30 51-0328 EA 3/4" Bladder Type Pipe Plug.....	68.57	
33 01 30 51-0329 EA 1" Bladder Type Pipe Plug.....	73.50	
33 01 30 51-0330 EA 1-1/4" Bladder Type Pipe Plug.....	80.10	
33 01 30 51-0331 EA 1-1/2" Bladder Type Pipe Plug.....	86.04	
33 01 30 51-0332 EA 2" Bladder Type Pipe Plug.....	91.64	
33 01 30 51-0333 EA 2-1/2" Bladder Type Pipe Plug.....	98.21	
33 01 30 51-0334 EA 3" Bladder Type Pipe Plug.....	107.26	
33 01 30 51-0335 EA 4" Bladder Type Pipe Plug.....	118.29	
33 01 30 51-0336 EA 5" Bladder Type Pipe Plug.....	127.97	
33 01 30 51-0337 EA 6" Bladder Type Pipe Plug.....	142.45	
33 01 30 51-0338 EA 8" Bladder Type Pipe Plug.....	158.37	
33 01 30 51-0339 EA 10" Bladder Type Pipe Plug.....	183.36	
33 01 30 51-0340 EA 12" Bladder Type Pipe Plug.....	220.37	
33 01 30 51-0341 EA 14" Bladder Type Pipe Plug.....	261.20	
33 01 30 51-0342 EA 16" Bladder Type Pipe Plug.....	314.19	
33 01 30 51-0343 EA 18" Bladder Type Pipe Plug.....	377.89	
33 01 30 51-0344 EA 20" Bladder Type Pipe Plug.....	454.07	
33 01 30 51-0345 EA 24" Bladder Type Pipe Plug.....	526.09	
33 01 30 51-0346 Hydra Stop, Hot Tapping Of Pressure Pipe (33 01 30 51-0326)		
Note: Includes flanged or threaded lateral outlet, cutting and tapping pipe, insertion of expandable bladder device into pipe, expanding to block flow, and removal of bladder/cutting device.		
33 01 30 51-0347 EA 2" Hydra Stop, Line Stopper.....	2,042.68	
33 01 30 51-0348 EA 2-1/2" Hydra Stop, Line Stopper.....	2,562.59	
33 01 30 51-0349 EA 3" Hydra Stop, Line Stopper.....	3,137.90	
33 01 30 51-0350 EA 4" Hydra Stop, Line Stopper.....	3,808.37	
33 01 30 51-0351 EA 5" Hydra Stop, Line Stopper.....	4,321.87	
33 01 30 51-0352 EA 6" Hydra Stop, Line Stopper.....	5,164.20	
33 01 30 51-0353 EA 8" Hydra Stop, Line Stopper.....	5,677.71	
33 01 30 51-0354 EA 10" Hydra Stop, Line Stopper.....	6,520.01	
33 01 30 51-0355 EA 12" Hydra Stop, Line Stopper.....	7,362.35	
33 01 30 51-0356 EA 14" Hydra Stop, Line Stopper.....	8,250.83	
33 01 30 51-0357 EA 16" Hydra Stop, Line Stopper.....	9,416.38	
33 01 30 51-0358 EA 18" Hydra Stop, Line Stopper.....	10,720.39	
33 01 30 51-0359 EA 20" Hydra Stop, Line Stopper.....	12,670.68	
33 01 30 51-0360 Aluminum Expansion Plugs (33 01 30 51-0326)		
Note: For use with PVC, clay Or cast iron drainage pipe.		
33 01 30 51-0361 EA 3" Pipe Aluminum Expansion Plug.....	57.15	
33 01 30 51-0362 EA 4" Pipe Aluminum Expansion Plug.....	81.20	
33 01 30 51-0363 EA 5" Pipe Aluminum Expansion Plug.....	91.40	
33 01 30 51-0364 EA 6" Pipe Aluminum Expansion Plug.....	137.42	
33 01 30 51-0365 EA 8" Pipe Aluminum Expansion Plug.....	141.37	
33 01 30 51-0366 EA 10" Pipe Aluminum Expansion Plug.....	176.18	
33 01 30 51-0367 EA 12" Pipe Aluminum Expansion Plug.....	237.05	
33 01 30 51-0368 EA 14" Pipe Aluminum Expansion Plug.....	380.45	
33 01 30 51-0369 EA 15" Pipe Aluminum Expansion Plug.....	411.83	
33 01 30 51-0370 Pipe Repair Clamp, Stainless Steel, 3" Long (33 01 30 51-0001)		
33 01 30 51-0371 EA 1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	137.82	
33 01 30 51-0372 EA 3/4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	138.00	
33 01 30 51-0373 EA 1" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	138.44	
33 01 30 51-0374 EA 1-1/4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	138.88	
33 01 30 51-0375 EA 1-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	139.10	
33 01 30 51-0376 EA 2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	139.76	
33 01 30 51-0377 EA 2-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	140.42	
33 01 30 51-0378 EA 3" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	141.30	
33 01 30 51-0379 EA 4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	253.57	
33 01 30 51-0380 EA 6" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	256.43	
33 01 30 51-0381 EA 8" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	258.42	
33 01 30 51-0382 EA 10" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	279.37	
33 01 30 51-0383 EA 12" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	282.02	
33 01 30 51-0384 EA 14" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	283.79	
33 01 30 51-0385 EA 16" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	286.43	
33 01 30 51-0386 EA 18" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	289.08	
33 01 30 51-0387 EA 20" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	292.61	
33 01 30 51-0388 EA 24" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	298.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0389 Polyseal Pipe Coupler <small>(33 01 30 51-0001)</small>		
33 01 30 51-0390 EA 18" Diameter Pipe, PolySeal Repair Couplers (MarMac).....	284.53	
33 01 30 51-0391 EA 24" Diameter Pipe, PolySeal Repair Couplers (MarMac).....	321.55	
33 01 30 63 Sewer and Pipe Joint Sealing <small>(33 01 30)</small>		
33 01 30 63-0001 Joint Air Test <small>(33 01 30 63)</small>		
33 01 30 63-0002 EA 4" To 8", Joint Air Test	89.11	
33 01 30 63-0003 EA 10" To 15", Joint Air Test	103.96	
33 01 30 63-0004 EA >15" To 21", Joint Air Test	118.81	
33 01 30 63-0005 EA >21" To 24", Joint Air Test	148.52	
33 01 30 63-0006 EA >24" To 27", Joint Air Test	178.23	
33 01 30 63-0007 EA >27" To 36", Joint Air Test	207.93	
33 01 30 63-0008 Joint Seal And Joint Air Retest <small>(33 01 30 63)</small>		
<i>Note: Includes grout.</i>		
33 01 30 63-0009 EA 4" Joint Seal And Joint Air Retest	262.53	
<i>Note: Includes up to 1 gallon of grout.</i>		
33 01 30 63-0010 EA 6" Joint Seal And Joint Air Retest	292.24	
<i>Note: Includes 1 gallon of grout.</i>		
33 01 30 63-0011 EA 8" Joint Seal And Joint Air Retest	346.83	
<i>Note: Includes 2 gallons of grout.</i>		
33 01 30 63-0012 EA 10" Joint Seal And Joint Air Retest	388.98	
<i>Note: Includes 2.5 gallons of grout.</i>		
33 01 30 63-0013 EA 12" Joint Seal And Joint Air Retest	431.14	
<i>Note: Includes 3 gallons of grout.</i>		
33 01 30 63-0014 EA 15" Joint Seal And Joint Air Retest	509.22	
<i>Note: Includes 3.75 gallons of grout.</i>		
33 01 30 63-0015 EA 18" Joint Seal And Joint Air Retest	587.30	
<i>Note: Includes 4.5 gallons of grout.</i>		
33 01 30 63-0016 EA 21" Joint Seal And Joint Air Retest	665.37	
<i>Note: Includes 5.25 gallons of grout.</i>		
33 01 30 63-0017 EA 24" Joint Seal And Joint Air Retest	773.15	
<i>Note: Includes 6 gallons of grout.</i>		
33 01 30 63-0018 EA 27" Joint Seal And Joint Air Retest	880.94	
<i>Note: Includes 6.75 gallons of grout.</i>		
33 01 30 63-0019 EA 30" Joint Seal And Joint Air Retest	1,018.42	
<i>Note: Includes 7.5 gallons of grout.</i>		
33 01 30 63-0020 EA 36" Joint Seal And Joint Air Retest	1,174.59	
<i>Note: Includes 9 gallons of grout.</i>		
33 01 30 63-0021 GAL Extra Grout Per Joint	143.71	
<i>Note: For extra grout per joint required over listed amount.</i>		
33 01 30 70 Rehabilitation of Sewer Utilities <small>(33 01 30)</small>		
33 01 30 70-0001 Cementitious Pipe Coatings By Hand <small>(33 01 30 70)</small>		
<i>Note: To be used on repair areas to install the coating on the exposed portion of the pipe.</i>		
33 01 30 70-0002 SF Up To 1" Thick Cementitious Coating On Pipe, Troweled On	7.80	
33 01 30 70-0003 SF >1" To 2" Thick Cementitious Coating On Pipe, Troweled On	11.54	
33 01 30 71 Relining Sewer Utilities Pipelines <small>(33 01 30)</small>		
33 01 30 71-0001 Relining Underground Pipelines <small>(33 01 30 71)</small>		
<i>Note: Excludes CCTV inspection, sewer cleaning, pavement both temporary and permanent, emergency after hours response for homeowners backups. See CSI section 01 22 20 00-0000 for hourly rates for after hours response for homeowners backups, 32 01 17 63-0000 for temporary pavement, 32 12 16 00-0000 for permanent pavement, 33 01 30 11-0000 for CCTV Inspection, 33 01 30 41-0002 for sewer cleaning.</i>		
33 01 30 71-0002 Lining Pipe, Spray Applied With Structural Polyurethane <small>(33 01 30 71-0001)</small>		
<i>Note: Two part structural polyurethane.</i>		
33 01 30 71-0003 Mobilization And Setup For Spray Applied Structural Polyurethane Lining <small>(33 01 30 71-0002)</small>		
33 01 30 71-0004 EA Initial Set Up And Final Equipment Removal For Spray Applied Structural Polyurethane Lining	1,610.85	
33 01 30 71-0005 Lining Pipe, Spray Applied With 100 mil Structural Polyurethane <small>(33 01 30 71-0002)</small>		
<i>Note: Two part structural polyurethane.</i>		
33 01 30 71-0006 LF 36" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	44.50	
<i>For Up To 75, Add</i>		
<i>For >75 To 150, Add</i>		
<i>For >150 To 300, Add</i>		
<i>For >300 To 1,000, Deduct</i>		
<i>For >1,000 To 2,000, Deduct</i>		
<i>For >2,000 To 5,000, Deduct</i>		
<i>For >5,000, Deduct</i>		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0007 LF 42" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	51.92	
For Up To 75, Add	11.40	
For >75 To 150, Add	5.19	
For >500 To 1,000, Deduct	-1.44	
For >1,000 To 2,000, Deduct	-2.79	
For >2,000 To 5,000, Deduct	-4.33	
For >5,000, Deduct	-6.21	
33 01 30 71-0008 LF 48" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	59.34	
For Up To 75, Add	13.03	
For >75 To 150, Add	5.93	
For >500 To 1,000, Deduct	-1.65	
For >1,000 To 2,000, Deduct	-3.18	
For >2,000 To 5,000, Deduct	-4.95	
For >5,000, Deduct	-7.09	
33 01 30 71-0009 LF 54" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	66.76	
For Up To 75, Add	14.66	
For >75 To 150, Add	6.68	
For >500 To 1,000, Deduct	-1.86	
For >1,000 To 2,000, Deduct	-3.58	
For >2,000 To 5,000, Deduct	-5.57	
For >5,000, Deduct	-7.98	
33 01 30 71-0010 LF 60" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	74.17	
For Up To 75, Add	16.28	
For >75 To 150, Add	7.42	
For >500 To 1,000, Deduct	-2.06	
For >1,000 To 2,000, Deduct	-3.98	
For >2,000 To 5,000, Deduct	-6.19	
For >5,000, Deduct	-8.87	
33 01 30 71-0011 LF 66" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	81.59	
For Up To 75, Add	17.91	
For >75 To 150, Add	8.16	
For >500 To 1,000, Deduct	-2.27	
For >1,000 To 2,000, Deduct	-4.38	
For >2,000 To 5,000, Deduct	-6.81	
For >5,000, Deduct	-9.75	
33 01 30 71-0012 LF 72" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	89.00	
For Up To 75, Add	19.54	
For >75 To 150, Add	8.90	
For >500 To 1,000, Deduct	-2.48	
For >1,000 To 2,000, Deduct	-4.78	
For >2,000 To 5,000, Deduct	-7.43	
For >5,000, Deduct	-10.64	
33 01 30 71-0013 LF 78" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	96.42	
For Up To 75, Add	21.17	
For >75 To 150, Add	9.64	
For >500 To 1,000, Deduct	-2.68	
For >1,000 To 2,000, Deduct	-5.17	
For >2,000 To 5,000, Deduct	-8.04	
For >5,000, Deduct	-11.52	
33 01 30 71-0014 LF 84" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	103.84	
For Up To 75, Add	22.80	
For >75 To 150, Add	10.38	
For >500 To 1,000, Deduct	-2.89	
For >1,000 To 2,000, Deduct	-5.57	
For >2,000 To 5,000, Deduct	-8.66	
For >5,000, Deduct	-12.41	
33 01 30 71-0015 LF 90" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	111.24	
For Up To 75, Add	24.42	
For >75 To 150, Add	11.12	
For >500 To 1,000, Deduct	-3.09	
For >1,000 To 2,000, Deduct	-5.97	
For >2,000 To 5,000, Deduct	-9.28	
For >5,000, Deduct	-13.30	
33 01 30 71-0016 LF 96" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	118.67	
For Up To 75, Add	26.05	
For >75 To 150, Add	11.87	
For >500 To 1,000, Deduct	-3.30	
For >1,000 To 2,000, Deduct	-6.37	
For >2,000 To 5,000, Deduct	-9.90	
For >5,000, Deduct	-14.18	
33 01 30 71-0017 LF 102" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	126.08	
For Up To 75, Add	27.68	
For >75 To 150, Add	12.61	
For >500 To 1,000, Deduct	-3.51	
For >1,000 To 2,000, Deduct	-6.77	
For >2,000 To 5,000, Deduct	-10.52	
For >5,000, Deduct	-15.07	
33 01 30 71-0018 LF 108" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	133.50	
For Up To 75, Add	29.31	
For >75 To 150, Add	13.35	
For >500 To 1,000, Deduct	-3.71	
For >1,000 To 2,000, Deduct	-7.16	
For >2,000 To 5,000, Deduct	-11.14	
For >5,000, Deduct	-15.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0019 LF 114" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	140.92	
<i>For Up To 75, Add</i>	30.94	
<i>For >75 To 150, Add</i>	14.09	
<i>For >500 To 1,000, Deduct</i>	-3.92	
<i>For >1,000 To 2,000, Deduct</i>	-7.56	
<i>For >2,000 To 5,000, Deduct</i>	-11.76	
<i>For >5,000, Deduct</i>	-16.84	
33 01 30 71-0020 LF 120" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	148.34	
<i>For Up To 75, Add</i>	32.56	
<i>For >75 To 150, Add</i>	14.83	
<i>For >500 To 1,000, Deduct</i>	-4.13	
<i>For >1,000 To 2,000, Deduct</i>	-7.96	
<i>For >2,000 To 5,000, Deduct</i>	-12.38	
<i>For >5,000, Deduct</i>	-17.73	
33 01 30 71-0021 SF Structure Lining, Spray Applied With 100 mil Structural Polyurethane.....	4.73	
33 01 30 71-0022 Lining Pipe, Spray Applied With 150 mil Structural Polyurethane <small>(33 01 30 71-0022)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0023 LF 36" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	59.00	
<i>For Up To 75, Add</i>	12.71	
<i>For >75 To 150, Add</i>	5.90	
<i>For >500 To 1,000, Deduct</i>	-1.55	
<i>For >1,000 To 2,000, Deduct</i>	-3.00	
<i>For >2,000 To 5,000, Deduct</i>	-4.64	
<i>For >5,000, Deduct</i>	-6.81	
33 01 30 71-0024 LF 42" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	68.84	
<i>For Up To 75, Add</i>	14.84	
<i>For >75 To 150, Add</i>	6.88	
<i>For >500 To 1,000, Deduct</i>	-1.80	
<i>For >1,000 To 2,000, Deduct</i>	-3.50	
<i>For >2,000 To 5,000, Deduct</i>	-5.41	
<i>For >5,000, Deduct</i>	-7.95	
33 01 30 71-0025 LF 48" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	78.67	
<i>For Up To 75, Add</i>	16.95	
<i>For >75 To 150, Add</i>	7.87	
<i>For >500 To 1,000, Deduct</i>	-2.06	
<i>For >1,000 To 2,000, Deduct</i>	-4.00	
<i>For >2,000 To 5,000, Deduct</i>	-6.18	
<i>For >5,000, Deduct</i>	-9.09	
33 01 30 71-0026 LF 54" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	88.50	
<i>For Up To 75, Add</i>	19.07	
<i>For >75 To 150, Add</i>	8.85	
<i>For >500 To 1,000, Deduct</i>	-2.32	
<i>For >1,000 To 2,000, Deduct</i>	-4.50	
<i>For >2,000 To 5,000, Deduct</i>	-6.96	
<i>For >5,000, Deduct</i>	-10.22	
33 01 30 71-0027 LF 60" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	98.33	
<i>For Up To 75, Add</i>	21.19	
<i>For >75 To 150, Add</i>	9.83	
<i>For >500 To 1,000, Deduct</i>	-2.58	
<i>For >1,000 To 2,000, Deduct</i>	-5.00	
<i>For >2,000 To 5,000, Deduct</i>	-7.73	
<i>For >5,000, Deduct</i>	-11.36	
33 01 30 71-0028 LF 66" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	108.17	
<i>For Up To 75, Add</i>	23.31	
<i>For >75 To 150, Add</i>	10.82	
<i>For >500 To 1,000, Deduct</i>	-2.83	
<i>For >1,000 To 2,000, Deduct</i>	-5.50	
<i>For >2,000 To 5,000, Deduct</i>	-8.50	
<i>For >5,000, Deduct</i>	-12.49	
33 01 30 71-0029 LF 72" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	118.00	
<i>For Up To 75, Add</i>	25.43	
<i>For >75 To 150, Add</i>	11.80	
<i>For >500 To 1,000, Deduct</i>	-3.09	
<i>For >1,000 To 2,000, Deduct</i>	-6.00	
<i>For >2,000 To 5,000, Deduct</i>	-9.27	
<i>For >5,000, Deduct</i>	-13.63	
33 01 30 71-0030 LF 78" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	127.84	
<i>For Up To 75, Add</i>	27.55	
<i>For >75 To 150, Add</i>	12.78	
<i>For >500 To 1,000, Deduct</i>	-3.35	
<i>For >1,000 To 2,000, Deduct</i>	-6.50	
<i>For >2,000 To 5,000, Deduct</i>	-10.05	
<i>For >5,000, Deduct</i>	-14.77	
33 01 30 71-0031 LF 84" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	137.68	
<i>For Up To 75, Add</i>	29.67	
<i>For >75 To 150, Add</i>	13.77	
<i>For >500 To 1,000, Deduct</i>	-3.61	
<i>For >1,000 To 2,000, Deduct</i>	-7.00	
<i>For >2,000 To 5,000, Deduct</i>	-10.82	
<i>For >5,000, Deduct</i>	-15.90	

33 Utilities
33 01 Operation and Maintenance of Utilities
33 01 30 Operation and Maintenance of Sewer Utilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0032 LF 90" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	147.51	
For Up To 75, Add	31.79	
For >75 To 150, Add	14.75	
For >500 To 1,000, Deduct	-3.86	
For >1,000 To 2,000, Deduct	-7.50	
For >2,000 To 5,000, Deduct	-11.59	
For >5,000, Deduct	-17.04	
33 01 30 71-0033 LF 96" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	157.35	
For Up To 75, Add	33.91	
For >75 To 150, Add	15.74	
For >500 To 1,000, Deduct	-4.12	
For >1,000 To 2,000, Deduct	-8.00	
For >2,000 To 5,000, Deduct	-12.37	
For >5,000, Deduct	-18.17	
33 01 30 71-0034 LF 102" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	167.17	
For Up To 75, Add	36.03	
For >75 To 150, Add	16.72	
For >500 To 1,000, Deduct	-4.38	
For >1,000 To 2,000, Deduct	-8.50	
For >2,000 To 5,000, Deduct	-13.14	
For >5,000, Deduct	-19.31	
33 01 30 71-0035 LF 108" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	177.01	
For Up To 75, Add	38.15	
For >75 To 150, Add	17.70	
For >500 To 1,000, Deduct	-4.64	
For >1,000 To 2,000, Deduct	-9.00	
For >2,000 To 5,000, Deduct	-13.91	
For >5,000, Deduct	-20.44	
33 01 30 71-0036 LF 114" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	186.84	
For Up To 75, Add	40.26	
For >75 To 150, Add	18.68	
For >500 To 1,000, Deduct	-4.90	
For >1,000 To 2,000, Deduct	-9.50	
For >2,000 To 5,000, Deduct	-14.69	
For >5,000, Deduct	-21.58	
33 01 30 71-0037 LF 120" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	196.68	
For Up To 75, Add	42.38	
For >75 To 150, Add	19.67	
For >500 To 1,000, Deduct	-5.15	
For >1,000 To 2,000, Deduct	-10.00	
For >2,000 To 5,000, Deduct	-15.46	
For >5,000, Deduct	-22.72	
33 01 30 71-0038 SF Structure Lining, Spray Applied With 150 mil Structural Polyurethane	6.26	
33 01 30 71-0039 Lining Pipe, Spray Applied With 200 mil Structural Polyurethane <small>(33 01 30 71-0002)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0040 LF 36" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	73.50	
For Up To 75, Add	15.66	
For >75 To 150, Add	7.35	
For >500 To 1,000, Deduct	-1.86	
For >1,000 To 2,000, Deduct	-3.61	
For >2,000 To 5,000, Deduct	-5.57	
For >5,000, Deduct	-8.31	
33 01 30 71-0041 LF 42" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	85.76	
For Up To 75, Add	18.28	
For >75 To 150, Add	8.58	
For >500 To 1,000, Deduct	-2.16	
For >1,000 To 2,000, Deduct	-4.22	
For >2,000 To 5,000, Deduct	-6.49	
For >5,000, Deduct	-9.70	
33 01 30 71-0042 LF 48" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	98.00	
For Up To 75, Add	20.88	
For >75 To 150, Add	9.80	
For >500 To 1,000, Deduct	-2.47	
For >1,000 To 2,000, Deduct	-4.82	
For >2,000 To 5,000, Deduct	-7.42	
For >5,000, Deduct	-11.08	
33 01 30 71-0043 LF 54" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	110.25	
For Up To 75, Add	23.49	
For >75 To 150, Add	11.03	
For >500 To 1,000, Deduct	-2.78	
For >1,000 To 2,000, Deduct	-5.42	
For >2,000 To 5,000, Deduct	-8.35	
For >5,000, Deduct	-12.47	
33 01 30 71-0044 LF 60" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	122.51	
For Up To 75, Add	26.11	
For >75 To 150, Add	12.25	
For >500 To 1,000, Deduct	-3.09	
For >1,000 To 2,000, Deduct	-6.02	
For >2,000 To 5,000, Deduct	-9.28	
For >5,000, Deduct	-13.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0045 LF 66" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	134.75	
For Up To 75, Add	28.71	
For >75 To 150, Add	13.48	
For >500 To 1,000, Deduct	-3.40	
For >1,000 To 2,000, Deduct	-6.63	
For >2,000 To 5,000, Deduct	-10.20	
For >5,000, Deduct	-15.24	
33 01 30 71-0046 LF 72" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	147.01	
For Up To 75, Add	31.33	
For >75 To 150, Add	14.70	
For >500 To 1,000, Deduct	-3.71	
For >1,000 To 2,000, Deduct	-7.23	
For >2,000 To 5,000, Deduct	-11.13	
For >5,000, Deduct	-16.63	
33 01 30 71-0047 LF 78" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	159.25	
For Up To 75, Add	33.94	
For >75 To 150, Add	15.93	
For >500 To 1,000, Deduct	-4.02	
For >1,000 To 2,000, Deduct	-7.83	
For >2,000 To 5,000, Deduct	-12.06	
For >5,000, Deduct	-18.01	
33 01 30 71-0048 LF 84" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	171.50	
For Up To 75, Add	36.55	
For >75 To 150, Add	17.15	
For >500 To 1,000, Deduct	-4.33	
For >1,000 To 2,000, Deduct	-8.43	
For >2,000 To 5,000, Deduct	-12.99	
For >5,000, Deduct	-19.40	
33 01 30 71-0049 LF 90" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	183.75	
For Up To 75, Add	39.16	
For >75 To 150, Add	18.38	
For >500 To 1,000, Deduct	-4.64	
For >1,000 To 2,000, Deduct	-9.03	
For >2,000 To 5,000, Deduct	-13.91	
For >5,000, Deduct	-20.78	
33 01 30 71-0050 LF 96" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	196.01	
For Up To 75, Add	41.77	
For >75 To 150, Add	19.60	
For >500 To 1,000, Deduct	-4.95	
For >1,000 To 2,000, Deduct	-9.64	
For >2,000 To 5,000, Deduct	-14.84	
For >5,000, Deduct	-22.17	
33 01 30 71-0051 LF 102" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	208.27	
For Up To 75, Add	44.38	
For >75 To 150, Add	20.83	
For >500 To 1,000, Deduct	-5.26	
For >1,000 To 2,000, Deduct	-10.24	
For >2,000 To 5,000, Deduct	-15.77	
For >5,000, Deduct	-23.56	
33 01 30 71-0052 LF 108" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	220.51	
For Up To 75, Add	46.99	
For >75 To 150, Add	22.05	
For >500 To 1,000, Deduct	-5.57	
For >1,000 To 2,000, Deduct	-10.84	
For >2,000 To 5,000, Deduct	-16.70	
For >5,000, Deduct	-24.94	
33 01 30 71-0053 LF 114" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	232.76	
For Up To 75, Add	49.60	
For >75 To 150, Add	23.28	
For >500 To 1,000, Deduct	-5.87	
For >1,000 To 2,000, Deduct	-11.44	
For >2,000 To 5,000, Deduct	-17.62	
For >5,000, Deduct	-26.32	
33 01 30 71-0054 LF 120" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	245.01	
For Up To 75, Add	52.21	
For >75 To 150, Add	24.50	
For >500 To 1,000, Deduct	-6.18	
For >1,000 To 2,000, Deduct	-12.05	
For >2,000 To 5,000, Deduct	-18.55	
For >5,000, Deduct	-27.71	
33 01 30 71-0055 SF Structure Lining, Spray Applied With 200 mil Structural Polyurethane.....	7.81	
33 01 30 71-0056 Lining Pipe, Spray Applied With 250 mil Structural Polyurethane <small>(33 01 30 71-0002)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0057 LF 36" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	88.08	
For Up To 75, Add	18.63	
For >75 To 150, Add	8.81	
For >500 To 1,000, Deduct	-2.17	
For >1,000 To 2,000, Deduct	-4.23	
For >2,000 To 5,000, Deduct	-6.50	
For >5,000, Deduct	-9.82	

33 Utilities
33 01 Operation and Maintenance of Utilities
33 01 30 Operation and Maintenance of Sewer Utilities



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0058	LF		42" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	102.76	
			For Up To 75, Add	21.73	
			For >75 To 150, Add	10.28	
			For >500 To 1,000, Deduct	-2.53	
			For >1,000 To 2,000, Deduct	-4.94	
			For >2,000 To 5,000, Deduct	-7.58	
			For >5,000, Deduct	-11.46	
33 01 30 71-0059	LF		48" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	117.44	
			For Up To 75, Add	24.84	
			For >75 To 150, Add	11.74	
			For >500 To 1,000, Deduct	-2.89	
			For >1,000 To 2,000, Deduct	-5.64	
			For >2,000 To 5,000, Deduct	-8.67	
			For >5,000, Deduct	-13.10	
33 01 30 71-0060	LF		54" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	132.12	
			For Up To 75, Add	27.94	
			For >75 To 150, Add	13.21	
			For >500 To 1,000, Deduct	-3.25	
			For >1,000 To 2,000, Deduct	-6.35	
			For >2,000 To 5,000, Deduct	-9.75	
			For >5,000, Deduct	-14.73	
33 01 30 71-0061	LF		60" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	146.80	
			For Up To 75, Add	31.05	
			For >75 To 150, Add	14.68	
			For >500 To 1,000, Deduct	-3.61	
			For >1,000 To 2,000, Deduct	-7.05	
			For >2,000 To 5,000, Deduct	-10.83	
			For >5,000, Deduct	-16.37	
33 01 30 71-0062	LF		66" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	161.48	
			For Up To 75, Add	34.15	
			For >75 To 150, Add	16.15	
			For >500 To 1,000, Deduct	-3.97	
			For >1,000 To 2,000, Deduct	-7.76	
			For >2,000 To 5,000, Deduct	-11.92	
			For >5,000, Deduct	-18.01	
33 01 30 71-0063	LF		72" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	176.16	
			For Up To 75, Add	37.26	
			For >75 To 150, Add	17.62	
			For >500 To 1,000, Deduct	-4.33	
			For >1,000 To 2,000, Deduct	-8.47	
			For >2,000 To 5,000, Deduct	-13.00	
			For >5,000, Deduct	-19.64	
33 01 30 71-0064	LF		78" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	190.83	
			For Up To 75, Add	40.36	
			For >75 To 150, Add	19.08	
			For >500 To 1,000, Deduct	-4.69	
			For >1,000 To 2,000, Deduct	-9.17	
			For >2,000 To 5,000, Deduct	-14.08	
			For >5,000, Deduct	-21.28	
33 01 30 71-0065	LF		84" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	205.52	
			For Up To 75, Add	43.47	
			For >75 To 150, Add	20.55	
			For >500 To 1,000, Deduct	-5.06	
			For >1,000 To 2,000, Deduct	-9.88	
			For >2,000 To 5,000, Deduct	-15.17	
			For >5,000, Deduct	-22.92	
33 01 30 71-0066	LF		90" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	220.20	
			For Up To 75, Add	46.57	
			For >75 To 150, Add	22.02	
			For >500 To 1,000, Deduct	-5.42	
			For >1,000 To 2,000, Deduct	-10.58	
			For >2,000 To 5,000, Deduct	-16.25	
			For >5,000, Deduct	-24.55	
33 01 30 71-0067	LF		96" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	234.88	
			For Up To 75, Add	49.68	
			For >75 To 150, Add	23.49	
			For >500 To 1,000, Deduct	-5.78	
			For >1,000 To 2,000, Deduct	-11.29	
			For >2,000 To 5,000, Deduct	-17.34	
			For >5,000, Deduct	-26.19	
33 01 30 71-0068	LF		102" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	249.55	
			For Up To 75, Add	52.78	
			For >75 To 150, Add	24.96	
			For >500 To 1,000, Deduct	-6.14	
			For >1,000 To 2,000, Deduct	-11.99	
			For >2,000 To 5,000, Deduct	-18.42	
			For >5,000, Deduct	-27.83	
33 01 30 71-0069	LF		108" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	264.23	
			For Up To 75, Add	55.89	
			For >75 To 150, Add	26.42	
			For >500 To 1,000, Deduct	-6.50	
			For >1,000 To 2,000, Deduct	-12.70	
			For >2,000 To 5,000, Deduct	-19.50	
			For >5,000, Deduct	-29.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0070 LF 114" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	278.92	
For Up To 75, Add	58.99	
For >75 To 150, Add	27.89	
For >500 To 1,000, Deduct	-6.86	
For >1,000 To 2,000, Deduct	-13.40	
For >2,000 To 5,000, Deduct	-20.59	
For >5,000, Deduct	-31.10	
33 01 30 71-0071 LF 120" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	293.60	
For Up To 75, Add	62.10	
For >75 To 150, Add	29.36	
For >500 To 1,000, Deduct	-7.22	
For >1,000 To 2,000, Deduct	-14.11	
For >2,000 To 5,000, Deduct	-21.67	
For >5,000, Deduct	-32.74	
33 01 30 71-0072 SF Structure Lining, Spray Applied With 250 mil Structural Polyurethane.....	9.35	
33 01 30 71-0073 Lining Pipe, Spray Applied With 300 mil Structural Polyurethane (33 01 30 71-0002)		
Note: Two part structural polyurethane.		
33 01 30 71-0074 LF 36" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	102.76	
For Up To 75, Add	21.62	
For >75 To 150, Add	10.28	
For >500 To 1,000, Deduct	-2.48	
For >1,000 To 2,000, Deduct	-4.86	
For >2,000 To 5,000, Deduct	-7.45	
For >5,000, Deduct	-11.34	
33 01 30 71-0075 LF 42" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	119.89	
For Up To 75, Add	25.22	
For >75 To 150, Add	11.99	
For >500 To 1,000, Deduct	-2.90	
For >1,000 To 2,000, Deduct	-5.67	
For >2,000 To 5,000, Deduct	-8.69	
For >5,000, Deduct	-13.23	
33 01 30 71-0076 LF 48" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	137.02	
For Up To 75, Add	28.83	
For >75 To 150, Add	13.70	
For >500 To 1,000, Deduct	-3.31	
For >1,000 To 2,000, Deduct	-6.48	
For >2,000 To 5,000, Deduct	-9.93	
For >5,000, Deduct	-15.12	
33 01 30 71-0077 LF 54" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	154.14	
For Up To 75, Add	32.43	
For >75 To 150, Add	15.41	
For >500 To 1,000, Deduct	-3.72	
For >1,000 To 2,000, Deduct	-7.29	
For >2,000 To 5,000, Deduct	-11.17	
For >5,000, Deduct	-17.01	
33 01 30 71-0078 LF 60" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	171.27	
For Up To 75, Add	36.03	
For >75 To 150, Add	17.13	
For >500 To 1,000, Deduct	-4.14	
For >1,000 To 2,000, Deduct	-8.10	
For >2,000 To 5,000, Deduct	-12.41	
For >5,000, Deduct	-18.91	
33 01 30 71-0079 LF 66" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	188.39	
For Up To 75, Add	39.63	
For >75 To 150, Add	18.84	
For >500 To 1,000, Deduct	-4.55	
For >1,000 To 2,000, Deduct	-8.90	
For >2,000 To 5,000, Deduct	-13.65	
For >5,000, Deduct	-20.79	
33 01 30 71-0080 LF 72" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	205.51	
For Up To 75, Add	43.24	
For >75 To 150, Add	20.55	
For >500 To 1,000, Deduct	-4.96	
For >1,000 To 2,000, Deduct	-9.71	
For >2,000 To 5,000, Deduct	-14.89	
For >5,000, Deduct	-22.68	
33 01 30 71-0081 LF 78" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	222.64	
For Up To 75, Add	46.84	
For >75 To 150, Add	22.26	
For >500 To 1,000, Deduct	-5.38	
For >1,000 To 2,000, Deduct	-10.52	
For >2,000 To 5,000, Deduct	-16.13	
For >5,000, Deduct	-24.58	
33 01 30 71-0082 LF 84" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	239.76	
For Up To 75, Add	50.44	
For >75 To 150, Add	23.98	
For >500 To 1,000, Deduct	-5.79	
For >1,000 To 2,000, Deduct	-11.33	
For >2,000 To 5,000, Deduct	-17.37	
For >5,000, Deduct	-26.46	

33 Utilities
33 01 Operation and Maintenance of Utilities
33 01 30 Operation and Maintenance of Sewer Utilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0083 LF 90" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	256.89	
For Up To 75, Add	54.04	
For >75 To 150, Add	25.69	
For >500 To 1,000, Deduct	-6.20	
For >1,000 To 2,000, Deduct	-12.14	
For >2,000 To 5,000, Deduct	-18.61	
For >5,000, Deduct	-28.36	
33 01 30 71-0084 LF 96" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	274.02	
For Up To 75, Add	57.65	
For >75 To 150, Add	27.40	
For >500 To 1,000, Deduct	-6.62	
For >1,000 To 2,000, Deduct	-12.95	
For >2,000 To 5,000, Deduct	-19.85	
For >5,000, Deduct	-30.25	
33 01 30 71-0085 LF 102" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	291.15	
For Up To 75, Add	61.25	
For >75 To 150, Add	29.12	
For >500 To 1,000, Deduct	-7.03	
For >1,000 To 2,000, Deduct	-13.76	
For >2,000 To 5,000, Deduct	-21.10	
For >5,000, Deduct	-32.14	
33 01 30 71-0086 LF 108" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	308.27	
For Up To 75, Add	64.85	
For >75 To 150, Add	30.83	
For >500 To 1,000, Deduct	-7.45	
For >1,000 To 2,000, Deduct	-14.57	
For >2,000 To 5,000, Deduct	-22.34	
For >5,000, Deduct	-34.03	
33 01 30 71-0087 LF 114" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	325.40	
For Up To 75, Add	68.46	
For >75 To 150, Add	32.54	
For >500 To 1,000, Deduct	-7.86	
For >1,000 To 2,000, Deduct	-15.38	
For >2,000 To 5,000, Deduct	-23.58	
For >5,000, Deduct	-35.92	
33 01 30 71-0088 LF 120" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	342.53	
For Up To 75, Add	72.06	
For >75 To 150, Add	34.25	
For >500 To 1,000, Deduct	-8.27	
For >1,000 To 2,000, Deduct	-16.19	
For >2,000 To 5,000, Deduct	-24.82	
For >5,000, Deduct	-37.81	
33 01 30 71-0089 SF Structure Lining, Spray Applied With 300 mil Structural Polyurethane	10.90	
33 01 30 71-0090 Lining Pipe, Spray Applied With 400 mil Structural Polyurethane (33 01 30 71-0002)		
Note: Two part structural polyurethane.		
33 01 30 71-0091 LF 36" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	132.20	
For Up To 75, Add	27.63	
For >75 To 150, Add	13.22	
For >500 To 1,000, Deduct	-3.12	
For >1,000 To 2,000, Deduct	-6.12	
For >2,000 To 5,000, Deduct	-9.35	
For >5,000, Deduct	-14.41	
33 01 30 71-0092 LF 42" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	154.24	
For Up To 75, Add	32.23	
For >75 To 150, Add	15.42	
For >500 To 1,000, Deduct	-3.64	
For >1,000 To 2,000, Deduct	-7.14	
For >2,000 To 5,000, Deduct	-10.91	
For >5,000, Deduct	-16.81	
33 01 30 71-0093 LF 48" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	176.26	
For Up To 75, Add	36.83	
For >75 To 150, Add	17.63	
For >500 To 1,000, Deduct	-4.16	
For >1,000 To 2,000, Deduct	-8.16	
For >2,000 To 5,000, Deduct	-12.47	
For >5,000, Deduct	-19.21	
33 01 30 71-0094 LF 54" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	198.31	
For Up To 75, Add	41.44	
For >75 To 150, Add	19.83	
For >500 To 1,000, Deduct	-4.68	
For >1,000 To 2,000, Deduct	-9.18	
For >2,000 To 5,000, Deduct	-14.03	
For >5,000, Deduct	-21.61	
33 01 30 71-0095 LF 60" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	220.33	
For Up To 75, Add	46.04	
For >75 To 150, Add	22.03	
For >500 To 1,000, Deduct	-5.20	
For >1,000 To 2,000, Deduct	-10.20	
For >2,000 To 5,000, Deduct	-15.59	
For >5,000, Deduct	-24.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0096 LF 66" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	242.38	
For Up To 75, Add	50.65	
For >75 To 150, Add	24.24	
For >500 To 1,000, Deduct	-5.72	
For >1,000 To 2,000, Deduct	-11.22	
For >2,000 To 5,000, Deduct	-17.15	
For >5,000, Deduct	-26.41	
33 01 30 71-0097 LF 72" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	264.41	
For Up To 75, Add	55.25	
For >75 To 150, Add	26.44	
For >500 To 1,000, Deduct	-6.24	
For >1,000 To 2,000, Deduct	-12.24	
For >2,000 To 5,000, Deduct	-18.71	
For >5,000, Deduct	-28.81	
33 01 30 71-0098 LF 78" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	286.45	
For Up To 75, Add	59.86	
For >75 To 150, Add	28.65	
For >500 To 1,000, Deduct	-6.76	
For >1,000 To 2,000, Deduct	-13.26	
For >2,000 To 5,000, Deduct	-20.27	
For >5,000, Deduct	-31.21	
33 01 30 71-0099 LF 84" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	308.47	
For Up To 75, Add	64.46	
For >75 To 150, Add	30.85	
For >500 To 1,000, Deduct	-7.28	
For >1,000 To 2,000, Deduct	-14.27	
For >2,000 To 5,000, Deduct	-21.83	
For >5,000, Deduct	-33.61	
33 01 30 71-0100 LF 90" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	330.52	
For Up To 75, Add	69.07	
For >75 To 150, Add	33.05	
For >500 To 1,000, Deduct	-7.80	
For >1,000 To 2,000, Deduct	-15.30	
For >2,000 To 5,000, Deduct	-23.39	
For >5,000, Deduct	-36.02	
33 01 30 71-0101 LF 96" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	352.54	
For Up To 75, Add	73.67	
For >75 To 150, Add	35.25	
For >500 To 1,000, Deduct	-8.32	
For >1,000 To 2,000, Deduct	-16.31	
For >2,000 To 5,000, Deduct	-24.95	
For >5,000, Deduct	-38.41	
33 01 30 71-0102 LF 102" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	374.58	
For Up To 75, Add	78.27	
For >75 To 150, Add	37.46	
For >500 To 1,000, Deduct	-8.84	
For >1,000 To 2,000, Deduct	-17.33	
For >2,000 To 5,000, Deduct	-26.51	
For >5,000, Deduct	-40.82	
33 01 30 71-0103 LF 108" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	396.61	
For Up To 75, Add	82.88	
For >75 To 150, Add	39.66	
For >500 To 1,000, Deduct	-9.35	
For >1,000 To 2,000, Deduct	-18.35	
For >2,000 To 5,000, Deduct	-28.06	
For >5,000, Deduct	-43.22	
33 01 30 71-0104 LF 114" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	418.65	
For Up To 75, Add	87.48	
For >75 To 150, Add	41.87	
For >500 To 1,000, Deduct	-9.87	
For >1,000 To 2,000, Deduct	-19.37	
For >2,000 To 5,000, Deduct	-29.62	
For >5,000, Deduct	-45.62	
33 01 30 71-0105 LF 120" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	440.67	
For Up To 75, Add	92.08	
For >75 To 150, Add	44.07	
For >500 To 1,000, Deduct	-10.39	
For >1,000 To 2,000, Deduct	-20.39	
For >2,000 To 5,000, Deduct	-31.18	
For >5,000, Deduct	-48.02	
33 01 30 71-0106 SF Structure Lining, Spray Applied With 400 mil Structural Polyurethane.....	14.02	
33 01 30 71-0107 Lining Pipe, Spray Applied With 500 mil Structural Polyurethane <small>(33 01 30 71-0002)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0108 LF 36" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	161.95	
For Up To 75, Add	33.71	
For >75 To 150, Add	16.20	
For >500 To 1,000, Deduct	-3.77	
For >1,000 To 2,000, Deduct	-7.40	
For >2,000 To 5,000, Deduct	-11.30	
For >5,000, Deduct	-17.51	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0109 LF 42" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	188.96	
For Up To 75, Add	39.33	
For >75 To 150, Add	18.90	
For >500 To 1,000, Deduct	-4.39	
For >1,000 To 2,000, Deduct	-8.63	
For >2,000 To 5,000, Deduct	-13.18	
For >5,000, Deduct	-20.43	
33 01 30 71-0110 LF 48" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	215.95	
For Up To 75, Add	44.95	
For >75 To 150, Add	21.60	
For >500 To 1,000, Deduct	-5.02	
For >1,000 To 2,000, Deduct	-9.87	
For >2,000 To 5,000, Deduct	-15.06	
For >5,000, Deduct	-23.35	
33 01 30 71-0111 LF 54" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	242.93	
For Up To 75, Add	50.56	
For >75 To 150, Add	24.29	
For >500 To 1,000, Deduct	-5.65	
For >1,000 To 2,000, Deduct	-11.10	
For >2,000 To 5,000, Deduct	-16.95	
For >5,000, Deduct	-26.27	
33 01 30 71-0112 LF 60" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	269.94	
For Up To 75, Add	56.18	
For >75 To 150, Add	26.99	
For >500 To 1,000, Deduct	-6.28	
For >1,000 To 2,000, Deduct	-12.33	
For >2,000 To 5,000, Deduct	-18.83	
For >5,000, Deduct	-29.19	
33 01 30 71-0113 LF 66" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	296.92	
For Up To 75, Add	61.80	
For >75 To 150, Add	29.69	
For >500 To 1,000, Deduct	-6.90	
For >1,000 To 2,000, Deduct	-13.57	
For >2,000 To 5,000, Deduct	-20.71	
For >5,000, Deduct	-32.11	
33 01 30 71-0114 LF 72" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	323.93	
For Up To 75, Add	67.42	
For >75 To 150, Add	32.39	
For >500 To 1,000, Deduct	-7.53	
For >1,000 To 2,000, Deduct	-14.80	
For >2,000 To 5,000, Deduct	-22.60	
For >5,000, Deduct	-35.03	
33 01 30 71-0115 LF 78" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	350.91	
For Up To 75, Add	73.04	
For >75 To 150, Add	35.09	
For >500 To 1,000, Deduct	-8.16	
For >1,000 To 2,000, Deduct	-16.03	
For >2,000 To 5,000, Deduct	-24.48	
For >5,000, Deduct	-37.94	
33 01 30 71-0116 LF 84" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	377.90	
For Up To 75, Add	78.65	
For >75 To 150, Add	37.79	
For >500 To 1,000, Deduct	-8.79	
For >1,000 To 2,000, Deduct	-17.27	
For >2,000 To 5,000, Deduct	-26.36	
For >5,000, Deduct	-40.86	
33 01 30 71-0117 LF 90" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	404.91	
For Up To 75, Add	84.27	
For >75 To 150, Add	40.49	
For >500 To 1,000, Deduct	-9.42	
For >1,000 To 2,000, Deduct	-18.50	
For >2,000 To 5,000, Deduct	-28.25	
For >5,000, Deduct	-43.78	
33 01 30 71-0118 LF 96" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	431.89	
For Up To 75, Add	89.89	
For >75 To 150, Add	43.19	
For >500 To 1,000, Deduct	-10.04	
For >1,000 To 2,000, Deduct	-19.73	
For >2,000 To 5,000, Deduct	-30.13	
For >5,000, Deduct	-46.70	
33 01 30 71-0119 LF 102" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	458.89	
For Up To 75, Add	95.51	
For >75 To 150, Add	45.89	
For >500 To 1,000, Deduct	-10.67	
For >1,000 To 2,000, Deduct	-20.97	
For >2,000 To 5,000, Deduct	-32.01	
For >5,000, Deduct	-49.62	
33 01 30 71-0120 LF 108" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	485.88	
For Up To 75, Add	101.13	
For >75 To 150, Add	48.59	
For >500 To 1,000, Deduct	-11.30	
For >1,000 To 2,000, Deduct	-22.20	
For >2,000 To 5,000, Deduct	-33.89	
For >5,000, Deduct	-52.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0121 LF 114" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	512.87	
For Up To 75, Add	106.74	
For >75 To 150, Add	51.29	
For >500 To 1,000, Deduct	-11.93	
For >1,000 To 2,000, Deduct	-23.43	
For >2,000 To 5,000, Deduct	-35.78	
For >5,000, Deduct	-55.46	
33 01 30 71-0122 LF 120" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	539.88	
For Up To 75, Add	112.37	
For >75 To 150, Add	53.99	
For >500 To 1,000, Deduct	-12.55	
For >1,000 To 2,000, Deduct	-24.67	
For >2,000 To 5,000, Deduct	-37.66	
For >5,000, Deduct	-58.38	
33 01 30 71-0123 SF Structure Lining, Spray Applied With 500 mil Structural Polyurethane.....	17.19	
 33 01 30 72 Cured-in-Place Pipe Lining <small>(33 01 30)</small>		
33 01 30 72-0001 Cured-In-Place Pipe (CIPP) Relining Underground Pipelines <small>(33 01 30 72)</small>		
Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.		
33 01 30 72-0002 Cured In-Place Pipe (CIPP) Lining Set-Up And Reinsertion <small>(33 01 30 72-0001)</small>		
33 01 30 72-0003 EA Initial Set Up And Final Equipment Removal For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,376.88	
33 01 30 72-0004 EA Initial Set Up And Final Equipment Removal For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP).....	2,294.81	
33 01 30 72-0005 EA Initial Set Up And Final Equipment Removal For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	3,442.21	
33 01 30 72-0006 EA Initial Set Up And Final Equipment Removal For Relining Underground Pipelines Cured In-Place Pipe (CIPP).....	4,589.63	
33 01 30 72-0007 EA Move And Reset Up At Different Access/Location For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP).....	688.45	
33 01 30 72-0008 EA Move And Reset Up At Different Access/Location For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,147.40	
33 01 30 72-0009 EA Move And Reset Up At Different Access/Location For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,434.26	
33 01 30 72-0010 EA Move And Reset Up At Different Access/Location For Relining Underground Pipelines Cured In-Place Pipe (CIPP).....	1,835.85	
33 01 30 72-0011 EA Mixing Truck And Refrigeration For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,147.40	
Note: Need to mix wet material in bag prior to installation.		
33 01 30 72-0012 EA Mixing Truck And Refrigeration For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP).....	2,753.78	
Note: Need to mix wet material in bag prior to installation.		
33 01 30 72-0013 EA Mixing Truck And Refrigeration For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	4,589.63	
Note: Need to mix wet material in bag prior to installation.		
33 01 30 72-0014 EA Mixing Truck And Refrigeration For Relining >48" To 72" Underground Pipelines Cured In-Place Pipe (CIPP).....	6,884.44	
Note: Need to mix wet material in bag prior to installation.		
 33 01 30 72-0015 Lining Pipe With Polyester Resin Impregnated Cured In-Place Pipe (CIPP)		
<small>(33 01 30 72-0001)</small>		
Note: Cured in-place thermosetting resin pipe and resin impregnated tube. Excludes video camera inspection, culvert cleaning and grouting.		
 33 01 30 72-0016 4.5mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0017 LF 4.5mm Lining 2" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	17.69	
For Vinylster Resin, Add	3.95	
For Epoxy Resin, Add	0.47	
For Up To >10, Add	38.97	
For >10 To 25, Add	31.54	
For >25 To 50, Add	19.20	
For >50 To 100, Add	9.60	
For >500 To 1,000, Deduct	-1.19	
For >1,000 To 2,000, Deduct	-1.93	
For >2,000 To 5,000, Deduct	-3.69	
For >5,000, Deduct	-5.95	
33 01 30 72-0018 LF 4.5mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	20.78	
For Vinylster Resin, Add	6.11	
For Epoxy Resin, Add	0.72	
For Up To >10, Add	40.52	
For >10 To 25, Add	32.31	
For >25 To 50, Add	19.82	
For >50 To 100, Add	9.91	
For >500 To 1,000, Deduct	-1.34	
For >1,000 To 2,000, Deduct	-2.16	
For >2,000 To 5,000, Deduct	-4.06	
For >5,000, Deduct	-6.57	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0019 LF 4.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	23.88	
For Vinlyester Resin, Add	8.28	
For Epoxy Resin, Add	0.98	
For Up To >10, Add	42.07	
For >10 To 25, Add	33.08	
For >25 To 50, Add	20.44	
For >50 To 100, Add	10.22	
For >500 To 1,000, Deduct	-1.50	
For >1,000 To 2,000, Deduct	-2.39	
For >2,000 To 5,000, Deduct	-4.43	
For >5,000, Deduct	-7.19	
33 01 30 72-0020 LF 4.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	31.20	
For Vinlyester Resin, Add	12.61	
For Epoxy Resin, Add	1.49	
For Up To >10, Add	48.58	
For >10 To 25, Add	37.48	
For >25 To 50, Add	23.39	
For >50 To 100, Add	11.69	
For >500 To 1,000, Deduct	-1.89	
For >1,000 To 2,000, Deduct	-3.00	
For >2,000 To 5,000, Deduct	-5.46	
For >5,000, Deduct	-8.88	
33 01 30 72-0021 LF 4.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	38.55	
For Vinlyester Resin, Add	16.94	
For Epoxy Resin, Add	2.00	
For Up To >10, Add	55.15	
For >10 To 25, Add	41.93	
For >25 To 50, Add	26.37	
For >50 To 100, Add	13.18	
For >500 To 1,000, Deduct	-2.29	
For >1,000 To 2,000, Deduct	-3.61	
For >2,000 To 5,000, Deduct	-6.49	
For >5,000, Deduct	-10.58	
33 01 30 72-0022 6mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0023 LF 6mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	23.45	
For Vinlyester Resin, Add	7.98	
For Epoxy Resin, Add	0.94	
For Up To >10, Add	41.85	
For >10 To 25, Add	32.98	
For >25 To 50, Add	20.36	
For >50 To 100, Add	10.18	
For >500 To 1,000, Deduct	-1.47	
For >1,000 To 2,000, Deduct	-2.36	
For >2,000 To 5,000, Deduct	-4.38	
For >5,000, Deduct	-7.10	
33 01 30 72-0024 LF 6mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	27.57	
For Vinlyester Resin, Add	10.86	
For Epoxy Resin, Add	1.28	
For Up To >10, Add	43.91	
For >10 To 25, Add	34.01	
For >25 To 50, Add	21.18	
For >50 To 100, Add	10.59	
For >500 To 1,000, Deduct	-1.68	
For >1,000 To 2,000, Deduct	-2.67	
For >2,000 To 5,000, Deduct	-4.87	
For >5,000, Deduct	-7.92	
33 01 30 72-0025 LF 6mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	36.96	
For Vinlyester Resin, Add	16.64	
For Epoxy Resin, Add	1.96	
For Up To >10, Add	51.46	
For >10 To 25, Add	38.92	
For >25 To 50, Add	24.54	
For >50 To 100, Add	12.27	
For >500 To 1,000, Deduct	-2.18	
For >1,000 To 2,000, Deduct	-3.43	
For >2,000 To 5,000, Deduct	-6.15	
For >5,000, Deduct	-10.03	
33 01 30 72-0026 LF 6mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	46.37	
For Vinlyester Resin, Add	22.41	
For Epoxy Resin, Add	2.64	
For Up To >10, Add	59.06	
For >10 To 25, Add	43.88	
For >25 To 50, Add	27.93	
For >50 To 100, Add	13.96	
For >500 To 1,000, Deduct	-2.68	
For >1,000 To 2,000, Deduct	-4.20	
For >2,000 To 5,000, Deduct	-7.43	
For >5,000, Deduct	-12.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0027 LF 6mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	55.88	
For Vinylster Resin, Add	28.19	
For Epoxy Resin, Add	3.32	
For Up To >10, Add	66.97	
For >10 To 25, Add	49.09	
For >25 To 50, Add	31.47	
For >50 To 100, Add	15.73	
For >500 To 1,000, Deduct	-3.18	
For >1,000 To 2,000, Deduct	-4.97	
For >2,000 To 5,000, Deduct	-8.73	
For >5,000, Deduct	-14.30	
33 01 30 72-0028 LF 6mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	65.73	
For Vinylster Resin, Add	33.96	
For Epoxy Resin, Add	4.00	
For Up To >10, Add	75.89	
For >10 To 25, Add	55.16	
For >25 To 50, Add	35.52	
For >50 To 100, Add	17.76	
For >500 To 1,000, Deduct	-3.72	
For >1,000 To 2,000, Deduct	-5.79	
For >2,000 To 5,000, Deduct	-10.12	
For >5,000, Deduct	-16.59	
33 01 30 72-0029 7.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0030 LF 7.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	31.15	
For Vinylster Resin, Add	13.37	
For Epoxy Resin, Add	1.58	
For Up To >10, Add	45.70	
For >10 To 25, Add	34.90	
For >25 To 50, Add	21.90	
For >50 To 100, Add	10.95	
For >500 To 1,000, Deduct	-1.86	
For >1,000 To 2,000, Deduct	-2.94	
For >2,000 To 5,000, Deduct	-5.30	
For >5,000, Deduct	-8.64	
33 01 30 72-0031 LF 7.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	42.60	
For Vinylster Resin, Add	20.59	
For Epoxy Resin, Add	2.43	
For Up To >10, Add	54.28	
For >10 To 25, Add	40.33	
For >25 To 50, Add	25.67	
For >50 To 100, Add	12.83	
For >500 To 1,000, Deduct	-2.46	
For >1,000 To 2,000, Deduct	-3.85	
For >2,000 To 5,000, Deduct	-6.83	
For >5,000, Deduct	-11.16	
33 01 30 72-0032 LF 7.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	54.08	
For Vinylster Resin, Add	27.81	
For Epoxy Resin, Add	3.28	
For Up To >10, Add	62.92	
For >10 To 25, Add	45.81	
For >25 To 50, Add	29.47	
For >50 To 100, Add	14.74	
For >500 To 1,000, Deduct	-3.06	
For >1,000 To 2,000, Deduct	-4.77	
For >2,000 To 5,000, Deduct	-8.36	
For >5,000, Deduct	-13.69	
33 01 30 72-0033 LF 7.5mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	65.65	
For Vinylster Resin, Add	35.03	
For Epoxy Resin, Add	4.13	
For Up To >10, Add	71.85	
For >10 To 25, Add	51.54	
For >25 To 50, Add	33.42	
For >50 To 100, Add	16.71	
For >500 To 1,000, Deduct	-3.67	
For >1,000 To 2,000, Deduct	-5.70	
For >2,000 To 5,000, Deduct	-9.91	
For >5,000, Deduct	-16.25	
33 01 30 72-0034 LF 7.5mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	77.56	
For Vinylster Resin, Add	42.25	
For Epoxy Resin, Add	4.98	
For Up To >10, Add	81.81	
For >10 To 25, Add	58.11	
For >25 To 50, Add	37.89	
For >50 To 100, Add	18.94	
For >500 To 1,000, Deduct	-4.31	
For >1,000 To 2,000, Deduct	-6.68	
For >2,000 To 5,000, Deduct	-11.54	
For >5,000, Deduct	-18.95	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0035 LF 7.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	95.33	
For Vinlyester Resin, Add	53.07	
For Epoxy Resin, Add	6.26	
For Up To >10, Add	96.44	
For >10 To 25, Add	67.73	
For >25 To 50, Add	44.43	
For >50 To 100, Add	22.21	
For >500 To 1,000, Deduct	-5.25	
For >1,000 To 2,000, Deduct	-8.13	
For >2,000 To 5,000, Deduct	-13.98	
For >5,000, Deduct	-22.97	
33 01 30 72-0036 LF 7.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	113.31	
For Vinlyester Resin, Add	63.90	
For Epoxy Resin, Add	7.53	
For Up To >10, Add	111.73	
For >10 To 25, Add	77.90	
For >25 To 50, Add	51.30	
For >50 To 100, Add	25.65	
For >500 To 1,000, Deduct	-6.22	
For >1,000 To 2,000, Deduct	-9.60	
For >2,000 To 5,000, Deduct	-16.46	
For >5,000, Deduct	-27.07	
33 01 30 72-0037 9mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0038 LF 9mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	48.12	
For Vinlyester Resin, Add	24.45	
For Epoxy Resin, Add	2.88	
For Up To >10, Add	57.04	
For >10 To 25, Add	41.71	
For >25 To 50, Add	26.77	
For >50 To 100, Add	13.39	
For >500 To 1,000, Deduct	-2.74	
For >1,000 To 2,000, Deduct	-4.27	
For >2,000 To 5,000, Deduct	-7.49	
For >5,000, Deduct	-12.26	
33 01 30 72-0039 LF 9mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	61.65	
For Vinlyester Resin, Add	33.11	
For Epoxy Resin, Add	3.90	
For Up To >10, Add	66.70	
For >10 To 25, Add	47.70	
For >25 To 50, Add	30.99	
For >50 To 100, Add	15.49	
For >500 To 1,000, Deduct	-3.44	
For >1,000 To 2,000, Deduct	-5.34	
For >2,000 To 5,000, Deduct	-9.26	
For >5,000, Deduct	-15.20	
33 01 30 72-0040 LF 9mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	75.29	
For Vinlyester Resin, Add	41.78	
For Epoxy Resin, Add	4.92	
For Up To >10, Add	76.67	
For >10 To 25, Add	53.95	
For >25 To 50, Add	35.35	
For >50 To 100, Add	17.68	
For >500 To 1,000, Deduct	-4.15	
For >1,000 To 2,000, Deduct	-6.43	
For >2,000 To 5,000, Deduct	-11.06	
For >5,000, Deduct	-18.18	
33 01 30 72-0041 LF 9mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	89.26	
For Vinlyester Resin, Add	50.44	
For Epoxy Resin, Add	5.94	
For Up To >10, Add	87.66	
For >10 To 25, Add	61.04	
For >25 To 50, Add	40.23	
For >50 To 100, Add	20.11	
For >500 To 1,000, Deduct	-4.89	
For >1,000 To 2,000, Deduct	-7.56	
For >2,000 To 5,000, Deduct	-12.95	
For >5,000, Deduct	-21.29	
33 01 30 72-0042 LF 9mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	110.12	
For Vinlyester Resin, Add	63.43	
For Epoxy Resin, Add	7.48	
For Up To >10, Add	103.84	
For >10 To 25, Add	71.43	
For >25 To 50, Add	47.39	
For >50 To 100, Add	23.69	
For >500 To 1,000, Deduct	-5.99	
For >1,000 To 2,000, Deduct	-9.23	
For >2,000 To 5,000, Deduct	-15.75	
For >5,000, Deduct	-25.93	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0043 LF 9mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	131.20	
For Vinlyester Resin, Add	76.42	
For Epoxy Resin, Add	9.01	
For Up To >10, Add	120.68	
For >10 To 25, Add	82.37	
For >25 To 50, Add	54.88	
For >50 To 100, Add	27.44	
For >500 To 1,000, Deduct	-7.11	
For >1,000 To 2,000, Deduct	-10.94	
For >2,000 To 5,000, Deduct	-18.61	
For >5,000, Deduct	-30.65	
33 01 30 72-0044 LF 9mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	151.59	
For Vinlyester Resin, Add	89.41	
For Epoxy Resin, Add	10.54	
For Up To >10, Add	135.45	
For >10 To 25, Add	91.58	
For >25 To 50, Add	61.34	
For >50 To 100, Add	30.67	
For >500 To 1,000, Deduct	-8.18	
For >1,000 To 2,000, Deduct	-12.56	
For >2,000 To 5,000, Deduct	-21.29	
For >5,000, Deduct	-35.09	
33 01 30 72-0045 LF 9mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	172.35	
For Vinlyester Resin, Add	102.41	
For Epoxy Resin, Add	12.07	
For Up To >10, Add	151.30	
For >10 To 25, Add	101.70	
For >25 To 50, Add	68.34	
For >50 To 100, Add	34.17	
For >500 To 1,000, Deduct	-9.27	
For >1,000 To 2,000, Deduct	-14.23	
For >2,000 To 5,000, Deduct	-24.07	
For >5,000, Deduct	-39.68	
33 01 30 72-0046 10.5mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0047 LF 10.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	124.80	
For Vinlyester Resin, Add	73.70	
For Epoxy Resin, Add	8.69	
For Up To >10, Add	111.18	
For >10 To 25, Add	75.10	
For >25 To 50, Add	50.32	
For >50 To 100, Add	25.16	
For >500 To 1,000, Deduct	-6.73	
For >1,000 To 2,000, Deduct	-10.34	
For >2,000 To 5,000, Deduct	-17.51	
For >5,000, Deduct	-28.86	
33 01 30 72-0048 LF 10.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	148.97	
For Vinlyester Resin, Add	88.86	
For Epoxy Resin, Add	10.47	
For Up To >10, Add	129.56	
For >10 To 25, Add	86.81	
For >25 To 50, Add	58.43	
For >50 To 100, Add	29.22	
For >500 To 1,000, Deduct	-8.00	
For >1,000 To 2,000, Deduct	-12.27	
For >2,000 To 5,000, Deduct	-20.74	
For >5,000, Deduct	-34.20	
33 01 30 72-0049 LF 10.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	172.46	
For Vinlyester Resin, Add	104.02	
For Epoxy Resin, Add	12.26	
For Up To >10, Add	145.88	
For >10 To 25, Add	96.80	
For >25 To 50, Add	65.51	
For >50 To 100, Add	32.76	
For >500 To 1,000, Deduct	-9.22	
For >1,000 To 2,000, Deduct	-14.13	
For >2,000 To 5,000, Deduct	-23.80	
For >5,000, Deduct	-39.26	
33 01 30 72-0050 LF 10.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	196.30	
For Vinlyester Resin, Add	119.18	
For Epoxy Resin, Add	14.05	
For Up To >10, Add	163.28	
For >10 To 25, Add	107.69	
For >25 To 50, Add	73.13	
For >50 To 100, Add	36.56	
For >500 To 1,000, Deduct	-10.47	
For >1,000 To 2,000, Deduct	-16.03	
For >2,000 To 5,000, Deduct	-26.94	
For >5,000, Deduct	-44.47	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0051 LF 10.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	220.58	
For Vinlyester Resin, Add	134.33	
For Epoxy Resin, Add	15.83	
For Up To >10, Add	181.99	
For >10 To 25, Add	119.68	
For >25 To 50, Add	81.40	
For >50 To 100, Add	40.70	
For >500 To 1,000, Deduct	-11.75	
For >1,000 To 2,000, Deduct	-17.98	
For >2,000 To 5,000, Deduct	-30.20	
For >5,000, Deduct	-49.85	
33 01 30 72-0052 LF 10.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	245.45	
For Vinlyester Resin, Add	149.49	
For Epoxy Resin, Add	17.62	
For Up To >10, Add	202.45	
For >10 To 25, Add	133.12	
For >25 To 50, Add	90.55	
For >50 To 100, Add	45.27	
For >500 To 1,000, Deduct	-13.07	
For >1,000 To 2,000, Deduct	-20.00	
For >2,000 To 5,000, Deduct	-33.60	
For >5,000, Deduct	-55.47	
33 01 30 72-0053 LF 10.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	292.78	
For Vinlyester Resin, Add	179.81	
For Epoxy Resin, Add	21.19	
For Up To >10, Add	236.17	
For >10 To 25, Add	153.99	
For >25 To 50, Add	105.24	
For >50 To 100, Add	52.62	
For >500 To 1,000, Deduct	-15.54	
For >1,000 To 2,000, Deduct	-23.75	
For >2,000 To 5,000, Deduct	-39.80	
For >5,000, Deduct	-65.74	
33 01 30 72-0054 12mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0055 LF 12mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	139.35	
For Vinlyester Resin, Add	83.89	
For Epoxy Resin, Add	9.89	
For Up To >10, Add	118.45	
For >10 To 25, Add	78.74	
For >25 To 50, Add	53.23	
For >50 To 100, Add	26.62	
For >500 To 1,000, Deduct	-7.46	
For >1,000 To 2,000, Deduct	-11.43	
For >2,000 To 5,000, Deduct	-19.26	
For >5,000, Deduct	-31.77	
33 01 30 72-0056 LF 12mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	166.62	
For Vinlyester Resin, Add	101.21	
For Epoxy Resin, Add	11.93	
For Up To >10, Add	138.39	
For >10 To 25, Add	91.22	
For >25 To 50, Add	61.96	
For >50 To 100, Add	30.98	
For >500 To 1,000, Deduct	-8.88	
For >1,000 To 2,000, Deduct	-13.60	
For >2,000 To 5,000, Deduct	-22.86	
For >5,000, Deduct	-37.73	
33 01 30 72-0057 LF 12mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	193.20	
For Vinlyester Resin, Add	118.54	
For Epoxy Resin, Add	13.97	
For Up To >10, Add	156.25	
For >10 To 25, Add	101.99	
For >25 To 50, Add	69.66	
For >50 To 100, Add	34.83	
For >500 To 1,000, Deduct	-10.26	
For >1,000 To 2,000, Deduct	-15.68	
For >2,000 To 5,000, Deduct	-26.29	
For >5,000, Deduct	-43.41	
33 01 30 72-0058 LF 12mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	220.14	
For Vinlyester Resin, Add	135.86	
For Epoxy Resin, Add	16.01	
For Up To >10, Add	175.20	
For >10 To 25, Add	113.65	
For >25 To 50, Add	77.89	
For >50 To 100, Add	38.95	
For >500 To 1,000, Deduct	-11.66	
For >1,000 To 2,000, Deduct	-17.81	
For >2,000 To 5,000, Deduct	-29.80	
For >5,000, Deduct	-49.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0059 LF 12mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	247.51	
For Vinylster Resin, Add	153.18	
For Epoxy Resin, Add	18.05	
For Up To >10, Add	195.46	
For >10 To 25, Add	126.41	
For >25 To 50, Add	86.79	
For >50 To 100, Add	43.39	
For >500 To 1,000, Deduct	-13.09	
For >1,000 To 2,000, Deduct	-20.00	
For >2,000 To 5,000, Deduct	-33.43	
For >5,000, Deduct	-55.24	
33 01 30 72-0060 LF 12mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	275.47	
For Vinylster Resin, Add	170.51	
For Epoxy Resin, Add	20.10	
For Up To >10, Add	217.46	
For >10 To 25, Add	140.62	
For >25 To 50, Add	96.55	
For >50 To 100, Add	48.28	
For >500 To 1,000, Deduct	-14.57	
For >1,000 To 2,000, Deduct	-22.25	
For >2,000 To 5,000, Deduct	-37.20	
For >5,000, Deduct	-61.47	
33 01 30 72-0061 LF 12mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	328.99	
For Vinylster Resin, Add	205.16	
For Epoxy Resin, Add	24.18	
For Up To >10, Add	254.27	
For >10 To 25, Add	163.05	
For >25 To 50, Add	112.48	
For >50 To 100, Add	56.24	
For >500 To 1,000, Deduct	-17.35	
For >1,000 To 2,000, Deduct	-26.47	
For >2,000 To 5,000, Deduct	-44.15	
For >5,000, Deduct	-72.98	
33 01 30 72-0062 LF 12mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	383.53	
For Vinylster Resin, Add	239.80	
For Epoxy Resin, Add	28.26	
For Up To >10, Add	294.17	
For >10 To 25, Add	188.04	
For >25 To 50, Add	129.95	
For >50 To 100, Add	64.98	
For >500 To 1,000, Deduct	-20.20	
For >1,000 To 2,000, Deduct	-30.81	
For >2,000 To 5,000, Deduct	-51.35	
For >5,000, Deduct	-84.90	
33 01 30 72-0063 LF 12mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	439.91	
For Vinylster Resin, Add	274.45	
For Epoxy Resin, Add	32.35	
For Up To >10, Add	339.56	
For >10 To 25, Add	217.62	
For >25 To 50, Add	150.17	
For >50 To 100, Add	75.09	
For >500 To 1,000, Deduct	-23.19	
For >1,000 To 2,000, Deduct	-35.39	
For >2,000 To 5,000, Deduct	-59.01	
For >5,000, Deduct	-97.55	
33 01 30 72-0064 13.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0065 LF 13.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	153.78	
For Vinylster Resin, Add	93.99	
For Epoxy Resin, Add	11.08	
For Up To >10, Add	125.67	
For >10 To 25, Add	82.34	
For >25 To 50, Add	56.12	
For >50 To 100, Add	28.06	
For >500 To 1,000, Deduct	-8.18	
For >1,000 To 2,000, Deduct	-12.51	
For >2,000 To 5,000, Deduct	-20.99	
For >5,000, Deduct	-34.66	
33 01 30 72-0066 LF 13.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	184.15	
For Vinylster Resin, Add	113.48	
For Epoxy Resin, Add	13.37	
For Up To >10, Add	147.15	
For >10 To 25, Add	95.61	
For >25 To 50, Add	65.47	
For >50 To 100, Add	32.73	
For >500 To 1,000, Deduct	-9.76	
For >1,000 To 2,000, Deduct	-14.91	
For >2,000 To 5,000, Deduct	-24.96	
For >5,000, Deduct	-41.24	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0067 LF 13.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	213.82	
For Vinlyester Resin, Add	132.97	
For Epoxy Resin, Add	15.67	
For Up To >10, Add	166.56	
For >10 To 25, Add	107.14	
For >25 To 50, Add	73.78	
For >50 To 100, Add	36.89	
For >500 To 1,000, Deduct	-11.29	
For >1,000 To 2,000, Deduct	-17.23	
For >2,000 To 5,000, Deduct	-28.76	
For >5,000, Deduct	-47.54	
33 01 30 72-0068 LF 13.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	243.85	
For Vinlyester Resin, Add	152.46	
For Epoxy Resin, Add	17.97	
For Up To >10, Add	187.05	
For >10 To 25, Add	119.58	
For >25 To 50, Add	82.64	
For >50 To 100, Add	41.32	
For >500 To 1,000, Deduct	-12.84	
For >1,000 To 2,000, Deduct	-19.59	
For >2,000 To 5,000, Deduct	-32.65	
For >5,000, Deduct	-53.98	
33 01 30 72-0069 LF 13.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	274.32	
For Vinlyester Resin, Add	171.95	
For Epoxy Resin, Add	20.27	
For Up To >10, Add	208.86	
For >10 To 25, Add	133.11	
For >25 To 50, Add	92.15	
For >50 To 100, Add	46.07	
For >500 To 1,000, Deduct	-14.43	
For >1,000 To 2,000, Deduct	-22.01	
For >2,000 To 5,000, Deduct	-36.65	
For >5,000, Deduct	-60.60	
33 01 30 72-0070 LF 13.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	305.37	
For Vinlyester Resin, Add	191.44	
For Epoxy Resin, Add	22.56	
For Up To >10, Add	232.41	
For >10 To 25, Add	148.10	
For >25 To 50, Add	102.53	
For >50 To 100, Add	51.27	
For >500 To 1,000, Deduct	-16.07	
For >1,000 To 2,000, Deduct	-24.50	
For >2,000 To 5,000, Deduct	-40.79	
For >5,000, Deduct	-67.45	
33 01 30 72-0071 LF 13.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	365.08	
For Vinlyester Resin, Add	230.42	
For Epoxy Resin, Add	27.16	
For Up To >10, Add	272.32	
For >10 To 25, Add	172.07	
For >25 To 50, Add	119.70	
For >50 To 100, Add	59.85	
For >500 To 1,000, Deduct	-19.15	
For >1,000 To 2,000, Deduct	-29.18	
For >2,000 To 5,000, Deduct	-48.48	
For >5,000, Deduct	-80.20	
33 01 30 72-0072 LF 13.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	425.81	
For Vinlyester Resin, Add	269.40	
For Epoxy Resin, Add	31.75	
For Up To >10, Add	315.31	
For >10 To 25, Add	198.61	
For >25 To 50, Add	138.41	
For >50 To 100, Add	69.21	
For >500 To 1,000, Deduct	-22.31	
For >1,000 To 2,000, Deduct	-33.98	
For >2,000 To 5,000, Deduct	-56.42	
For >5,000, Deduct	-93.35	
33 01 30 72-0073 LF 13.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	488.37	
For Vinlyester Resin, Add	308.37	
For Epoxy Resin, Add	36.34	
For Up To >10, Add	363.79	
For >10 To 25, Add	229.73	
For >25 To 50, Add	159.87	
For >50 To 100, Add	79.93	
For >500 To 1,000, Deduct	-25.61	
For >1,000 To 2,000, Deduct	-39.02	
For >2,000 To 5,000, Deduct	-64.82	
For >5,000, Deduct	-107.24	

33 01 30 72-0074 15mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0075 LF 15mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	168.09	
For Vinylster Resin, Add	104.01	
For Epoxy Resin, Add	12.26	
For Up To >10, Add	132.82	
For >10 To 25, Add	85.92	
For >25 To 50, Add	58.98	
For >50 To 100, Add	29.49	
For >500 To 1,000, Deduct	-8.89	
For >1,000 To 2,000, Deduct	-13.58	
For >2,000 To 5,000, Deduct	-22.71	
For >5,000, Deduct	-37.52	
33 01 30 72-0076 LF 15mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	201.55	
For Vinylster Resin, Add	125.66	
For Epoxy Resin, Add	14.81	
For Up To >10, Add	155.85	
For >10 To 25, Add	99.96	
For >25 To 50, Add	68.95	
For >50 To 100, Add	34.47	
For >500 To 1,000, Deduct	-10.63	
For >1,000 To 2,000, Deduct	-16.22	
For >2,000 To 5,000, Deduct	-27.05	
For >5,000, Deduct	-44.72	
33 01 30 72-0077 LF 15mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	234.31	
For Vinylster Resin, Add	147.32	
For Epoxy Resin, Add	17.36	
For Up To >10, Add	176.81	
For >10 To 25, Add	112.26	
For >25 To 50, Add	77.88	
For >50 To 100, Add	38.94	
For >500 To 1,000, Deduct	-12.31	
For >1,000 To 2,000, Deduct	-18.77	
For >2,000 To 5,000, Deduct	-31.22	
For >5,000, Deduct	-51.63	
33 01 30 72-0078 LF 15mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	267.44	
For Vinylster Resin, Add	168.97	
For Epoxy Resin, Add	19.91	
For Up To >10, Add	198.85	
For >10 To 25, Add	125.47	
For >25 To 50, Add	87.35	
For >50 To 100, Add	43.68	
For >500 To 1,000, Deduct	-14.02	
For >1,000 To 2,000, Deduct	-21.36	
For >2,000 To 5,000, Deduct	-35.48	
For >5,000, Deduct	-58.70	
33 01 30 72-0079 LF 15mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	301.00	
For Vinylster Resin, Add	190.62	
For Epoxy Resin, Add	22.47	
For Up To >10, Add	222.20	
For >10 To 25, Add	139.78	
For >25 To 50, Add	97.48	
For >50 To 100, Add	48.74	
For >500 To 1,000, Deduct	-15.77	
For >1,000 To 2,000, Deduct	-24.01	
For >2,000 To 5,000, Deduct	-39.85	
For >5,000, Deduct	-65.94	
33 01 30 72-0080 LF 15mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	335.15	
For Vinylster Resin, Add	212.28	
For Epoxy Resin, Add	25.02	
For Up To >10, Add	247.30	
For >10 To 25, Add	155.54	
For >25 To 50, Add	108.49	
For >50 To 100, Add	54.24	
For >500 To 1,000, Deduct	-17.55	
For >1,000 To 2,000, Deduct	-26.73	
For >2,000 To 5,000, Deduct	-44.36	
For >5,000, Deduct	-73.41	
33 01 30 72-0081 LF 15mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	401.04	
For Vinylster Resin, Add	255.59	
For Epoxy Resin, Add	30.12	
For Up To >10, Add	290.30	
For >10 To 25, Add	181.06	
For >25 To 50, Add	126.89	
For >50 To 100, Add	63.45	
For >500 To 1,000, Deduct	-20.95	
For >1,000 To 2,000, Deduct	-31.87	
For >2,000 To 5,000, Deduct	-52.79	
For >5,000, Deduct	-87.39	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0082 LF 15mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	467.96	
For Vinlyester Resin, Add	298.90	
For Epoxy Resin, Add	35.23	
For Up To >10, Add	336.38	
For >10 To 25, Add	209.15	
For >25 To 50, Add	146.84	
For >50 To 100, Add	73.42	
For >500 To 1,000, Deduct	-24.42	
For >1,000 To 2,000, Deduct	-37.15	
For >2,000 To 5,000, Deduct	-61.48	
For >5,000, Deduct	-101.78	
33 01 30 72-0083 LF 15mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	536.71	
For Vinlyester Resin, Add	342.21	
For Epoxy Resin, Add	40.33	
For Up To >10, Add	387.96	
For >10 To 25, Add	241.82	
For >25 To 50, Add	169.53	
For >50 To 100, Add	84.77	
For >500 To 1,000, Deduct	-28.03	
For >1,000 To 2,000, Deduct	-42.65	
For >2,000 To 5,000, Deduct	-70.62	
For >5,000, Deduct	-116.91	
33 01 30 72-0084 16.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0085 LF 16.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	218.83	
For Vinlyester Resin, Add	137.76	
For Epoxy Resin, Add	16.24	
For Up To >10, Add	164.49	
For >10 To 25, Add	104.28	
For >25 To 50, Add	72.41	
For >50 To 100, Add	36.20	
For >500 To 1,000, Deduct	-11.49	
For >1,000 To 2,000, Deduct	-17.51	
For >2,000 To 5,000, Deduct	-29.12	
For >5,000, Deduct	-48.17	
33 01 30 72-0086 LF 16.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	254.69	
For Vinlyester Resin, Add	161.58	
For Epoxy Resin, Add	19.04	
For Up To >10, Add	187.00	
For >10 To 25, Add	117.36	
For >25 To 50, Add	81.96	
For >50 To 100, Add	40.98	
For >500 To 1,000, Deduct	-13.33	
For >1,000 To 2,000, Deduct	-20.29	
For >2,000 To 5,000, Deduct	-33.66	
For >5,000, Deduct	-55.71	
33 01 30 72-0087 LF 16.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	290.91	
For Vinlyester Resin, Add	185.40	
For Epoxy Resin, Add	21.85	
For Up To >10, Add	210.58	
For >10 To 25, Add	131.34	
For >25 To 50, Add	92.05	
For >50 To 100, Add	46.02	
For >500 To 1,000, Deduct	-15.20	
For >1,000 To 2,000, Deduct	-23.12	
For >2,000 To 5,000, Deduct	-38.30	
For >5,000, Deduct	-63.39	
33 01 30 72-0088 LF 16.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	327.57	
For Vinlyester Resin, Add	209.22	
For Epoxy Resin, Add	24.66	
For Up To >10, Add	235.49	
For >10 To 25, Add	146.42	
For >25 To 50, Add	102.80	
For >50 To 100, Add	51.40	
For >500 To 1,000, Deduct	-17.10	
For >1,000 To 2,000, Deduct	-26.00	
For >2,000 To 5,000, Deduct	-43.04	
For >5,000, Deduct	-71.25	
33 01 30 72-0089 LF 16.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	364.81	
For Vinlyester Resin, Add	233.04	
For Epoxy Resin, Add	27.47	
For Up To >10, Add	262.13	
For >10 To 25, Add	162.96	
For >25 To 50, Add	114.42	
For >50 To 100, Add	57.21	
For >500 To 1,000, Deduct	-19.04	
For >1,000 To 2,000, Deduct	-28.96	
For >2,000 To 5,000, Deduct	-47.92	
For >5,000, Deduct	-79.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0090 LF 16.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	436.88	
<i>For Vinlyester Resin, Add</i>	280.68	
<i>For Epoxy Resin, Add</i>	33.08	
<i>For Up To >10, Add</i>	308.22	
<i>For >10 To 25, Add</i>	190.02	
<i>For >25 To 50, Add</i>	134.06	
<i>For >50 To 100, Add</i>	67.03	
<i>For >500 To 1,000, Deduct</i>	-22.74	
<i>For >1,000 To 2,000, Deduct</i>	-34.56	
<i>For >2,000 To 5,000, Deduct</i>	-57.09	
<i>For >5,000, Deduct</i>	-94.56	
33 01 30 72-0091 LF 16.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	509.99	
<i>For Vinlyester Resin, Add</i>	328.32	
<i>For Epoxy Resin, Add</i>	38.69	
<i>For Up To >10, Add</i>	357.40	
<i>For >10 To 25, Add</i>	219.66	
<i>For >25 To 50, Add</i>	155.25	
<i>For >50 To 100, Add</i>	77.62	
<i>For >500 To 1,000, Deduct</i>	-26.52	
<i>For >1,000 To 2,000, Deduct</i>	-40.30	
<i>For >2,000 To 5,000, Deduct</i>	-66.52	
<i>For >5,000, Deduct</i>	-110.19	
33 01 30 72-0092 LF 16.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	584.93	
<i>For Vinlyester Resin, Add</i>	375.96	
<i>For Epoxy Resin, Add</i>	44.31	
<i>For Up To >10, Add</i>	412.07	
<i>For >10 To 25, Add</i>	253.87	
<i>For >25 To 50, Add</i>	179.18	
<i>For >50 To 100, Add</i>	89.59	
<i>For >500 To 1,000, Deduct</i>	-30.44	
<i>For >1,000 To 2,000, Deduct</i>	-46.26	
<i>For >2,000 To 5,000, Deduct</i>	-76.41	
<i>For >5,000, Deduct</i>	-126.55	
33 01 30 72-0093 LF 16.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	662.51	
<i>For Vinlyester Resin, Add</i>	423.60	
<i>For Epoxy Resin, Add</i>	49.92	
<i>For Up To >10, Add</i>	474.68	
<i>For >10 To 25, Add</i>	294.71	
<i>For >25 To 50, Add</i>	207.08	
<i>For >50 To 100, Add</i>	103.54	
<i>For >500 To 1,000, Deduct</i>	-34.56	
<i>For >1,000 To 2,000, Deduct</i>	-52.56	
<i>For >2,000 To 5,000, Deduct</i>	-86.96	
<i>For >5,000, Deduct</i>	-143.98	
33 01 30 72-0094 18mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0095 LF 18mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	237.13	
<i>For Vinlyester Resin, Add</i>	149.77	
<i>For Epoxy Resin, Add</i>	17.65	
<i>For Up To >10, Add</i>	176.49	
<i>For >10 To 25, Add</i>	111.42	
<i>For >25 To 50, Add</i>	77.55	
<i>For >50 To 100, Add</i>	38.77	
<i>For >500 To 1,000, Deduct</i>	-12.44	
<i>For >1,000 To 2,000, Deduct</i>	-18.94	
<i>For >2,000 To 5,000, Deduct</i>	-31.47	
<i>For >5,000, Deduct</i>	-52.06	
33 01 30 72-0096 LF 18mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	276.20	
<i>For Vinlyester Resin, Add</i>	175.76	
<i>For Epoxy Resin, Add</i>	20.71	
<i>For Up To >10, Add</i>	200.90	
<i>For >10 To 25, Add</i>	125.57	
<i>For >25 To 50, Add</i>	87.90	
<i>For >50 To 100, Add</i>	43.95	
<i>For >500 To 1,000, Deduct</i>	-14.44	
<i>For >1,000 To 2,000, Deduct</i>	-21.97	
<i>For >2,000 To 5,000, Deduct</i>	-36.41	
<i>For >5,000, Deduct</i>	-60.26	
33 01 30 72-0097 LF 18mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	315.63	
<i>For Vinlyester Resin, Add</i>	201.75	
<i>For Epoxy Resin, Add</i>	23.78	
<i>For Up To >10, Add</i>	226.37	
<i>For >10 To 25, Add</i>	140.60	
<i>For >25 To 50, Add</i>	98.77	
<i>For >50 To 100, Add</i>	49.39	
<i>For >500 To 1,000, Deduct</i>	-16.47	
<i>For >1,000 To 2,000, Deduct</i>	-25.04	
<i>For >2,000 To 5,000, Deduct</i>	-41.44	
<i>For >5,000, Deduct</i>	-68.61	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0098 LF 18mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	355.51	
For Vinlyester Resin, Add	227.73	
For Epoxy Resin, Add	26.84	
For Up To >10, Add	253.21	
For >10 To 25, Add	156.78	
For >25 To 50, Add	110.34	
For >50 To 100, Add	55.17	
For >500 To 1,000, Deduct	-18.53	
For >1,000 To 2,000, Deduct	-28.17	
For >2,000 To 5,000, Deduct	-46.58	
For >5,000, Deduct	-77.14	
33 01 30 72-0099 LF 18mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	395.96	
For Vinlyester Resin, Add	253.72	
For Epoxy Resin, Add	29.90	
For Up To >10, Add	281.76	
For >10 To 25, Add	174.39	
For >25 To 50, Add	122.76	
For >50 To 100, Add	61.38	
For >500 To 1,000, Deduct	-20.64	
For >1,000 To 2,000, Deduct	-31.37	
For >2,000 To 5,000, Deduct	-51.87	
For >5,000, Deduct	-85.89	
33 01 30 72-0100 LF 18mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	474.33	
For Vinlyester Resin, Add	305.68	
For Epoxy Resin, Add	36.03	
For Up To >10, Add	331.27	
For >10 To 25, Add	203.27	
For >25 To 50, Add	143.80	
For >50 To 100, Add	71.90	
For >500 To 1,000, Deduct	-24.66	
For >1,000 To 2,000, Deduct	-37.46	
For >2,000 To 5,000, Deduct	-61.81	
For >5,000, Deduct	-102.39	
33 01 30 72-0101 LF 18mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	553.97	
For Vinlyester Resin, Add	357.66	
For Epoxy Resin, Add	42.15	
For Up To >10, Add	384.56	
For >10 To 25, Add	235.31	
For >25 To 50, Add	166.73	
For >50 To 100, Add	83.37	
For >500 To 1,000, Deduct	-28.77	
For >1,000 To 2,000, Deduct	-43.70	
For >2,000 To 5,000, Deduct	-72.07	
For >5,000, Deduct	-119.40	
33 01 30 72-0102 LF 18mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	635.44	
For Vinlyester Resin, Add	409.63	
For Epoxy Resin, Add	48.28	
For Up To >10, Add	443.37	
For >10 To 25, Add	271.95	
For >25 To 50, Add	192.43	
For >50 To 100, Add	96.21	
For >500 To 1,000, Deduct	-33.03	
For >1,000 To 2,000, Deduct	-50.17	
For >2,000 To 5,000, Deduct	-82.79	
For >5,000, Deduct	-137.14	
33 01 30 72-0103 LF 18mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	719.67	
For Vinlyester Resin, Add	461.60	
For Epoxy Resin, Add	54.40	
For Up To >10, Add	510.44	
For >10 To 25, Add	315.46	
For >25 To 50, Add	222.25	
For >50 To 100, Add	111.12	
For >500 To 1,000, Deduct	-37.49	
For >1,000 To 2,000, Deduct	-56.99	
For >2,000 To 5,000, Deduct	-94.19	
For >5,000, Deduct	-155.98	
33 01 30 72-0104 LF 18mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	811.92	
For Vinlyester Resin, Add	513.57	
For Epoxy Resin, Add	60.53	
For Up To >10, Add	601.59	
For >10 To 25, Add	379.04	
For >25 To 50, Add	264.11	
For >50 To 100, Add	132.05	
For >500 To 1,000, Deduct	-42.55	
For >1,000 To 2,000, Deduct	-64.81	
For >2,000 To 5,000, Deduct	-107.60	
For >5,000, Deduct	-178.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0105 LF 18mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	914.62	
For Vinylster Resin, Add	565.54	
For Epoxy Resin, Add	66.65	
For Up To >10, Add	724.06	
For >10 To 25, Add	468.73	
For >25 To 50, Add	321.63	
For >50 To 100, Add	160.82	
For >500 To 1,000, Deduct	-48.40	
For >1,000 To 2,000, Deduct	-73.93	
For >2,000 To 5,000, Deduct	-123.63	
For >5,000, Deduct	-204.26	
33 01 30 72-0106 LF 18mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,025.59	
For Vinylster Resin, Add	617.51	
For Epoxy Resin, Add	72.78	
For Up To >10, Add	871.37	
For >10 To 25, Add	579.12	
For >25 To 50, Add	391.58	
For >50 To 100, Add	195.79	
For >500 To 1,000, Deduct	-54.87	
For >1,000 To 2,000, Deduct	-84.09	
For >2,000 To 5,000, Deduct	-141.72	
For >5,000, Deduct	-233.80	
33 01 30 72-0107 19.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0108 LF 19.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	254.17	
For Vinylster Resin, Add	161.70	
For Epoxy Resin, Add	19.06	
For Up To >10, Add	185.01	
For >10 To 25, Add	115.68	
For >25 To 50, Add	80.96	
For >50 To 100, Add	40.48	
For >500 To 1,000, Deduct	-13.29	
For >1,000 To 2,000, Deduct	-20.22	
For >2,000 To 5,000, Deduct	-33.51	
For >5,000, Deduct	-55.47	
33 01 30 72-0109 LF 19.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	296.34	
For Vinylster Resin, Add	189.85	
For Epoxy Resin, Add	22.38	
For Up To >10, Add	210.97	
For >10 To 25, Add	130.61	
For >25 To 50, Add	91.92	
For >50 To 100, Add	45.96	
For >500 To 1,000, Deduct	-15.45	
For >1,000 To 2,000, Deduct	-23.48	
For >2,000 To 5,000, Deduct	-38.83	
For >5,000, Deduct	-64.29	
33 01 30 72-0110 LF 19.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	338.85	
For Vinylster Resin, Add	218.00	
For Epoxy Resin, Add	25.69	
For Up To >10, Add	237.98	
For >10 To 25, Add	146.41	
For >25 To 50, Add	103.42	
For >50 To 100, Add	51.71	
For >500 To 1,000, Deduct	-17.63	
For >1,000 To 2,000, Deduct	-26.78	
For >2,000 To 5,000, Deduct	-44.23	
For >5,000, Deduct	-73.25	
33 01 30 72-0111 LF 19.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	381.83	
For Vinylster Resin, Add	246.16	
For Epoxy Resin, Add	29.01	
For Up To >10, Add	266.37	
For >10 To 25, Add	163.36	
For >25 To 50, Add	115.60	
For >50 To 100, Add	57.80	
For >500 To 1,000, Deduct	-19.85	
For >1,000 To 2,000, Deduct	-30.15	
For >2,000 To 5,000, Deduct	-49.74	
For >5,000, Deduct	-82.40	
33 01 30 72-0112 LF 19.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	425.37	
For Vinylster Resin, Add	274.30	
For Epoxy Resin, Add	32.33	
For Up To >10, Add	296.46	
For >10 To 25, Add	181.74	
For >25 To 50, Add	128.64	
For >50 To 100, Add	64.32	
For >500 To 1,000, Deduct	-22.11	
For >1,000 To 2,000, Deduct	-33.58	
For >2,000 To 5,000, Deduct	-55.40	
For >5,000, Deduct	-91.78	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0113 LF 19.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	509.93	
For Vinlyester Resin, Add	330.60	
For Epoxy Resin, Add	38.96	
For Up To >10, Add	349.07	
For >10 To 25, Add	212.17	
For >25 To 50, Add	150.92	
For >50 To 100, Add	75.46	
For >500 To 1,000, Deduct	-26.44	
For >1,000 To 2,000, Deduct	-40.13	
For >2,000 To 5,000, Deduct	-66.08	
For >5,000, Deduct	-109.51	
33 01 30 72-0114 LF 19.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	595.75	
For Vinlyester Resin, Add	386.90	
For Epoxy Resin, Add	45.60	
For Up To >10, Add	405.45	
For >10 To 25, Add	245.76	
For >25 To 50, Add	175.09	
For >50 To 100, Add	87.54	
For >500 To 1,000, Deduct	-30.86	
For >1,000 To 2,000, Deduct	-46.83	
For >2,000 To 5,000, Deduct	-77.08	
For >5,000, Deduct	-127.76	
33 01 30 72-0115 LF 19.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	683.42	
For Vinlyester Resin, Add	443.21	
For Epoxy Resin, Add	52.24	
For Up To >10, Add	467.36	
For >10 To 25, Add	283.94	
For >25 To 50, Add	202.02	
For >50 To 100, Add	101.01	
For >500 To 1,000, Deduct	-35.43	
For >1,000 To 2,000, Deduct	-53.77	
For >2,000 To 5,000, Deduct	-88.54	
For >5,000, Deduct	-146.74	
33 01 30 72-0116 LF 19.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	773.83	
For Vinlyester Resin, Add	499.51	
For Epoxy Resin, Add	58.87	
For Up To >10, Add	537.52	
For >10 To 25, Add	329.00	
For >25 To 50, Add	233.08	
For >50 To 100, Add	116.54	
For >500 To 1,000, Deduct	-40.20	
For >1,000 To 2,000, Deduct	-61.05	
For >2,000 To 5,000, Deduct	-100.69	
For >5,000, Deduct	-166.81	
33 01 30 72-0117 LF 19.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	872.27	
For Vinlyester Resin, Add	555.81	
For Epoxy Resin, Add	65.51	
For Up To >10, Add	631.76	
For >10 To 25, Add	394.13	
For >25 To 50, Add	276.18	
For >50 To 100, Add	138.09	
For >500 To 1,000, Deduct	-45.57	
For >1,000 To 2,000, Deduct	-69.33	
For >2,000 To 5,000, Deduct	-114.84	
For >5,000, Deduct	-190.10	
33 01 30 72-0118 LF 19.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	981.15	
For Vinlyester Resin, Add	612.12	
For Epoxy Resin, Add	72.14	
For Up To >10, Add	757.33	
For >10 To 25, Add	485.36	
For >25 To 50, Add	334.94	
For >50 To 100, Add	167.47	
For >500 To 1,000, Deduct	-51.73	
For >1,000 To 2,000, Deduct	-78.92	
For >2,000 To 5,000, Deduct	-131.61	
For >5,000, Deduct	-217.57	
33 01 30 72-0119 LF 19.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,098.30	
For Vinlyester Resin, Add	668.41	
For Epoxy Resin, Add	78.78	
For Up To >10, Add	907.73	
For >10 To 25, Add	597.29	
For >25 To 50, Add	406.12	
For >50 To 100, Add	203.06	
For >500 To 1,000, Deduct	-58.50	
For >1,000 To 2,000, Deduct	-89.54	
For >2,000 To 5,000, Deduct	-150.44	
For >5,000, Deduct	-248.35	

33 01 30 72-0120 21mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0121 LF 21mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	272.25	
For Vinylster Resin, Add	173.54	
For Epoxy Resin, Add	20.45	
For Up To >10, Add	196.95	
For >10 To 25, Add	122.81	
For >25 To 50, Add	86.08	
For >50 To 100, Add	43.04	
For >500 To 1,000, Deduct	-14.22	
For >1,000 To 2,000, Deduct	-21.64	
For >2,000 To 5,000, Deduct	-35.83	
For >5,000, Deduct	-59.32	
33 01 30 72-0122 LF 21mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	317.62	
For Vinylster Resin, Add	203.86	
For Epoxy Resin, Add	24.03	
For Up To >10, Add	224.79	
For >10 To 25, Add	138.78	
For >25 To 50, Add	97.83	
For >50 To 100, Add	48.92	
For >500 To 1,000, Deduct	-16.54	
For >1,000 To 2,000, Deduct	-25.14	
For >2,000 To 5,000, Deduct	-41.55	
For >5,000, Deduct	-68.80	
33 01 30 72-0123 LF 21mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	363.34	
For Vinylster Resin, Add	234.18	
For Epoxy Resin, Add	27.60	
For Up To >10, Add	253.67	
For >10 To 25, Add	155.64	
For >25 To 50, Add	110.11	
For >50 To 100, Add	55.05	
For >500 To 1,000, Deduct	-18.89	
For >1,000 To 2,000, Deduct	-28.69	
For >2,000 To 5,000, Deduct	-47.34	
For >5,000, Deduct	-78.43	
33 01 30 72-0124 LF 21mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	409.51	
For Vinylster Resin, Add	264.49	
For Epoxy Resin, Add	31.17	
For Up To >10, Add	283.93	
For >10 To 25, Add	173.64	
For >25 To 50, Add	123.07	
For >50 To 100, Add	61.54	
For >500 To 1,000, Deduct	-21.27	
For >1,000 To 2,000, Deduct	-32.30	
For >2,000 To 5,000, Deduct	-53.26	
For >5,000, Deduct	-88.24	
33 01 30 72-0125 LF 21mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	456.28	
For Vinylster Resin, Add	294.81	
For Epoxy Resin, Add	34.75	
For Up To >10, Add	315.94	
For >10 To 25, Add	193.09	
For >25 To 50, Add	136.91	
For >50 To 100, Add	68.46	
For >500 To 1,000, Deduct	-23.69	
For >1,000 To 2,000, Deduct	-35.98	
For >2,000 To 5,000, Deduct	-59.32	
For >5,000, Deduct	-98.28	
33 01 30 72-0126 LF 21mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	547.36	
For Vinylster Resin, Add	355.44	
For Epoxy Resin, Add	41.89	
For Up To >10, Add	372.66	
For >10 To 25, Add	225.92	
For >25 To 50, Add	160.94	
For >50 To 100, Add	80.47	
For >500 To 1,000, Deduct	-28.36	
For >1,000 To 2,000, Deduct	-43.03	
For >2,000 To 5,000, Deduct	-70.83	
For >5,000, Deduct	-117.39	
33 01 30 72-0127 LF 21mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	639.59	
For Vinylster Resin, Add	416.07	
For Epoxy Resin, Add	49.04	
For Up To >10, Add	432.80	
For >10 To 25, Add	261.60	
For >25 To 50, Add	186.68	
For >50 To 100, Add	93.34	
For >500 To 1,000, Deduct	-33.11	
For >1,000 To 2,000, Deduct	-50.23	
For >2,000 To 5,000, Deduct	-82.63	
For >5,000, Deduct	-136.96	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

33 01 30 72-0128	LF 21mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	733.67
	For Vinlyester Resin, Add	476.71
	For Epoxy Resin, Add	56.18
	For Up To >10, Add	498.49
	For >10 To 25, Add	301.90
	For >25 To 50, Add	215.19
	For >50 To 100, Add	107.60
	For >500 To 1,000, Deduct	-38.00
	For >1,000 To 2,000, Deduct	-57.66
	For >2,000 To 5,000, Deduct	-94.89
	For >5,000, Deduct	-157.27
33 01 30 72-0129	LF 21mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	830.84
	For Vinlyester Resin, Add	537.33
	For Epoxy Resin, Add	63.33
	For Up To >10, Add	573.47
	For >10 To 25, Add	349.96
	For >25 To 50, Add	248.35
	For >50 To 100, Add	124.18
	For >500 To 1,000, Deduct	-43.12
	For >1,000 To 2,000, Deduct	-65.47
	For >2,000 To 5,000, Deduct	-107.92
	For >5,000, Deduct	-178.81
33 01 30 72-0130	LF 21mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	936.39
	For Vinlyester Resin, Add	597.97
	For Epoxy Resin, Add	70.47
	For Up To >10, Add	673.57
	For >10 To 25, Add	418.94
	For >25 To 50, Add	294.07
	For >50 To 100, Add	147.04
	For >500 To 1,000, Deduct	-48.87
	For >1,000 To 2,000, Deduct	-74.34
	For >2,000 To 5,000, Deduct	-123.05
	For >5,000, Deduct	-203.71
33 01 30 72-0131	LF 21mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,052.85
	For Vinlyester Resin, Add	658.60
	For Epoxy Resin, Add	77.62
	For Up To >10, Add	806.40
	For >10 To 25, Add	515.19
	For >25 To 50, Add	356.16
	For >50 To 100, Add	178.08
	For >500 To 1,000, Deduct	-55.44
	For >1,000 To 2,000, Deduct	-84.56
	For >2,000 To 5,000, Deduct	-140.90
	For >5,000, Deduct	-232.97
33 01 30 72-0132	LF 21mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,178.14
	For Vinlyester Resin, Add	719.24
	For Epoxy Resin, Add	84.77
	For Up To >10, Add	965.72
	For >10 To 25, Add	633.52
	For >25 To 50, Add	431.49
	For >50 To 100, Add	215.74
	For >500 To 1,000, Deduct	-62.67
	For >1,000 To 2,000, Deduct	-95.89
	For >2,000 To 5,000, Deduct	-160.96
	For >5,000, Deduct	-265.76
33 01 30 72-0133	22.5mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>	
33 01 30 72-0134	LF 22.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	289.05
	For Vinlyester Resin, Add	185.30
	For Epoxy Resin, Add	21.84
	For Up To >10, Add	205.35
	For >10 To 25, Add	127.01
	For >25 To 50, Add	89.44
	For >50 To 100, Add	44.72
	For >500 To 1,000, Deduct	-15.06
	For >1,000 To 2,000, Deduct	-22.90
	For >2,000 To 5,000, Deduct	-37.85
	For >5,000, Deduct	-62.68
33 01 30 72-0135	LF 22.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	337.51
	For Vinlyester Resin, Add	217.78
	For Epoxy Resin, Add	25.67
	For Up To >10, Add	234.73
	For >10 To 25, Add	143.76
	For >25 To 50, Add	101.81
	For >50 To 100, Add	50.90
	For >500 To 1,000, Deduct	-17.54
	For >1,000 To 2,000, Deduct	-26.63
	For >2,000 To 5,000, Deduct	-43.93
	For >5,000, Deduct	-72.78



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0136 LF 22.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	386.32	
For Vinylster Resin, Add	250.26	
For Epoxy Resin, Add	29.50	
For Up To >10, Add	265.16	
For >10 To 25, Add	161.38	
For >25 To 50, Add	114.70	
For >50 To 100, Add	57.35	
For >500 To 1,000, Deduct	-20.04	
For >1,000 To 2,000, Deduct	-30.41	
For >2,000 To 5,000, Deduct	-50.10	
For >5,000, Deduct	-83.02	
33 01 30 72-0137 LF 22.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	435.59	
For Vinylster Resin, Add	282.74	
For Epoxy Resin, Add	33.32	
For Up To >10, Add	296.97	
For >10 To 25, Add	180.16	
For >25 To 50, Add	128.29	
For >50 To 100, Add	64.14	
For >500 To 1,000, Deduct	-22.57	
For >1,000 To 2,000, Deduct	-34.25	
For >2,000 To 5,000, Deduct	-56.39	
For >5,000, Deduct	-93.45	
33 01 30 72-0138 LF 22.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	485.44	
For Vinylster Resin, Add	315.22	
For Epoxy Resin, Add	37.15	
For Up To >10, Add	330.52	
For >10 To 25, Add	200.38	
For >25 To 50, Add	142.74	
For >50 To 100, Add	71.37	
For >500 To 1,000, Deduct	-25.15	
For >1,000 To 2,000, Deduct	-38.16	
For >2,000 To 5,000, Deduct	-62.82	
For >5,000, Deduct	-104.11	
33 01 30 72-0139 LF 22.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	582.72	
For Vinylster Resin, Add	380.19	
For Epoxy Resin, Add	44.81	
For Up To >10, Add	390.34	
For >10 To 25, Add	234.76	
For >25 To 50, Add	168.01	
For >50 To 100, Add	84.01	
For >500 To 1,000, Deduct	-30.13	
For >1,000 To 2,000, Deduct	-45.68	
For >2,000 To 5,000, Deduct	-75.07	
For >5,000, Deduct	-124.46	
33 01 30 72-0140 LF 22.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	681.13	
For Vinylster Resin, Add	445.15	
For Epoxy Resin, Add	52.46	
For Up To >10, Add	453.57	
For >10 To 25, Add	271.98	
For >25 To 50, Add	194.99	
For >50 To 100, Add	97.49	
For >500 To 1,000, Deduct	-35.19	
For >1,000 To 2,000, Deduct	-53.34	
For >2,000 To 5,000, Deduct	-87.61	
For >5,000, Deduct	-145.27	
33 01 30 72-0141 LF 22.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	781.40	
For Vinylster Resin, Add	510.12	
For Epoxy Resin, Add	60.12	
For Up To >10, Add	522.35	
For >10 To 25, Add	313.84	
For >25 To 50, Add	224.74	
For >50 To 100, Add	112.37	
For >500 To 1,000, Deduct	-40.39	
For >1,000 To 2,000, Deduct	-61.24	
For >2,000 To 5,000, Deduct	-100.61	
For >5,000, Deduct	-166.81	
33 01 30 72-0142 LF 22.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	884.76	
For Vinylster Resin, Add	575.08	
For Epoxy Resin, Add	67.78	
For Up To >10, Add	600.43	
For >10 To 25, Add	363.44	
For >25 To 50, Add	259.14	
For >50 To 100, Add	129.57	
For >500 To 1,000, Deduct	-45.82	
For >1,000 To 2,000, Deduct	-69.52	
For >2,000 To 5,000, Deduct	-114.39	
For >5,000, Deduct	-189.60	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0143 LF 22.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	996.50	
For Vinlyester Resin, Add	640.05	
For Epoxy Resin, Add	75.43	
For Up To >10, Add	703.63	
For >10 To 25, Add	433.96	
For >25 To 50, Add	306.10	
For >50 To 100, Add	153.05	
For >500 To 1,000, Deduct	-51.88	
For >1,000 To 2,000, Deduct	-78.85	
For >2,000 To 5,000, Deduct	-130.26	
For >5,000, Deduct	-215.73	
33 01 30 72-0144 LF 22.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,119.14	
For Vinlyester Resin, Add	705.01	
For Epoxy Resin, Add	83.09	
For Up To >10, Add	839.55	
For >10 To 25, Add	531.76	
For >25 To 50, Add	369.42	
For >50 To 100, Add	184.71	
For >500 To 1,000, Deduct	-58.76	
For >1,000 To 2,000, Deduct	-89.54	
For >2,000 To 5,000, Deduct	-148.86	
For >5,000, Deduct	-246.23	
33 01 30 72-0145 LF 22.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,250.62	
For Vinlyester Resin, Add	769.97	
For Epoxy Resin, Add	90.75	
For Up To >10, Add	1,001.96	
For >10 To 25, Add	651.64	
For >25 To 50, Add	445.98	
For >50 To 100, Add	222.99	
For >500 To 1,000, Deduct	-66.30	
For >1,000 To 2,000, Deduct	-101.33	
For >2,000 To 5,000, Deduct	-169.66	
For >5,000, Deduct	-280.26	
33 01 30 72-0146 24mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0147 LF 24mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	306.97	
For Vinlyester Resin, Add	196.97	
For Epoxy Resin, Add	23.21	
For Up To >10, Add	217.46	
For >10 To 25, Add	134.32	
For >25 To 50, Add	94.66	
For >50 To 100, Add	47.33	
For >500 To 1,000, Deduct	-15.99	
For >1,000 To 2,000, Deduct	-24.30	
For >2,000 To 5,000, Deduct	-40.16	
For >5,000, Deduct	-66.51	
33 01 30 72-0148 LF 24mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	358.54	
For Vinlyester Resin, Add	231.62	
For Epoxy Resin, Add	27.30	
For Up To >10, Add	248.42	
For >10 To 25, Add	151.87	
For >25 To 50, Add	107.67	
For >50 To 100, Add	53.83	
For >500 To 1,000, Deduct	-18.62	
For >1,000 To 2,000, Deduct	-28.27	
For >2,000 To 5,000, Deduct	-46.62	
For >5,000, Deduct	-77.24	
33 01 30 72-0149 LF 24mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	410.56	
For Vinlyester Resin, Add	266.27	
For Epoxy Resin, Add	31.38	
For Up To >10, Add	280.73	
For >10 To 25, Add	170.55	
For >25 To 50, Add	121.35	
For >50 To 100, Add	60.67	
For >500 To 1,000, Deduct	-21.28	
For >1,000 To 2,000, Deduct	-32.30	
For >2,000 To 5,000, Deduct	-53.19	
For >5,000, Deduct	-88.15	
33 01 30 72-0150 LF 24mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	463.03	
For Vinlyester Resin, Add	300.91	
For Epoxy Resin, Add	35.46	
For Up To >10, Add	314.42	
For >10 To 25, Add	190.37	
For >25 To 50, Add	135.71	
For >50 To 100, Add	67.86	
For >500 To 1,000, Deduct	-23.98	
For >1,000 To 2,000, Deduct	-36.39	
For >2,000 To 5,000, Deduct	-59.87	
For >5,000, Deduct	-99.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0151 LF 24mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	516.32	
For Vinylster Resin, Add	335.56	
For Epoxy Resin, Add	39.55	
For Up To >10, Add	350.54	
For >10 To 25, Add	212.22	
For >25 To 50, Add	151.30	
For >50 To 100, Add	75.65	
For >500 To 1,000, Deduct	-26.74	
For >1,000 To 2,000, Deduct	-40.57	
For >2,000 To 5,000, Deduct	-66.76	
For >5,000, Deduct	-110.65	
33 01 30 72-0152 LF 24mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	619.90	
For Vinylster Resin, Add	404.85	
For Epoxy Resin, Add	47.71	
For Up To >10, Add	413.80	
For >10 To 25, Add	248.44	
For >25 To 50, Add	177.98	
For >50 To 100, Add	88.99	
For >500 To 1,000, Deduct	-32.03	
For >1,000 To 2,000, Deduct	-48.57	
For >2,000 To 5,000, Deduct	-79.79	
For >5,000, Deduct	-132.29	
33 01 30 72-0153 LF 24mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	752.23	
For Vinylster Resin, Add	493.39	
For Epoxy Resin, Add	58.15	
For Up To >10, Add	494.59	
For >10 To 25, Add	294.69	
For >25 To 50, Add	212.05	
For >50 To 100, Add	106.03	
For >500 To 1,000, Deduct	-38.80	
For >1,000 To 2,000, Deduct	-58.79	
For >2,000 To 5,000, Deduct	-96.43	
For >5,000, Deduct	-159.92	
33 01 30 72-0154 LF 24mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	831.65	
For Vinylster Resin, Add	543.45	
For Epoxy Resin, Add	64.05	
For Up To >10, Add	554.08	
For >10 To 25, Add	332.34	
For >25 To 50, Add	238.22	
For >50 To 100, Add	119.11	
For >500 To 1,000, Deduct	-42.97	
For >1,000 To 2,000, Deduct	-65.14	
For >2,000 To 5,000, Deduct	-106.99	
For >5,000, Deduct	-177.39	
33 01 30 72-0155 LF 24mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	941.78	
For Vinylster Resin, Add	612.74	
For Epoxy Resin, Add	72.22	
For Up To >10, Add	636.99	
For >10 To 25, Add	384.94	
For >25 To 50, Add	274.73	
For >50 To 100, Add	137.36	
For >500 To 1,000, Deduct	-48.75	
For >1,000 To 2,000, Deduct	-73.96	
For >2,000 To 5,000, Deduct	-121.65	
For >5,000, Deduct	-201.64	
33 01 30 72-0156 LF 24mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,060.62	
For Vinylster Resin, Add	682.03	
For Epoxy Resin, Add	80.38	
For Up To >10, Add	746.04	
For >10 To 25, Add	459.31	
For >25 To 50, Add	324.30	
For >50 To 100, Add	162.15	
For >500 To 1,000, Deduct	-55.19	
For >1,000 To 2,000, Deduct	-83.86	
For >2,000 To 5,000, Deduct	-138.49	
For >5,000, Deduct	-229.38	
33 01 30 72-0157 LF 24mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,190.93	
For Vinylster Resin, Add	751.32	
For Epoxy Resin, Add	88.55	
For Up To >10, Add	889.49	
For >10 To 25, Add	562.36	
For >25 To 50, Add	391.08	
For >50 To 100, Add	195.54	
For >500 To 1,000, Deduct	-62.49	
For >1,000 To 2,000, Deduct	-95.20	
For >2,000 To 5,000, Deduct	-158.20	
For >5,000, Deduct	-261.71	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0158 LF 24mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,330.43	
For Vinlyester Resin, Add	820.62	
For Epoxy Resin, Add	96.72	
For Up To >10, Add	1,060.52	
For >10 To 25, Add	688.38	
For >25 To 50, Add	471.64	
For >50 To 100, Add	235.82	
For >500 To 1,000, Deduct	-70.47	
For >1,000 To 2,000, Deduct	-107.69	
For >2,000 To 5,000, Deduct	-180.21	
For >5,000, Deduct	-297.71	
33 01 30 72-0159 25.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0160 LF 25.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	378.19	
For Vinlyester Resin, Add	245.37	
For Epoxy Resin, Add	28.92	
For Up To >10, Add	258.25	
For >10 To 25, Add	156.78	
For >25 To 50, Add	111.60	
For >50 To 100, Add	55.80	
For >500 To 1,000, Deduct	-19.60	
For >1,000 To 2,000, Deduct	-29.75	
For >2,000 To 5,000, Deduct	-48.98	
For >5,000, Deduct	-81.17	
33 01 30 72-0161 LF 25.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	433.29	
For Vinlyester Resin, Add	282.18	
For Epoxy Resin, Add	33.26	
For Up To >10, Add	292.10	
For >10 To 25, Add	176.23	
For >25 To 50, Add	125.89	
For >50 To 100, Add	62.95	
For >500 To 1,000, Deduct	-22.42	
For >1,000 To 2,000, Deduct	-34.01	
For >2,000 To 5,000, Deduct	-55.92	
For >5,000, Deduct	-92.69	
33 01 30 72-0162 LF 25.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	488.87	
For Vinlyester Resin, Add	319.00	
For Epoxy Resin, Add	37.60	
For Up To >10, Add	327.34	
For >10 To 25, Add	196.83	
For >25 To 50, Add	140.88	
For >50 To 100, Add	70.44	
For >500 To 1,000, Deduct	-25.27	
For >1,000 To 2,000, Deduct	-38.32	
For >2,000 To 5,000, Deduct	-62.98	
For >5,000, Deduct	-104.41	
33 01 30 72-0163 LF 25.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	545.25	
For Vinlyester Resin, Add	355.81	
For Epoxy Resin, Add	41.93	
For Up To >10, Add	365.00	
For >10 To 25, Add	219.45	
For >25 To 50, Add	157.09	
For >50 To 100, Add	78.54	
For >500 To 1,000, Deduct	-28.19	
For >1,000 To 2,000, Deduct	-42.74	
For >2,000 To 5,000, Deduct	-70.23	
For >5,000, Deduct	-116.44	
33 01 30 72-0164 LF 25.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	655.01	
For Vinlyester Resin, Add	429.43	
For Epoxy Resin, Add	50.61	
For Up To >10, Add	431.36	
For >10 To 25, Add	257.22	
For >25 To 50, Add	185.00	
For >50 To 100, Add	92.50	
For >500 To 1,000, Deduct	-33.79	
For >1,000 To 2,000, Deduct	-51.20	
For >2,000 To 5,000, Deduct	-84.00	
For >5,000, Deduct	-139.31	
33 01 30 72-0165 LF 25.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	766.04	
For Vinlyester Resin, Add	503.06	
For Epoxy Resin, Add	59.29	
For Up To >10, Add	501.50	
For >10 To 25, Add	298.14	
For >25 To 50, Add	214.82	
For >50 To 100, Add	107.41	
For >500 To 1,000, Deduct	-39.49	
For >1,000 To 2,000, Deduct	-59.82	
For >2,000 To 5,000, Deduct	-98.09	
For >5,000, Deduct	-162.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0166 LF 25.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	879.13	
For Vinylster Resin, Add	576.68	
For Epoxy Resin, Add	67.97	
For Up To >10, Add	577.82	
For >10 To 25, Add	344.21	
For >25 To 50, Add	247.72	
For >50 To 100, Add	123.86	
For >500 To 1,000, Deduct	-45.34	
For >1,000 To 2,000, Deduct	-68.70	
For >2,000 To 5,000, Deduct	-112.68	
For >5,000, Deduct	-186.89	
33 01 30 72-0167 LF 25.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	995.45	
For Vinylster Resin, Add	650.31	
For Epoxy Resin, Add	76.64	
For Up To >10, Add	663.83	
For >10 To 25, Add	398.35	
For >25 To 50, Add	285.46	
For >50 To 100, Add	142.73	
For >500 To 1,000, Deduct	-51.43	
For >1,000 To 2,000, Deduct	-77.98	
For >2,000 To 5,000, Deduct	-128.09	
For >5,000, Deduct	-212.38	
33 01 30 72-0168 LF 25.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,120.48	
For Vinylster Resin, Add	723.93	
For Epoxy Resin, Add	85.32	
For Up To >10, Add	775.97	
For >10 To 25, Add	474.27	
For >25 To 50, Add	336.27	
For >50 To 100, Add	168.14	
For >500 To 1,000, Deduct	-58.18	
For >1,000 To 2,000, Deduct	-88.35	
For >2,000 To 5,000, Deduct	-145.68	
For >5,000, Deduct	-241.35	
33 01 30 72-0169 LF 25.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,256.98	
For Vinylster Resin, Add	797.56	
For Epoxy Resin, Add	94.00	
For Up To >10, Add	922.52	
For >10 To 25, Add	578.87	
For >25 To 50, Add	404.29	
For >50 To 100, Add	202.14	
For >500 To 1,000, Deduct	-65.79	
For >1,000 To 2,000, Deduct	-100.15	
For >2,000 To 5,000, Deduct	-166.13	
For >5,000, Deduct	-274.92	
33 01 30 72-0170 LF 25.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,402.67	
For Vinylster Resin, Add	871.19	
For Epoxy Resin, Add	102.68	
For Up To >10, Add	1,096.64	
For >10 To 25, Add	706.44	
For >25 To 50, Add	486.09	
For >50 To 100, Add	243.05	
For >500 To 1,000, Deduct	-74.09	
For >1,000 To 2,000, Deduct	-113.11	
For >2,000 To 5,000, Deduct	-188.88	
For >5,000, Deduct	-312.16	
33 01 30 72-0171 27mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0172 LF 27mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	399.08	
For Vinylster Resin, Add	259.04	
For Epoxy Resin, Add	30.53	
For Up To >10, Add	272.12	
For >10 To 25, Add	165.09	
For >25 To 50, Add	117.56	
For >50 To 100, Add	58.78	
For >500 To 1,000, Deduct	-20.68	
For >1,000 To 2,000, Deduct	-31.38	
For >2,000 To 5,000, Deduct	-51.66	
For >5,000, Deduct	-85.62	
33 01 30 72-0173 LF 27mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	457.40	
For Vinylster Resin, Add	298.01	
For Epoxy Resin, Add	35.12	
For Up To >10, Add	307.88	
For >10 To 25, Add	185.61	
For >25 To 50, Add	132.65	
For >50 To 100, Add	66.33	
For >500 To 1,000, Deduct	-23.66	
For >1,000 To 2,000, Deduct	-35.89	
For >2,000 To 5,000, Deduct	-59.01	
For >5,000, Deduct	-97.81	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0174 LF 27mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	516.30	
For Vinlyester Resin, Add	336.99	
For Epoxy Resin, Add	39.72	
For Up To >10, Add	345.35	
For >10 To 25, Add	207.56	
For >25 To 50, Add	148.60	
For >50 To 100, Add	74.30	
For >500 To 1,000, Deduct	-26.69	
For >1,000 To 2,000, Deduct	-40.47	
For >2,000 To 5,000, Deduct	-66.49	
For >5,000, Deduct	-110.24	
33 01 30 72-0175 LF 27mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	575.88	
For Vinlyester Resin, Add	375.97	
For Epoxy Resin, Add	44.31	
For Up To >10, Add	384.89	
For >10 To 25, Add	231.23	
For >25 To 50, Add	165.59	
For >50 To 100, Add	82.80	
For >500 To 1,000, Deduct	-29.76	
For >1,000 To 2,000, Deduct	-45.13	
For >2,000 To 5,000, Deduct	-74.15	
For >5,000, Deduct	-122.93	
33 01 30 72-0176 LF 27mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	692.06	
For Vinlyester Resin, Add	453.92	
For Epoxy Resin, Add	53.50	
For Up To >10, Add	455.03	
For >10 To 25, Add	271.12	
For >25 To 50, Add	195.09	
For >50 To 100, Add	97.55	
For >500 To 1,000, Deduct	-35.69	
For >1,000 To 2,000, Deduct	-54.08	
For >2,000 To 5,000, Deduct	-88.72	
For >5,000, Deduct	-147.13	
33 01 30 72-0177 LF 27mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	809.63	
For Vinlyester Resin, Add	531.88	
For Epoxy Resin, Add	62.69	
For Up To >10, Add	529.32	
For >10 To 25, Add	314.46	
For >25 To 50, Add	226.67	
For >50 To 100, Add	113.33	
For >500 To 1,000, Deduct	-41.73	
For >1,000 To 2,000, Deduct	-63.21	
For >2,000 To 5,000, Deduct	-103.63	
For >5,000, Deduct	-171.89	
33 01 30 72-0178 LF 27mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	929.26	
For Vinlyester Resin, Add	609.84	
For Epoxy Resin, Add	71.87	
For Up To >10, Add	609.78	
For >10 To 25, Add	362.95	
For >25 To 50, Add	261.33	
For >50 To 100, Add	130.67	
For >500 To 1,000, Deduct	-47.91	
For >1,000 To 2,000, Deduct	-72.60	
For >2,000 To 5,000, Deduct	-119.06	
For >5,000, Deduct	-197.46	
33 01 30 72-0179 LF 27mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,052.09	
For Vinlyester Resin, Add	687.79	
For Epoxy Resin, Add	81.06	
For Up To >10, Add	699.87	
For >10 To 25, Add	419.47	
For >25 To 50, Add	300.81	
For >50 To 100, Add	150.40	
For >500 To 1,000, Deduct	-54.34	
For >1,000 To 2,000, Deduct	-82.38	
For >2,000 To 5,000, Deduct	-135.29	
For >5,000, Deduct	-224.32	
33 01 30 72-0180 LF 27mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,184.46	
For Vinlyester Resin, Add	765.75	
For Epoxy Resin, Add	90.25	
For Up To >10, Add	818.56	
For >10 To 25, Add	499.81	
For >25 To 50, Add	354.58	
For >50 To 100, Add	177.29	
For >500 To 1,000, Deduct	-61.49	
For >1,000 To 2,000, Deduct	-93.36	
For >2,000 To 5,000, Deduct	-153.90	
For >5,000, Deduct	-255.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0181 LF 27mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,328.76	
For Vinylster Resin, Add	843.71	
For Epoxy Resin, Add	99.44	
For Up To >10, Add	973.03	
For >10 To 25, Add	609.98	
For >25 To 50, Add	426.25	
For >50 To 100, Add	213.13	
For >500 To 1,000, Deduct	-69.52	
For >1,000 To 2,000, Deduct	-105.83	
For >2,000 To 5,000, Deduct	-175.50	
For >5,000, Deduct	-290.44	
33 01 30 72-0182 LF 27mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,482.69	
For Vinylster Resin, Add	921.66	
For Epoxy Resin, Add	108.62	
For Up To >10, Add	1,156.42	
For >10 To 25, Add	744.24	
For >25 To 50, Add	512.38	
For >50 To 100, Add	256.19	
For >500 To 1,000, Deduct	-78.29	
For >1,000 To 2,000, Deduct	-119.50	
For >2,000 To 5,000, Deduct	-199.51	
For >5,000, Deduct	-329.74	
33 01 30 72-0183 28.5mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0184 LF 28.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	479.90	
For Vinylster Resin, Add	313.76	
For Epoxy Resin, Add	36.98	
For Up To >10, Add	319.13	
For >10 To 25, Add	191.23	
For >25 To 50, Add	137.15	
For >50 To 100, Add	68.58	
For >500 To 1,000, Deduct	-24.79	
For >1,000 To 2,000, Deduct	-37.58	
For >2,000 To 5,000, Deduct	-61.71	
For >5,000, Deduct	-102.31	
33 01 30 72-0185 LF 28.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	541.88	
For Vinylster Resin, Add	354.90	
For Epoxy Resin, Add	41.83	
For Up To >10, Add	358.14	
For >10 To 25, Add	213.95	
For >25 To 50, Add	153.72	
For >50 To 100, Add	76.86	
For >500 To 1,000, Deduct	-27.97	
For >1,000 To 2,000, Deduct	-42.39	
For >2,000 To 5,000, Deduct	-69.56	
For >5,000, Deduct	-115.35	
33 01 30 72-0186 LF 28.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	604.56	
For Vinylster Resin, Add	396.05	
For Epoxy Resin, Add	46.68	
For Up To >10, Add	399.23	
For >10 To 25, Add	238.40	
For >25 To 50, Add	171.33	
For >50 To 100, Add	85.66	
For >500 To 1,000, Deduct	-31.20	
For >1,000 To 2,000, Deduct	-47.28	
For >2,000 To 5,000, Deduct	-77.59	
For >5,000, Deduct	-128.67	
33 01 30 72-0187 LF 28.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	763.87	
For Vinylster Resin, Add	502.66	
For Epoxy Resin, Add	59.24	
For Up To >10, Add	496.41	
For >10 To 25, Add	294.00	
For >25 To 50, Add	212.30	
For >50 To 100, Add	106.15	
For >500 To 1,000, Deduct	-39.34	
For >1,000 To 2,000, Deduct	-59.58	
For >2,000 To 5,000, Deduct	-97.62	
For >5,000, Deduct	-161.93	
33 01 30 72-0188 LF 28.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	850.68	
For Vinylster Resin, Add	560.62	
For Epoxy Resin, Add	66.07	
For Up To >10, Add	549.84	
For >10 To 25, Add	324.72	
For >25 To 50, Add	234.88	
For >50 To 100, Add	117.44	
For >500 To 1,000, Deduct	-43.78	
For >1,000 To 2,000, Deduct	-66.29	
For >2,000 To 5,000, Deduct	-108.56	
For >5,000, Deduct	-180.10	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

33 01 30 72-0189	LF 28.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	976.50	
	For Vinlyester Resin, Add	642.91	
	For Epoxy Resin, Add	75.77	
	For Up To >10, Add	633.40	
	For >10 To 25, Add	374.76	
	For >25 To 50, Add	270.78	
	For >50 To 100, Add	135.39	
	For >500 To 1,000, Deduct	-50.28	
	For >1,000 To 2,000, Deduct	-76.14	
	For >2,000 To 5,000, Deduct	-124.73	
	For >5,000, Deduct	-206.91	
33 01 30 72-0190	LF 28.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,105.76	
	For Vinlyester Resin, Add	725.19	
	For Epoxy Resin, Add	85.47	
	For Up To >10, Add	727.31	
	For >10 To 25, Add	433.42	
	For >25 To 50, Add	311.85	
	For >50 To 100, Add	155.93	
	For >500 To 1,000, Deduct	-57.03	
	For >1,000 To 2,000, Deduct	-86.42	
	For >2,000 To 5,000, Deduct	-141.76	
	For >5,000, Deduct	-235.11	
33 01 30 72-0191	LF 28.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,244.08	
	For Vinlyester Resin, Add	807.49	
	For Epoxy Resin, Add	95.17	
	For Up To >10, Add	848.37	
	For >10 To 25, Add	514.71	
	For >25 To 50, Add	366.51	
	For >50 To 100, Add	183.25	
	For >500 To 1,000, Deduct	-64.47	
	For >1,000 To 2,000, Deduct	-97.83	
	For >2,000 To 5,000, Deduct	-161.06	
	For >5,000, Deduct	-266.92	
33 01 30 72-0192	LF 28.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,394.56	
	For Vinlyester Resin, Add	889.77	
	For Epoxy Resin, Add	104.87	
	For Up To >10, Add	1,005.93	
	For >10 To 25, Add	626.43	
	For >25 To 50, Add	439.41	
	For >50 To 100, Add	219.71	
	For >500 To 1,000, Deduct	-72.81	
	For >1,000 To 2,000, Deduct	-110.77	
	For >2,000 To 5,000, Deduct	-183.40	
	For >5,000, Deduct	-303.60	
33 01 30 72-0193	LF 28.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,554.68	
	For Vinlyester Resin, Add	972.06	
	For Epoxy Resin, Add	114.56	
	For Up To >10, Add	1,192.42	
	For >10 To 25, Add	762.24	
	For >25 To 50, Add	526.78	
	For >50 To 100, Add	263.39	
	For >500 To 1,000, Deduct	-81.88	
	For >1,000 To 2,000, Deduct	-124.90	
	For >2,000 To 5,000, Deduct	-208.15	
	For >5,000, Deduct	-344.14	

33 01 30 72-0194 30mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)

33 01 30 72-0195	LF 30mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	503.87	
	For Vinlyester Resin, Add	329.42	
	For Epoxy Resin, Add	38.82	
	For Up To >10, Add	335.11	
	For >10 To 25, Add	200.83	
	For >25 To 50, Add	144.03	
	For >50 To 100, Add	72.01	
	For >500 To 1,000, Deduct	-26.03	
	For >1,000 To 2,000, Deduct	-39.45	
	For >2,000 To 5,000, Deduct	-64.79	
	For >5,000, Deduct	-107.43	
33 01 30 72-0196	LF 30mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	569.07	
	For Vinlyester Resin, Add	372.73	
	For Epoxy Resin, Add	43.93	
	For Up To >10, Add	376.04	
	For >10 To 25, Add	224.62	
	For >25 To 50, Add	161.39	
	For >50 To 100, Add	80.70	
	For >500 To 1,000, Deduct	-29.37	
	For >1,000 To 2,000, Deduct	-44.51	
	For >2,000 To 5,000, Deduct	-73.05	
	For >5,000, Deduct	-121.13	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0197 LF 30mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	635.07	
For Vinlyester Resin, Add	416.04	
For Epoxy Resin, Add	49.03	
For Up To >10, Add	419.36	
For >10 To 25, Add	250.41	
For >25 To 50, Add	179.96	
For >50 To 100, Add	89.98	
For >500 To 1,000, Deduct	-32.77	
For >1,000 To 2,000, Deduct	-49.67	
For >2,000 To 5,000, Deduct	-81.50	
For >5,000, Deduct	-135.16	
33 01 30 72-0198 LF 30mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	763.87	
For Vinlyester Resin, Add	502.66	
For Epoxy Resin, Add	59.24	
For Up To >10, Add	496.41	
For >10 To 25, Add	294.00	
For >25 To 50, Add	212.30	
For >50 To 100, Add	106.15	
For >500 To 1,000, Deduct	-39.34	
For >1,000 To 2,000, Deduct	-59.58	
For >2,000 To 5,000, Deduct	-97.62	
For >5,000, Deduct	-161.93	
33 01 30 72-0199 LF 30mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	894.14	
For Vinlyester Resin, Add	589.27	
For Epoxy Resin, Add	69.45	
For Up To >10, Add	577.87	
For >10 To 25, Add	341.26	
For >25 To 50, Add	246.84	
For >50 To 100, Add	123.42	
For >500 To 1,000, Deduct	-46.02	
For >1,000 To 2,000, Deduct	-69.68	
For >2,000 To 5,000, Deduct	-114.10	
For >5,000, Deduct	-189.29	
33 01 30 72-0200 LF 30mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,026.60	
For Vinlyester Resin, Add	675.89	
For Epoxy Resin, Add	79.66	
For Up To >10, Add	665.90	
For >10 To 25, Add	393.99	
For >25 To 50, Add	284.67	
For >50 To 100, Add	142.34	
For >500 To 1,000, Deduct	-52.86	
For >1,000 To 2,000, Deduct	-80.05	
For >2,000 To 5,000, Deduct	-131.13	
For >5,000, Deduct	-217.53	
33 01 30 72-0201 LF 30mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,162.51	
For Vinlyester Resin, Add	762.51	
For Epoxy Resin, Add	89.87	
For Up To >10, Add	764.28	
For >10 To 25, Add	455.35	
For >25 To 50, Add	327.68	
For >50 To 100, Add	163.84	
For >500 To 1,000, Deduct	-59.96	
For >1,000 To 2,000, Deduct	-90.85	
For >2,000 To 5,000, Deduct	-149.02	
For >5,000, Deduct	-247.14	
33 01 30 72-0202 LF 30mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,308.16	
For Vinlyester Resin, Add	849.13	
For Epoxy Resin, Add	100.08	
For Up To >10, Add	891.88	
For >10 To 25, Add	541.06	
For >25 To 50, Add	385.29	
For >50 To 100, Add	192.64	
For >500 To 1,000, Deduct	-67.79	
For >1,000 To 2,000, Deduct	-102.87	
For >2,000 To 5,000, Deduct	-169.34	
For >5,000, Deduct	-280.66	
33 01 30 72-0203 LF 30mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,466.44	
For Vinlyester Resin, Add	935.75	
For Epoxy Resin, Add	110.28	
For Up To >10, Add	1,057.37	
For >10 To 25, Add	658.35	
For >25 To 50, Add	461.85	
For >50 To 100, Add	230.92	
For >500 To 1,000, Deduct	-76.56	
For >1,000 To 2,000, Deduct	-116.47	
For >2,000 To 5,000, Deduct	-192.83	
For >5,000, Deduct	-319.22	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0204 LF 30mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,634.81	
For Vinlyester Resin, Add	1,022.36	
For Epoxy Resin, Add	120.49	
For Up To >10, Add	1,253.13	
For >10 To 25, Add	800.86	
For >25 To 50, Add	553.54	
For >50 To 100, Add	276.77	
For >500 To 1,000, Deduct	-86.10	
For >1,000 To 2,000, Deduct	-131.33	
For >2,000 To 5,000, Deduct	-218.83	
For >5,000, Deduct	-361.82	
33 01 30 72-0205 31.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0206 LF 31.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	526.12	
For Vinlyester Resin, Add	345.00	
For Epoxy Resin, Add	40.66	
For Up To >10, Add	346.24	
For >10 To 25, Add	206.39	
For >25 To 50, Add	148.48	
For >50 To 100, Add	74.24	
For >500 To 1,000, Deduct	-27.14	
For >1,000 To 2,000, Deduct	-41.12	
For >2,000 To 5,000, Deduct	-67.46	
For >5,000, Deduct	-111.88	
33 01 30 72-0207 LF 31.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	594.42	
For Vinlyester Resin, Add	390.47	
For Epoxy Resin, Add	46.02	
For Up To >10, Add	388.71	
For >10 To 25, Add	230.96	
For >25 To 50, Add	166.46	
For >50 To 100, Add	83.23	
For >500 To 1,000, Deduct	-30.64	
For >1,000 To 2,000, Deduct	-46.41	
For >2,000 To 5,000, Deduct	-76.09	
For >5,000, Deduct	-126.20	
33 01 30 72-0208 LF 31.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	663.51	
For Vinlyester Resin, Add	435.95	
For Epoxy Resin, Add	51.38	
For Up To >10, Add	433.58	
For >10 To 25, Add	257.52	
For >25 To 50, Add	185.65	
For >50 To 100, Add	92.83	
For >500 To 1,000, Deduct	-34.19	
For >1,000 To 2,000, Deduct	-51.80	
For >2,000 To 5,000, Deduct	-84.92	
For >5,000, Deduct	-140.85	
33 01 30 72-0209 LF 31.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	798.50	
For Vinlyester Resin, Add	526.90	
For Epoxy Resin, Add	62.10	
For Up To >10, Add	513.73	
For >10 To 25, Add	302.65	
For >25 To 50, Add	219.23	
For >50 To 100, Add	109.61	
For >500 To 1,000, Deduct	-41.07	
For >1,000 To 2,000, Deduct	-62.18	
For >2,000 To 5,000, Deduct	-101.77	
For >5,000, Deduct	-168.86	
33 01 30 72-0210 LF 31.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	934.95	
For Vinlyester Resin, Add	617.84	
For Epoxy Resin, Add	72.82	
For Up To >10, Add	598.28	
For >10 To 25, Add	351.46	
For >25 To 50, Add	255.01	
For >50 To 100, Add	127.50	
For >500 To 1,000, Deduct	-48.06	
For >1,000 To 2,000, Deduct	-72.74	
For >2,000 To 5,000, Deduct	-119.00	
For >5,000, Deduct	-197.45	
33 01 30 72-0211 LF 31.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,073.60	
For Vinlyester Resin, Add	708.79	
For Epoxy Resin, Add	83.54	
For Up To >10, Add	689.40	
For >10 To 25, Add	405.74	
For >25 To 50, Add	294.07	
For >50 To 100, Add	147.04	
For >500 To 1,000, Deduct	-55.21	
For >1,000 To 2,000, Deduct	-83.57	
For >2,000 To 5,000, Deduct	-136.77	
For >5,000, Deduct	-226.93	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0212 LF 31.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,215.70	
<i>For Vinylster Resin, Add</i>	799.74	
<i>For Epoxy Resin, Add</i>	94.26	
<i>For Up To >10, Add</i>	790.88	
<i>For >10 To 25, Add</i>	468.65	
<i>For >25 To 50, Add</i>	338.31	
<i>For >50 To 100, Add</i>	169.16	
<i>For >500 To 1,000, Deduct</i>	-62.62	
<i>For >1,000 To 2,000, Deduct</i>	-94.84	
<i>For >2,000 To 5,000, Deduct</i>	-155.40	
<i>For >5,000, Deduct</i>	-257.78	
33 01 30 72-0213 LF 31.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,367.53	
<i>For Vinylster Resin, Add</i>	890.69	
<i>For Epoxy Resin, Add</i>	104.97	
<i>For Up To >10, Add</i>	921.57	
<i>For >10 To 25, Add</i>	555.90	
<i>For >25 To 50, Add</i>	397.16	
<i>For >50 To 100, Add</i>	198.58	
<i>For >500 To 1,000, Deduct</i>	-70.75	
<i>For >1,000 To 2,000, Deduct</i>	-107.32	
<i>For >2,000 To 5,000, Deduct</i>	-176.47	
<i>For >5,000, Deduct</i>	-292.53	
33 01 30 72-0214 LF 31.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,532.00	
<i>For Vinylster Resin, Add</i>	981.64	
<i>For Epoxy Resin, Add</i>	115.69	
<i>For Up To >10, Add</i>	1,090.15	
<i>For >10 To 25, Add</i>	674.74	
<i>For >25 To 50, Add</i>	474.96	
<i>For >50 To 100, Add</i>	237.48	
<i>For >500 To 1,000, Deduct</i>	-79.84	
<i>For >1,000 To 2,000, Deduct</i>	-121.38	
<i>For >2,000 To 5,000, Deduct</i>	-200.70	
<i>For >5,000, Deduct</i>	-332.33	
33 01 30 72-0215 LF 31.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,717.02	
<i>For Vinylster Resin, Add</i>	1,079.91	
<i>For Epoxy Resin, Add</i>	127.28	
<i>For Up To >10, Add</i>	1,294.24	
<i>For >10 To 25, Add</i>	821.41	
<i>For >25 To 50, Add</i>	569.98	
<i>For >50 To 100, Add</i>	284.99	
<i>For >500 To 1,000, Deduct</i>	-90.21	
<i>For >1,000 To 2,000, Deduct</i>	-137.49	
<i>For >2,000 To 5,000, Deduct</i>	-228.70	
<i>For >5,000, Deduct</i>	-378.26	
33 01 30 72-0216 33mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0217 LF 33mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	549.98	
<i>For Vinylster Resin, Add</i>	360.49	
<i>For Epoxy Resin, Add</i>	42.49	
<i>For Up To >10, Add</i>	362.49	
<i>For >10 To 25, Add</i>	216.25	
<i>For >25 To 50, Add</i>	155.50	
<i>For >50 To 100, Add</i>	77.75	
<i>For >500 To 1,000, Deduct</i>	-28.37	
<i>For >1,000 To 2,000, Deduct</i>	-43.00	
<i>For >2,000 To 5,000, Deduct</i>	-70.55	
<i>For >5,000, Deduct</i>	-117.00	
33 01 30 72-0218 LF 33mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	621.48	
<i>For Vinylster Resin, Add</i>	408.13	
<i>For Epoxy Resin, Add</i>	48.10	
<i>For Up To >10, Add</i>	406.84	
<i>For >10 To 25, Add</i>	241.86	
<i>For >25 To 50, Add</i>	174.27	
<i>For >50 To 100, Add</i>	87.13	
<i>For >500 To 1,000, Deduct</i>	-32.04	
<i>For >1,000 To 2,000, Deduct</i>	-48.53	
<i>For >2,000 To 5,000, Deduct</i>	-79.57	
<i>For >5,000, Deduct</i>	-131.98	
33 01 30 72-0219 LF 33mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	693.78	
<i>For Vinylster Resin, Add</i>	455.77	
<i>For Epoxy Resin, Add</i>	53.72	
<i>For Up To >10, Add</i>	453.59	
<i>For >10 To 25, Add</i>	269.48	
<i>For >25 To 50, Add</i>	194.24	
<i>For >50 To 100, Add</i>	97.12	
<i>For >500 To 1,000, Deduct</i>	-35.76	
<i>For >1,000 To 2,000, Deduct</i>	-54.17	
<i>For >2,000 To 5,000, Deduct</i>	-88.80	
<i>For >5,000, Deduct</i>	-147.29	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0220 LF 33mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	835.29	
For Vinlyester Resin, Add	551.05	
For Epoxy Resin, Add	64.94	
For Up To >10, Add	537.85	
For >10 To 25, Add	317.00	
For >25 To 50, Add	229.56	
For >50 To 100, Add	114.78	
For >500 To 1,000, Deduct	-42.97	
For >1,000 To 2,000, Deduct	-65.05	
For >2,000 To 5,000, Deduct	-106.49	
For >5,000, Deduct	-176.67	
33 01 30 72-0221 LF 33mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	978.28	
For Vinlyester Resin, Add	646.32	
For Epoxy Resin, Add	76.17	
For Up To >10, Add	626.54	
For >10 To 25, Add	368.23	
For >25 To 50, Add	267.10	
For >50 To 100, Add	133.55	
For >500 To 1,000, Deduct	-50.29	
For >1,000 To 2,000, Deduct	-76.12	
For >2,000 To 5,000, Deduct	-124.54	
For >5,000, Deduct	-206.65	
33 01 30 72-0222 LF 33mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,123.46	
For Vinlyester Resin, Add	741.61	
For Epoxy Resin, Add	87.40	
For Up To >10, Add	721.78	
For >10 To 25, Add	424.91	
For >25 To 50, Add	307.92	
For >50 To 100, Add	153.96	
For >500 To 1,000, Deduct	-57.77	
For >1,000 To 2,000, Deduct	-87.46	
For >2,000 To 5,000, Deduct	-143.14	
For >5,000, Deduct	-237.50	
33 01 30 72-0223 LF 33mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,272.43	
For Vinlyester Resin, Add	836.89	
For Epoxy Resin, Add	98.63	
For Up To >10, Add	828.42	
For >10 To 25, Add	491.09	
For >25 To 50, Add	354.43	
For >50 To 100, Add	177.22	
For >500 To 1,000, Deduct	-65.54	
For >1,000 To 2,000, Deduct	-99.28	
For >2,000 To 5,000, Deduct	-162.69	
For >5,000, Deduct	-269.86	
33 01 30 72-0224 LF 33mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,431.50	
For Vinlyester Resin, Add	932.17	
For Epoxy Resin, Add	109.86	
For Up To >10, Add	965.33	
For >10 To 25, Add	582.49	
For >25 To 50, Add	416.08	
For >50 To 100, Add	208.04	
For >500 To 1,000, Deduct	-74.07	
For >1,000 To 2,000, Deduct	-112.35	
For >2,000 To 5,000, Deduct	-184.76	
For >5,000, Deduct	-306.27	
33 01 30 72-0225 LF 33mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,603.87	
For Vinlyester Resin, Add	1,027.45	
For Epoxy Resin, Add	121.09	
For Up To >10, Add	1,142.16	
For >10 To 25, Add	707.17	
For >25 To 50, Add	497.69	
For >50 To 100, Add	248.85	
For >500 To 1,000, Deduct	-83.60	
For >1,000 To 2,000, Deduct	-127.09	
For >2,000 To 5,000, Deduct	-210.16	
For >5,000, Deduct	-347.99	
33 01 30 72-0226 LF 33mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,786.90	
For Vinlyester Resin, Add	1,122.72	
For Epoxy Resin, Add	132.32	
For Up To >10, Add	1,350.98	
For >10 To 25, Add	858.50	
For >25 To 50, Add	595.29	
For >50 To 100, Add	297.65	
For >500 To 1,000, Deduct	-93.92	
For >1,000 To 2,000, Deduct	-143.17	
For >2,000 To 5,000, Deduct	-238.22	
For >5,000, Deduct	-393.98	

33 01 30 72-0227 34.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0228 LF 34.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	646.58	
For Vinyl ester Resin, Add	425.70	
For Epoxy Resin, Add	50.17	
For Up To >10, Add	419.39	
For >10 To 25, Add	248.14	
For >25 To 50, Add	179.29	
For >50 To 100, Add	89.64	
For >500 To 1,000, Deduct	-33.29	
For >1,000 To 2,000, Deduct	-50.42	
For >2,000 To 5,000, Deduct	-82.59	
For >5,000, Deduct	-137.00	
33 01 30 72-0229 LF 34.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	721.97	
For Vinyl ester Resin, Add	475.50	
For Epoxy Resin, Add	56.04	
For Up To >10, Add	467.69	
For >10 To 25, Add	276.52	
For >25 To 50, Add	199.88	
For >50 To 100, Add	99.94	
For >500 To 1,000, Deduct	-37.17	
For >1,000 To 2,000, Deduct	-56.28	
For >2,000 To 5,000, Deduct	-92.18	
For >5,000, Deduct	-152.93	
33 01 30 72-0230 LF 34.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	869.67	
For Vinyl ester Resin, Add	575.11	
For Epoxy Resin, Add	67.78	
For Up To >10, Add	555.04	
For >10 To 25, Add	325.60	
For >25 To 50, Add	236.44	
For >50 To 100, Add	118.22	
For >500 To 1,000, Deduct	-44.69	
For >1,000 To 2,000, Deduct	-67.63	
For >2,000 To 5,000, Deduct	-110.61	
For >5,000, Deduct	-183.55	
33 01 30 72-0231 LF 34.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,018.85	
For Vinyl ester Resin, Add	674.72	
For Epoxy Resin, Add	79.52	
For Up To >10, Add	646.83	
For >10 To 25, Add	378.37	
For >25 To 50, Add	275.22	
For >50 To 100, Add	137.61	
For >500 To 1,000, Deduct	-52.32	
For >1,000 To 2,000, Deduct	-79.16	
For >2,000 To 5,000, Deduct	-129.41	
For >5,000, Deduct	-214.76	
33 01 30 72-0232 LF 34.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,170.21	
For Vinyl ester Resin, Add	774.33	
For Epoxy Resin, Add	91.26	
For Up To >10, Add	745.16	
For >10 To 25, Add	436.60	
For >25 To 50, Add	317.27	
For >50 To 100, Add	158.63	
For >500 To 1,000, Deduct	-60.11	
For >1,000 To 2,000, Deduct	-90.97	
For >2,000 To 5,000, Deduct	-148.75	
For >5,000, Deduct	-246.85	
33 01 30 72-0233 LF 34.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,325.38	
For Vinyl ester Resin, Add	873.95	
For Epoxy Resin, Add	103.00	
For Up To >10, Add	854.89	
For >10 To 25, Add	504.33	
For >25 To 50, Add	365.02	
For >50 To 100, Add	182.51	
For >500 To 1,000, Deduct	-68.19	
For >1,000 To 2,000, Deduct	-103.25	
For >2,000 To 5,000, Deduct	-169.04	
For >5,000, Deduct	-280.45	
33 01 30 72-0234 LF 34.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,490.63	
For Vinyl ester Resin, Add	973.56	
For Epoxy Resin, Add	114.74	
For Up To >10, Add	994.89	
For >10 To 25, Add	597.28	
For >25 To 50, Add	427.91	
For >50 To 100, Add	213.95	
For >500 To 1,000, Deduct	-77.03	
For >1,000 To 2,000, Deduct	-116.79	
For >2,000 To 5,000, Deduct	-191.85	
For >5,000, Deduct	-318.09	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30	72-0235	LF	34.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,669.18	
			For Vinlyester Resin, Add	1,073.16	
			For Epoxy Resin, Add	126.48	
			For Up To >10, Add	1,174.82	
			For >10 To 25, Add	723.50	
			For >25 To 50, Add	510.75	
			For >50 To 100, Add	255.38	
			For >500 To 1,000, Deduct	-86.86	
			For >1,000 To 2,000, Deduct	-131.99	
			For >2,000 To 5,000, Deduct	-217.99	
			For >5,000, Deduct	-361.05	
33 01 30	72-0236	LF	34.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,858.40	
			For Vinlyester Resin, Add	1,172.77	
			For Epoxy Resin, Add	138.22	
			For Up To >10, Add	1,386.73	
			For >10 To 25, Add	876.37	
			For >25 To 50, Add	609.59	
			For >50 To 100, Add	304.80	
			For >500 To 1,000, Deduct	-97.50	
			For >1,000 To 2,000, Deduct	-148.53	
			For >2,000 To 5,000, Deduct	-246.80	
			For >5,000, Deduct	-408.28	
33 01 30	72-0237		36mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30	72-0238	LF	36mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	673.51	
			For Vinlyester Resin, Add	443.18	
			For Epoxy Resin, Add	52.23	
			For Up To >10, Add	437.73	
			For >10 To 25, Add	259.26	
			For >25 To 50, Add	187.21	
			For >50 To 100, Add	93.60	
			For >500 To 1,000, Deduct	-34.69	
			For >1,000 To 2,000, Deduct	-52.53	
			For >2,000 To 5,000, Deduct	-86.07	
			For >5,000, Deduct	-142.78	
33 01 30	72-0239	LF	36mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	752.22	
			For Vinlyester Resin, Add	495.15	
			For Epoxy Resin, Add	58.36	
			For Up To >10, Add	488.26	
			For >10 To 25, Add	288.99	
			For >25 To 50, Add	208.76	
			For >50 To 100, Add	104.38	
			For >500 To 1,000, Deduct	-38.73	
			For >1,000 To 2,000, Deduct	-58.66	
			For >2,000 To 5,000, Deduct	-96.10	
			For >5,000, Deduct	-159.42	
33 01 30	72-0240	LF	36mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	906.34	
			For Vinlyester Resin, Add	599.10	
			For Epoxy Resin, Add	70.61	
			For Up To >10, Add	579.40	
			For >10 To 25, Add	340.19	
			For >25 To 50, Add	246.91	
			For >50 To 100, Add	123.45	
			For >500 To 1,000, Deduct	-46.58	
			For >1,000 To 2,000, Deduct	-70.50	
			For >2,000 To 5,000, Deduct	-115.32	
			For >5,000, Deduct	-191.37	
33 01 30	72-0241	LF	36mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,062.06	
			For Vinlyester Resin, Add	703.04	
			For Epoxy Resin, Add	82.86	
			For Up To >10, Add	675.33	
			For >10 To 25, Add	395.39	
			For >25 To 50, Add	287.45	
			For >50 To 100, Add	143.72	
			For >500 To 1,000, Deduct	-54.55	
			For >1,000 To 2,000, Deduct	-82.54	
			For >2,000 To 5,000, Deduct	-134.95	
			For >5,000, Deduct	-223.96	
33 01 30	72-0242	LF	36mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,220.06	
			For Vinlyester Resin, Add	806.98	
			For Epoxy Resin, Add	95.11	
			For Up To >10, Add	778.11	
			For >10 To 25, Add	456.28	
			For >25 To 50, Add	331.41	
			For >50 To 100, Add	165.71	
			For >500 To 1,000, Deduct	-62.68	
			For >1,000 To 2,000, Deduct	-94.87	
			For >2,000 To 5,000, Deduct	-155.15	
			For >5,000, Deduct	-257.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0243 LF 36mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,382.10	
For Vinylster Resin, Add	910.92	
For Epoxy Resin, Add	107.36	
For Up To >10, Add	893.00	
For >10 To 25, Add	527.28	
For >25 To 50, Add	381.43	
For >50 To 100, Add	190.72	
For >500 To 1,000, Deduct	-71.12	
For >1,000 To 2,000, Deduct	-107.70	
For >2,000 To 5,000, Deduct	-176.35	
For >5,000, Deduct	-292.58	
33 01 30 72-0244 LF 36mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,554.67	
For Vinylster Resin, Add	1,014.86	
For Epoxy Resin, Add	119.61	
For Up To >10, Add	1,039.51	
For >10 To 25, Add	624.63	
For >25 To 50, Add	447.27	
For >50 To 100, Add	223.63	
For >500 To 1,000, Deduct	-80.36	
For >1,000 To 2,000, Deduct	-121.84	
For >2,000 To 5,000, Deduct	-200.19	
For >5,000, Deduct	-331.91	
33 01 30 72-0245 LF 36mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,741.25	
For Vinylster Resin, Add	1,118.80	
For Epoxy Resin, Add	131.86	
For Up To >10, Add	1,228.03	
For >10 To 25, Add	756.97	
For >25 To 50, Add	534.10	
For >50 To 100, Add	267.05	
For >500 To 1,000, Deduct	-90.64	
For >1,000 To 2,000, Deduct	-137.74	
For >2,000 To 5,000, Deduct	-227.53	
For >5,000, Deduct	-376.84	
33 01 30 72-0246 LF 36mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,938.97	
For Vinylster Resin, Add	1,222.75	
For Epoxy Resin, Add	144.11	
For Up To >10, Add	1,449.96	
For >10 To 25, Add	917.17	
For >25 To 50, Add	637.64	
For >50 To 100, Add	318.82	
For >500 To 1,000, Deduct	-101.75	
For >1,000 To 2,000, Deduct	-155.03	
For >2,000 To 5,000, Deduct	-257.66	
For >5,000, Deduct	-426.23	
33 01 30 72-0247 37.5mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0248 LF 37.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	780.17	
For Vinylster Resin, Add	514.72	
For Epoxy Resin, Add	60.66	
For Up To >10, Add	502.24	
For >10 To 25, Add	295.98	
For >25 To 50, Add	214.35	
For >50 To 100, Add	107.18	
For >500 To 1,000, Deduct	-40.13	
For >1,000 To 2,000, Deduct	-60.76	
For >2,000 To 5,000, Deduct	-99.45	
For >5,000, Deduct	-165.01	
33 01 30 72-0249 LF 37.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	940.48	
For Vinylster Resin, Add	622.99	
For Epoxy Resin, Add	73.42	
For Up To >10, Add	596.47	
For >10 To 25, Add	348.72	
For >25 To 50, Add	253.73	
For >50 To 100, Add	126.87	
For >500 To 1,000, Deduct	-48.29	
For >1,000 To 2,000, Deduct	-73.06	
For >2,000 To 5,000, Deduct	-119.42	
For >5,000, Deduct	-198.19	
33 01 30 72-0250 LF 37.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,102.38	
For Vinylster Resin, Add	731.26	
For Epoxy Resin, Add	86.18	
For Up To >10, Add	695.49	
For >10 To 25, Add	405.47	
For >25 To 50, Add	295.51	
For >50 To 100, Add	147.76	
For >500 To 1,000, Deduct	-56.56	
For >1,000 To 2,000, Deduct	-85.56	
For >2,000 To 5,000, Deduct	-139.79	
For >5,000, Deduct	-232.02	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

33 01 30 72-0251	LF	37.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,266.57	
		For Vinlyester Resin, Add	839.54	
		For Epoxy Resin, Add	98.95	
		For Up To >10, Add	801.36	
		For >10 To 25, Add	467.91	
		For >25 To 50, Add	340.71	
		For >50 To 100, Add	170.36	
		For >500 To 1,000, Deduct	-65.01	
		For >1,000 To 2,000, Deduct	-98.35	
		For >2,000 To 5,000, Deduct	-160.73	
		For >5,000, Deduct	-266.76	
33 01 30 72-0252	LF	37.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,434.80	
		For Vinlyester Resin, Add	947.81	
		For Epoxy Resin, Add	111.71	
		For Up To >10, Add	919.35	
		For >10 To 25, Add	540.46	
		For >25 To 50, Add	391.97	
		For >50 To 100, Add	195.99	
		For >500 To 1,000, Deduct	-73.76	
		For >1,000 To 2,000, Deduct	-111.65	
		For >2,000 To 5,000, Deduct	-182.68	
		For >5,000, Deduct	-303.12	
33 01 30 72-0253	LF	37.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,613.56	
		For Vinlyester Resin, Add	1,056.08	
		For Epoxy Resin, Add	124.47	
		For Up To >10, Add	1,068.96	
		For >10 To 25, Add	639.35	
		For >25 To 50, Add	459.04	
		For >50 To 100, Add	229.52	
		For >500 To 1,000, Deduct	-83.30	
		For >1,000 To 2,000, Deduct	-126.26	
		For >2,000 To 5,000, Deduct	-207.26	
		For >5,000, Deduct	-343.69	
33 01 30 72-0254	LF	37.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,806.32	
		For Vinlyester Resin, Add	1,164.35	
		For Epoxy Resin, Add	137.23	
		For Up To >10, Add	1,260.56	
		For >10 To 25, Add	773.24	
		For >25 To 50, Add	547.11	
		For >50 To 100, Add	273.56	
		For >500 To 1,000, Deduct	-93.89	
		For >1,000 To 2,000, Deduct	-142.62	
		For >2,000 To 5,000, Deduct	-235.34	
		For >5,000, Deduct	-389.86	
33 01 30 72-0255	LF	37.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,010.23	
		For Vinlyester Resin, Add	1,272.63	
		For Epoxy Resin, Add	149.99	
		For Up To >10, Add	1,485.59	
		For >10 To 25, Add	934.99	
		For >25 To 50, Add	651.89	
		For >50 To 100, Add	325.95	
		For >500 To 1,000, Deduct	-105.32	
		For >1,000 To 2,000, Deduct	-160.38	
		For >2,000 To 5,000, Deduct	-266.21	
		For >5,000, Deduct	-440.48	

33 01 30 72-0256 39mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)

33 01 30 72-0257	LF	39mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	977.01	
		For Vinlyester Resin, Add	646.80	
		For Epoxy Resin, Add	76.23	
		For Up To >10, Add	621.03	
		For >10 To 25, Add	363.53	
		For >25 To 50, Add	264.32	
		For >50 To 100, Add	132.16	
		For >500 To 1,000, Deduct	-50.18	
		For >1,000 To 2,000, Deduct	-75.93	
		For >2,000 To 5,000, Deduct	-124.13	
		For >5,000, Deduct	-206.00	
33 01 30 72-0258	LF	39mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,145.45	
		For Vinlyester Resin, Add	759.41	
		For Epoxy Resin, Add	89.50	
		For Up To >10, Add	724.18	
		For >10 To 25, Add	422.67	
		For >25 To 50, Add	307.84	
		For >50 To 100, Add	153.92	
		For >500 To 1,000, Deduct	-58.79	
		For >1,000 To 2,000, Deduct	-88.94	
		For >2,000 To 5,000, Deduct	-145.33	
		For >5,000, Deduct	-241.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0259 LF 39mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,316.41	
For Vinylster Resin, Add	872.01	
For Epoxy Resin, Add	102.77	
For Up To >10, Add	834.91	
For >10 To 25, Add	488.13	
For >25 To 50, Add	355.17	
For >50 To 100, Add	177.58	
For >500 To 1,000, Deduct	-67.59	
For >1,000 To 2,000, Deduct	-102.26	
For >2,000 To 5,000, Deduct	-167.16	
For >5,000, Deduct	-277.42	
33 01 30 72-0260 LF 39mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,491.38	
For Vinylster Resin, Add	984.61	
For Epoxy Resin, Add	116.04	
For Up To >10, Add	957.67	
For >10 To 25, Add	563.62	
For >25 To 50, Add	408.50	
For >50 To 100, Add	204.25	
For >500 To 1,000, Deduct	-76.69	
For >1,000 To 2,000, Deduct	-116.09	
For >2,000 To 5,000, Deduct	-189.99	
For >5,000, Deduct	-315.23	
33 01 30 72-0261 LF 39mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,677.48	
For Vinylster Resin, Add	1,097.22	
For Epoxy Resin, Add	129.31	
For Up To >10, Add	1,113.82	
For >10 To 25, Add	666.94	
For >25 To 50, Add	478.54	
For >50 To 100, Add	239.27	
For >500 To 1,000, Deduct	-86.62	
For >1,000 To 2,000, Deduct	-131.31	
For >2,000 To 5,000, Deduct	-215.60	
For >5,000, Deduct	-357.50	
33 01 30 72-0262 LF 39mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,878.40	
For Vinylster Resin, Add	1,209.82	
For Epoxy Resin, Add	142.59	
For Up To >10, Add	1,314.40	
For >10 To 25, Add	807.28	
For >25 To 50, Add	570.78	
For >50 To 100, Add	285.39	
For >500 To 1,000, Deduct	-97.67	
For >1,000 To 2,000, Deduct	-148.38	
For >2,000 To 5,000, Deduct	-244.92	
For >5,000, Deduct	-405.70	
33 01 30 72-0263 LF 39mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,091.11	
For Vinylster Resin, Add	1,322.42	
For Epoxy Resin, Add	155.86	
For Up To >10, Add	1,550.41	
For >10 To 25, Add	977.14	
For >25 To 50, Add	680.74	
For >50 To 100, Add	340.37	
For >500 To 1,000, Deduct	-109.60	
For >1,000 To 2,000, Deduct	-166.93	
For >2,000 To 5,000, Deduct	-277.19	
For >5,000, Deduct	-458.61	
33 01 30 72-0264 40.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0265 LF 40.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,185.53	
For Vinylster Resin, Add	787.47	
For Epoxy Resin, Add	92.81	
For Up To >10, Add	744.22	
For >10 To 25, Add	432.69	
For >25 To 50, Add	315.86	
For >50 To 100, Add	157.93	
For >500 To 1,000, Deduct	-60.79	
For >1,000 To 2,000, Deduct	-91.94	
For >2,000 To 5,000, Deduct	-150.14	
For >5,000, Deduct	-249.22	
33 01 30 72-0266 LF 40.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,362.64	
For Vinylster Resin, Add	904.40	
For Epoxy Resin, Add	106.59	
For Up To >10, Add	857.92	
For >10 To 25, Add	499.60	
For >25 To 50, Add	364.36	
For >50 To 100, Add	182.18	
For >500 To 1,000, Deduct	-69.90	
For >1,000 To 2,000, Deduct	-105.73	
For >2,000 To 5,000, Deduct	-172.70	
For >5,000, Deduct	-286.66	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

33 01 30 72-0267	LF	40.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,543.84
		<i>For Vinlyester Resin, Add</i>	1,021.34
		<i>For Epoxy Resin, Add</i>	120.37
		<i>For Up To >10, Add</i>	983.90
		<i>For >10 To 25, Add</i>	576.74
		<i>For >25 To 50, Add</i>	419.00
		<i>For >50 To 100, Add</i>	209.50
		<i>For >500 To 1,000, Deduct</i>	-79.31
		<i>For >1,000 To 2,000, Deduct</i>	-120.03
		<i>For >2,000 To 5,000, Deduct</i>	-196.28
		<i>For >5,000, Deduct</i>	-325.73
33 01 30 72-0268	LF	40.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,736.12
		<i>For Vinlyester Resin, Add</i>	1,138.26
		<i>For Epoxy Resin, Add</i>	134.15
		<i>For Up To >10, Add</i>	1,143.14
		<i>For >10 To 25, Add</i>	681.60
		<i>For >25 To 50, Add</i>	490.26
		<i>For >50 To 100, Add</i>	245.13
		<i>For >500 To 1,000, Deduct</i>	-89.56
		<i>For >1,000 To 2,000, Deduct</i>	-135.71
		<i>For >2,000 To 5,000, Deduct</i>	-222.64
		<i>For >5,000, Deduct</i>	-369.23
33 01 30 72-0269	LF	40.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,943.23
		<i>For Vinlyester Resin, Add</i>	1,255.21
		<i>For Epoxy Resin, Add</i>	147.93
		<i>For Up To >10, Add</i>	1,346.82
		<i>For >10 To 25, Add</i>	823.49
		<i>For >25 To 50, Add</i>	583.75
		<i>For >50 To 100, Add</i>	291.88
		<i>For >500 To 1,000, Deduct</i>	-100.91
		<i>For >1,000 To 2,000, Deduct</i>	-153.25
		<i>For >2,000 To 5,000, Deduct</i>	-252.70
		<i>For >5,000, Deduct</i>	-418.66
33 01 30 72-0270	LF	40.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,162.02
		<i>For Vinlyester Resin, Add</i>	1,372.13
		<i>For Epoxy Resin, Add</i>	161.72
		<i>For Up To >10, Add</i>	1,585.59
		<i>For >10 To 25, Add</i>	994.62
		<i>For >25 To 50, Add</i>	694.78
		<i>For >50 To 100, Add</i>	347.39
		<i>For >500 To 1,000, Deduct</i>	-113.15
		<i>For >1,000 To 2,000, Deduct</i>	-172.24
		<i>For >2,000 To 5,000, Deduct</i>	-285.68
		<i>For >5,000, Deduct</i>	-472.77
33 01 30 72-0271		42mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>	
33 01 30 72-0272	LF	42mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,412.26
		<i>For Vinlyester Resin, Add</i>	936.70
		<i>For Epoxy Resin, Add</i>	110.40
		<i>For Up To >10, Add</i>	891.43
		<i>For >10 To 25, Add</i>	519.84
		<i>For >25 To 50, Add</i>	378.81
		<i>For >50 To 100, Add</i>	189.40
		<i>For >500 To 1,000, Deduct</i>	-72.47
		<i>For >1,000 To 2,000, Deduct</i>	-109.63
		<i>For >2,000 To 5,000, Deduct</i>	-179.11
		<i>For >5,000, Deduct</i>	-297.28
33 01 30 72-0273	LF	42mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,600.42
		<i>For Vinlyester Resin, Add</i>	1,057.97
		<i>For Epoxy Resin, Add</i>	124.69
		<i>For Up To >10, Add</i>	1,022.81
		<i>For >10 To 25, Add</i>	600.45
		<i>For >25 To 50, Add</i>	435.84
		<i>For >50 To 100, Add</i>	217.92
		<i>For >500 To 1,000, Deduct</i>	-82.25
		<i>For >1,000 To 2,000, Deduct</i>	-124.48
		<i>For >2,000 To 5,000, Deduct</i>	-203.63
		<i>For >5,000, Deduct</i>	-337.89
33 01 30 72-0274	LF	42mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,800.16
		<i>For Vinlyester Resin, Add</i>	1,179.23
		<i>For Epoxy Resin, Add</i>	138.98
		<i>For Up To >10, Add</i>	1,188.93
		<i>For >10 To 25, Add</i>	710.01
		<i>For >25 To 50, Add</i>	510.23
		<i>For >50 To 100, Add</i>	255.12
		<i>For >500 To 1,000, Deduct</i>	-92.90
		<i>For >1,000 To 2,000, Deduct</i>	-140.79
		<i>For >2,000 To 5,000, Deduct</i>	-231.04
		<i>For >5,000, Deduct</i>	-383.14



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0275 LF 42mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,999.90	
For Vinlyester Resin, Add	1,300.50	
For Epoxy Resin, Add	153.27	
For Up To >10, Add	1,355.08	
For >10 To 25, Add	819.59	
For >25 To 50, Add	584.65	
For >50 To 100, Add	292.32	
For >500 To 1,000, Deduct	-103.55	
For >1,000 To 2,000, Deduct	-157.10	
For >2,000 To 5,000, Deduct	-258.45	
For >5,000, Deduct	-428.39	
33 01 30 72-0276 LF 42mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,242.78	
For Vinlyester Resin, Add	1,421.76	
For Epoxy Resin, Add	167.56	
For Up To >10, Add	1,650.62	
For >10 To 25, Add	1,037.00	
For >25 To 50, Add	723.75	
For >50 To 100, Add	361.88	
For >500 To 1,000, Deduct	-117.43	
For >1,000 To 2,000, Deduct	-178.79	
For >2,000 To 5,000, Deduct	-296.65	
For >5,000, Deduct	-490.89	
 33 01 30 74 Cured-in-Place Lateral Lining (33 01 30)		
33 01 30 74-0001 Laterals; Cutting, Grouting And Reinstatement (33 01 30 74)		
33 01 30 74-0002 Lateral Reinstatement/Reconnection (33 01 30 74-0001)		
33 01 30 74-0003 EA Cut Liner For Laterals, Up To 4" (Robotic).....	472.07	
33 01 30 74-0004 EA Cut Liner For Laterals, 6" (Robotic).....	510.34	
33 01 30 74-0005 EA Cut Liner For Laterals, 8" (Robotic).....	542.24	
33 01 30 74-0006 EA Cut Liner For Laterals, 10" (Robotic).....	574.14	
33 01 30 74-0007 EA Cut Liner For Laterals, 12" (Robotic).....	606.03	
 33 01 30 74-0008 Grout Lateral Service (33 01 30 74-0001)		
33 01 30 74-0009 Grout Lateral Service - Bladder (33 01 30 74-0008)		
33 01 30 74-0010 EA Grout Up To 4" Lateral Service - Bladder.....	500.17	
33 01 30 74-0011 EA Grout 6" Lateral Service - Bladder	572.01	
33 01 30 74-0012 EA Grout 8" Lateral Service - Bladder	643.87	
 33 01 30 74-0013 Grout Lateral Service - Robotic Trowel Application (33 01 30 74-0008)		
33 01 30 74-0014 EA Grout 3" To 6" Lateral Service - Robotic Trowel Application.....	542.31	
33 01 30 74-0015 EA Grout 8" To 12" Lateral Service - Robotic Trowel Application	584.46	
 33 01 30 74-0016 Lateral T-Liner (33 01 30 74-0001)		
Note: As manufactured by LMK.		
33 01 30 74-0017 EA Up To 4" Lateral T-Liner	643.14	
33 01 30 74-0018 EA 6" Lateral T-Liner	716.50	
33 01 30 74-0019 EA 8" Lateral T-Liner	829.15	
 33 01 30 74-0020 Lining Lateral Pipe (33 01 30 74-0001)		
33 01 30 74-0021 Lining Lateral Pipe (33 01 30 74-0020)		
33 01 30 74-0022 LF 6mm Lining 3" Lateral Pipe With Cured In-Place Pipe (CIPP)	29.47	
For 7.5mm, Add	2.70	
For 9 mm, Add	5.35	
33 01 30 74-0023 LF 6mm Lining 4" Lateral Pipe With Cured In-Place Pipe (CIPP)	34.46	
For 7.5mm, Add	3.68	
For 9 mm, Add	7.28	
33 01 30 74-0024 LF 6mm Lining 6" Lateral Pipe With Cured In-Place Pipe (CIPP)	43.56	
For 7.5mm, Add	5.64	
For 9 mm, Add	11.15	
 33 01 30 74-0025 Lining Manhole Drop (33 01 30 74-0020)		
33 01 30 74-0026 EA Manhole Drop Section Lining	679.90	
 33 01 30 79 Fold-and-Form Pipe Lining (33 01 30)		
33 01 30 79-0001 Form and Fold Relining Underground Pipelines (33 01 30 79)		
Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.		
33 01 30 79-0002 Fold-And-Form Relining Underground Pipelines Set-Up And Reinsertion (33 01 30 79-0001)		
33 01 30 79-0003 EA Initial Set Up And Final Equipment Removal For Fold-And-Form Relining Underground Pipelines.....	4,589.63	
33 01 30 79-0004 EA Move And Reset Up At Different Access/Location For Fold-And-Form Relining Underground Pipelines	1,835.85	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0005 Form And Fold Polyethylene (PE) Pipeliner (33 01 30 79-0001)		
33 01 30 79-0006 LF 4" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5.....	30.64	
For DR 26 Pipe Liner, Add	5.20	
For Up To 75, Add	18.92	
For >75 To 150, Add	9.46	
For >500 To 1,000, Deduct	-0.74	
For >1,000 To 2,000, Deduct	-1.48	
For >2,000, Deduct	-2.95	
33 01 30 79-0007 LF 6" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5.....	38.85	
For DR 26 Pipe Liner, Add	7.07	
For DR 35 Pipe Liner, Deduct	-3.53	
For Up To 75, Add	21.54	
For >75 To 150, Add	10.77	
For >500 To 1,000, Deduct	-0.79	
For >1,000 To 2,000, Deduct	-1.59	
For >2,000, Deduct	-3.18	
33 01 30 79-0008 LF 8" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5.....	40.26	
For DR 26 Pipe Liner, Add	7.20	
For DR 35 Pipe Liner, Deduct	-3.60	
For Up To 75, Add	22.98	
For >75 To 150, Add	11.49	
For >500 To 1,000, Deduct	-0.86	
For >1,000 To 2,000, Deduct	-1.72	
For >2,000, Deduct	-3.44	
33 01 30 79-0009 LF 10" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5.....	55.69	
For DR 26 Pipe Liner, Add	10.79	
For DR 35 Pipe Liner, Deduct	-5.40	
For DR 41 Pipe Liner, Deduct	-10.79	
For Up To 75, Add	27.41	
For >75 To 150, Add	13.71	
For >500 To 1,000, Deduct	-0.94	
For >1,000 To 2,000, Deduct	-1.88	
For >2,000, Deduct	-3.76	
33 01 30 79-0010 LF 12" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5.....	76.95	
For DR 26 Pipe Liner, Add	15.80	
For DR 35 Pipe Liner, Deduct	-7.90	
For DR 41 Pipe Liner, Deduct	-15.80	
For Up To 75, Add	33.28	
For >75 To 150, Add	16.64	
For >500 To 1,000, Deduct	-1.03	
For >1,000 To 2,000, Deduct	-2.06	
For >2,000, Deduct	-4.13	
33 01 30 79-0011 LF 15" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5.....	104.61	
For DR 35 Pipe Liner, Deduct	-11.12	
For DR 41 Pipe Liner, Deduct	-22.24	
For Up To 75, Add	41.27	
For >75 To 150, Add	20.63	
For >500 To 1,000, Deduct	-1.17	
For >1,000 To 2,000, Deduct	-2.35	
For >2,000, Deduct	-4.70	
33 01 30 79-0012 LF 18" Diameter Form and Fold Polyethylene Pipeliner, DR 35.....	146.64	
For DR 41 Pipe Liner, Deduct	-12.90	
For DR 50 Pipe Liner, Deduct	-25.80	
For Up To 75, Add	52.27	
For >75 To 150, Add	26.14	
For >500 To 1,000, Deduct	-1.32	
For >1,000 To 2,000, Deduct	-2.65	
For >2,000, Deduct	-5.30	
33 01 30 79-0013 LF 21" Diameter Form and Fold Polyethylene Pipeliner, DR 47.....	165.64	
For DR 50 Pipe Liner, Deduct	-21.98	
For DR 55 Pipe Liner, Deduct	-36.63	
For Up To 75, Add	57.98	
For >75 To 150, Add	28.99	
For >500 To 1,000, Deduct	-1.43	
For >1,000 To 2,000, Deduct	-2.87	
For >2,000, Deduct	-5.74	
33 01 30 79-0014 LF 24" Diameter Form and Fold Polyethylene Pipeliner, DR 55.....	201.40	
For DR 60 Pipe Liner, Deduct	-27.08	
For Up To 75, Add	67.40	
For >75 To 150, Add	33.70	
For >500 To 1,000, Deduct	-1.56	
For >1,000 To 2,000, Deduct	-3.13	
For >2,000, Deduct	-6.26	
33 01 30 79-0015 Form And Fold Polyvinyl Chloride (PVC) Pipeliner (33 01 30 79-0001)		
33 01 30 79-0016 LF 4" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	32.60	
For DR 26 Pipe Liner, Add	5.69	
For Up To 75, Add	19.31	
For >75 To 150, Add	9.66	
For >500 To 1,000, Deduct	-0.74	
For >1,000 To 2,000, Deduct	-1.48	
For >2,000, Deduct	-2.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0017 LF 6" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	38.85	
<i>For DR 26 Pipe Liner, Add</i>	7.07	
<i>For DR 35 Pipe Liner, Deduct</i>	-3.53	
<i>For Up To 75, Add</i>	21.54	
<i>For >75 To 150, Add</i>	10.77	
<i>For >500 To 1,000, Deduct</i>	-0.79	
<i>For >1,000 To 2,000, Deduct</i>	-1.59	
<i>For >2,000, Deduct</i>	-3.18	
33 01 30 79-0018 LF 8" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	42.88	
<i>For DR 26 Pipe Liner, Add</i>	7.85	
<i>For DR 35 Pipe Liner, Deduct</i>	-3.93	
<i>For Up To 75, Add</i>	23.50	
<i>For >75 To 150, Add</i>	11.75	
<i>For >500 To 1,000, Deduct</i>	-0.86	
<i>For >1,000 To 2,000, Deduct</i>	-1.72	
<i>For >2,000, Deduct</i>	-3.44	
33 01 30 79-0019 LF 10" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	59.62	
<i>For DR 26 Pipe Liner, Add</i>	11.78	
<i>For DR 35 Pipe Liner, Deduct</i>	-5.89	
<i>For DR 41 Pipe Liner, Deduct</i>	-11.78	
<i>For Up To 75, Add</i>	28.20	
<i>For >75 To 150, Add</i>	14.10	
<i>For >500 To 1,000, Deduct</i>	-0.94	
<i>For >1,000 To 2,000, Deduct</i>	-1.88	
<i>For >2,000, Deduct</i>	-3.76	
33 01 30 79-0020 LF 12" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	82.83	
<i>For DR 26 Pipe Liner, Add</i>	17.27	
<i>For DR 35 Pipe Liner, Deduct</i>	-8.63	
<i>For DR 41 Pipe Liner, Deduct</i>	-17.27	
<i>For Up To 75, Add</i>	34.45	
<i>For >75 To 150, Add</i>	17.23	
<i>For >500 To 1,000, Deduct</i>	-1.03	
<i>For >1,000 To 2,000, Deduct</i>	-2.06	
<i>For >2,000, Deduct</i>	-4.13	
33 01 30 79-0021 LF 15" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	112.98	
<i>For DR 35 Pipe Liner, Deduct</i>	-12.17	
<i>For DR 41 Pipe Liner, Deduct</i>	-24.33	
<i>For Up To 75, Add</i>	42.94	
<i>For >75 To 150, Add</i>	21.47	
<i>For >500 To 1,000, Deduct</i>	-1.17	
<i>For >1,000 To 2,000, Deduct</i>	-2.35	
<i>For >2,000, Deduct</i>	-4.70	
33 01 30 79-0022 LF 18" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 35.....	158.94	
<i>For DR 41 Pipe Liner, Deduct</i>	-14.13	
<i>For DR 50 Pipe Liner, Deduct</i>	-28.26	
<i>For Up To 75, Add</i>	54.73	
<i>For >75 To 150, Add</i>	27.37	
<i>For >500 To 1,000, Deduct</i>	-1.32	
<i>For >1,000 To 2,000, Deduct</i>	-2.65	
<i>For >2,000, Deduct</i>	-5.30	
33 01 30 79-0023 LF 21" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 47.....	179.25	
<i>For DR 50 Pipe Liner, Deduct</i>	-24.02	
<i>For DR 55 Pipe Liner, Deduct</i>	-40.03	
<i>For Up To 75, Add</i>	60.71	
<i>For >75 To 150, Add</i>	30.35	
<i>For >500 To 1,000, Deduct</i>	-1.43	
<i>For >1,000 To 2,000, Deduct</i>	-2.87	
<i>For >2,000, Deduct</i>	-5.74	
33 01 30 79-0024 LF 24" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 55.....	218.66	
<i>For DR 60 Pipe Liner, Deduct</i>	-29.67	
<i>For Up To 75, Add</i>	70.85	
<i>For >75 To 150, Add</i>	35.43	
<i>For >500 To 1,000, Deduct</i>	-1.56	
<i>For >1,000 To 2,000, Deduct</i>	-3.13	
<i>For >2,000, Deduct</i>	-6.26	

33 01 30 81 Manhole Rehabilitation (33 01 30)

33 01 30 81-0001	Restoration And Rehabilitation Of Manholes (33 01 30 81) Note: Work is in confined spaces.	
33 01 30 81-0002	Inspection And Ventilation System Set-up (33 01 30 81-0001)	
33 01 30 81-0003	EA Inspect Manhole.....	165.51
33 01 30 81-0004	EA 36" to 60" Diameter, Up To 2600', Installation And Maintenance Of Ventilation System	10,740.68
	Note: For internal inspection and repair of water mains.	
33 01 30 81-0005	EA Installation And Maintenance Of Ventilation System, 60" to 108" diameter to 2,600'.....	15,176.35
	Note: For internal inspection and repair of water mains	
33 01 30 81-0006	Manhole Seals (33 01 30 81-0001)	
33 01 30 81-0007	Internal Manhole Chimney Seals (33 01 30 81-0006) Note: Cretex.	
33 01 30 81-0008	EA 20" Internal Manhole Chimney Seal.....	459.94
33 01 30 81-0009	EA 22" Internal Manhole Chimney Seal.....	484.79
33 01 30 81-0010	EA 24" Internal Manhole Chimney Seal.....	497.22

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 81-0011 EA 26" Internal Manhole Chimney Seal.....	571.81	
33 01 30 81-0012 EA 28" Internal Manhole Chimney Seal.....	646.39	
33 01 30 81-0013 EA 30" Internal Manhole Chimney Seal.....	720.97	
33 01 30 81-0014 EA 36" Internal Manhole Chimney Seal.....	870.14	
33 01 30 81-0015 External Manhole Encapsulation (33 01 30 81-0006)		
Note: Wrapidseal.		
33 01 30 81-0016 EA 24" External Manhole Encapsulation.....	671.25	
33 01 30 81-0017 EA 30" External Manhole Encapsulation.....	708.54	
33 01 30 81-0018 EA 36" External Manhole Encapsulation.....	758.26	
33 01 30 81-0019 EA 42" External Manhole Encapsulation.....	820.42	
33 01 30 81-0020 EA 48" External Manhole Encapsulation.....	907.44	
33 01 30 81-0021 EA 54" External Manhole Encapsulation.....	1,006.87	
33 01 30 81-0022 EA 60" External Manhole Encapsulation.....	1,131.19	
33 01 30 81-0023 Manhole Crack Repair (33 01 30 81-0001)		
Note: Includes removing loose materials and cleaning.		
33 01 30 81-0024 LF Up To 1/4" Wide, Epoxy Grout Injection, Manhole Crack Repair.....	47.78	
33 01 30 81-0025 LF >1/4" To 1/2" Wide, Epoxy Grout Injection, Manhole Crack Repair.....	64.21	
33 01 30 81-0026 LF Up To 1/4" Wide, Urethane Grout Injection, Manhole Crack Repair.....	44.86	
33 01 30 81-0027 LF >1/4" To 1/2" Wide, Urethane Grout Injection, Manhole Crack Repair.....	60.70	
33 01 30 81-0028 Manhole Patching (33 01 30 81-0001)		
Note: Includes removing loose materials and cleaning.		
33 01 30 81-0029 SF Up To 1/4" Thick, Cementitious Grout, Manhole Patching.....	15.05	
33 01 30 81-0030 SF Up To 1/4" Thick, Epoxy Grout, Manhole Patching.....	30.35	
33 01 30 81-0031 Manhole Joint Restoration (33 01 30 81-0001)		
Note: Includes drilling holes at joints, fill joints with grout.		
33 01 30 81-0032 EA 3' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	1,786.06	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	210.19	
33 01 30 81-0033 EA 3-1/2' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	2,084.92	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	232.72	
33 01 30 81-0034 EA 4' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	2,381.42	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	255.25	
33 01 30 81-0035 EA 5' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	2,808.97	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	266.52	
33 01 30 81-0036 EA 6' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	3,235.35	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	277.78	
33 01 30 81-0037 Step Installation In Existing Manholes (33 01 30 81-0001)		
Note: Including drilling in existing concrete manhole, step and grout. Demolition cost includes removal of old step and patching holes.		
33 01 30 81-0038 EA Drill And Grout 7" x 9" Cast Iron Manhole Steps.....	105.97	19.32
33 01 30 81-0039 EA Drill And Grout 8" x 9" Cast Iron Manhole Steps.....	114.15	19.32
33 01 30 81-0040 EA Drill And Grout Galvanized Steel Manhole Step.....	92.87	19.32
33 01 30 81-0041 EA Bolt On Galvanized Steel Manhole Step.....	116.23	19.32
33 01 30 81-0042 EA Drill And Grout Aluminum Manhole Step.....	105.61	19.32
33 01 30 81-0043 EA Drill And Insert Polypropylene Manhole Step.....	56.05	15.46
33 01 30 81-0044 Invert Restoration (33 01 30 81-0001)		
Note: Includes removal of existing defective material and installation of new material.		
33 01 30 81-0045 Concrete Invert Restoration (33 01 30 81-0044)		
33 01 30 81-0046 EA 2' Diameter, Concrete Invert Restoration.....	347.65	
33 01 30 81-0047 EA 3' Diameter, Concrete Invert Restoration.....	389.03	
33 01 30 81-0048 EA 4' Diameter, Concrete Invert Restoration.....	430.41	
33 01 30 81-0049 EA 5' Diameter, Concrete Invert Restoration.....	471.79	
33 01 30 81-0050 EA 6' Diameter, Concrete Invert Restoration.....	595.92	
33 01 30 81-0051 SF Square Or Rectangular, Concrete Invert Restoration.....	34.23	
33 01 30 81-0052 Brick Invert Restoration (33 01 30 81-0044)		
33 01 30 81-0053 EA 2' Diameter, Brick Invert Restoration.....	530.66	
33 01 30 81-0054 EA 3' Diameter, Brick Invert Restoration.....	572.03	
33 01 30 81-0055 EA 4' Diameter, Brick Invert Restoration.....	613.41	
33 01 30 81-0056 EA 5' Diameter, Brick Invert Restoration.....	654.79	
33 01 30 81-0057 EA 6' Diameter, Brick Invert Restoration.....	696.17	
33 01 30 81-0058 SF Square Or Rectangular, Brick Invert Restoration.....	47.42	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 01 30 81-0059			Repair In-Kind Of Drainage Structures <small>(33 01 30 81)</small>		
<small>Note: For brick, concrete or concrete block catch basins, inlets, manholes, and other drainage structures. Includes replacing bricks or concrete blocks, concrete repair, sealing and repairing joints, excavation, backfilling, pavement removal, restoration of pavement and all tasks to perform interior and/or exterior repair in-kind. Sizes are inside dimensions. For other sizes, use closest size.</small>					
33 01 30 81-0060	VLF	2'	Diameter, Repair In-Kind Drainage Structure	571.64	
33 01 30 81-0061	VLF	3'	Diameter, Repair In-Kind Drainage Structure	857.46	
33 01 30 81-0062	VLF	4'	Diameter, Repair In-Kind Drainage Structure	1,143.36	
33 01 30 81-0063	VLF	5'	Diameter, Repair In-Kind Drainage Structure	1,429.10	
33 01 30 81-0064	VLF	6'	Diameter, Repair In-Kind Drainage Structure	1,714.93	
33 01 30 81-0065	VLF	2' x 2'	Repair In-Kind Drainage Structure	728.21	
33 01 30 81-0066	VLF	2' x 3'	Repair In-Kind Drainage Structure	910.26	
33 01 30 81-0067	VLF	2' x 4'	Repair In-Kind Drainage Structure	1,092.31	
33 01 30 81-0068	VLF	3' x 4'	Repair In-Kind Drainage Structure	1,274.36	
33 01 30 81-0069	VLF	4' x 4'	Repair In-Kind Drainage Structure	1,456.41	
33 01 30 81-0070	VLF	4' x 5'	Repair In-Kind Drainage Structure	1,638.46	
33 01 30 81-0071	VLF	4' x 6'	Repair In-Kind Drainage Structure	1,820.52	
33 01 30 81-0072	VLF	4' x 8'	Repair In-Kind Drainage Structure	2,184.62	
33 01 30 81-0073	VLF	>32 GSF,	Repair In-Kind Drainage Structure	2,548.72	

33 01 30 82 Epoxy Lining for Concrete Manholes (33 01 30)

33 01 30 82-0001			Epoxy Manhole Restoration, Interior <small>(33 01 30 82)</small>		
33 01 30 82-0002	VLF	60 Mil Epoxy Restoration Of 3' Diameter Manhole Interior		295.82	
		<i>For 80 Mil Material, Add</i>		33.12	
		<i>For 100 Mil Material, Add</i>		66.25	
		<i>For 125 Mil Material, Add</i>		102.90	
		<i>For 150 Mil Material, Add</i>		139.55	
		<i>For 200 Mil Material, Add</i>		200.19	
		<i>For 2 To 5 Manholes, Deduct</i>		-21.13	
		<i>For 6 To 10 Manholes, Deduct</i>		-34.86	
		<i>For >10 Manholes, Deduct</i>		-69.72	
33 01 30 82-0003	VLF	60 Mil Epoxy Restoration Of 3-1/2' Diameter Manhole Interior		359.25	
		<i>For 80 Mil Material, Add</i>		39.72	
		<i>For 100 Mil Material, Add</i>		79.43	
		<i>For 125 Mil Material, Add</i>		123.27	
		<i>For 150 Mil Material, Add</i>		167.10	
		<i>For 200 Mil Material, Add</i>		239.28	
		<i>For 2 To 5 Manholes, Deduct</i>		-25.71	
		<i>For 6 To 10 Manholes, Deduct</i>		-42.43	
		<i>For >10 Manholes, Deduct</i>		-84.87	
33 01 30 82-0004	VLF	60 Mil Epoxy Restoration Of 4' Diameter Manhole Interior		394.43	
		<i>For 80 Mil Material, Add</i>		44.16	
		<i>For 100 Mil Material, Add</i>		88.33	
		<i>For 125 Mil Material, Add</i>		137.20	
		<i>For 150 Mil Material, Add</i>		186.07	
		<i>For 200 Mil Material, Add</i>		266.91	
		<i>For 2 To 5 Manholes, Deduct</i>		-28.17	
		<i>For 6 To 10 Manholes, Deduct</i>		-46.48	
		<i>For >10 Manholes, Deduct</i>		-92.96	
33 01 30 82-0005	VLF	60 Mil Epoxy Restoration Of 5' Diameter Manhole Interior		493.08	
		<i>For 80 Mil Material, Add</i>		55.22	
		<i>For 100 Mil Material, Add</i>		110.44	
		<i>For 125 Mil Material, Add</i>		171.55	
		<i>For 150 Mil Material, Add</i>		232.66	
		<i>For 200 Mil Material, Add</i>		333.74	
		<i>For 2 To 5 Manholes, Deduct</i>		-35.22	
		<i>For 6 To 10 Manholes, Deduct</i>		-58.10	
		<i>For >10 Manholes, Deduct</i>		-116.21	
33 01 30 82-0006	VLF	60 Mil Epoxy Restoration Of 6' Diameter Manhole Interior		591.68	
		<i>For 80 Mil Material, Add</i>		66.26	
		<i>For 100 Mil Material, Add</i>		132.52	
		<i>For 125 Mil Material, Add</i>		205.85	
		<i>For 150 Mil Material, Add</i>		279.17	
		<i>For 200 Mil Material, Add</i>		400.46	
		<i>For 2 To 5 Manholes, Deduct</i>		-42.26	
		<i>For 6 To 10 Manholes, Deduct</i>		-69.72	
		<i>For >10 Manholes, Deduct</i>		-139.45	

33 01 30 83 Lining for Concrete Manholes (33 01 30)

33 01 30 83-0001			Manhole Lining <small>(33 01 30 83)</small>		
<small>Note: Includes power washing and cleaning of manhole interiors.</small>					
33 01 30 83-0002			Cementitious Manhole Restoration, Interior <small>(33 01 30 83-0001)</small>		
33 01 30 83-0003	VLF	1/2"	Cementitious Restoration On 3' Diameter Manhole Interior	137.26	
			<i>For Each Additional 1/2" Thick Material, Add</i>	37.91	
			<i>For 2 To 5 Manholes, Deduct</i>	-9.54	
			<i>For 6 To 10 Manholes, Deduct</i>	-15.65	
			<i>For >10 Manholes, Deduct</i>	-31.29	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 83-0004 VLF 1/2" Cementitious Restoration On 3-1/2' Diameter Manhole Interior.....	159.20	
For Each Additional 1/2" Thick Material, Add	44.14	
For 2 To 5 Manholes, Deduct	-11.06	
For 6 To 10 Manholes, Deduct	-18.14	
For >10 Manholes, Deduct	-36.27	
33 01 30 83-0005 VLF 1/2" Cementitious Restoration On 4' Diameter Manhole Interior.....	181.13	
For Each Additional 1/2" Thick Material, Add	50.36	
For 2 To 5 Manholes, Deduct	-12.58	
For 6 To 10 Manholes, Deduct	-20.63	
For >10 Manholes, Deduct	-41.25	
33 01 30 83-0006 VLF 1/2" Cementitious Restoration On 5' Diameter Manhole Interior.....	213.98	
For Each Additional 1/2" Thick Material, Add	61.90	
For 2 To 5 Manholes, Deduct	-14.78	
For 6 To 10 Manholes, Deduct	-24.22	
For >10 Manholes, Deduct	-48.43	
33 01 30 83-0007 VLF 1/2" Cementitious Restoration On 6' Diameter Manhole Interior.....	235.09	
For Each Additional 1/2" Thick Material, Add	71.89	
For 2 To 5 Manholes, Deduct	-16.12	
For 6 To 10 Manholes, Deduct	-26.36	
For >10 Manholes, Deduct	-52.73	
33 01 30 83-0008 Polyurethane Manhole Restoration, Interior (33 01 30 83-0001)		
33 01 30 83-0009 VLF 60 Mil Polyurethane Restoration Of 3' Diameter Manhole Interior	268.28	
For 80 Mil Material, Add	23.94	
For 100 Mil Material, Add	47.89	
For 125 Mil Material, Add	73.07	
For 150 Mil Material, Add	98.24	
For 200 Mil Material, Add	135.93	
For 2 To 5 Manholes, Deduct	-19.75	
For 6 To 10 Manholes, Deduct	-32.80	
For >10 Manholes, Deduct	-65.59	
33 01 30 83-0010 VLF 60 Mil Polyurethane Restoration Of 3-1/2' Diameter Manhole Interior	327.07	
For 80 Mil Material, Add	28.99	
For 100 Mil Material, Add	57.98	
For 125 Mil Material, Add	88.41	
For 150 Mil Material, Add	118.83	
For 200 Mil Material, Add	164.20	
For 2 To 5 Manholes, Deduct	-24.10	
For 6 To 10 Manholes, Deduct	-40.02	
For >10 Manholes, Deduct	-80.04	
33 01 30 83-0011 VLF 60 Mil Polyurethane Restoration Of 4' Diameter Manhole Interior	357.71	
For 80 Mil Material, Add	31.93	
For 100 Mil Material, Add	63.85	
For 125 Mil Material, Add	97.42	
For 150 Mil Material, Add	130.99	
For 200 Mil Material, Add	181.23	
For 2 To 5 Manholes, Deduct	-26.34	
For 6 To 10 Manholes, Deduct	-43.73	
For >10 Manholes, Deduct	-87.45	
33 01 30 83-0012 VLF 60 Mil Polyurethane Restoration Of 5' Diameter Manhole Interior	447.13	
For 80 Mil Material, Add	39.91	
For 100 Mil Material, Add	79.81	
For 125 Mil Material, Add	121.77	
For 150 Mil Material, Add	163.73	
For 200 Mil Material, Add	226.53	
For 2 To 5 Manholes, Deduct	-32.92	
For 6 To 10 Manholes, Deduct	-54.66	
For >10 Manholes, Deduct	-109.32	
33 01 30 83-0013 VLF 60 Mil Polyurethane Restoration Of 6' Diameter Manhole Interior	536.55	
For 80 Mil Material, Add	47.89	
For 100 Mil Material, Add	95.77	
For 125 Mil Material, Add	146.12	
For 150 Mil Material, Add	196.47	
For 200 Mil Material, Add	271.83	
For 2 To 5 Manholes, Deduct	-39.50	
For 6 To 10 Manholes, Deduct	-65.59	
For >10 Manholes, Deduct	-131.18	
33 01 30 83-0014 Multiplexx™ PVC Cured-In-Place (CIP) Lining Manhole Restoration, Interior (33 01 30 83-0001)		
33 01 30 83-0015 VLF 3' Diameter, Multiplexx™ PVC Cured-In-Place (CIP) Manhole Liner For Existing Manhole	420.32	
For 2 To 5 Manholes, Deduct	-24.89	
For 6 To 10 Manholes, Deduct	-39.27	
For >10 Manholes, Deduct	-78.54	
33 01 30 83-0016 VLF 3-1/2' Diameter, Multiplexx™ PVC Cured-In-Place (CIP) Manhole Liner For Existing Manhole	514.68	
For 2 To 5 Manholes, Deduct	-30.47	
For 6 To 10 Manholes, Deduct	-48.07	
For >10 Manholes, Deduct	-96.13	
33 01 30 83-0017 VLF 4' Diameter, Multiplexx™ PVC Cured-In-Place (CIP) Manhole Liner For Existing Manhole	603.57	
For 2 To 5 Manholes, Deduct	-35.34	
For 6 To 10 Manholes, Deduct	-55.59	
For >10 Manholes, Deduct	-111.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 83-0018 VLF 5' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole <i>For 2 To 5 Manholes, Deduct</i> <i>For 6 To 10 Manholes, Deduct</i> <i>For >10 Manholes, Deduct</i>	756.78 -44.29 -69.67 -139.33	
33 01 30 83-0019 VLF 6' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole <i>For 2 To 5 Manholes, Deduct</i> <i>For 6 To 10 Manholes, Deduct</i> <i>For >10 Manholes, Deduct</i>	909.98 -53.24 -83.74 -167.48	
33 01 30 86 Manhole Rim Adjustment (33 01 30)		
33 01 30 86-0001 Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers (33 01 30 86)		
33 01 30 86-0002 Up To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers (33 01 30 86-0001)		
33 01 30 86-0003 EA Up To 2" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	321.99	
33 01 30 86-0004 EA >2" To 3" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	362.03	
33 01 30 86-0005 EA >3" To 4" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	398.43	
33 01 30 86-0006 EA >4" To 5" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	439.68	
33 01 30 86-0007 EA >5" To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	473.27	
33 01 30 86-0008 Up To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser (33 01 30 86-0001)		
33 01 30 86-0009 EA Up To 2" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	378.01	
33 01 30 86-0010 EA >2 To 3" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	411.97	
33 01 30 86-0011 EA >3" To 4" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	454.64	
33 01 30 86-0012 EA >4" To 5" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	495.89	
33 01 30 86-0013 EA >5" To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	535.69	
33 01 30 86-0014 Up To 6" Rise, >32-1/2" To 36" Diameter, Adjustable Or Solid Manhole Risers (33 01 30 86-0001)		
33 01 30 86-0015 EA Up To 4" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers.....	434.14	
33 01 30 86-0016 EA >4" To 5" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers.....	458.78	
33 01 30 86-0017 EA >5" To 6" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers.....	485.27	
33 01 30 86-0018 >6" To 12" Rise, >32-1/2" To 36" Diameter, Solid, Cast Iron, Manhole Cover Risers (33 01 30 86-0001)		
33 01 30 86-0019 EA >6" To 6-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	528.15	
33 01 30 86-0020 EA 7" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	574.33	
33 01 30 86-0021 EA 7-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	621.27	
33 01 30 86-0022 EA 8" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	658.74	
33 01 30 86-0023 EA 9" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	715.74	
33 01 30 86-0024 EA 10" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	767.62	
33 01 30 86-0025 EA 11" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	818.46	
33 01 30 86-0026 EA 12" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	870.41	
33 01 30 86-0027 >12" Rise, Solid Manhole Risers (33 01 30 86)		
33 01 30 86-0028 Precast Concrete Manhole Riser (33 01 30 86-0027)		
33 01 30 86-0029 VLF Up To 26" Diameter Precast Concrete Manhole Riser.....	114.02	
33 01 30 86-0030 VLF >26" To 36" Diameter Precast Concrete Manhole Riser.....	135.79	
33 01 30 86-0031 VLF >36" To 48" Diameter Precast Concrete Manhole Riser.....	155.21	
33 01 30 86-0032 VLF >48" To 60" Diameter Precast Concrete Manhole Riser.....	315.94	
33 01 30 86-0033 VLF >60" To 72" Diameter Precast Concrete Manhole Riser.....	462.89	
33 01 30 89 By-Pass Piping and Pumping of Sewer Utilities (33 01 30)		
33 01 30 89-0001 Set-Up By-Pass Pumping Unit (33 01 30 89) Note: Excludes pump and hose rental. See CSI section 01 22 23 00-0991 for pump rental, 01 22 23 00-1024 for suction hose, 01 22 23 00-1043 for discharge hose.		
33 01 30 89-0002 EA Set-up By-Pass Pumping Unit.....	1,738.48	
33 01 30 89-0003 EA Re-Set Up/Move By-Pass Pumping Unit.....	869.24	
33 01 30 89-0004 By-Pass Pumping (33 01 30 89) Note: Excludes pump rental. See CSI section 01 22 23 00-0991 for pump rental.		
33 01 30 89-0005 DAY Maintain And Operate By-Pass Pumping Unit.....	434.62	
33 01 30 89-0006 WK Maintain And Operate By-Pass Pumping Unit.....	2,173.10	
33 01 30 89-0007 MO Maintain And Operate By-Pass Pumping Unit.....	9,127.01	
33 01 30 89-0008 Temporary Bypass And Service Lines (33 01 30 89) Note: Laid on ground, includes fittings and connections. Remove after use.		
33 01 30 89-0009 Temporary Water Service Lines (33 01 30 89-0008) Note: Laid on ground, includes fittings, connections and chlorination prior to each use. Remove after use.		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 89-0010	LF	1/2" Temporary Service Hose With Fittings..... Note: Includes removal after use.	2.63	
33 01 30 89-0011	LF	3/4" Temporary Service Hose With Fittings..... Note: Includes removal after use.	3.34	
33 01 30 89-0012	LF	1" Temporary Service Hose With Fittings..... Note: Includes removal after use.	3.86	
33 01 30 89-0013	LF	1-1/2" Temporary Service Hose With Fittings Note: Includes removal after use.	4.62	
33 01 30 89-0014	LF	2" Temporary Service Hose With Fittings..... Note: Includes removal after use.	5.65	
33 01 30 89-0015	EA	Temporary Service Valve Assembly At Fire Hydrant Note: Includes removal after use.	291.83	
33 01 30 89-0016		Temporary Bypass Water Main Lines (33 01 30 89-0008) Note: Laid on ground, includes fittings, connections and chlorination prior to each use. Remove after use.		
33 01 30 89-0017	LF	2" Temporary Bypass Pipe With Fittings..... Note: Includes removal after use.	5.92	
		For >500 To 1,000, Deduct	-0.41	
		For >1,000 To 5,000, Deduct	-0.81	
		For >5,000, Deduct	-1.35	
33 01 30 89-0018	LF	4" Temporary Bypass Pipe With Fittings Note: Includes removal after use.	7.52	
		For >500 To 1,000, Deduct	-0.52	
		For >1,000 To 5,000, Deduct	-1.04	
		For >5,000, Deduct	-1.74	
33 01 30 89-0019	LF	6" Temporary Bypass Pipe With Fittings Note: Includes removal after use.	9.27	
		For >500 To 1,000, Deduct	-0.61	
		For >1,000 To 5,000, Deduct	-1.22	
		For >5,000, Deduct	-2.03	
33 01 30 89-0020	LF	8" Temporary Bypass Pipe With Fittings Note: Includes removal after use.	11.74	
		For >500 To 1,000, Deduct	-0.73	
		For >1,000 To 5,000, Deduct	-1.46	
		For >5,000, Deduct	-2.43	
33 01 30 89-0021		Piping Protection For Temporary Water Line (33 01 30 89-0008)		
33 01 30 89-0022	LF	Cold Mix For Temporary Pipe Note: Install along each side of pipe edge. Unit of measure "LF" is for length of pipe and includes both sides of pipe.	2.66	
33 01 30 89-0023		Drill Meter Cover For Temporary Water Line (33 01 30 89-0008)		
33 01 30 89-0024	EA	Drill Meter Cover For Temporary Bypass Pipe.....	14.60	
33 01 34		Operation and Maintenance of Onsite Wastewater Disposal Systems (33 01)		
33 01 34 13		Septic Tank Solids Removal (33 01 34)		
33 01 34 13-0001		Pump Out Septic Tanks (33 01 34 13)		
33 01 34 13-0002	GAL	Pump Out Septic Tank And Dispose.....	0.61	
33 01 40		Operation and Maintenance of Stormwater Utilities (33 01)		
33 01 40 00-0001		Solid Wall High Density Polyethylene (HDPE) Culvert Slip-Lining System (33 01 40) Note: Snap-Tite slip-lining system. Excludes culvert cleaning and grouting. See CSI section 33 01 30 41-0018 for culvert cleaning, 33 01 40 00-0046 for flowable fill grout.		
33 01 40 00-0002	LF	6.625" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... For Profile Wall (Corrugated), Deduct	19.47 -2.98	
33 01 40 00-0003	LF	8.625" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... For Profile Wall (Corrugated), Deduct	29.05 -4.66	
33 01 40 00-0004	LF	10.75" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... For Profile Wall (Corrugated), Deduct	27.36 -4.13	
33 01 40 00-0005	LF	12.75" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... For Profile Wall (Corrugated), Deduct	36.07 -5.59	
33 01 40 00-0006	LF	14" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... For Profile Wall (Corrugated), Deduct	41.32 -6.26	
33 01 40 00-0007	LF	16" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... For Profile Wall (Corrugated), Deduct	49.67 -7.79	
33 01 40 00-0008	LF	18" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... For Profile Wall (Corrugated), Deduct	62.43 -9.81	
33 01 40 00-0009	LF	20" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... For Profile Wall (Corrugated), Deduct	76.48 -12.23	
33 01 40 00-0010	LF	22" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... For Profile Wall (Corrugated), Deduct	88.17 -14.19	
33 01 40 00-0011	LF	24" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... For Profile Wall (Corrugated), Deduct	100.83 -16.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 40 00-0012 LF 26" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... <i>For Profile Wall (Corrugated), Deduct</i>	115.00 -18.79	
33 01 40 00-0013 LF 28" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... <i>For Profile Wall (Corrugated), Deduct</i>	129.65 -21.34	
33 01 40 00-0014 LF 30" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... <i>For Profile Wall (Corrugated), Deduct</i>	150.00 -25.02	
33 01 40 00-0015 LF 32" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... <i>For Profile Wall (Corrugated), Deduct</i>	171.31 -28.90	
33 01 40 00-0016 LF 34" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... <i>For Profile Wall (Corrugated), Deduct</i>	189.26 -32.11	
33 01 40 00-0017 LF 36" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... <i>For Profile Wall (Corrugated), Deduct</i>	207.19 -35.32	
33 01 40 00-0018 LF 39.37" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... <i>For Profile Wall (Corrugated), Deduct</i>	236.58 -40.81	
33 01 40 00-0019 LF 42" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... <i>For Profile Wall (Corrugated), Deduct</i>	265.97 -46.30	
33 01 40 00-0020 LF 48" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... <i>For Profile Wall (Corrugated), Deduct</i>	341.33 -60.99	
33 01 40 00-0021 LF 54" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... <i>For Profile Wall (Corrugated), Deduct</i>	415.74 -75.49	
33 01 40 00-0022 LF 57" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... <i>For Profile Wall (Corrugated), Deduct</i>	460.36 -84.03	
33 01 40 00-0023 LF 60" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... <i>For Profile Wall (Corrugated), Deduct</i>	504.58 -92.50	
33 01 40 00-0024 LF 63" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... <i>For Profile Wall (Corrugated), Deduct</i>	549.63 -101.12	
33 01 40 00-0025 LF 66" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... <i>For Profile Wall (Corrugated), Deduct</i>	616.82 -113.99	
33 01 40 00-0026 LF 72" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... <i>For Profile Wall (Corrugated), Deduct</i>	655.06 -120.87	
33 01 40 00-0027 LF 78" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... <i>For Profile Wall (Corrugated), Deduct</i>	696.67 -128.24	
33 01 40 00-0028 LF 84" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... <i>For Profile Wall (Corrugated), Deduct</i>	756.07 -139.35	
33 01 40 00-0029 LF 90" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... <i>For Profile Wall (Corrugated), Deduct</i>	774.15 -142.20	
33 01 40 00-0030 LF 96" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5..... <i>For Profile Wall (Corrugated), Deduct</i>	785.14 -143.44	
33 01 40 00-0031 LF 16.5 x 23" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert <i>For Profile Wall (Corrugated), Deduct</i>	101.75 -16.48	
33 01 40 00-0032 LF 17" x 26" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert <i>For Profile Wall (Corrugated), Deduct</i>	114.17 -18.25	
33 01 40 00-0033 LF 18" x 29" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert <i>For Profile Wall (Corrugated), Deduct</i>	125.88 -23.45	
33 01 40 00-0034 LF 19" x 32" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert <i>For Profile Wall (Corrugated), Deduct</i>	145.24 -23.45	
33 01 40 00-0035 LF 21" x 33.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert <i>For Profile Wall (Corrugated), Deduct</i>	159.31 -25.75	
33 01 40 00-0036 LF 22.5 x 36" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert <i>For Profile Wall (Corrugated), Deduct</i>	178.52 -29.09	
33 01 40 00-0037 LF 26" x 37" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert <i>For Profile Wall (Corrugated), Deduct</i>	198.75 -32.62	
33 01 40 00-0038 LF 30" x 41" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert <i>For Profile Wall (Corrugated), Deduct</i>	237.87 -39.43	
33 01 40 00-0039 LF 31" x 46" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert <i>For Profile Wall (Corrugated), Deduct</i>	267.00 -49.89	
33 01 40 00-0040 LF 34" x 48.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert <i>For Profile Wall (Corrugated), Deduct</i>	295.25 -63.18	
33 01 40 00-0041 LF 39" x 55.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert <i>For Profile Wall (Corrugated), Deduct</i>	364.24 -77.07	
33 01 40 00-0042 LF 43" x 63" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert <i>For Profile Wall (Corrugated), Deduct</i>	436.24 -101.03	
33 01 40 00-0043 LF 48" x 75" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert <i>For Profile Wall (Corrugated), Deduct</i>	556.07 -101.03	
33 01 40 00-0044 LF 52" x 72.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert <i>For Profile Wall (Corrugated), Deduct</i>	563.71 -101.03	
33 01 40 00-0045 LF 58" x 67.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert <i>For Profile Wall (Corrugated), Deduct</i>	563.71 -101.03	
33 01 40 00-0046 Pumped Grouting For Slip-Lining Systems <small>(33 01 40)</small> Note: Includes all materials, embedded piping, forms, labor and pumping equipment necessary to place and install grout.		
33 01 40 00-0047 CY Flowable Fill Grout, For Pipe Relines.....	576.85	

33 05 Common Work Results for Utilities (33)

33 05 07 Trenchless Installation of Utility Piping (33 05)

33 Utilities**33 05 Common Work Results for Utilities****33 05 07 Trenchless Installation of Utility Piping**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**33 05 07 13 Utility Directional Drilling (33 05 07)****33 05 07 13-0001****Horizontal Augering (33 05 07 13)**

Note: Excludes starting or receiving pits, dewatering, cost of casing pipe or spoils removal.

33 05 07 13-0002	LF	Up To 2" Diameter Horizontal Hand Augering.....	22.42
33 05 07 13-0003	LF	3" Diameter Horizontal Hand Augering	27.06
33 05 07 13-0004	LF	4" Diameter Horizontal Hand Augering	37.11
33 05 07 13-0005	LF	6" Diameter Horizontal Hand Augering	47.94
33 05 07 13-0006	LF	8" Diameter Horizontal Augering	87.40
33 05 07 13-0007	LF	10" Diameter Horizontal Augering.....	127.50
33 05 07 13-0008	LF	12" Diameter Horizontal Augering.....	153.21
33 05 07 13-0009	LF	16" Diameter Horizontal Augering.....	183.03
33 05 07 13-0010	LF	20" Diameter Horizontal Augering.....	316.69
33 05 07 13-0011	LF	24" Diameter Horizontal Augering.....	396.99
33 05 07 13-0012	LF	30" Diameter Horizontal Augering.....	489.66
33 05 07 13-0013	LF	36" Diameter Horizontal Augering.....	559.45
33 05 07 13-0014	LF	42" Diameter Horizontal Augering.....	722.94
33 05 07 13-0015	LF	48" Diameter Horizontal Augering.....	778.98
33 05 07 13-0016	LF	54" Diameter Horizontal Augering.....	847.18
33 05 07 13-0017	LF	60" Diameter Horizontal Augering.....	888.17
33 05 07 13-0018	EA	8" To 20" Horizontal Augering Minimum Set-up Charge	3,701.57
		Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	
33 05 07 13-0019	EA	>20" To 36" Horizontal Augering Minimum Set-up Charge	5,033.89
		Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	
33 05 07 13-0020	EA	>36" Horizontal Augering Minimum Set-up Charge	7,380.12
		Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	

33 05 07 13-0021**Horizontal Directional Boring (33 05 07 13)**

Note: Excludes receiving pits or dewatering or cost of casing pipe.

33 05 07 13-0022	LF	Up To 1-1/2" Diameter Directional Boring For Horizontal Pipe, Underground.....	12.10
		<i>For Horizontal Boring Through Rock, Add</i>	8.47
33 05 07 13-0023	LF	2" Diameter Directional Boring For Horizontal Pipe, Underground.....	18.15
		<i>For Horizontal Boring Through Rock, Add</i>	12.71
33 05 07 13-0024	LF	2-1/2" Diameter Directional Boring For Horizontal Pipe, Underground	25.21
		<i>For Horizontal Boring Through Rock, Add</i>	17.65
33 05 07 13-0025	LF	3" Diameter Directional Boring For Horizontal Pipe, Underground.....	31.26
		<i>For Horizontal Boring Through Rock, Add</i>	21.88
33 05 07 13-0026	LF	4" Diameter Directional Boring For Horizontal Pipe, Underground.....	37.30
		<i>For Horizontal Boring Through Rock, Add</i>	26.11
33 05 07 13-0027	LF	5" Diameter Directional Boring For Horizontal Pipe, Underground.....	43.35
		<i>For Horizontal Boring Through Rock, Add</i>	30.35
33 05 07 13-0028	LF	6" Diameter Directional Boring For Horizontal Pipe, Underground.....	50.41
		<i>For Horizontal Boring Through Rock, Add</i>	35.29
33 05 07 13-0029	LF	8" Diameter Directional Boring For Horizontal Pipe, Underground.....	61.69
		<i>For Horizontal Boring Through Rock, Add</i>	43.18
33 05 07 13-0030	LF	10" Diameter Directional Boring For Horizontal Pipe, Underground.....	66.84
		<i>For Horizontal Boring Through Rock, Add</i>	46.79
33 05 07 13-0031	LF	12" Diameter Directional Boring For Horizontal Pipe, Underground.....	71.98
		<i>For Horizontal Boring Through Rock, Add</i>	50.39
33 05 07 13-0032	LF	18" Diameter Directional Boring For Horizontal Pipe, Underground.....	149.09
		<i>For Horizontal Boring Through Rock, Add</i>	104.36
33 05 07 13-0033	LF	24" Diameter Directional Boring For Horizontal Pipe, Underground.....	234.54
		<i>For Horizontal Boring Through Rock, Add</i>	164.18
33 05 07 13-0034	LF	30" Diameter Directional Boring For Horizontal Pipe, Underground.....	357.52
		<i>For Horizontal Boring Through Rock, Add</i>	250.26
33 05 07 13-0035	LF	36" Diameter Directional Boring For Horizontal Pipe, Underground.....	572.03
		<i>For Horizontal Boring Through Rock, Add</i>	400.42
33 05 07 13-0036	EA	Up To 6" Horizontal Directional Boring Minimum Set-up Charge	3,226.29
		Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	
33 05 07 13-0037	EA	>6" To 18" Horizontal Directional Boring Minimum Set-up Charge	3,701.57
		Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	
33 05 07 13-0038	EA	>18" To 36" Horizontal Directional Boring Minimum Set-up Charge	5,033.89
		Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	

33 05 07 23 Utility Boring and Jacking (33 05 07)**33 05 07 23-0001****Horizontal Jacking (33 05 07 23)**

Note: Includes cost of steel casing pipe, excludes dewatering and excavation for jacking pit or receiving pit.

33 05 07 23-0002	LF	Up To 2" Diameter Horizontal Jacking	51.57
		<i>For Horizontal Jacking Through Rock, Add</i>	27.74
33 05 07 23-0003	LF	3" Diameter Horizontal Jacking	61.94
		<i>For Horizontal Jacking Through Rock, Add</i>	33.48
33 05 07 23-0004	LF	4" Diameter Horizontal Jacking	84.04
		<i>For Horizontal Jacking Through Rock, Add</i>	45.91
33 05 07 23-0005	LF	6" Diameter Horizontal Jacking	108.60
		<i>For Horizontal Jacking Through Rock, Add</i>	59.31



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 07 23-0006 LF 8" Diameter Horizontal Jacking <i>For Horizontal Jacking Through Rock, Add</i>	147.62 81.31	
33 05 07 23-0007 LF 10" Diameter Horizontal Jacking <i>For Horizontal Jacking Through Rock, Add</i>	216.13 118.63	
33 05 07 23-0008 LF 12" Diameter Horizontal Jacking <i>For Horizontal Jacking Through Rock, Add</i>	260.06 142.55	
33 05 07 23-0009 LF 16" Diameter Horizontal Jacking <i>For Horizontal Jacking Through Rock, Add</i>	310.55 170.30	
33 05 07 23-0010 LF 20" Diameter Horizontal Jacking <i>For Horizontal Jacking Through Rock, Add</i>	499.34 295.61	
33 05 07 23-0011 LF 24" Diameter Horizontal Jacking <i>For Horizontal Jacking Through Rock, Add</i>	745.20 331.75	
33 05 07 23-0012 LF 30" Diameter Horizontal Jacking <i>For Horizontal Jacking Through Rock, Add</i>	878.18 409.65	
33 05 07 23-0013 LF 36" Diameter Horizontal Jacking <i>For Horizontal Jacking Through Rock, Add</i>	994.66 468.40	
33 05 07 23-0014 LF 42" Diameter Horizontal Jacking <i>For Horizontal Jacking Through Rock, Add</i>	1,069.81 505.81	
33 05 07 23-0015 LF 48" Diameter Horizontal Jacking <i>For Horizontal Jacking Through Rock, Add</i>	1,158.35 545.00	
33 05 07 23-0016 LF 54" Diameter Horizontal Jacking <i>For Horizontal Jacking Through Rock, Add</i>	1,243.29 593.14	
33 05 07 23-0017 EA Up To 6" Horizontal Jacking Minimum Set-up Charge <i>Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.</i>	3,226.29	
33 05 07 23-0018 EA >6" To 20" Horizontal Jacking Minimum Set-up Charge <i>Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.</i>	3,701.57	
33 05 07 23-0019 EA >20" To 36" Horizontal Jacking Minimum Set-up Charge <i>Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.</i>	5,033.89	
33 05 07 23-0020 EA >36" Horizontal Jacking Minimum Set-up Charge <i>Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.</i>	7,380.12	

33 05 07 24 Casing Piping for Utility Jacking (33 05 07)

33 05 07 24-0001 Casing Pipe (33 05 07 24) <i>Note: Casing pipe is pulled back from hook on boring auger through slurry. Costs are installed costs. Excludes boring.</i>		
33 05 07 24-0002 Steel Pipe (33 05 07 24-0001)		
33 05 07 24-0003 LF 1-1/2" Steel Pipe Pull In Place By Boring Machine <i>Note: Includes pipe welding.</i>	12.35	
33 05 07 24-0004 LF 2" Steel Pipe Pull In Place By Boring Machine <i>Note: Includes pipe welding.</i>	13.12	
33 05 07 24-0005 LF 2-1/2" Steel Pipe Pull In Place By Boring Machine <i>Note: Includes pipe welding.</i>	14.13	
33 05 07 24-0006 LF 3" Steel Pipe Pull In Place By Boring Machine <i>Note: Includes pipe welding.</i>	15.17	
33 05 07 24-0007 LF 4" Steel Pipe Pull In Place By Boring Machine <i>Note: Includes pipe welding.</i>	18.99	
33 05 07 24-0008 LF 5" Steel Pipe Pull In Place By Boring Machine <i>Note: Includes pipe welding.</i>	21.37	
33 05 07 24-0009 LF 6" Steel Pipe Pull In Place By Boring Machine <i>Note: Includes pipe welding.</i>	23.76	
33 05 07 24-0010 Polyethylene Pipe (33 05 07 24-0001)		
33 05 07 24-0011 LF 3/4" Polyethylene Pipe Pull In Place By Boring Machine <i>Note: Includes pipe welding.</i>	4.84	
33 05 07 24-0012 LF 1" Polyethylene Pipe Pull In Place By Boring Machine <i>Note: Includes pipe welding.</i>	5.32	
33 05 07 24-0013 LF 1-1/4" Polyethylene Pipe Pull In Place By Boring Machine <i>Note: Includes pipe welding.</i>	5.78	
33 05 07 24-0014 LF 1-1/2" Polyethylene Pipe Pull In Place By Boring Machine <i>Note: Includes pipe welding.</i>	6.17	
33 05 07 24-0015 LF 2" Polyethylene Pipe Pull In Place By Boring Machine <i>Note: Includes pipe welding.</i>	6.60	
33 05 07 24-0016 LF 2-1/2" Polyethylene Pipe Pull In Place By Boring Machine <i>Note: Includes pipe welding.</i>	7.05	
33 05 07 24-0017 LF 3" Polyethylene Pipe Pull In Place By Boring Machine <i>Note: Includes pipe welding.</i>	7.50	
33 05 07 24-0018 LF 4" Polyethylene Pipe Pull In Place By Boring Machine <i>Note: Includes pipe welding.</i>	9.06	
33 05 07 24-0019 LF 5" Polyethylene Pipe Pull In Place By Boring Machine <i>Note: Includes pipe welding.</i>	10.00	
33 05 07 24-0020 LF 6" Polyethylene Pipe Pull In Place By Boring Machine <i>Note: Includes pipe welding.</i>	10.96	
33 05 07 24-0021 LF 8" Polyethylene Pipe Pull In Place By Boring Machine <i>Note: Includes pipe welding.</i>	14.19	
33 05 07 24-0022 LF 10" Polyethylene Pipe Pull In Place By Boring Machine <i>Note: Includes pipe welding.</i>	19.20	

33 Utilities**33 05 Common Work Results for Utilities****33 05 07 Trenchless Installation of Utility Piping**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 05 09	Piping Specials for Utilities ^(33 05)		
33 05 09 13	Couplings for Utility Piping ^(33 05 09)		
	See CSI section 33 42 11 00-0058 for couplings.		
33 05 09 23	Adapters for Utility Piping ^(33 05 09)		
	See CSI section 33 14 13 53-0222 for ductile iron body adapters, 33 14 13 53-0229 for steel body adapters.		
33 05 09 33	Thrust Restraint for Utility Piping ^(33 05 09)		
	See CSI section 33 14 13 13-0547 for mechanical restraints, 33 14 13 13-0582 for flanged restraints, 33 14 13 13-1154 for slip-on restraints, 33 14 13 13-1170 for slip-on restraint harnesses.		
33 05 16	Cast-Iron Utility Pipe ^(33 05)		
	See CSI section 22 13 16 00-0019 for cast iron utility piping.		
33 05 17	Copper Utility Pipe and Tubing ^(33 05)		
	See CSI section 33 14 13 39-0000 for copper utility piping.		
33 05 19	Ductile-Iron Utility Pipe ^(33 05)		
	See CSI section 33 14 13 13-0000 for ductile iron utility piping.		
33 05 24	Steel Utility Pipe ^(33 05)		
33 05 24 23	Steel Pipe for Water Service ^(33 05 24)		
	See CSI section 33 14 13 26-0000 for galvanized steel utility piping, 33 14 13 36-0000 for steel utility piping.		
33 05 27	Corrugated Metal Utility Pipe ^(33 05)		
33 05 27 13	Corrugated Metal Culvert Pipe ^(33 05 27)		
	See CSI section 33 42 11 00-0498 for corrugated metal culvert pipe.		
33 05 27 23	Corrugated Metal Slotted Pipe ^(33 05 27)		
	See CSI section 33 41 16 13-0085 for corrugated metal slotted pipe.		
33 05 27 33	Corrugated Metal Culvert Arch Pipe ^(33 05 27)		
	See CSI section 33 42 11 00-0842 for corrugated metal culvert arch pipe.		
33 05 31	Thermoplastic Utility Pipe ^(33 05)		
33 05 31 11	Polyvinyl Chloride Gravity Sewer Pipe ^(33 05 31)		
	See CSI section 33 31 11 00-0000 for polyvinyl chloride gravity sewer pipe.		
33 05 31 13	Polyvinyl Chloride Pressure Pipe ^(33 05 31)		
	See CSI section 33 14 13 23-0001 for polyvinyl chloride pressure pipe.		
33 05 31 16	Polyvinyl Chloride Pressure Pipe for Water Transmission and Distribution (AWWA C900 and AWWA C905) ^(33 05 31)		
	See CSI section 33 14 13 23-0171 for AWWA C900 and 905 polyvinyl chloride pressure pipe.		
33 05 33	Polyethylene Utility Pipe ^(33 05)		
33 05 33 13	Corrugated-Wall, Smooth Interior HDPE Gravity Pipe ^(33 05 33)		
	See CSI section 33 42 11 00-0239 for corrugated-wall smooth interior HDPE gravity pipe.		
33 05 33 23	Polyethylene Pressure Pipe and Tubing (AWWA C901 and AWWA C906) ^(33 05 33)		
	See CSI section 33 14 13 23-0426 for AWWA C906 high density polyethylene pipe.		
33 05 33 33	Corrugated, Perforated HDPE Drainage Pipe ^(33 05 33)		
	See CSI section 33 42 11 00-0261 for corrugated perforated HDPE drainage pipe.		
33 05 33 36	Corrugated, Non-Perforated HDPE Drainage Pipe ^(33 05 33)		
	See CSI section 33 41 16 13-0002 for corrugated non-perforated HDPE drainage pipe.		
33 05 33 63	HDPE Communication Duct ^(33 05 33)		
33 05 33 63-0001	ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine ^(33 05 33 63)		
	Note: Excludes boring.		
33 05 33 63-0002	LF 1" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine	3.10	
	For Up To 250, Add	0.08	
	For >250 To 500, Add	0.06	
33 05 33 63-0003	LF 1-1/4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine	3.47	
	For Up To 250, Add	0.10	
	For >250 To 500, Add	0.07	
33 05 33 63-0004	LF 1-1/2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine	3.74	
	For Up To 250, Add	0.12	
	For >250 To 500, Add	0.08	
33 05 33 63-0005	LF 2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine	4.10	
	For Up To 250, Add	0.14	
	For >250 To 500, Add	0.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 33 63-0006 LF 3" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine	5.37	
<i>For Up To 250, Add</i>	0.29	
<i>For >250 To 500, Add</i>	0.20	
33 05 33 63-0007 LF 4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine	6.69	
<i>For Up To 250, Add</i>	0.45	
<i>For >250 To 500, Add</i>	0.30	
33 05 33 63-0008 LF 1" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine	3.16	
<i>For Up To 250, Add</i>	0.09	
<i>For >250 To 500, Add</i>	0.06	
33 05 33 63-0009 LF 1-1/4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine	3.58	
<i>For Up To 250, Add</i>	0.12	
<i>For >250 To 500, Add</i>	0.08	
33 05 33 63-0010 LF 1-1/2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine	3.83	
<i>For Up To 250, Add</i>	0.13	
<i>For >250 To 500, Add</i>	0.09	
33 05 33 63-0011 LF 2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine	4.33	
<i>For Up To 250, Add</i>	0.17	
<i>For >250 To 500, Add</i>	0.12	
33 05 33 63-0012 LF 3" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine	5.87	
<i>For Up To 250, Add</i>	0.37	
<i>For >250 To 500, Add</i>	0.25	
33 05 33 63-0013 LF 4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine	7.32	
<i>For Up To 250, Add</i>	0.54	
<i>For >250 To 500, Add</i>	0.36	

33 05 39 Concrete Pipe (33 05)

33 05 39 13 Prestressed Concrete Pressure Pipe, Steel-Cylinder Type (AWWA C301) (33 05)

39)
See CSI section 33 42 11 00-0092 for prestressed concrete pressure pipe.

33 05 39 41 Reinforced Concrete Pipe for Sewers and Culverts (33 05 39)

See CSI section 33 42 11 00-0001 for reinforced concrete pipe.

33 05 41 Vitrified Clay Utility Pipe (33 05)

See CSI section 33 42 11 00-0365 for vitrified clay piping.

33 05 61 Concrete Manholes (33 05)

33 05 61 00-0001 Manholes (33 05 61)

33 05 61 00-0002 Precast Concrete Manholes (33 05 61 00-0001)

Note: Includes base, riser(s), reducer and openings. Excludes excavation, aggregate, backfill and frame/cover.
See CSI section 33 05 84 00-0002 for top slabs.

33 05 61 00-0003 3' Diameter, Precast Concrete Manholes (33 05 61 00-0002)

33 05 61 00-0004 EA 4' Deep, 3' Diameter, Precast Concrete Manhole	1,275.40	255.25
<i>For Bitumastic Coating, Add</i>	54.89	
<i>For Epoxy Coating, Add</i>	104.90	
33 05 61 00-0005 EA 6' Deep, 3' Diameter, Precast Concrete Manhole	1,744.23	366.63
<i>For Bitumastic Coating, Add</i>	82.34	
<i>For Epoxy Coating, Add</i>	157.35	
33 05 61 00-0006 EA 8' Deep, 3' Diameter, Precast Concrete Manhole	2,370.85	556.91
<i>For Bitumastic Coating, Add</i>	109.79	
<i>For Epoxy Coating, Add</i>	209.80	
33 05 61 00-0007 VLF Riser For 3' Diameter, Precast Concrete Manhole	252.98	64.97
Note: For depths greater than 8'.		
<i>For Bitumastic Coating, Add</i>	13.72	
<i>For Epoxy Coating, Add</i>	26.22	
33 05 61 00-0008 VLF Drop Collar For 3' Diameter, Precast Concrete Manhole	271.03	64.97
33 05 61 00-0009 EA Drop Base For 3' Diameter, Precast Concrete Manhole	421.23	64.97
33 05 61 00-0010 EA Extended Base Slab For 3' Diameter, Precast Concrete Manhole	340.57	64.97
33 05 61 00-0011 EA Precast Channel For 3' Diameter, Precast Concrete Manhole	477.95	64.97

33 05 61 00-0012 4' Diameter, Precast Concrete Manholes (33 05 61 00-0002)

33 05 61 00-0013 EA 4' Deep, 4' Diameter, Precast Concrete Manhole	1,702.47	292.37
<i>For Bitumastic Coating, Add</i>	54.89	
<i>For Epoxy Coating, Add</i>	104.90	
33 05 61 00-0014 EA 6' Deep, 4' Diameter, Precast Concrete Manhole	2,276.61	399.12
<i>For Bitumastic Coating, Add</i>	82.34	
<i>For Epoxy Coating, Add</i>	157.35	
33 05 61 00-0015 EA 8' Deep, 4' Diameter, Precast Concrete Manhole	3,037.16	603.32
<i>For Bitumastic Coating, Add</i>	109.79	
<i>For Epoxy Coating, Add</i>	209.80	

33 Utilities**33 05 Common Work Results for Utilities****33 05 61 Concrete Manholes**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 61 00-0016 VLF Riser For 4' Diameter, Precast Concrete Manhole.....	330.00	76.58
Note: For depths greater than 8'.		
For Bitumastic Coating, Add	13.72	
For Epoxy Coating, Add	26.22	
33 05 61 00-0017 VLF Drop Collar For 4' Diameter, Precast Concrete Manhole.....	356.28	76.58
33 05 61 00-0018 EA Drop Base For 4' Diameter, Precast Concrete Manhole.....	574.99	76.58
33 05 61 00-0019 EA Extended Base Slab For 4' Diameter, Precast Concrete Manhole.....	457.54	76.58
33 05 61 00-0020 EA Precast Channel For 4' Diameter, Precast Concrete Manhole.....	657.60	76.58
33 05 61 00-0021 5' Diameter, Precast Concrete Manholes (33 05 61 00-0002)		
33 05 61 00-0022 EA 4' Deep, 5' Diameter, Precast Concrete Manhole.....	3,097.46	324.87
For Bitumastic Coating, Add	70.73	
For Epoxy Coating, Add	169.11	
33 05 61 00-0023 EA 6' Deep, 5' Diameter, Precast Concrete Manhole.....	4,130.05	445.52
For Bitumastic Coating, Add	106.09	
For Epoxy Coating, Add	253.66	
33 05 61 00-0024 EA 8' Deep, 5' Diameter, Precast Concrete Manhole.....	5,369.26	668.29
For Bitumastic Coating, Add	141.46	
For Epoxy Coating, Add	338.21	
33 05 61 00-0025 VLF Riser For 5' Diameter, Precast Concrete Manhole.....	564.17	83.53
Note: For depths greater than 8'.		
For Bitumastic Coating, Add	17.68	
For Epoxy Coating, Add	42.28	
33 05 61 00-0026 6' Diameter, Precast Concrete Manholes (33 05 61 00-0002)		
33 05 61 00-0027 EA 4' Deep, 6' Diameter, Precast Concrete Manhole.....	4,122.82	361.99
For Bitumastic Coating, Add	80.97	
For Epoxy Coating, Add	197.98	
33 05 61 00-0028 EA 6' Deep, 6' Diameter, Precast Concrete Manhole.....	5,380.17	491.94
For Bitumastic Coating, Add	121.46	
For Epoxy Coating, Add	296.97	
33 05 61 00-0029 EA 8' Deep, 6' Diameter, Precast Concrete Manhole.....	6,868.83	742.54
For Bitumastic Coating, Add	161.95	
For Epoxy Coating, Add	395.96	
33 05 61 00-0030 VLF Riser For 6' Diameter, Precast Concrete Manhole.....	681.49	92.82
Note: For depths greater than 8'.		
For Bitumastic Coating, Add	20.24	
For Epoxy Coating, Add	49.49	
33 05 61 00-0031 7' Diameter, Precast Concrete Manholes (33 05 61 00-0002)		
33 05 61 00-0032 EA 4' Deep, 7' Diameter, Precast Concrete Manhole.....	6,424.43	399.12
For Bitumastic Coating, Add	172.19	
For Epoxy Coating, Add	345.95	
33 05 61 00-0033 EA 6' Deep, 7' Diameter, Precast Concrete Manhole.....	8,320.17	544.37
For Bitumastic Coating, Add	258.29	
For Epoxy Coating, Add	518.93	
33 05 61 00-0034 EA 8' Deep, 7' Diameter, Precast Concrete Manhole.....	10,470.23	816.80
For Bitumastic Coating, Add	344.38	
For Epoxy Coating, Add	691.91	
33 05 61 00-0035 VLF Riser For 7' Diameter, Precast Concrete Manhole.....	1,006.81	102.10
Note: For depths greater than 8'.		
For Bitumastic Coating, Add	43.05	
For Epoxy Coating, Add	86.49	
33 05 61 00-0036 8' Diameter, Precast Concrete Manholes (33 05 61 00-0002)		
33 05 61 00-0037 EA 4' Deep, 8' Diameter, Precast Concrete Manhole.....	9,245.45	459.45
For Bitumastic Coating, Add	203.57	
For Epoxy Coating, Add	421.69	
33 05 61 00-0038 EA 6' Deep, 8' Diameter, Precast Concrete Manhole.....	12,001.58	626.52
For Bitumastic Coating, Add	305.35	
For Epoxy Coating, Add	632.53	
33 05 61 00-0039 EA 8' Deep, 8' Diameter, Precast Concrete Manhole.....	15,050.09	939.78
For Bitumastic Coating, Add	407.13	
For Epoxy Coating, Add	843.38	
33 05 61 00-0040 VLF Riser For 8' Diameter, Precast Concrete Manhole.....	1,443.05	116.02
Note: For depths greater than 8'.		
For Bitumastic Coating, Add	50.89	
For Epoxy Coating, Add	105.42	
33 05 63 Concrete Vaults and Chambers (33 05)		
33 05 63 00-0001 Underground Utility Vaults And Structures (33 05 63)		
See CSI section 33 05 61 00-0001 for manholes, 33 05 81 00-0006 for frames and covers.		
33 05 63 00-0002 Precast Concrete Underground Utility Vault (33 05 63 00-0001)		
Note: Sizes given are for inside dimensions.		
33 05 63 00-0003 6' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0004 EA 4' x 4' x 6' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	3,617.60	
33 05 63 00-0005 EA 4' x 6' x 6' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	4,715.50	
33 05 63 00-0006 EA 5' x 10' x 6' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	7,779.30	
33 05 63 00-0007 EA 5' x 12' x 6' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	8,982.64	
33 05 63 00-0008 EA 6' x 6' x 6' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	6,026.09	
33 05 63 00-0009 EA 6' x 8' x 6' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	7,335.73	
33 05 63 00-0010 EA 6' x 10' x 6' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	8,646.33	
33 05 63 00-0011 EA 6' x 12' x 6' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	12,492.20	
33 05 63 00-0012 EA 6' x 14' x 6' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	12,492.20	
33 05 63 00-0013 EA 6' x 16' x 6' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	15,729.72	
33 05 63 00-0014 EA 8' x 8' x 6' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	8,859.03	
33 05 63 00-0015 EA 8' x 10' x 6' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	10,381.38	
33 05 63 00-0016 EA 8' x 12' x 6' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	14,839.23	
33 05 63 00-0017 EA 8' x 14' x 6' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	16,701.38	
33 05 63 00-0018 7' High Precast Concrete Underground Utility Vault <small>(33 05 63 00-0002)</small>		
33 05 63 00-0019 EA 4' x 4' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	3,982.43	
33 05 63 00-0020 EA 4' x 6' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	5,171.12	
33 05 63 00-0021 EA 4' x 8' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	6,359.75	
33 05 63 00-0022 EA 5' x 10' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	8,462.26	
33 05 63 00-0023 EA 5' x 12' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	9,757.26	
33 05 63 00-0024 EA 6' x 6' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	6,572.44	
33 05 63 00-0025 EA 6' x 8' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	7,973.81	
33 05 63 00-0026 EA 6' x 10' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	9,375.13	
33 05 63 00-0027 EA 6' x 12' x 7' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	13,584.90	
33 05 63 00-0028 EA 6' x 16' x 7' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	17,065.32	
33 05 63 00-0029 EA 8' x 8' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	9,587.79	
33 05 63 00-0030 EA 8' x 10' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	11,200.91	
33 05 63 00-0031 EA 8' x 12' x 7' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	16,053.93	
33 05 63 00-0032 EA 8' x 14' x 7' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	18,036.08	
33 05 63 00-0033 EA 10' x 10' x 7' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	16,296.23	
33 05 63 00-0034 8' High Precast Concrete Underground Utility Vault <small>(33 05 63 00-0002)</small>		
33 05 63 00-0035 EA 4' x 4' x 8' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	4,346.36	
33 05 63 00-0036 EA 4' x 6' x 8' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	5,626.71	
33 05 63 00-0037 EA 5' x 10' x 8' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	9,145.20	
33 05 63 00-0038 EA 5' x 12' x 8' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	10,530.94	
33 05 63 00-0039 EA 6' x 6' x 8' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	7,118.79	
33 05 63 00-0040 EA 6' x 8' x 8' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	8,610.89	
33 05 63 00-0041 EA 6' x 10' x 8' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	10,103.01	
33 05 63 00-0042 EA 6' x 12' x 8' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	14,677.59	
33 05 63 00-0043 EA 6' x 16' x 8' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	18,401.01	
33 05 63 00-0044 EA 8' x 8' x 8' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	10,315.66	

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0045 EA 8' x 10' x 8' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	12,020.44	
33 05 63 00-0046 EA 8' x 12' x 8' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	17,267.64	
33 05 63 00-0047 EA 8' x 14' x 8' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	19,371.74	
33 05 63 00-0048 EA 10' x 10' x 8' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	17,510.57	
33 05 63 00-0049 10' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0050 EA 6' x 6' x 10' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	7,665.18	
33 05 63 00-0051 EA 6' x 8' x 10' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	9,247.99	
33 05 63 00-0052 EA 10' x 10' x 10' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	18,724.22	
33 05 63 00-0053 12' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0054 EA 6' x 6' x 12' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	8,211.52	
33 05 63 00-0055 EA 6' x 8' x 12' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	9,886.05	
33 05 63 00-0056 Meter Pit (33 05 63 00-0001)		
33 05 63 00-0057 Precast Concrete Meter Pit (33 05 63 00-0056)		
33 05 63 00-0058 EA 4' x 4' x 4' Deep Precast Concrete Meter Pit	2,483.43	
33 05 63 00-0059 EA 4' x 4' x 6' Deep Precast Concrete Meter Pit	3,340.12	
33 05 63 00-0060 EA 4' x 4' x 8' Deep Precast Concrete Meter Pit	4,154.17	
33 05 63 00-0061 EA 4' x 4' x 10' Deep Precast Concrete Meter Pit	5,124.17	
33 05 63 00-0062 EA 4' x 4' x 15' Deep Precast Concrete Meter Pit	7,003.89	
33 05 63 00-0063 EA 6' x 6' x 4' Deep Precast Concrete Meter Pit	3,740.38	
33 05 63 00-0064 EA 6' x 6' x 6' Deep Precast Concrete Meter Pit	5,124.17	
33 05 63 00-0065 EA 6' x 6' x 8' Deep Precast Concrete Meter Pit	6,564.15	
33 05 63 00-0066 EA 6' x 6' x 10' Deep Precast Concrete Meter Pit	8,190.52	
33 05 63 00-0067 EA 6' x 6' x 15' Deep Precast Concrete Meter Pit	11,483.60	
33 05 63 00-0068 Handhole Or Pull Box Enclosures (33 05 63 00-0001)		
33 05 63 00-0069 Polymer Concrete Handhole Enclosures (33 05 63 00-0068)		
33 05 63 00-0070 Polymer Concrete Handhole Enclosures (33 05 63 00-0069)		
33 05 63 00-0071 Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0070)		
33 05 63 00-0072 Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0071)		
33 05 63 00-0073 EA 12" x 12", 24" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	242.02	20.36
33 05 63 00-0074 EA 10" x 15", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	215.64	45.20
33 05 63 00-0075 EA 13" x 24", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	328.93	67.81
33 05 63 00-0076 EA 17" x 30", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	379.69	67.81
33 05 63 00-0077 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	362.92	67.81
33 05 63 00-0078 EA 13" x 24", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	436.12	67.81
33 05 63 00-0079 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	425.07	67.81
33 05 63 00-0080 EA 17" x 30", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	573.29	67.81
33 05 63 00-0081 EA 27" Round, 36" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	812.85	90.41
33 05 63 00-0082 EA 27" Round, 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,131.84	90.41
33 05 63 00-0083 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	748.15	124.31
33 05 63 00-0084 EA 24" x 36", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	848.05	124.31
33 05 63 00-0085 EA 24" x 36", 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,367.71	124.31
33 05 63 00-0086 EA 39" Round, 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	799.62	135.61
33 05 63 00-0087 EA 39" Round, 24" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,126.83	135.61
33 05 63 00-0088 EA 39" Round, 36" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,394.41	135.61



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0089 EA 39" Round, 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	2,027.30	135.61
33 05 63 00-0090 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,164.66	212.46
33 05 63 00-0091 EA 30" x 48", 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,657.13	212.46
33 05 63 00-0092 Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0071)</small>		
33 05 63 00-0093 EA 12" x 12", 24" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	308.33	20.36
33 05 63 00-0094 EA 13" x 24", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	407.90	67.81
33 05 63 00-0095 EA 17" x 30", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	489.60	67.81
33 05 63 00-0096 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	453.03	67.81
33 05 63 00-0097 EA 13" x 24", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	515.59	67.81
33 05 63 00-0098 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	532.00	67.81
33 05 63 00-0099 EA 17" x 30", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	681.14	67.81
33 05 63 00-0100 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	916.08	124.31
33 05 63 00-0101 EA 24" x 36", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,015.97	124.31
33 05 63 00-0102 EA 24" x 36", 48" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,535.65	124.31
33 05 63 00-0103 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,360.89	212.46
33 05 63 00-0104 EA 30" x 48", 48" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,857.11	212.46
33 05 63 00-0105 Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0070)</small>		
33 05 63 00-0106 Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0105)</small>		
33 05 63 00-0107 EA 5" x 16", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	393.65	20.36
33 05 63 00-0108 EA 10" x 12", 15" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	333.64	20.36
33 05 63 00-0109 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	284.64	67.81
33 05 63 00-0110 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	320.06	67.81
33 05 63 00-0111 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	96.59	20.36
33 05 63 00-0112 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	146.77	20.36
33 05 63 00-0113 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	233.87	20.36
33 05 63 00-0114 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	244.42	20.36
33 05 63 00-0115 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	211.96	45.20
33 05 63 00-0116 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	228.13	45.20
33 05 63 00-0117 EA 8" x 8", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	144.62	20.36
33 05 63 00-0118 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	164.37	20.36
33 05 63 00-0119 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	226.45	45.20
33 05 63 00-0120 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	253.63	45.20
33 05 63 00-0121 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	236.04	45.20
33 05 63 00-0122 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	286.29	67.81
33 05 63 00-0123 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	312.95	67.81
33 05 63 00-0124 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	332.78	67.81
33 05 63 00-0125 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	362.65	67.81
33 05 63 00-0126 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	422.20	67.81
33 05 63 00-0127 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	458.32	67.81
33 05 63 00-0128 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	497.86	67.81
33 05 63 00-0129 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	522.71	67.81
33 05 63 00-0130 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	625.47	90.41
33 05 63 00-0131 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	639.94	124.31

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0132	EA	24" x 36", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	813.06	124.31
33 05 63 00-0133	EA	24" x 36", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	972.92	124.31
33 05 63 00-0134	EA	24" x 36", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,073.88	124.31
33 05 63 00-0135	EA	24" x 36", 42" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,174.29	124.31
33 05 63 00-0136	EA	36" x 36", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,356.79	212.46
33 05 63 00-0137	EA	30" x 48", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,002.88	212.46
33 05 63 00-0138	EA	30" x 48", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,131.10	212.46
33 05 63 00-0139	EA	30" x 48", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,376.28	212.46
33 05 63 00-0140	EA	30" x 60", 21" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,373.76	212.46
33 05 63 00-0141	EA	30" x 60", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,465.29	212.46
33 05 63 00-0142	EA	30" x 60", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,641.30	212.46
33 05 63 00-0143	EA	36" x 60", 19" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,518.06	227.64
33 05 63 00-0144	EA	36" x 60", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,642.33	227.64
33 05 63 00-0145	EA	36" x 60", 31" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,800.99	227.64
33 05 63 00-0146	EA	36" x 60", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,864.47	227.64
33 05 63 00-0147	EA	48" x 48", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,886.53	227.64
33 05 63 00-0148	EA	48" x 48", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,128.28	227.64
33 05 63 00-0149	EA	36" x 72", 21" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,658.80	227.64
33 05 63 00-0150	EA	36" x 72", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,168.18	227.64
33 05 63 00-0151	EA	48" x 72", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,436.96	242.81
33 05 63 00-0152	EA	48" x 72", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,991.18	242.81
33 05 63 00-0153	EA	48" x 96", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,817.13	242.81
33 05 63 00-0154 Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures				
<small>(33 05 63 00-0105)</small>				
33 05 63 00-0155	EA	13" x 24", 12" Depth, 5,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	376.58	67.81
33 05 63 00-0156	EA	17" x 30", 12" Depth, 5,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	429.11	67.81
33 05 63 00-0157	EA	6" x 8", 6" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	159.55	20.36
33 05 63 00-0158	EA	12" x 12", 12" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	228.14	20.36
33 05 63 00-0159	EA	8" x 18", 7" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	303.95	20.36
33 05 63 00-0160	EA	8" x 18", 8" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	314.51	20.36
33 05 63 00-0161	EA	10" x 15", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	280.99	45.20
33 05 63 00-0162	EA	11" x 18", 12" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	292.25	45.20
33 05 63 00-0163	EA	11" x 18", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	307.29	45.20
33 05 63 00-0164	EA	8" x 8", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	213.27	20.36
33 05 63 00-0165	EA	8" x 8", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	251.03	20.36
33 05 63 00-0166	EA	11" x 18", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	306.92	45.20
33 05 63 00-0167	EA	11" x 18", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	334.11	45.20
33 05 63 00-0168	EA	11" x 20", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	317.37	45.20
33 05 63 00-0169	EA	13" x 24", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	376.07	67.81
33 05 63 00-0170	EA	13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	403.07	67.81
33 05 63 00-0171	EA	17" x 30", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	439.92	67.81
33 05 63 00-0172	EA	17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	469.59	67.81



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0173 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	528.97	67.81
33 05 63 00-0174 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	565.25	67.81
33 05 63 00-0175 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	604.61	67.81
33 05 63 00-0176 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	629.64	67.81
33 05 63 00-0177 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	773.19	90.41
33 05 63 00-0178 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	807.88	124.31
33 05 63 00-0179 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	980.80	124.31
33 05 63 00-0180 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,140.48	124.31
33 05 63 00-0181 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,241.28	124.31
33 05 63 00-0182 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,342.03	124.31
33 05 63 00-0183 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,197.26	212.46
33 05 63 00-0184 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,325.67	212.46
33 05 63 00-0185 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,570.66	212.46
33 05 63 00-0186 Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0105)</small>		
33 05 63 00-0187 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	347.22	67.81
33 05 63 00-0188 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	401.21	67.81
33 05 63 00-0189 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	119.41	20.36
33 05 63 00-0190 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	192.90	20.36
33 05 63 00-0191 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	274.63	20.36
33 05 63 00-0192 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	285.37	20.36
33 05 63 00-0193 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	261.68	45.20
33 05 63 00-0194 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	292.97	45.20
33 05 63 00-0195 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	169.50	20.36
33 05 63 00-0196 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	277.06	45.20
33 05 63 00-0197 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	316.04	45.20
33 05 63 00-0198 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	287.19	45.20
33 05 63 00-0199 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	371.94	67.81
33 05 63 00-0200 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	425.23	67.81
33 05 63 00-0201 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	442.95	67.81
33 05 63 00-0202 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	485.14	67.81
33 05 63 00-0203 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	523.96	67.81
33 05 63 00-0204 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	560.61	67.81
33 05 63 00-0205 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	626.23	67.81
33 05 63 00-0206 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	635.38	67.81
33 05 63 00-0207 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	784.63	90.41
33 05 63 00-0208 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	822.72	124.31
33 05 63 00-0209 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,013.69	124.31
33 05 63 00-0210 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,202.55	124.31
33 05 63 00-0211 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,328.00	124.31
33 05 63 00-0212 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,453.44	124.31
33 05 63 00-0213 EA 36" x 36", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,590.51	212.46
33 05 63 00-0214 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,236.62	212.46
33 05 63 00-0215 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,374.84	212.46
33 05 63 00-0216 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,619.85	212.46

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0217 EA 30" x 60", 21" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,727.92	212.46
33 05 63 00-0218 EA 30" x 60", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,761.76	212.46
33 05 63 00-0219 EA 30" x 60", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,090.07	212.46
33 05 63 00-0220 EA 36" x 60", 19" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,947.69	227.64
33 05 63 00-0221 EA 36" x 60", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,011.90	227.64
33 05 63 00-0222 EA 36" x 60", 31" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,194.04	227.64
33 05 63 00-0223 EA 36" x 60", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,331.90	227.64
33 05 63 00-0224 EA 36" x 72", 21" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,147.63	227.64
33 05 63 00-0225 EA 36" x 72", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,640.66	227.64
33 05 63 00-0226 EA 48" x 48", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,301.13	227.64
33 05 63 00-0227 EA 48" x 48", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,522.35	227.64
33 05 63 00-0228 EA 48" x 72", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,045.45	242.81
33 05 63 00-0229 EA 48" x 72", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,599.89	242.81
33 05 63 00-0230 EA 48" x 96", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	4,830.27	242.81
33 05 63 00-0231 Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0105)</small>		
33 05 63 00-0232 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	439.14	67.81
33 05 63 00-0233 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	510.47	67.81
33 05 63 00-0234 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	181.87	20.36
33 05 63 00-0235 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	274.10	20.36
33 05 63 00-0236 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	344.56	20.36
33 05 63 00-0237 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	355.45	20.36
33 05 63 00-0238 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	342.16	45.20
33 05 63 00-0239 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	373.26	45.20
33 05 63 00-0240 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	258.74	20.36
33 05 63 00-0241 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	357.17	45.20
33 05 63 00-0242 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	396.15	45.20
33 05 63 00-0243 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	345.55	45.20
33 05 63 00-0244 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	462.08	67.81
33 05 63 00-0245 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	515.37	67.81
33 05 63 00-0246 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	549.88	67.81
33 05 63 00-0247 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	592.09	67.81
33 05 63 00-0248 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	630.89	67.81
33 05 63 00-0249 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	667.56	67.81
33 05 63 00-0250 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	733.20	67.81
33 05 63 00-0251 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	742.31	67.81
33 05 63 00-0252 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	932.16	90.41
33 05 63 00-0253 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	990.64	124.31
33 05 63 00-0254 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,181.44	124.31
33 05 63 00-0255 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,370.10	124.31
33 05 63 00-0256 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,495.64	124.31
33 05 63 00-0257 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,621.18	124.31



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0258 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,431.18	212.46
33 05 63 00-0259 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,569.59	212.46
33 05 63 00-0260 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,814.42	212.46
33 05 63 00-0261 Footed, Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0105)</small>		
33 05 63 00-0262 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	369.64	67.81
33 05 63 00-0263 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	249.51	45.20
33 05 63 00-0264 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	279.56	45.20
33 05 63 00-0265 EA 13" x 24", 12" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	330.63	67.81
33 05 63 00-0266 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	259.35	45.20
33 05 63 00-0267 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	288.14	45.20
33 05 63 00-0268 Polymer Concrete Handhole Enclosure Extensions <small>(33 05 63 00-0069)</small>		
33 05 63 00-0269 EA 13" x 24", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	274.67	67.81
33 05 63 00-0270 EA 17" x 30", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	306.00	67.81
33 05 63 00-0271 EA 24" x 24", 6" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	354.39	90.41
33 05 63 00-0272 EA 24" x 24", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	385.14	90.41
33 05 63 00-0273 EA 24" x 36", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	460.62	124.31
33 05 63 00-0274 EA 36" x 36", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	820.47	212.46
33 05 63 00-0275 EA 30" x 48", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	786.85	212.46
33 05 63 00-0276 EA 30" x 48", 11" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	794.19	212.46
33 05 63 00-0277 EA 36" x 60", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	1,053.56	227.64
33 05 63 00-0278 EA 48" x 72", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	1,636.60	242.81
33 05 63 00-0279 EA 48" x 96", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	2,124.97	242.81
33 05 63 00-0280 EA 13" x 24", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	439.02	67.81
33 05 63 00-0281 EA 17" x 30", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	458.15	67.81
33 05 63 00-0282 EA 24" x 24", 6" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	494.58	90.41
33 05 63 00-0283 EA 24" x 24", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	525.66	90.41
33 05 63 00-0284 EA 24" x 36", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	614.37	124.31
33 05 63 00-0285 EA 30" x 48", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	1,004.13	212.46
33 05 63 00-0286 EA 13" x 24", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension.....	345.48	67.81
33 05 63 00-0287 EA 17" x 30", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension.....	383.22	67.81
33 05 63 00-0288 EA 24" x 36", 4" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension.....	514.76	124.31
33 05 63 00-0289 EA 36" x 60", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension.....	1,017.57	227.64
33 05 63 00-0290 Polymer Concrete Handhole Enclosure Covers <small>(33 05 63 00-0069)</small>		
33 05 63 00-0291 Polymer Concrete Handhole Enclosure Covers <small>(33 05 63 00-0290)</small>		
33 05 63 00-0292 EA 5" x 16", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	94.08	9.05
33 05 63 00-0293 EA 10" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	95.29	9.05
33 05 63 00-0294 EA 12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	88.39	9.05
33 05 63 00-0295 EA 8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	95.52	9.05
33 05 63 00-0296 EA 11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	96.43	9.04
33 05 63 00-0297 EA 13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	110.48	9.04
33 05 63 00-0298 EA 17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	127.85	9.04
33 05 63 00-0299 EA 30" x 59", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	836.18	27.32
33 05 63 00-0300 EA 30" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	732.60	27.32
33 05 63 00-0301 EA 36" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,093.40	27.32
33 05 63 00-0302 EA 48" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,105.70	27.32
33 05 63 00-0303 EA 36" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,251.69	27.32
33 05 63 00-0304 EA 48" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,363.20	27.32
33 05 63 00-0305 EA 48" x 96", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	2,186.50	27.32
33 05 63 00-0306 EA 10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	80.72	9.04
33 05 63 00-0307 EA 11" x 18", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	115.20	9.04
33 05 63 00-0308 EA 11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	116.80	9.04
33 05 63 00-0309 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	146.68	9.04

33 Utilities

33 05 Common Work Results for Utilities

33 05 63 Concrete Vaults and Chambers

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 05 63 00-0310	EA	13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover	110.92	9.04
33 05 63 00-0311	EA	17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	173.33	9.04
33 05 63 00-0312	EA	17" x 30", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover	136.31	9.04
33 05 63 00-0313	EA	27" Round, 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	278.62	9.04
33 05 63 00-0314	EA	24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	244.80	13.56
33 05 63 00-0315	EA	24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	306.40	13.56
33 05 63 00-0316	EA	39" Round, 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	394.72	15.82
33 05 63 00-0317	EA	36" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	555.26	21.25
33 05 63 00-0318	EA	30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	577.49	40.47
33 05 63 00-0319	EA	11" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	148.47	9.04
33 05 63 00-0320	EA	13" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	211.24	9.04
33 05 63 00-0321	EA	17" x 30", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	240.22	9.04
33 05 63 00-0322	EA	27" Round, 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	398.73	9.04
33 05 63 00-0323	EA	24" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	329.48	13.56
33 05 63 00-0324	EA	39" Round, 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	556.00	15.82
33 05 63 00-0325	EA	36" x 36", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	729.97	21.25
33 05 63 00-0326	EA	30" x 59", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	984.69	27.32
33 05 63 00-0327	EA	30" x 60", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	876.16	27.32
33 05 63 00-0328	EA	36" x 60", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,221.28	27.32
33 05 63 00-0329	EA	48" x 48", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,588.33	27.32
33 05 63 00-0330	EA	36" x 72", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,521.37	27.32
33 05 63 00-0331	EA	48" x 72", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	2,306.03	27.32
33 05 63 00-0332	EA	48" x 96", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	3,558.42	27.32
33 05 63 00-0333	EA	11" x 18", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	194.98	9.04
33 05 63 00-0334	EA	11" x 20", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	213.11	9.04
33 05 63 00-0335	EA	13" x 24", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	280.27	9.04
33 05 63 00-0336	EA	17" x 30", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	319.25	9.04
33 05 63 00-0337	EA	27" Round, 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	551.04	9.04
33 05 63 00-0338	EA	24" x 24", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	401.25	13.56
33 05 63 00-0339	EA	24" x 36", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	548.00	13.56
33 05 63 00-0340	EA	39" Round, 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	849.04	15.82
33 05 63 00-0341	EA	36" x 36", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	973.17	21.25
33 05 63 00-0342	EA	30" x 48", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,012.93	40.47
33 05 63 00-0343	EA	30" x 60", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,171.54	27.32
33 05 63 00-0344	EA	36" x 60", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,632.98	27.32
33 05 63 00-0345	EA	48" x 48", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	2,282.02	27.32
33 05 63 00-0346	EA	36" x 72", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	2,037.07	27.32
33 05 63 00-0347	EA	48" x 72", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	3,371.58	27.32
33 05 63 00-0348	EA	48" x 96", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	5,200.55	27.32

33 05 63 00-0349 Polymer Concrete Handhole Enclosure Covers With Gaskets (33 05 63 00-0290)

33 05 63 00-0350	EA	12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	107.89	9.05
33 05 63 00-0351	EA	8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	113.96	9.05
33 05 63 00-0352	EA	11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	115.93	9.04
33 05 63 00-0353	EA	13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	116.67	9.04
33 05 63 00-0354	EA	17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	134.48	9.04
33 05 63 00-0355	EA	10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	86.32	9.04
33 05 63 00-0356	EA	11" x 18", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	120.94	9.04
33 05 63 00-0357	EA	11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	122.05	9.04
33 05 63 00-0358	EA	13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	152.59	9.04
33 05 63 00-0359	EA	13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket	117.36	9.04
33 05 63 00-0360	EA	17" x 30", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket	143.11	9.04
33 05 63 00-0361	EA	17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	179.59	9.04
33 05 63 00-0362	EA	24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	249.00	13.56
33 05 63 00-0363	EA	24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	312.85	13.56
33 05 63 00-0364	EA	30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	584.11	40.47
33 05 63 00-0365	EA	6" x 8", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	72.10	9.05
33 05 63 00-0366	EA	8" x 8", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	112.06	9.05
33 05 63 00-0367	EA	8" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	124.52	9.05
33 05 63 00-0368	EA	12" x 12", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	118.98	9.05
33 05 63 00-0369	EA	10" x 15", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	98.22	9.04
33 05 63 00-0370	EA	11" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	154.19	9.04
33 05 63 00-0371	EA	11" x 20", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	167.13	9.04
33 05 63 00-0372	EA	13" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	217.33	9.04
33 05 63 00-0373	EA	17" x 30", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	246.83	9.04
33 05 63 00-0374	EA	24" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	335.39	13.56
33 05 63 00-0375	EA	24" x 36", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	418.34	13.56
33 05 63 00-0376	EA	30" x 48", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	767.40	40.47

33 05 63 00-0377 Polymer Concrete Handhole Enclosure Covers Without Bolts (33 05 63 00-0290)

33 05 63 00-0378	EA	6" x 9", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	58.35	9.05
33 05 63 00-0379	EA	7" x 13", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	69.10	9.05
33 05 63 00-0380	EA	12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	83.57	9.05
33 05 63 00-0381	EA	8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	90.01	9.05
33 05 63 00-0382	EA	11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	89.82	9.04
33 05 63 00-0383	EA	13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	106.31	9.04
33 05 63 00-0384	EA	17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	122.51	9.04



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0385 EA 24" x 36", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	295.84	13.56
33 05 63 00-0386 EA 30" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	553.36	40.47
33 05 63 00-0387 EA 30" x 59", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	827.13	27.32
33 05 63 00-0388 EA 30" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	722.37	27.32
33 05 63 00-0389 EA 48" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,076.58	27.32
33 05 63 00-0390 EA 36" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,039.12	27.32
33 05 63 00-0391 EA 36" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,241.92	27.32
33 05 63 00-0392 EA 48" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,327.12	27.32
33 05 63 00-0393 EA 48" x 96", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	2,117.17	27.32
33 05 63 00-0394 EA 10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	77.67	9.04
33 05 63 00-0395 EA 10" x 16", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	75.87	9.04
33 05 63 00-0396 EA 11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	111.33	9.04
33 05 63 00-0397 EA 11" x 21", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	122.19	9.04
33 05 63 00-0398 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	138.11	9.04
33 05 63 00-0399 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover Without Bolts	105.37	9.04
33 05 63 00-0400 EA 18" x 19", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	117.36	9.04
33 05 63 00-0401 EA 17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	165.81	9.04
33 05 63 00-0402 EA 24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	239.93	13.56
33 05 63 00-0403 EA 20" x 42", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	299.18	13.56
33 05 63 00-0404 EA 24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	295.67	13.56
33 05 63 00-0405 EA 36" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	533.26	21.25
33 05 63 00-0406 EA 30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	553.36	24.28
33 05 63 00-0407	Overlapping, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)	
33 05 63 00-0408 EA 30" x 60", 5,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	860.88	27.32
33 05 63 00-0409 EA 36" x 60", 5,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,243.17	27.32
33 05 63 00-0410 EA 30" x 48", 8,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	722.68	40.47
33 05 63 00-0411 EA 30" x 48", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	956.06	40.47
33 05 63 00-0412 EA 30" x 60", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,021.40	27.32
33 05 63 00-0413 EA 36" x 60", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,389.34	27.32
33 05 63 00-0414	Split, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)	
33 05 63 00-0415 EA 24" x 36", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover	335.50	13.56
33 05 63 00-0416 EA 36" x 36", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover	624.12	21.25
33 05 63 00-0417 EA 30" x 48", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover	653.14	40.47
33 05 63 00-0418 EA 6" x 8", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	55.36	9.05
33 05 63 00-0419 EA 8" x 8", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	90.58	9.05
33 05 63 00-0420 EA 12" x 12", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	99.49	9.05
33 05 63 00-0421 EA 8" x 18", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	105.38	9.05
33 05 63 00-0422 EA 10" x 15", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	92.68	9.04
33 05 63 00-0423 EA 11" x 20", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	161.88	9.04
33 05 63 00-0424 EA 24" x 36", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	448.64	13.56
33 05 63 00-0425 EA 36" x 36", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	828.17	21.25
33 05 63 00-0426 EA 30" x 48", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	868.45	40.47
33 05 63 00-0427	Precast Concrete Handholes With Steel Cover (33 05 63 00-0068)	
Note: 8000 To 12000 pound traffic rated top. Includes cover stamped with utility (Electrical, Sewer, Water, Etc.).		
33 05 63 00-0428 EA 12" x 12" x 12" Precast Concrete Handholes With Steel Cover	794.78	215.98
Note: 8000 To 12000 pound traffic rated top.		
<i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>		
33 05 63 00-0429 EA 12" x 24" x 21" Precast Concrete Handholes With Steel Cover	1,339.95	323.97
Note: 8000 To 12000 pound traffic rated top.		
<i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>		
33 05 63 00-0430 EA 18" x 30" x 18" Precast Concrete Handholes With Steel Cover	1,620.35	431.97
Note: 8000 To 12000 pound traffic rated top.		
<i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>		
33 05 63 00-0431 EA 24" x 24" x 24" Precast Concrete Handholes With Steel Cover	1,684.91	431.97
Note: 8000 To 12000 pound traffic rated top.		
<i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>		
33 05 63 00-0432 EA 24" x 24" x 30" Precast Concrete Handholes With Steel Cover	1,977.62	539.97
Note: 8000 To 12000 pound traffic rated top.		
<i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>		
33 05 63 00-0433 EA 30" x 36" x 30" Precast Concrete Handholes With Steel Cover	2,084.89	539.97
Note: 8000 To 12000 pound traffic rated top.		
<i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>		
33 05 63 00-0434 EA 36" x 36" x 48" Precast Concrete Handholes With Steel Cover	2,406.26	647.96
Note: 8000 To 12000 pound traffic rated top.		
<i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>		
33 05 63 00-0435 EA 48" x 48" x 48" Precast Concrete Handholes With Steel Cover	2,761.69	755.95
Note: 8000 To 12000 pound traffic rated top.		
<i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>		
33 05 63 00-0436 EA 48" x 72" x 36" Precast Concrete Handholes With Steel Cover	2,724.58	647.96
Note: 8000 To 12000 pound traffic rated top.		
<i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>		
33 05 63 00-0437 EA 54" x 38" x 24" Precast Concrete Handholes With Steel Cover	2,751.96	647.96
Note: 8000 To 12000 pound traffic rated top.		
<i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>		

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0438 EA 6" Diameter Precast Concrete Handholes With Steel Cover.....	619.51	215.98
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	15.00	
33 05 63 00-0439 EA 9" Diameter Precast Concrete Handholes With Steel Cover.....	731.16	242.98
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	15.00	
33 05 63 00-0440 EA 12" Diameter Precast Concrete Handholes With Steel Cover.....	900.47	269.98
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	15.00	

33 05 81 Metallic Castings for Utility Structures (33 05)**33 05 81 00-0001 Manhole Accessories (33 05 81)****33 05 81 00-0002 Steps For Cast-In-Place Manholes (33 05 81 00-0001)**

See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.

33 05 81 00-0003 EA Cast Iron Manhole Step For New Manholes	72.61	
33 05 81 00-0004 EA Galvanized Steel Manhole Step For New Manholes	51.34	
33 05 81 00-0005 EA Aluminum Manhole Step For New Manholes	64.07	

33 05 81 00-0006 Manhole Covers And Frames (33 05 81)

Note: Includes moisture-tight masonry joints and waterproof grouting.

33 05 81 00-0007 Regular Manhole Covers And Frames (33 05 81 00-0006)

33 05 81 00-0008 EA 18" Square, Gray Iron, Manhole Cover With Frame.....	1,045.82	79.82
For Ductile Iron Castings, Add	563.14	
33 05 81 00-0009 EA 18" Diameter, Gray Iron, Manhole Cover With Frame.....	631.83	79.82
For Ductile Iron Castings, Add	273.35	
33 05 81 00-0010 EA 24" Diameter, Gray Iron, Manhole Cover With Frame.....	729.96	92.82
For Ductile Iron Castings, Add	316.05	
33 05 81 00-0011 EA 24" Square, Gray Iron, Manhole Cover With Frame.....	1,093.87	103.03
For Ductile Iron Castings, Add	549.14	
33 05 81 00-0012 EA 26" Diameter, Gray Iron, Manhole Cover With Frame.....	957.81	111.38
For Ductile Iron Castings, Add	435.64	
33 05 81 00-0013 EA 30" Diameter, Gray Iron, Manhole Cover With Frame.....	998.46	116.02
For Ductile Iron Castings, Add	455.28	
33 05 81 00-0014 EA 24" Diameter REXUF D400, Ductile Iron Manhole Cover And Frame, County Standard.....	977.23	103.03
For Ductile Iron Castings, Add	467.49	

33 05 81 00-0015 Watertight Type Manhole Covers And Frames (33 05 81 00-0006)

33 05 81 00-0016 EA 20" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,150.68	65.90
For Ductile Iron Castings, Add	621.86	
33 05 81 00-0017 EA 22" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,175.20	65.90
For Ductile Iron Castings, Add	623.90	
33 05 81 00-0018 EA 24" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,206.54	77.04
For Ductile Iron Castings, Add	628.01	
33 05 81 00-0019 EA 26" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,423.41	86.32
For Ductile Iron Castings, Add	761.56	
33 05 81 00-0020 EA 30" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,632.40	88.18
For Ductile Iron Castings, Add	899.04	
33 05 81 00-0021 EA 32" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,712.54	90.03
For Ductile Iron Castings, Add	951.95	
33 05 81 00-0022 EA 36" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,784.62	92.82
For Ductile Iron Castings, Add	999.09	

33 05 81 00-0023 Aluminum Manhole Covers And Frames (33 05 81 00-0006)

33 05 81 00-0024 EA 12" Square Aluminum Manhole Cover With Frame.....	741.54	26.65
33 05 81 00-0025 EA 18" Square Aluminum Manhole Cover With Frame.....	1,340.34	29.50
33 05 81 00-0026 EA 24" Square Aluminum Manhole Cover With Frame.....	1,915.03	34.26

33 05 81 00-0027 Removal And Reinstallation Of Manhole Cover And Frame (33 05 81 00-0006)

Note: Includes surrounding asphalt removal and repair. Excludes saw cutting.

33 05 81 00-0028 EA Removal And Reinstallation Of Manhole Cover And Frame	372.14	
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33 05 81 00-0029 Adjust Frame And Cover To Grade (Monterey County) (33 05 81 00-0006)

33 05 81 00-0030 EA Adjust Frame And Cover To Grade (Monterey County).....	606.47	
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33 05 83 Non-Metallic Accessories for Utility Structures (33 05)**33 05 83 00-0001 Manhole Accessories (33 05 83)****33 05 83 00-0002 Steps For Cast-In-Place Manholes (33 05 83 00-0001)**

See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.

33 05 83 00-0003 EA Polypropylene Manhole Step For New Manholes	40.20	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 83 00-0004 Rainguard Inflow Protectors <small>(33 05 83)</small>		
33 05 83 00-0005 EA 18" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	110.37	19.32
33 05 83 00-0006 EA 22" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	126.57	19.32
33 05 83 00-0007 EA 24" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	151.36	23.20
33 05 83 00-0008 EA 26" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	161.60	23.20
33 05 83 00-0009 EA 30" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	199.89	27.06
33 05 83 00-0010 EA 32" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	212.46	27.06
 33 05 84 Accessories for Utility Structures <small>(33 05)</small>		
<small>See CSI section 22 13 19 26-0044 for oil interceptors, 22 13 23 00-0000 for sediment interceptors, 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.</small>		
33 05 84 00-0001 Manhole Accessories <small>(33 05 84)</small>		
33 05 84 00-0002 Precast Concrete Manhole Tops <small>(33 05 84 00-0001)</small>		
33 05 84 00-0003 Precast Concrete Manhole Slab Tops <small>(33 05 84 00-0002)</small>		
33 05 84 00-0004 EA 3' Diameter x 8" Thick Precast Manhole Top Slab	519.14	69.62
33 05 84 00-0005 EA 4' Diameter x 8" Thick Precast Manhole Top Slab	729.37	75.19
33 05 84 00-0006 EA 5' Diameter x 8" Thick Precast Manhole Top Slab	990.18	80.75
33 05 84 00-0007 EA 6' Diameter x 8" Thick Precast Manhole Top Slab	1,187.17	86.32
 33 05 84 00-0008 Precast Concrete Manhole Cone Tops <small>(33 05 84 00-0002)</small>		
33 05 84 00-0009 EA 3' Diameter x 8" Thick Precast Manhole Top Cone.....	829.45	87.02
33 05 84 00-0010 EA 3'-6" Diameter x 8" Thick Precast Manhole Top Cone	923.60	90.49
33 05 84 00-0011 EA 4' Diameter x 8" Thick Precast Manhole Top Cone.....	1,017.78	93.98
33 05 84 00-0012 EA 5' Diameter x 8" Thick Precast Manhole Top Cone.....	1,201.42	99.78
33 05 84 00-0013 EA 6' Diameter x 8" Thick Precast Manhole Top Cone.....	1,389.74	106.74
33 05 84 00-0014 EA 7' Diameter x 8" Thick Precast Manhole Top Cone.....	2,210.66	113.71
33 05 84 00-0015 EA 8' Diameter x 10" Thick Precast Manhole Top Cone.....	2,779.06	125.30
 33 05 84 00-0016 Precast Concrete Manhole Reducer Slabs <small>(33 05 84 00-0002)</small>		
33 05 84 00-0017 EA 5' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	1,038.44	80.75
33 05 84 00-0018 EA 6' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	1,334.74	86.32
33 05 84 00-0019 EA 7' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	1,758.21	86.32
33 05 84 00-0020 EA 8' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	2,775.69	86.32
33 05 84 00-0021 EA 10' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	3,567.26	86.32
33 05 84 00-0022 EA 12' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	5,161.26	86.32
 33 05 84 00-0023 Pipe To Manhole Connector <small>(33 05 84 00-0001)</small>		
33 05 84 00-0024 Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connectors <small>(33 05 84 00-0023)</small>		
33 05 84 00-0025 EA 4" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	76.01	
33 05 84 00-0026 EA 6" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	110.78	
33 05 84 00-0027 EA 8" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	124.95	
33 05 84 00-0028 EA 10" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	187.21	
33 05 84 00-0029 EA 12" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	260.88	
33 05 84 00-0030 EA 15" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	345.99	
33 05 84 00-0031 EA 18" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	618.95	
33 05 84 00-0032 EA 21" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	858.55	
33 05 84 00-0033 EA 24" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	1,349.18	
33 05 84 00-0034 EA 27" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	1,590.17	
 33 05 84 00-0035 Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout <small>(33 05 84 00-0023)</small>		
<small>Note: Fernco CMA.</small>		
33 05 84 00-0036 EA 4" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	91.59	
33 05 84 00-0037 EA 6" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	126.60	
33 05 84 00-0038 EA 8" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	159.78	
33 05 84 00-0039 EA 10" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	192.82	
33 05 84 00-0040 EA 12" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	223.82	
 33 05 84 00-0041 Brick And Grout Pipe To Manhole Connector <small>(33 05 84 00-0023)</small>		
33 05 84 00-0042 EA Seal Gap Between Pipe And Structure With Brick And Grout.....	244.67	
 33 05 84 00-0043 Inverts For Manholes <small>(33 05 84 00-0001)</small>		
33 05 84 00-0044 EA Single Channel Concrete Invert For Manholes	421.77	
33 05 84 00-0045 EA Double Channel Concrete Invert For Manholes	605.81	
33 05 84 00-0046 EA Triple Channel Concrete Invert For Manholes	816.77	
33 05 84 00-0047 EA Quad Channel Concrete Invert For Manholes.....	1,027.68	
33 05 84 00-0048 EA Single Channel Brick Invert For Manholes.....	591.49	
33 05 84 00-0049 EA Double Channel Brick Invert For Manholes.....	885.61	

33 Utilities**33 05 Common Work Results for Utilities****33 05 84 Accessories for Utility Structures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0050 EA Triple Channel Brick Invert For Manholes	1,184.79	
33 05 84 00-0051 EA Quad Channel Brick Invert For Manholes	1,480.47	
33 05 84 00-0052 Protective Coating For New Manholes (33 05 84 00-0001)		
33 05 84 00-0053 Polyurethane Protective Coating For New Manholes (33 05 84 00-0052)		
33 05 84 00-0054 VLF 60 Mil Polyurethane Coating Of 3' Diameter Manhole Interior	169.08	
For 80 Mil Material, Add	23.62	
For 100 Mil Material, Add	47.24	
For 125 Mil Material, Add	74.38	
For 150 Mil Material, Add	101.53	
For 200 Mil Material, Add	149.49	
For 2 To 5 Manholes, Deduct	-11.62	
For 6 To 10 Manholes, Deduct	-19.02	
For >10 Manholes, Deduct	-38.04	
33 05 84 00-0055 VLF 60 Mil Polyurethane Coating Of 3-1/2' Diameter Manhole Interior	204.35	
For 80 Mil Material, Add	28.10	
For 100 Mil Material, Add	56.20	
For 125 Mil Material, Add	88.41	
For 150 Mil Material, Add	120.63	
For 200 Mil Material, Add	177.32	
For 2 To 5 Manholes, Deduct	-14.09	
For 6 To 10 Manholes, Deduct	-23.07	
For >10 Manholes, Deduct	-46.14	
33 05 84 00-0056 VLF 60 Mil Polyurethane Coating Of 4' Diameter Manhole Interior	225.44	
For 80 Mil Material, Add	31.49	
For 100 Mil Material, Add	62.98	
For 125 Mil Material, Add	99.18	
For 150 Mil Material, Add	135.37	
For 200 Mil Material, Add	199.31	
For 2 To 5 Manholes, Deduct	-15.50	
For 6 To 10 Manholes, Deduct	-25.36	
For >10 Manholes, Deduct	-50.72	
33 05 84 00-0057 VLF 60 Mil Polyurethane Coating Of 5' Diameter Manhole Interior	281.85	
For 80 Mil Material, Add	39.38	
For 100 Mil Material, Add	78.76	
For 125 Mil Material, Add	124.02	
For 150 Mil Material, Add	169.29	
For 200 Mil Material, Add	249.25	
For 2 To 5 Manholes, Deduct	-19.37	
For 6 To 10 Manholes, Deduct	-31.70	
For >10 Manholes, Deduct	-63.40	
33 05 84 00-0058 VLF 60 Mil Polyurethane Coating Of 6' Diameter Manhole Interior	326.93	
For 80 Mil Material, Add	46.41	
For 100 Mil Material, Add	92.81	
For 125 Mil Material, Add	146.28	
For 150 Mil Material, Add	199.74	
For 200 Mil Material, Add	294.56	
For 2 To 5 Manholes, Deduct	-22.40	
For 6 To 10 Manholes, Deduct	-36.63	
For >10 Manholes, Deduct	-73.26	
33 05 84 00-0059 Polyvinyl Chloride (PVC) Liner (33 05 84 00-0052)		
Note: For new manholes and shop applied.		
33 05 84 00-0060 VLF 3' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	199.07	
33 05 84 00-0061 VLF 3-1/2' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	244.02	
33 05 84 00-0062 VLF 4' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	297.78	
33 05 84 00-0063 VLF 5' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	373.96	
33 05 84 00-0064 VLF 6' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	450.13	
33 05 84 00-0065 SF Polyvinyl Chloride (PVC) Liner At Structures	35.43	
33 05 84 00-0066 Concrete Grade Extensions/Grade Rings (33 05 84 00-0001)		
33 05 84 00-0067 18" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0066)		
33 05 84 00-0068 EA 4" Rise, 18" Diameter, Concrete Grade Extensions/Grade Rings	74.68	
33 05 84 00-0069 EA 6" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring.....	81.26	
33 05 84 00-0070 EA 8" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring.....	87.84	
33 05 84 00-0071 EA 10" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring.....	94.43	
33 05 84 00-0072 24" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0066)		
33 05 84 00-0073 EA 4" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring.....	83.81	
33 05 84 00-0074 EA 6" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring.....	91.29	
33 05 84 00-0075 EA 8" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring.....	98.77	
33 05 84 00-0076 EA 10" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring.....	106.25	
33 05 84 00-0077 30" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0066)		
33 05 84 00-0078 EA 4" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring.....	92.75	
33 05 84 00-0079 EA 6" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring.....	101.09	
33 05 84 00-0080 EA 8" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring.....	109.43	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 05 84 00-0081 EA 10" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring.....117.77

33 05 84 00-0082 Bentonite Collar (33 05 84 00-0001)

33 05 84 00-0083 Bentonite Collar At Manhole Connections (33 05 84 00-0082)

33 05 84 00-0084 EA Up To 12" Pipe, Bentonite Collar At Manhole Connection	125.70
33 05 84 00-0085 EA >12" To 21", Bentonite Collar At Manhole Connection.....	199.30
33 05 84 00-0086 EA >21" To 30" Pipe, Bentonite Collar At Manhole Connection	317.53
33 05 84 00-0087 EA >30" To 36" Pipe, Bentonite Collar At Manhole Connection	744.16
33 05 84 00-0088 EA >36" To 48" Pipe, Bentonite Collar At Manhole Connection	1,149.56
33 05 84 00-0089 EA >48" To 60" Pipe, Bentonite Collar At Manhole Connection	2,084.17

33 05 84 00-0090 Waste Water Collection System Taps (33 05 84)

Note: For tapping existing structures only. Includes grout.

33 05 84 00-0091 Brick Manhole Taps (33 05 84 00-0090)

33 05 84 00-0092 EA 4" Tap In 6" Brick Manhole.....	471.89
33 05 84 00-0093 EA 6" Tap In 6" Brick Manhole.....	527.27
33 05 84 00-0094 EA 8" Tap In 6" Brick Manhole.....	581.65
33 05 84 00-0095 EA 10" Tap In 6" Brick Manhole.....	635.94
33 05 84 00-0096 EA 12" Tap In 6" Brick Manhole.....	701.52
33 05 84 00-0097 EA 15" Tap In 6" Brick Manhole.....	755.69

33 05 84 00-0098 Precast Concrete Manhole Tap (33 05 84 00-0090)

33 05 84 00-0099 EA 4" Tap In Existing Precast Concrete Manhole.....	686.59
33 05 84 00-0100 EA 6" Tap In Existing Precast Concrete Manhole.....	769.66
33 05 84 00-0101 EA 8" Tap In Existing Precast Concrete Manhole.....	859.86
33 05 84 00-0102 EA 10" Tap In Existing Precast Concrete Manhole.....	941.28
33 05 84 00-0103 EA 12" Tap In Existing Precast Concrete Manhole.....	1,022.55
33 05 84 00-0104 EA 15" Tap In Existing Precast Concrete Manhole.....	1,105.77
33 05 84 00-0105 EA 18" Tap In Existing Precast Concrete Manhole.....	1,269.67
33 05 84 00-0106 EA 24" Tap In Existing Precast Concrete Manhole.....	1,630.10

33 05 97 Identification and Signage for Utilities (33 05)

33 05 97 16 Markers for Utility Identification (33 05 97)

33 05 97 16-0001 Reflective Sheeting Delineators (33 05 97 16)

33 05 97 16-0002 EA Delineator, Single Unit One Way On Post, 3" Diameter or 3" x 3" Square	39.56
33 05 97 16-0003 EA Delineator, Single Unit Back To Back On Post, 3" Diameter or 3" x 3" Square.....	41.62
33 05 97 16-0004 EA Delineator, Single Unit Two Way On Post, 3" Diameter or 3" x 3" Square.....	45.75
33 05 97 16-0005 EA Delineator, Single Unit Three Way On Post, 3" Diameter or 3" x 3" Square	47.81
33 05 97 16-0006 EA Delineator, Single Unit Four Way On Post, 3" Diameter or 3" x 3" Square	49.88
33 05 97 16-0007 EA Delineator, Double Unit On Post, 3" Diameter or 3" x 3" Square	44.20
33 05 97 16-0008 EA Delineator, Single Unit Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	40.07
33 05 97 16-0009 EA Delineator, Double Unit Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	42.14
33 05 97 16-0010 EA Delineator, Single Unit, Back To Back, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	42.14
33 05 97 16-0011 EA Delineator, Single Unit, Two Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	44.20
33 05 97 16-0012 EA Delineator, Single Unit, Three Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	46.27
33 05 97 16-0013 EA Delineator, Single Unit, Four Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	48.33
33 05 97 16-0014 EA Delineator, White, Single Unit, One Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	66.90
33 05 97 16-0015 EA Delineator, Single Unit Three Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	47.81
33 05 97 16-0016 EA Delineator, White, Double Unit On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	69.48
33 05 97 16-0017 EA Delineator, Yellow, Single Unit, One Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	66.90
33 05 97 16-0018 EA Delineator, Yellow, Single Unit, Back To Back On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	68.97
33 05 97 16-0019 EA Delineator, Yellow, Double Unit, On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	69.48
33 05 97 16-0020 EA Relocate Delineator	52.69

33 05 97 16-0021 Reference Markers (33 05 97 16)

33 05 97 16-0022 EA Reference Marker, 4' Mounting Height.....	64.35
33 05 97 16-0023 EA Reference Marker, 7' Mounting Height.....	76.80
33 05 97 16-0024 EA Reference Marker, Band Or Bracket Mounted.....	73.17
33 05 97 16-0025 EA Reference Marker, Furnish Panel Only.....	53.42
33 05 97 16-0026 EA Relocate Reference Marker	52.69

33 05 97 16-0027 Object Markers (33 05 97 16)

33 05 97 16-0028 EA Object Marker, Type L-1	72.24
33 05 97 16-0029 EA Object Marker, Type L-2	67.06
33 05 97 16-0030 EA Object Marker, Type K-1.....	76.39

33 Utilities**33 05 Common Work Results for Utilities****33 05 97 Identification and Signage for Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 05 97 16-0031 EA Object Marker, Type K-2	71.21	
33 05 97 16-0032 EA Object Marker, Type Q	50.46	

33 10 Water Utilities ⁽³³⁾**33 11 Groundwater Sources** ^(33 10)**33 11 13 Potable Water Supply Wells** ^(33 11)33 11 13 00-0001 Drill And Test Water Well ^(33 11 13)33 11 13 00-0002 Drill Hole ^(33 11 13 00-0001)

Note: Excludes loading and hauling of spoils.

33 11 13 00-0003 Mobilization And Demobilization ^(33 11 13 00-0002)

33 11 13 00-0004 EA Up To 12" Diameter, Well Drilling Mobilization And Demobilization	905.62	
33 11 13 00-0005 EA >12" To 24" Diameter, Well Drilling Mobilization And Demobilization	1,107.97	
33 11 13 00-0006 EA >24" To 36" Diameter, Well Drilling Mobilization And Demobilization	1,661.95	

33 11 13 00-0007 Drill Hole In Normal Soil, Sand, Gravel, O.B. ^(33 11 13 00-0002)

Note: Excludes well casing, gravel or materials.

33 11 13 00-0008 LF Up To 6" Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	21.47	
For >100 To 250, Add	0.54	
For >250 To 400, Add	1.07	
For >400 To 600, Add	1.61	
For >600 To 750, Add	2.15	
For >750, Add	2.68	
33 11 13 00-0009 LF 8" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	25.48	
For >100 To 250, Add	0.64	
For >250 To 400, Add	1.27	
For >400 To 600, Add	1.91	
For >600 To 750, Add	2.55	
For >750, Add	3.19	
33 11 13 00-0010 LF 10" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	34.07	
For >100 To 250, Add	0.85	
For >250 To 400, Add	1.70	
For >400 To 600, Add	2.56	
For >600 To 750, Add	3.41	
For >750, Add	4.26	
33 11 13 00-0011 LF 12" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	53.33	
For >100 To 250, Add	1.33	
For >250 To 400, Add	2.67	
For >400 To 600, Add	4.00	
For >600 To 750, Add	5.33	
For >750, Add	6.67	
33 11 13 00-0012 LF 14" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	76.73	
For >100 To 250, Add	1.92	
For >250 To 400, Add	3.84	
For >400 To 600, Add	5.75	
For >600 To 750, Add	7.67	
For >750, Add	9.59	
33 11 13 00-0013 LF 16" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	100.27	
For >100 To 250, Add	2.51	
For >250 To 400, Add	5.01	
For >400 To 600, Add	7.52	
For >600 To 750, Add	10.03	
For >750, Add	12.53	
33 11 13 00-0014 LF 18" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	119.11	
For >100 To 250, Add	2.98	
For >250 To 400, Add	5.96	
For >400 To 600, Add	8.93	
For >600 To 750, Add	11.91	
For >750, Add	14.89	
33 11 13 00-0015 LF 20" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	138.50	
For >100 To 250, Add	3.46	
For >250 To 400, Add	6.93	
For >400 To 600, Add	10.39	
For >600 To 750, Add	13.85	
For >750, Add	17.31	
33 11 13 00-0016 LF 22" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	162.74	
For >100 To 250, Add	4.07	
For >250 To 400, Add	8.14	
For >400 To 600, Add	12.21	
For >600 To 750, Add	16.27	
For >750, Add	20.34	
33 11 13 00-0017 LF 24" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	191.81	
For >100 To 250, Add	4.80	
For >250 To 400, Add	9.59	
For >400 To 600, Add	14.39	
For >600 To 750, Add	19.18	
For >750, Add	23.98	



Utilities	33	CS
Water Utilities	33 10	
Groundwater Sources	33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0018 LF 26" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	207.33	
For >100 To 250, Add	5.18	
For >250 To 400, Add	10.37	
For >400 To 600, Add	15.55	
For >600 To 750, Add	20.73	
For >750, Add	25.92	
33 11 13 00-0019 LF 28" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	228.10	
For >100 To 250, Add	5.70	
For >250 To 400, Add	11.41	
For >400 To 600, Add	17.11	
For >600 To 750, Add	22.81	
For >750, Add	28.51	
33 11 13 00-0020 LF 30" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	249.85	
For >100 To 250, Add	6.25	
For >250 To 400, Add	12.49	
For >400 To 600, Add	18.74	
For >600 To 750, Add	24.99	
For >750, Add	31.23	
33 11 13 00-0021 LF 36" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	310.79	
For >100 To 250, Add	7.77	
For >250 To 400, Add	15.54	
For >400 To 600, Add	23.31	
For >600 To 750, Add	31.08	
For >750, Add	38.85	
33 11 13 00-0022 Drill Hole In Sedimentary Rock <small>(33 11 13 00-0002)</small>		
33 11 13 00-0023 LF 6" Water Well Hole Drilled In Sedimentary Rock.....	43.76	
For >100 To 250, Add	1.09	
For >250 To 400, Add	2.19	
For >400 To 600, Add	3.28	
For >600 To 750, Add	4.38	
For >750, Add	5.47	
33 11 13 00-0024 LF 8" Water Well Hole Drilled In Sedimentary Rock.....	50.97	
For >100 To 250, Add	1.27	
For >250 To 400, Add	2.55	
For >400 To 600, Add	3.82	
For >600 To 750, Add	5.10	
For >750, Add	6.37	
33 11 13 00-0025 LF 10" Water Well Hole Drilled In Sedimentary Rock.....	81.61	
For >100 To 250, Add	2.04	
For >250 To 400, Add	4.08	
For >400 To 600, Add	6.12	
For >600 To 750, Add	8.16	
For >750, Add	10.20	
33 11 13 00-0026 LF 12" Water Well Hole Drilled In Sedimentary Rock.....	106.69	
For >100 To 250, Add	2.67	
For >250 To 400, Add	5.33	
For >400 To 600, Add	8.00	
For >600 To 750, Add	10.67	
For >750, Add	13.34	
33 11 13 00-0027 LF 14" Water Well Hole Drilled In Sedimentary Rock.....	153.57	
For >100 To 250, Add	3.84	
For >250 To 400, Add	7.68	
For >400 To 600, Add	11.52	
For >600 To 750, Add	15.36	
For >750, Add	19.20	
33 11 13 00-0028 LF 16" Water Well Hole Drilled In Sedimentary Rock.....	200.43	
For >100 To 250, Add	5.01	
For >250 To 400, Add	10.02	
For >400 To 600, Add	15.03	
For >600 To 750, Add	20.04	
For >750, Add	25.05	
33 11 13 00-0029 LF 18" Water Well Hole Drilled In Sedimentary Rock.....	238.33	
For >100 To 250, Add	5.96	
For >250 To 400, Add	11.92	
For >400 To 600, Add	17.87	
For >600 To 750, Add	23.83	
For >750, Add	29.79	
33 11 13 00-0030 LF 20" Water Well Hole Drilled In Sedimentary Rock.....	276.55	
For >100 To 250, Add	6.91	
For >250 To 400, Add	13.83	
For >400 To 600, Add	20.74	
For >600 To 750, Add	27.66	
For >750, Add	34.57	
33 11 13 00-0031 LF 22" Water Well Hole Drilled In Sedimentary Rock.....	325.74	
For >100 To 250, Add	8.14	
For >250 To 400, Add	16.29	
For >400 To 600, Add	24.43	
For >600 To 750, Add	32.57	
For >750, Add	40.72	

33	Utilities
33 10	Water Utilities
33 11	Groundwater Sources



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0032 LF 24" Water Well Hole Drilled In Sedimentary Rock.....	376.27	
For >100 To 250, Add	9.41	
For >250 To 400, Add	18.81	
For >400 To 600, Add	28.22	
For >600 To 750, Add	37.63	
For >750, Add	47.03	
33 11 13 00-0033 LF 26" Water Well Hole Drilled In Sedimentary Rock.....	414.66	
For >100 To 250, Add	10.37	
For >250 To 400, Add	20.73	
For >400 To 600, Add	31.10	
For >600 To 750, Add	41.47	
For >750, Add	51.83	
33 11 13 00-0034 LF 28" Water Well Hole Drilled In Sedimentary Rock.....	456.20	
For >100 To 250, Add	11.41	
For >250 To 400, Add	22.81	
For >400 To 600, Add	34.22	
For >600 To 750, Add	45.62	
For >750, Add	57.03	
33 11 13 00-0035 LF 30" Water Well Hole Drilled In Sedimentary Rock.....	499.70	
For >100 To 250, Add	12.49	
For >250 To 400, Add	24.99	
For >400 To 600, Add	37.48	
For >600 To 750, Add	49.97	
For >750, Add	62.46	
33 11 13 00-0036 LF 36" Water Well Hole Drilled In Sedimentary Rock.....	621.57	
For >100 To 250, Add	15.54	
For >250 To 400, Add	31.08	
For >400 To 600, Add	46.62	
For >600 To 750, Add	62.16	
For >750, Add	77.70	
33 11 13 00-0037 Drill Hole In Crystalline Rock (33 11 13 00-0002)	90.03	
33 11 13 00-0038 LF 6" Water Well Hole Drilled In Crystalline Rock.....	90.03	
For >100 To 250, Add	2.25	
For >250 To 400, Add	4.50	
For >400 To 600, Add	6.75	
For >600 To 750, Add	9.00	
For >750, Add	11.25	
33 11 13 00-0039 LF 8" Water Well Hole Drilled In Crystalline Rock.....	103.87	
For >100 To 250, Add	2.60	
For >250 To 400, Add	5.19	
For >400 To 600, Add	7.79	
For >600 To 750, Add	10.39	
For >750, Add	12.98	
33 11 13 00-0040 LF 10" Water Well Hole Drilled In Crystalline Rock.....	119.11	
For >100 To 250, Add	2.98	
For >250 To 400, Add	5.96	
For >400 To 600, Add	8.93	
For >600 To 750, Add	11.91	
For >750, Add	14.89	
33 11 13 00-0041 LF 12" Water Well Hole Drilled In Crystalline Rock.....	150.96	
For >100 To 250, Add	3.77	
For >250 To 400, Add	7.55	
For >400 To 600, Add	11.32	
For >600 To 750, Add	15.10	
For >750, Add	18.87	
33 11 13 00-0042 LF 14" Water Well Hole Drilled In Crystalline Rock.....	195.28	
For >100 To 250, Add	4.88	
For >250 To 400, Add	9.76	
For >400 To 600, Add	14.65	
For >600 To 750, Add	19.53	
For >750, Add	24.41	
33 11 13 00-0043 LF 16" Water Well Hole Drilled In Crystalline Rock.....	283.92	
For >100 To 250, Add	7.10	
For >250 To 400, Add	14.20	
For >400 To 600, Add	21.29	
For >600 To 750, Add	28.39	
For >750, Add	35.49	
33 11 13 00-0044 LF 18" Water Well Hole Drilled In Crystalline Rock.....	337.93	
For >100 To 250, Add	8.45	
For >250 To 400, Add	16.90	
For >400 To 600, Add	25.34	
For >600 To 750, Add	33.79	
For >750, Add	42.24	
33 11 13 00-0045 LF 20" Water Well Hole Drilled In Crystalline Rock.....	391.95	
For >100 To 250, Add	9.80	
For >250 To 400, Add	19.60	
For >400 To 600, Add	29.40	
For >600 To 750, Add	39.20	
For >750, Add	48.99	



Utilities	33	CS
Water Utilities	33 10	
Groundwater Sources	33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0046 LF 22" Water Well Hole Drilled In Crystalline Rock	461.19	
For >100 To 250, Add	11.53	
For >250 To 400, Add	23.06	
For >400 To 600, Add	34.59	
For >600 To 750, Add	46.12	
For >750, Add	57.65	
33 11 13 00-0047 LF 24" Water Well Hole Drilled In Crystalline Rock	533.21	
For >100 To 250, Add	13.33	
For >250 To 400, Add	26.66	
For >400 To 600, Add	39.99	
For >600 To 750, Add	53.32	
For >750, Add	66.65	
33 11 13 00-0048 Furnish And Install Casing (33 11 13 00-0001)		
Note: Excludes drilling of hole.		
33 11 13 00-0049 Steel Well Casing (33 11 13 00-0048)		
33 11 13 00-0050 LF 6" Diameter, Steel Well Casing, Flush	31.52	
For >100 To 250, Deduct	-0.98	
For >250 To 400, Deduct	-1.76	
For >400 To 600, Deduct	-2.65	
For >600 To 750, Deduct	-3.53	
For >750, Deduct	-4.66	
33 11 13 00-0051 LF 8" Diameter, Steel Well Casing, Flush	39.21	
For >100 To 250, Deduct	-1.22	
For >250 To 400, Deduct	-2.20	
For >400 To 600, Deduct	-3.29	
For >600 To 750, Deduct	-4.39	
For >750, Deduct	-5.80	
33 11 13 00-0052 LF 10" Diameter, Steel Well Casing, Flush	57.54	
For >100 To 250, Deduct	-1.72	
For >250 To 400, Deduct	-3.16	
For >400 To 600, Deduct	-4.74	
For >600 To 750, Deduct	-6.32	
For >750, Deduct	-8.27	
33 11 13 00-0053 LF 12" Diameter, Steel Well Casing, Flush	95.48	
For >100 To 250, Deduct	-2.73	
For >250 To 400, Deduct	-5.11	
For >400 To 600, Deduct	-7.67	
For >600 To 750, Deduct	-10.23	
For >750, Deduct	-13.22	
33 11 13 00-0054 LF 14" Diameter, Steel Well Casing, Flush	107.79	
For >100 To 250, Deduct	-3.17	
For >250 To 400, Deduct	-5.86	
For >400 To 600, Deduct	-8.79	
For >600 To 750, Deduct	-11.72	
For >750, Deduct	-15.26	
33 11 13 00-0055 LF 16" Diameter, Steel Well Casing, Flush	126.79	
For >100 To 250, Deduct	-3.75	
For >250 To 400, Deduct	-6.92	
For >400 To 600, Deduct	-10.38	
For >600 To 750, Deduct	-13.85	
For >750, Deduct	-18.07	
33 11 13 00-0056 LF 18" Diameter, Steel Well Casing, Flush	145.21	
For >100 To 250, Deduct	-4.36	
For >250 To 400, Deduct	-8.00	
For >400 To 600, Deduct	-11.99	
For >600 To 750, Deduct	-15.99	
For >750, Deduct	-20.94	
33 11 13 00-0057 LF 20" Diameter, Steel Well Casing, Flush	166.07	
For >100 To 250, Deduct	-5.06	
For >250 To 400, Deduct	-9.21	
For >400 To 600, Deduct	-13.81	
For >600 To 750, Deduct	-18.42	
For >750, Deduct	-24.19	
33 11 13 00-0058 LF 24" Diameter, Steel Well Casing, Flush	193.79	
For >100 To 250, Deduct	-5.86	
For >250 To 400, Deduct	-10.71	
For >400 To 600, Deduct	-16.06	
For >600 To 750, Deduct	-21.41	
For >750, Deduct	-28.09	
33 11 13 00-0059 LB Steel Well Casing, Furnish And Install	1.08	
For >100 To 250, Deduct	-0.04	
For >250 To 400, Deduct	-0.07	
For >400 To 600, Deduct	-0.10	
For >600 To 750, Deduct	-0.13	
For >750, Deduct	-0.18	

33 11 13 00-0060 Stainless Steel Well Casing, Flush Threaded (33 11 13 00-0048)

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0061 LF 6" Diameter, Stainless Steel Well Casing, Flush.....	64.96	
For >100 To 250, Deduct	-1.81	
For >250 To 400, Deduct	-3.44	
For >400 To 600, Deduct	-5.15	
For >600 To 750, Deduct	-6.87	
For >750, Deduct	-8.84	
33 11 13 00-0062 LF 8" Diameter, Stainless Steel Well Casing, Flush.....	97.36	
For >100 To 250, Deduct	-2.67	
For >250 To 400, Deduct	-5.10	
For >400 To 600, Deduct	-7.66	
For >600 To 750, Deduct	-10.21	
For >750, Deduct	-13.06	
33 11 13 00-0063 LF 10" Diameter, Stainless Steel Well Casing, Flush.....	135.89	
For >100 To 250, Deduct	-3.70	
For >250 To 400, Deduct	-7.10	
For >400 To 600, Deduct	-10.64	
For >600 To 750, Deduct	-14.19	
For >750, Deduct	-18.13	
33 11 13 00-0064 LF 12" Diameter, Stainless Steel Well Casing, Flush.....	158.07	
For >100 To 250, Deduct	-4.31	
For >250 To 400, Deduct	-8.26	
For >400 To 600, Deduct	-12.39	
For >600 To 750, Deduct	-16.52	
For >750, Deduct	-21.12	
33 11 13 00-0065 Stainless Steel Well Casing, Welded Ring (33 11 13 00-0048)		
33 11 13 00-0066 LF 10" Diameter, Stainless Steel Well Casing, Welded	144.93	
For >100 To 250, Deduct	-4.15	
For >250 To 400, Deduct	-7.77	
For >400 To 600, Deduct	-11.66	
For >600 To 750, Deduct	-15.55	
For >750, Deduct	-20.12	
33 11 13 00-0067 LF 12" Diameter, Stainless Steel Well Casing, Welded	167.87	
For >100 To 250, Deduct	-4.80	
For >250 To 400, Deduct	-9.00	
For >400 To 600, Deduct	-13.49	
For >600 To 750, Deduct	-17.99	
For >750, Deduct	-23.27	
33 11 13 00-0068 LF 14" Diameter, Stainless Steel Well Casing, Welded	201.52	
For >100 To 250, Deduct	-5.72	
For >250 To 400, Deduct	-10.75	
For >400 To 600, Deduct	-16.13	
For >600 To 750, Deduct	-21.51	
For >750, Deduct	-27.77	
33 11 13 00-0069 LF 16" Diameter, Stainless Steel Well Casing, Welded	230.74	
For >100 To 250, Deduct	-6.54	
For >250 To 400, Deduct	-12.31	
For >400 To 600, Deduct	-18.46	
For >600 To 750, Deduct	-24.62	
For >750, Deduct	-31.78	
33 11 13 00-0070 LF 18" Diameter, Stainless Steel Well Casing, Welded	254.93	
For >100 To 250, Deduct	-7.26	
For >250 To 400, Deduct	-13.63	
For >400 To 600, Deduct	-20.45	
For >600 To 750, Deduct	-27.26	
For >750, Deduct	-35.23	
33 11 13 00-0071 LF 20" Diameter, Stainless Steel Well Casing, Welded	333.59	
For >100 To 250, Deduct	-9.39	
For >250 To 400, Deduct	-17.73	
For >400 To 600, Deduct	-26.60	
For >600 To 750, Deduct	-35.47	
For >750, Deduct	-45.71	
33 11 13 00-0072 LF 24" Diameter, Stainless Steel Well Casing, Welded	439.21	
For >100 To 250, Deduct	-12.30	
For >250 To 400, Deduct	-23.28	
For >400 To 600, Deduct	-34.92	
For >600 To 750, Deduct	-46.56	
For >750, Deduct	-59.91	
33 11 13 00-0073 Polyvinyl Chloride (PVC) Well Casing, Schedule 80 (33 11 13 00-0048)		
33 11 13 00-0074 LF 6" Polyvinyl Chloride (PVC) Well Casing.....	37.05	
For >100 To 250, Deduct	-1.08	
For >250 To 400, Deduct	-2.00	
For >400 To 600, Deduct	-3.00	
For >600 To 750, Deduct	-4.01	
For >750, Deduct	-5.20	
33 11 13 00-0075 LF 8" Polyvinyl Chloride (PVC) Well Casing.....	58.82	
For >100 To 250, Deduct	-1.71	
For >250 To 400, Deduct	-3.18	
For >400 To 600, Deduct	-4.76	
For >600 To 750, Deduct	-6.35	
For >750, Deduct	-8.25	



Utilities	33	CS
Water Utilities	33 10	
Groundwater Sources	33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0076 LF 10" Polyvinyl Chloride (PVC) Well Casing	88.90	
For >100 To 250, Deduct	-2.58	
For >250 To 400, Deduct	-4.80	
For >400 To 600, Deduct	-7.20	
For >600 To 750, Deduct	-9.61	
For >750, Deduct	-12.47	
33 11 13 00-0077 LF 12" Polyvinyl Chloride (PVC) Well Casing	104.93	
For >100 To 250, Deduct	-3.06	
For >250 To 400, Deduct	-5.68	
For >400 To 600, Deduct	-8.52	
For >600 To 750, Deduct	-11.36	
For >750, Deduct	-14.76	
33 11 13 00-0078 Furnish And Install Well Screen Assembly (33 11 13 00-0001)		
33 11 13 00-0079 Stainless Steel Well Screen (33 11 13 00-0078)		
33 11 13 00-0080 LF 2" Stainless Steel Well Screen	20.72	1.51
For >100 To 250, Deduct	-0.71	
For >250 To 400, Deduct	-1.23	
For >400 To 600, Deduct	-1.84	
For >600 To 750, Deduct	-2.46	
For >750, Deduct	-3.32	
33 11 13 00-0081 LF 3" Stainless Steel Well Screen	32.54	1.51
For >100 To 250, Deduct	-1.02	
For >250 To 400, Deduct	-1.84	
For >400 To 600, Deduct	-2.75	
For >600 To 750, Deduct	-3.67	
For >750, Deduct	-4.86	
33 11 13 00-0082 LF 4" Stainless Steel Well Screen	40.88	2.26
For >100 To 250, Deduct	-1.29	
For >250 To 400, Deduct	-2.31	
For >400 To 600, Deduct	-3.46	
For >600 To 750, Deduct	-4.62	
For >750, Deduct	-6.11	
33 11 13 00-0083 LF 5" Stainless Steel Well Screen	51.62	2.26
For >100 To 250, Deduct	-1.60	
For >250 To 400, Deduct	-2.90	
For >400 To 600, Deduct	-4.34	
For >600 To 750, Deduct	-5.79	
For >750, Deduct	-7.65	
33 11 13 00-0084 LF 6" Stainless Steel Well Screen	62.05	3.01
For >100 To 250, Deduct	-1.97	
For >250 To 400, Deduct	-3.52	
For >400 To 600, Deduct	-5.28	
For >600 To 750, Deduct	-7.04	
For >750, Deduct	-9.35	
33 11 13 00-0085 LF 8" Stainless Steel Well Screen	80.95	3.77
For >100 To 250, Deduct	-2.56	
For >250 To 400, Deduct	-4.58	
For >400 To 600, Deduct	-6.87	
For >600 To 750, Deduct	-9.17	
For >750, Deduct	-12.15	
33 11 13 00-0086 LF 10" Stainless Steel Well Screen	102.88	6.03
For >100 To 250, Deduct	-3.29	
For >250 To 400, Deduct	-5.87	
For >400 To 600, Deduct	-8.80	
For >600 To 750, Deduct	-11.73	
For >750, Deduct	-15.61	
33 11 13 00-0087 LF 12" Stainless Steel Well Screen	120.68	7.53
For >100 To 250, Deduct	-3.86	
For >250 To 400, Deduct	-6.88	
For >400 To 600, Deduct	-10.32	
For >600 To 750, Deduct	-13.76	
For >750, Deduct	-18.29	
33 11 13 00-0088 LF 14" Stainless Steel Well Screen	132.65	8.29
For >100 To 250, Deduct	-4.29	
For >250 To 400, Deduct	-7.60	
For >400 To 600, Deduct	-11.41	
For >600 To 750, Deduct	-15.21	
For >750, Deduct	-20.27	
33 11 13 00-0089 LF 16" Stainless Steel Well Screen	143.73	9.79
For >100 To 250, Deduct	-4.69	
For >250 To 400, Deduct	-8.28	
For >400 To 600, Deduct	-12.42	
For >600 To 750, Deduct	-16.56	
For >750, Deduct	-22.11	
33 11 13 00-0090 LF 18" Stainless Steel Well Screen	172.65	11.30
For >100 To 250, Deduct	-5.66	
For >250 To 400, Deduct	-9.98	
For >400 To 600, Deduct	-14.97	
For >600 To 750, Deduct	-19.96	
For >750, Deduct	-26.69	

33	Utilities
33 10	Water Utilities
33 11	Groundwater Sources



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0091 LF 20" Stainless Steel Well Screen.....	217.72	14.31
For >100 To 250, Deduct	-7.13	
For >250 To 400, Deduct	-12.58	
For >400 To 600, Deduct	-18.86	
For >600 To 750, Deduct	-25.15	
For >750, Deduct	-33.64	
33 11 13 00-0092 LF 24" Stainless Steel Well Screen.....	282.51	18.83
For >100 To 250, Deduct	-9.28	
For >250 To 400, Deduct	-16.34	
For >400 To 600, Deduct	-24.51	
For >600 To 750, Deduct	-32.68	
For >750, Deduct	-43.73	
33 11 13 00-0093 LF 26" Stainless Steel Well Screen.....	325.62	21.85
For >100 To 250, Deduct	-10.65	
For >250 To 400, Deduct	-18.79	
For >400 To 600, Deduct	-28.19	
For >600 To 750, Deduct	-37.58	
For >750, Deduct	-50.25	
33 11 13 00-0094 Slotted Polyvinyl Chloride (PVC) Well Screen, Schedule 40 <small>(33 11 13 00-0078)</small>		
33 11 13 00-0095 LF 1-1/4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	11.96	
For >100 To 250, Deduct	-0.44	
For >250 To 400, Deduct	-0.74	
For >400 To 600, Deduct	-1.11	
For >600 To 750, Deduct	-1.49	
For >750, Deduct	-2.05	
For Schedule 80, Add	2.47	
33 11 13 00-0096 LF 1-1/2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	13.59	
For >100 To 250, Deduct	-0.49	
For >250 To 400, Deduct	-0.83	
For >400 To 600, Deduct	-1.25	
For >600 To 750, Deduct	-1.67	
For >750, Deduct	-2.29	
For Schedule 80, Add	2.96	
33 11 13 00-0097 LF 2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	19.70	
For >100 To 250, Deduct	-0.77	
For >250 To 400, Deduct	-1.26	
For >400 To 600, Deduct	-1.89	
For >600 To 750, Deduct	-2.52	
For >750, Deduct	-3.51	
For Schedule 80, Add	3.46	
33 11 13 00-0098 LF 3" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	27.98	
For >100 To 250, Deduct	-1.00	
For >250 To 400, Deduct	-1.70	
For >400 To 600, Deduct	-2.55	
For >600 To 750, Deduct	-3.39	
For >750, Deduct	-4.63	
For Schedule 80, Add	6.42	
33 11 13 00-0099 LF 4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	35.21	
For >100 To 250, Deduct	-1.26	
For >250 To 400, Deduct	-2.14	
For >400 To 600, Deduct	-3.21	
For >600 To 750, Deduct	-4.28	
For >750, Deduct	-5.83	
For Schedule 80, Add	8.05	
33 11 13 00-0100 LF 5" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	43.89	
For >100 To 250, Deduct	-1.55	
For >250 To 400, Deduct	-2.64	
For >400 To 600, Deduct	-3.97	
For >600 To 750, Deduct	-5.29	
For >750, Deduct	-7.19	
For Schedule 80, Add	10.37	
33 11 13 00-0101 LF 6" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	49.27	
For >100 To 250, Deduct	-1.83	
For >250 To 400, Deduct	-3.06	
For >400 To 600, Deduct	-4.59	
For >600 To 750, Deduct	-6.13	
For >750, Deduct	-8.43	
For Schedule 80, Add	10.12	
33 11 13 00-0102 LF 8" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	70.15	
For >100 To 250, Deduct	-2.52	
For >250 To 400, Deduct	-4.27	
For >400 To 600, Deduct	-6.41	
For >600 To 750, Deduct	-8.55	
For >750, Deduct	-11.68	
For Schedule 80, Add	15.80	
33 11 13 00-0103 Furnish And Install Gravel Pack Material <small>(33 11 13 00-0001)</small>		
Note: Quantity is based on 3" space between wall and the casing or well screen.		
33 11 13 00-0104 Artificial Gravel Pack <small>(33 11 13 00-0103)</small>		
Note: Excludes casing.		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0105 LF Artificial Gravel Pack, 6" Casing, 2" Screen	17.61	
For >100 To 250, Deduct	-0.66	
For >250 To 400, Deduct	-1.10	
For >400 To 600, Deduct	-1.65	
For >600 To 750, Deduct	-2.19	
For >750, Deduct	-3.02	
33 11 13 00-0106 LF Artificial Gravel Pack, 8" Casing, 2" Screen	25.80	
For >100 To 250, Deduct	-0.98	
For >250 To 400, Deduct	-1.63	
For >400 To 600, Deduct	-2.44	
For >600 To 750, Deduct	-3.26	
For >750, Deduct	-4.52	
33 11 13 00-0107 LF Artificial Gravel Pack, 10" Casing, 2" Screen	35.61	
For >100 To 250, Deduct	-1.40	
For >250 To 400, Deduct	-2.29	
For >400 To 600, Deduct	-3.43	
For >600 To 750, Deduct	-4.57	
For >750, Deduct	-6.37	
33 11 13 00-0108 LF Artificial Gravel Pack, 12" Casing, 2" Screen	45.85	
For >100 To 250, Deduct	-1.77	
For >250 To 400, Deduct	-2.92	
For >400 To 600, Deduct	-4.38	
For >600 To 750, Deduct	-5.84	
For >750, Deduct	-8.12	
33 11 13 00-0109 LF Artificial Gravel Pack, 14" Casing, 2" Screen	56.78	
For >100 To 250, Deduct	-2.17	
For >250 To 400, Deduct	-3.59	
For >400 To 600, Deduct	-5.39	
For >600 To 750, Deduct	-7.18	
For >750, Deduct	-9.95	
33 11 13 00-0110 LF Artificial Gravel Pack, 16" Casing, 2" Screen	73.95	
For >100 To 250, Deduct	-2.78	
For >250 To 400, Deduct	-4.62	
For >400 To 600, Deduct	-6.94	
For >600 To 750, Deduct	-9.25	
For >750, Deduct	-12.76	
33 11 13 00-0111 LF Artificial Gravel Pack, 18" Casing, 2" Screen	84.94	
For >100 To 250, Deduct	-3.17	
For >250 To 400, Deduct	-5.29	
For >400 To 600, Deduct	-7.94	
For >600 To 750, Deduct	-10.59	
For >750, Deduct	-14.60	
33 11 13 00-0112 LF Artificial Gravel Pack, 20" Casing, 2" Screen	100.56	
For >100 To 250, Deduct	-3.79	
For >250 To 400, Deduct	-6.31	
For >400 To 600, Deduct	-9.46	
For >600 To 750, Deduct	-12.61	
For >750, Deduct	-17.43	
33 11 13 00-0113 LF Artificial Gravel Pack, 24" Casing, 2" Screen	113.56	
For >100 To 250, Deduct	-4.31	
For >250 To 400, Deduct	-7.15	
For >400 To 600, Deduct	-10.72	
For >600 To 750, Deduct	-14.29	
For >750, Deduct	-19.77	
33 11 13 00-0114 LF Artificial Gravel Pack, 26" Casing, 2" Screen	122.81	
For >100 To 250, Deduct	-4.60	
For >250 To 400, Deduct	-7.67	
For >400 To 600, Deduct	-11.51	
For >600 To 750, Deduct	-15.35	
For >750, Deduct	-21.18	
33 11 13 00-0115 LF Artificial Gravel Pack, 30" Casing, 2" Screen	145.89	
For >100 To 250, Deduct	-5.53	
For >250 To 400, Deduct	-9.18	
For >400 To 600, Deduct	-13.77	
For >600 To 750, Deduct	-18.36	
For >750, Deduct	-25.40	
33 11 13 00-0116 LF Artificial Gravel Pack, 36" Casing, 2" Screen	167.65	
For >100 To 250, Deduct	-6.49	
For >250 To 400, Deduct	-10.68	
For >400 To 600, Deduct	-16.02	
For >600 To 750, Deduct	-21.36	
For >750, Deduct	-29.69	
33 11 13 00-0117 Develop Well <small>(33 11 13 00-0001)</small>		
Note: Pump out drilled well to remove debris and fine material remaining from the drilling process. Excludes disposal.		
33 11 13 00-0118 HR Develop Well	333.43	
33 11 13 00-0119 Pump Test <small>(33 11 13 00-0001)</small>		
Note: To determine water level and GPM flow rate.		
33 11 13 00-0120 HR Pump Test Well	298.58	
33 11 13 00-0121 Test Well <small>(33 11 13 00-0001)</small>		

33	Utilities
33 10	Water Utilities
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0122 VLF 2-1/2" Diameter Test Well	90.68	
33 11 13 00-0123 Surface Seal, Concrete Filled (33 11 13)		
33 11 13 00-0124 SF Surface Seal Well, Concrete Filled.....	31.87	
33 11 13 00-0125 Other Water Well (33 11 13)		
33 11 13 00-0126 SF Patch Hole In Well Casing	79.58	
33 11 13 00-0127 SF 1/2" Pressure Grout Well.....	2.47	
33 11 13 00-0128 SF 1" Pressure Grout Well.....	4.11	
33 11 13 00-0129 CF Sediment Removal In Well Casing For Existing Well	4.71	
33 11 13 00-0130 Sterilization Of Well (33 11 13)		
33 11 13 00-0131 EA Well Sterilization, Chlorine	1,490.41	
33 11 13 00-0132 Submersible Well Pumps (33 11 13)		
Note: Includes pump end, motor and control box.		
33 11 13 00-0133 4" Submersible Well Pumps (33 11 13 00-0132)		
33 11 13 00-0134 Powder Coated Case And Cast Iron Ends (33 11 13 00-0133)		
33 11 13 00-0135 EA 1/2 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends	1,292.98	431.44
33 11 13 00-0136 EA 3/4 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends	1,475.02	478.20
33 11 13 00-0137 EA 1 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends	1,636.96	531.33
33 11 13 00-0138 Stainless Steel Case And Ends (33 11 13 00-0133)		
33 11 13 00-0139 EA 1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel.....	1,465.86	425.07
33 11 13 00-0140 EA 3/4 HP Submersible Well Pump, 4" Diameter Stainless Steel.....	1,672.78	478.20
33 11 13 00-0141 EA 1 HP Submersible Well Pump, 4" Diameter Stainless Steel.....	1,876.15	531.33
33 11 13 00-0142 EA 1-1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel	2,152.93	584.47
33 11 13 00-0143 EA 2 HP Submersible Well Pump, 4" Diameter Stainless Steel.....	2,440.35	637.61
33 11 13 00-0144 EA 3 HP Submersible Well Pump, 4" Diameter Stainless Steel.....	3,008.12	743.87
33 11 13 00-0145 EA 5 HP Submersible Well Pump, 4" Diameter Stainless Steel.....	3,797.31	850.13
33 11 13 00-0146 6" Submersible Well Pumps (33 11 13 00-0132)		
33 11 13 00-0147 EA 5 HP Submersible Well Pump, 6" Diameter Stainless Steel.....	3,655.20	1,062.67
33 11 13 00-0148 EA 7.5 HP Submersible Well Pump, 6" Diameter Stainless Steel.....	4,224.01	1,168.94
33 11 13 00-0149 EA 10 HP Submersible Well Pump, 6" Diameter Stainless Steel.....	4,815.59	1,275.20
33 11 13 00-0150 EA 15 HP Submersible Well Pump, 6" Diameter Stainless Steel.....	6,089.66	1,487.74
33 14 Water Utility Transmission and Distribution (33 10)		
33 14 11 Water Utility Transmission Piping (33 14)		
See CSI section 33 14 13 00-0000 for water utility transmission piping.		
33 14 13 Public Water Utility Distribution Piping (33 14)		
Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
33 14 13 13 Ductile Iron Public Water Utility Distribution Piping (33 14 13)		
33 14 13 13-0001 Ductile Iron Piping (33 14 13 13)		
33 14 13 13-0002 Mechanical Joint Ductile Iron Piping (33 14 13 13-0001)		
Note: Cement lining and bituminous coating shall conform to ANSI A21.4. Fittings are C153. See CSI section 33 14 13 13-0484 for bolts and gaskets.		
33 14 13 13-0003 Mechanical Joint Ductile Iron Pipe (33 14 13 13-0002)		
Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.		
33 14 13 13-0004 LF 3", Class 51, Mechanical Joint Ductile Iron Pipe	34.05	11.54
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	11.62	
For Cement Mortar Lining (CML), Add	1.66	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	8.96	
For Fusion Bonded Epoxy Lining (206N), Add	2.99	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.25	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.70	
For Class 52, Add	3.67	
For Class 53, Add	9.55	
For Class 54, Add	13.59	
For Class 55, Add	15.67	
For Class 56, Add	17.72	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0005 LF 4", Class 50, Mechanical Joint Ductile Iron Pipe.....	36.84	12.28
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	12.77	
For Cement Mortar Lining (CML), Add	1.82	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	9.85	
For Fusion Bonded Epoxy Lining (206N), Add	3.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.37	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.84	
For Class 51, Add	1.81	
For Class 52, Add	4.02	
For Class 53, Add	10.47	
For Class 54, Add	14.91	
For Class 55, Add	17.19	
For Class 56, Add	19.43	
33 14 13 13-0006 LF 6", Class 50, Mechanical Joint Ductile Iron Pipe.....	39.28	12.89
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	13.86	
For Cement Mortar Lining (CML), Add	1.98	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	10.69	
For Fusion Bonded Epoxy Lining (206N), Add	3.56	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.49	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.96	
For Class 51, Add	1.95	
For Class 52, Add	4.35	
For Class 53, Add	11.34	
For Class 54, Add	16.15	
For Class 55, Add	18.61	
For Class 56, Add	21.03	
33 14 13 13-0007 LF 8", Class 50, Mechanical Joint Ductile Iron Pipe.....	45.63	13.39
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	17.73	
For Cement Mortar Lining (CML), Add	2.53	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	13.68	
For Fusion Bonded Epoxy Lining (206N), Add	4.56	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.90	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.28	
For Class 51, Add	2.44	
For Class 52, Add	5.45	
For Class 53, Add	14.34	
For Class 54, Add	20.43	
For Class 55, Add	23.52	
For Class 56, Add	26.56	
33 14 13 13-0008 LF 10", Class 50, Mechanical Joint Ductile Iron Pipe.....	61.79	19.03
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	19.77	
For Cement Mortar Lining (CML), Add	3.30	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	16.48	
For Fusion Bonded Epoxy Lining (206N), Add	5.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.47	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.09	
For Class 51, Add	3.20	
For Class 52, Add	7.15	
For Class 53, Add	18.74	
For Class 54, Add	26.69	
For Class 55, Add	30.75	
For Class 56, Add	34.73	
33 14 13 13-0009 LF 12", Class 50, Mechanical Joint Ductile Iron Pipe.....	74.14	21.15
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	21.05	
For Cement Mortar Lining (CML), Add	4.21	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	16.84	
For Fusion Bonded Epoxy Lining (206N), Add	7.58	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.16	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.71	
For Class 51, Add	4.03	
For Class 52, Add	9.01	
For Class 53, Add	23.76	
For Class 54, Add	33.86	
For Class 55, Add	38.98	
For Class 56, Add	44.01	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0010 LF 14", Class 50, Mechanical Joint Ductile Iron Pipe	88.25	23.75
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	22.96	
For Cement Mortar Lining (CML), Add	5.22	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	17.74	
For Fusion Bonded Epoxy Lining (206N), Add	9.39	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.91	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.41	
For Class 51, Add	4.95	
For Class 52, Add	11.08	
For Class 53, Add	29.32	
For Class 54, Add	41.80	
For Class 55, Add	48.10	
For Class 56, Add	54.29	
33 14 13 13-0011 LF 16", Class 50, Mechanical Joint Ductile Iron Pipe	99.72	27.21
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	23.99	
For Cement Mortar Lining (CML), Add	5.85	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	18.14	
For Fusion Bonded Epoxy Lining (206N), Add	10.53	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.39	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.99	
For Class 51, Add	5.56	
For Class 52, Add	12.45	
For Class 53, Add	32.90	
For Class 54, Add	46.90	
For Class 55, Add	53.98	
For Class 56, Add	60.93	
33 14 13 13-0012 LF 18", Class 50, Mechanical Joint Ductile Iron Pipe	123.12	31.73
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	30.77	
For Cement Mortar Lining (CML), Add	7.50	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	23.26	
For Fusion Bonded Epoxy Lining (206N), Add	13.51	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.63	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-6.16	
For Class 51, Add	7.08	
For Class 52, Add	15.84	
For Class 53, Add	42.02	
For Class 54, Add	59.91	
For Class 55, Add	68.93	
For Class 56, Add	77.78	
33 14 13 13-0013 LF 20", Class 50, Mechanical Joint Ductile Iron Pipe	140.33	38.08
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	31.40	
For Cement Mortar Lining (CML), Add	8.26	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	23.14	
For Fusion Bonded Epoxy Lining (206N), Add	14.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.20	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-7.02	
For Class 51, Add	7.85	
For Class 52, Add	17.57	
For Class 53, Add	46.45	
For Class 54, Add	66.22	
For Class 55, Add	76.20	
For Class 56, Add	86.02	
33 14 13 13-0014 LF 24", Class 50, Mechanical Joint Ductile Iron Pipe	183.02	47.60
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	34.38	
For Cement Mortar Lining (CML), Add	11.09	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	23.29	
For Fusion Bonded Epoxy Lining (206N), Add	19.96	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.32	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-9.15	
For Class 51, Add	10.47	
For Class 52, Add	23.44	
For Class 53, Add	62.14	
For Class 54, Add	88.61	
For Class 55, Add	101.94	
For Class 56, Add	115.04	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0015 LF 30", Class 50, Mechanical Joint Ductile Iron Pipe.....	233.32	51.24
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	48.48	
For Cement Mortar Lining (CML), Add	15.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	28.15	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.73	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-11.67	
For Class 51, Add	14.46	
For Class 52, Add	32.44	
For Class 53, Add	86.70	
For Class 54, Add	123.71	
For Class 55, Add	142.20	
For Class 56, Add	160.37	
33 14 13 13-0016 LF 36", Class 50, Mechanical Joint Ductile Iron Pipe.....	277.30	54.42
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	60.63	
For Cement Mortar Lining (CML), Add	19.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	35.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.67	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-13.87	
For Class 51, Add	17.90	
For Class 52, Add	40.20	
For Class 53, Add	107.87	
For Class 54, Add	153.97	
For Class 55, Add	176.92	
For Class 56, Add	199.45	
33 14 13 13-0017 LF 42", Class 50, Mechanical Joint Ductile Iron Pipe.....	338.47	57.60
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	78.10	
For Cement Mortar Lining (CML), Add	25.19	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	45.35	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.90	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-16.92	
For Class 51, Add	22.82	
For Class 52, Add	51.32	
For Class 53, Add	138.26	
For Class 54, Add	197.41	
For Class 55, Add	226.74	
For Class 56, Add	255.53	
33 14 13 13-0018 LF 48", Class 50, Mechanical Joint Ductile Iron Pipe.....	412.47	60.86
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	99.55	
For Cement Mortar Lining (CML), Add	32.11	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	57.80	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.08	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-20.62	
For Class 51, Add	28.85	
For Class 52, Add	64.93	
For Class 53, Add	175.51	
For Class 54, Add	250.67	
For Class 55, Add	287.81	
For Class 56, Add	324.28	
33 14 13 13-0019 Mechanical Joint Ductile Iron 90 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0020 EA 3" Mechanical Joint Ductile Iron 90 Degree Elbow.....	133.88	36.43
For Cement Mortar Lining (CML), Add	7.87	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	14.16	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.90	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0021 EA 4" Mechanical Joint Ductile Iron 90 Degree Elbow.....	151.58	43.54
For Cement Mortar Lining (CML), Add	8.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	15.41	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0022 EA 6" Mechanical Joint Ductile Iron 90 Degree Elbow.....	237.42	64.34
For Cement Mortar Lining (CML), Add	14.00	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	25.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.50	
Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0023 EA 8" Mechanical Joint Ductile Iron 90 Degree Elbow.....	319.30	76.32
For Cement Mortar Lining (CML), Add	20.36	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	36.65	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	15.27	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0024 EA 10" Mechanical Joint Ductile Iron 90 Degree Elbow.....	451.83	84.42
For Cement Mortar Lining (CML), Add	32.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	58.31	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.30	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0025 EA 12" Mechanical Joint Ductile Iron 90 Degree Elbow.....	586.15	99.03
For Cement Mortar Lining (CML), Add	43.62	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	78.51	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	32.71	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0026 EA 14" Mechanical Joint Ductile Iron 90 Degree Elbow.....	898.29	111.05
For Cement Mortar Lining (CML), Add	73.00	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	131.41	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	54.75	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0027 EA 16" Mechanical Joint Ductile Iron 90 Degree Elbow.....	1,183.80	126.91
For Cement Mortar Lining (CML), Add	99.15	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	178.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	74.36	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0028 EA 18" Mechanical Joint Ductile Iron 90 Degree Elbow.....	1,463.15	177.69
For Cement Mortar Lining (CML), Add	119.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	214.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	89.55	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0029 EA 20" Mechanical Joint Ductile Iron 90 Degree Elbow.....	2,001.37	222.11
For Cement Mortar Lining (CML), Add	166.49	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	299.68	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	124.87	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0030 EA 24" Mechanical Joint Ductile Iron 90 Degree Elbow.....	2,933.32	295.75
For Cement Mortar Lining (CML), Add	248.52	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	447.33	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	186.39	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0031 EA 30" Mechanical Joint Ductile Iron 90 Degree Elbow.....	4,468.78	317.29
For Cement Mortar Lining (CML), Add	398.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	717.85	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	299.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0032 EA 36" Mechanical Joint Ductile Iron 90 Degree Elbow.....	6,733.90	329.41
For Cement Mortar Lining (CML), Add	623.49	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,122.27	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	467.61	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0033 EA 42" Mechanical Joint Ductile Iron 90 Degree Elbow.....	11,268.36	380.75
For Cement Mortar Lining (CML), Add	1,069.15	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,924.46	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	801.86	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0034 EA 48" Mechanical Joint Ductile Iron 90 Degree Elbow.....	14,869.78	405.07
For Cement Mortar Lining (CML), Add	1,425.61	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,566.09	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,069.20	
Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0035 Mechanical Joint Ductile Iron 45 Degree Elbow (33 14 13 13-0002)



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0036 EA 3" Mechanical Joint Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	125.78 7.06 12.70 5.29	36.43
33 14 13 13-0037 EA 4" Mechanical Joint Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	136.53 7.06 12.70 5.29	43.54
33 14 13 13-0038 EA 6" Mechanical Joint Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	210.81 11.34 20.41 8.50	64.34
33 14 13 13-0039 EA 8" Mechanical Joint Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	281.13 16.55 29.78 12.41	76.32
33 14 13 13-0040 EA 10" Mechanical Joint Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	369.68 24.18 43.52 18.14	84.42
33 14 13 13-0041 EA 12" Mechanical Joint Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	510.95 36.10 64.97 27.07	99.03
33 14 13 13-0042 EA 14" Mechanical Joint Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	736.32 56.81 102.25 42.61	111.05
33 14 13 13-0043 EA 16" Mechanical Joint Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	900.35 70.81 127.45 53.10	126.91
33 14 13 13-0044 EA 18" Mechanical Joint Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,284.98 101.58 182.85 76.19	177.69
33 14 13 13-0045 EA 20" Mechanical Joint Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,421.73 108.52 195.34 81.39	222.11
33 14 13 13-0046 EA 24" Mechanical Joint Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,096.84 164.87 296.76 123.65	295.75
33 14 13 13-0047 EA 30" Mechanical Joint Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,830.14 334.94 602.89 251.21	317.29

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0048 EA 36" Mechanical Joint Ductile Iron 45 Degree Elbow.....	5,396.45	329.41
For Cement Mortar Lining (CML), Add	489.74	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	881.53	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	367.31	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0049 EA 42" Mechanical Joint Ductile Iron 45 Degree Elbow.....	8,101.76	380.75
For Cement Mortar Lining (CML), Add	752.49	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,354.48	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	564.37	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0050 EA 48" Mechanical Joint Ductile Iron 45 Degree Elbow.....	10,474.49	405.07
For Cement Mortar Lining (CML), Add	986.08	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,774.94	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	739.56	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0051 Mechanical Joint Ductile Iron 22-1/2 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0052 EA 3" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow.....	110.74	36.43
For Cement Mortar Lining (CML), Add	5.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	10.00	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.16	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0053 EA 4" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow.....	133.06	43.54
For Cement Mortar Lining (CML), Add	6.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	12.08	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.03	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0054 EA 6" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow.....	201.56	64.34
For Cement Mortar Lining (CML), Add	10.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	18.74	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.81	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0055 EA 8" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow.....	277.65	76.32
For Cement Mortar Lining (CML), Add	16.20	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	29.15	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	12.15	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0056 EA 10" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow.....	368.53	84.42
For Cement Mortar Lining (CML), Add	24.07	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	43.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.05	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0057 EA 12" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow.....	465.83	99.03
For Cement Mortar Lining (CML), Add	31.59	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	56.85	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.69	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0058 EA 14" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow.....	743.26	111.05
For Cement Mortar Lining (CML), Add	57.50	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	103.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	43.13	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0059 EA 16" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow.....	871.43	126.91
For Cement Mortar Lining (CML), Add	67.91	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	122.25	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	50.94	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0060 EA 18" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow.....	1,103.34	177.69
For Cement Mortar Lining (CML), Add	83.42	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	150.15	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	62.56	
Note: ANSI/AWWA C151/A21.51		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0061 EA 20" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,470.32 113.38 204.09 85.04	222.11
33 14 13 13-0062 EA 24" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,969.57 152.14 273.85 114.11	295.75
33 14 13 13-0063 EA 30" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,287.52 280.68 505.22 210.51	317.29
33 14 13 13-0064 EA 36" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,613.19 411.42 740.55 308.56	329.41
33 14 13 13-0065 EA 42" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,788.61 621.17 1,118.11 465.88	380.75
33 14 13 13-0066 EA 48" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,702.03 808.83 1,455.90 606.62	405.07
33 14 13 13-0067 Mechanical Joint Ductile Iron 11-1/4 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0068 EA 3" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	110.74 5.55 10.00 4.16	36.43
33 14 13 13-0069 EA 4" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	129.59 6.36 11.45 4.77	43.54
33 14 13 13-0070 EA 6" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	205.03 10.76 19.37 8.07	64.34
33 14 13 13-0071 EA 8" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	262.61 14.69 26.45 11.02	76.32
33 14 13 13-0072 EA 10" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	366.21 23.83 42.90 17.87	84.42
33 14 13 13-0073 EA 12" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	446.16 29.62 53.31 22.21	99.03

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0074 EA 14" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow.....	824.25	111.05
For Cement Mortar Lining (CML), Add	65.60	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	118.08	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	49.20	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0075 EA 16" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow.....	910.76	126.91
For Cement Mortar Lining (CML), Add	71.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	129.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	53.89	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0076 EA 18" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow.....	1,323.16	177.69
For Cement Mortar Lining (CML), Add	105.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	189.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	79.05	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0077 EA 20" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow.....	1,404.37	222.11
For Cement Mortar Lining (CML), Add	106.79	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	192.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	80.09	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0078 EA 24" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow.....	1,872.39	295.75
For Cement Mortar Lining (CML), Add	142.42	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	256.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	106.82	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0079 EA 30" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow.....	3,338.43	317.29
For Cement Mortar Lining (CML), Add	285.77	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	514.38	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	214.33	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0080 EA 36" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow.....	4,404.94	329.41
For Cement Mortar Lining (CML), Add	390.59	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	703.06	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	292.94	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0081 EA 42" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow.....	6,505.15	380.75
For Cement Mortar Lining (CML), Add	592.83	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,067.09	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	444.62	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0082 EA 48" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow.....	8,646.49	405.07
For Cement Mortar Lining (CML), Add	803.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,445.90	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	602.46	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0083 Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow <small>(33 14 13 13-0002)</small>		
33 14 13 13-0084 EA 3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	137.35	36.43
For Cement Mortar Lining (CML), Add	8.21	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	14.79	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.16	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0085 EA 4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	167.77	43.54
For Cement Mortar Lining (CML), Add	10.18	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	18.33	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.64	
Note: ANSI/AWWA C151/A21.51		



	Utilities	33	
	Water Utilities	33 10	33
	Water Utility Transmission and Distribution	33 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0086	EA	6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	266.35 16.89 30.41 12.67	64.34
33 14 13	13-0087	EA	8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	357.48 24.18 43.52 18.14	76.32
33 14 13	13-0088	EA	10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	507.36 37.95 68.31 28.46	84.42
33 14 13	13-0089	EA	12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	646.32 49.63 89.34 37.23	99.03
33 14 13	13-0090	EA	14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,091.50 92.33 166.19 69.24	111.05
33 14 13	13-0091	EA	16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,654.69 146.24 263.23 109.68	126.91
33 14 13	13-0092	EA	18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,930.56 166.14 299.05 124.60	177.69
33 14 13	13-0093	EA	20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,616.87 228.04 410.47 171.03	222.11
33 14 13	13-0094	EA	24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,187.85 273.97 493.14 205.48	295.75
33 14 13	13-0095	EA	30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	5,875.64 539.49 971.08 404.62	317.29
33 14 13	13-0096	EA	36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	10,440.80 994.18 1,789.52 745.63	329.41

33 14 13 13-0097 Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow (33 14 13 13-0092)

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0098	EA	3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	126.94 7.17 12.91 5.38	36.43
33 14 13 13-0099	EA	4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	140.01 7.41 13.33 5.55	43.54
33 14 13 13-0100	EA	6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	223.54 12.61 22.70 9.46	64.34
33 14 13 13-0101	EA	8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	318.15 20.25 36.44 15.19	76.32
33 14 13 13-0102	EA	10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	428.69 30.08 54.15 22.56	84.42
33 14 13 13-0103	EA	12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	578.06 42.81 77.05 32.11	99.03
33 14 13 13-0104	EA	14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	970.02 80.18 144.32 60.13	111.05
33 14 13 13-0105	EA	16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,463.79 127.15 228.87 95.36	126.91
33 14 13 13-0106	EA	18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,737.35 146.82 264.27 110.11	177.69
33 14 13 13-0107	EA	20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,253.58 191.71 345.07 143.78	222.11
33 14 13 13-0108	EA	24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,837.29 238.91 430.04 179.18	295.75
33 14 13 13-0109	EA	30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	5,173.37 469.26 844.67 351.95	317.29



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0110 EA 36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	9,148.47 864.94 1,556.90 648.71	329.41
33 14 13 13-0111 Mechanical Joint Ductile Iron Tee (33 14 13 13-0002)		
33 14 13 13-0112 EA 3" x 3" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	217.02 13.42 24.16 10.07	54.66
33 14 13 13-0113 EA 4" x 3" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	226.76 13.42 24.16 10.07	61.09
33 14 13 13-0114 EA 4" x 4" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	209.66 11.22 20.20 8.42	64.34
33 14 13 13-0115 EA 6" x 3" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	277.82 15.50 27.91 11.63	81.04
33 14 13 13-0116 EA 6" x 4" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	316.44 18.86 33.94 14.14	84.39
33 14 13 13-0117 EA 6" x 6" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	345.55 20.25 36.44 15.19	94.48
33 14 13 13-0118 EA 8" x 4" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	366.85 21.87 39.36 16.40	97.81
33 14 13 13-0119 EA 8" x 6" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	415.62 25.22 45.40 18.92	107.85
33 14 13 13-0120 EA 8" x 8" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	477.84 30.43 54.77 22.82	114.57
33 14 13 13-0121 EA 10" x 4" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	494.48 33.55 60.39 25.16	104.92
33 14 13 13-0122 EA 10" x 6" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	498.50 32.51 58.52 24.38	114.44

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0123	EA	10" x 8" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	563.65 38.06 68.52 28.55	120.78
33 14 13 13-0124	EA	10" x 10" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	627.31 43.50 78.30 32.63	126.91
33 14 13 13-0125	EA	12" x 4" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	588.91 41.07 73.93 30.80	117.60
33 14 13 13-0126	EA	12" x 6" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	666.96 47.44 85.38 35.58	127.12
33 14 13 13-0127	EA	12" x 8" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	811.95 60.97 109.75 45.73	133.47
33 14 13 13-0128	EA	12" x 10" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	868.67 65.72 118.29 49.29	139.61
33 14 13 13-0129	EA	12" x 12" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	828.54 60.74 109.33 45.56	145.96
33 14 13 13-0130	EA	14" x 6" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	881.58 65.72 118.29 49.29	148.13
33 14 13 13-0131	EA	14" x 8" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	977.99 74.39 133.91 55.79	154.49
33 14 13 13-0132	EA	14" x 10" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,237.18 99.38 178.89 74.54	160.61
33 14 13 13-0133	EA	14" x 12" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,320.83 106.79 192.22 80.09	166.95
33 14 13 13-0134	EA	14" x 14" Mechanical Joint Ductile Iron Tee <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,280.05 101.12 182.01 75.84	177.49



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0135	EA	16" x 6" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,117.17 84.81 152.65 63.60	177.68
33 14 13 13-0136	EA	16" x 8" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,199.78 92.09 165.77 69.07	184.03
33 14 13 13-0137	EA	16" x 10" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,389.55 110.14 198.26 82.61	190.15
33 14 13 13-0138	EA	16" x 12" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,517.17 121.94 219.50 91.46	196.50
33 14 13 13-0139	EA	16" x 14" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,816.54 150.29 270.52 112.72	207.01
33 14 13 13-0140	EA	16" x 16" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,725.54 138.95 250.11 104.21	221.82
33 14 13 13-0141	EA	18" x 6" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,545.45 120.09 216.17 90.07	227.39
33 14 13 13-0142	EA	18" x 8" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,654.57 130.04 234.08 97.53	233.74
33 14 13 13-0143	EA	18" x 10" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,786.50 142.31 256.15 106.73	239.87
33 14 13 13-0144	EA	18" x 12" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,917.60 154.45 278.02 115.84	246.21
33 14 13 13-0145	EA	18" x 14" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,974.01 158.50 285.31 118.88	256.72
33 14 13 13-0146	EA	18" x 16" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,106.31 169.50 305.09 127.12	271.50

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0147 EA 18" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,459.81 201.08 361.94 150.81	296.33
33 14 13 13-0148 EA 20" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,845.40 135.13 243.24 101.35	326.08
33 14 13 13-0149 EA 20" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,885.10 138.14 248.65 103.61	332.43
33 14 13 13-0150 EA 20" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,045.94 153.30 275.93 114.97	338.56
33 14 13 13-0151 EA 20" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,205.97 168.34 303.01 126.25	344.91
33 14 13 13-0152 EA 20" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,234.61 169.61 305.30 127.21	355.40
33 14 13 13-0153 EA 20" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,270.87 171.00 307.80 128.25	370.18
33 14 13 13-0154 EA 20" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,831.48 223.29 401.93 167.47	395.04
33 14 13 13-0155 EA 20" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,526.76 185.35 333.62 139.01	444.41
33 14 13 13-0156 EA 24" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,268.66 162.55 292.60 121.91	424.47
33 14 13 13-0157 EA 24" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,299.11 164.64 296.34 123.48	431.42
33 14 13 13-0158 EA 24" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,521.27 185.92 334.66 139.44	436.95



	Utilities	33	
	Water Utilities	33 10	33
	Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0159 EA 24" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,582.95 191.13 344.03 143.35	443.29
33 14 13 13-0160 EA 24" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,892.73 220.52 396.93 165.39	453.79
33 14 13 13-0161 EA 24" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,117.58 240.76 433.37 180.57	468.57
33 14 13 13-0162 EA 24" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,530.11 278.25 500.85 208.69	493.43
33 14 13 13-0163 EA 24" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,911.46 308.91 556.03 231.68	542.77
33 14 13 13-0164 EA 24" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,648.17 275.13 495.23 206.34	591.99
33 14 13 13-0165 EA 30" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,862.81 310.41 558.74 232.81	500.73
33 14 13 13-0166 EA 30" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,062.99 329.50 593.10 247.13	506.85
33 14 13 13-0167 EA 30" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,263.50 348.59 627.47 261.44	513.21
33 14 13 13-0168 EA 30" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,550.15 375.67 676.20 281.75	523.71
33 14 13 13-0169 EA 30" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,861.77 404.59 728.26 303.44	696.80
33 14 13 13-0170 EA 30" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,996.62 414.31 745.75 310.73	563.34

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0171 EA 30" x 20" Mechanical Joint Ductile Iron Tee.....	5,206.75	612.69
For Cement Mortar Lining (CML), Add	427.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	770.12	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	320.88	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0172 EA 30" x 24" Mechanical Joint Ductile Iron Tee.....	5,476.81	661.88
For Cement Mortar Lining (CML), Add	447.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	805.31	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	335.55	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0173 EA 30" x 30" Mechanical Joint Ductile Iron Tee.....	6,823.26	696.80
For Cement Mortar Lining (CML), Add	576.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,038.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	432.56	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0174 EA 30" x 6" Mechanical Joint Ductile Iron Tee.....	4,029.03	494.38
For Cement Mortar Lining (CML), Add	328.00	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	590.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	246.00	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0175 EA 36" x 8" Mechanical Joint Ductile Iron Tee.....	4,703.56	555.48
For Cement Mortar Lining (CML), Add	386.19	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	695.15	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	289.64	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0176 EA 36" x 10" Mechanical Joint Ductile Iron Tee.....	5,214.96	561.61
For Cement Mortar Lining (CML), Add	436.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	785.53	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	327.30	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0177 EA 36" x 12" Mechanical Joint Ductile Iron Tee.....	5,493.01	567.95
For Cement Mortar Lining (CML), Add	463.25	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	833.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	347.44	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0178 EA 36" x 14" Mechanical Joint Ductile Iron Tee.....	5,695.19	578.46
For Cement Mortar Lining (CML), Add	481.87	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	867.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	361.41	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0179 EA 36" x 16" Mechanical Joint Ductile Iron Tee.....	5,901.53	593.23
For Cement Mortar Lining (CML), Add	500.27	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	900.49	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	375.20	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0180 EA 36" x 18" Mechanical Joint Ductile Iron Tee.....	6,295.53	618.08
For Cement Mortar Lining (CML), Add	535.90	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	964.63	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	401.93	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0181 EA 36" x 20" Mechanical Joint Ductile Iron Tee.....	6,727.79	667.43
For Cement Mortar Lining (CML), Add	571.65	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,028.98	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	428.74	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0182 EA 36" x 24" Mechanical Joint Ductile Iron Tee.....	7,436.34	716.62
For Cement Mortar Lining (CML), Add	635.06	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,143.10	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	476.29	
Note: ANSI/AWWA C151/A21.51		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0183	EA			36" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,207.79 706.90 1,272.43 530.18	779.00
33 14 13 13-0184	EA			36" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,550.83 837.06 1,506.71 627.80	779.00
33 14 13 13-0185	EA			42" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,643.88 973.70 1,752.66 730.27	598.55
33 14 13 13-0186	EA			42" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,856.47 993.37 1,788.06 745.02	609.06
33 14 13 13-0187	EA			42" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,048.54 1,110.34 1,998.60 832.75	623.82
33 14 13 13-0188	EA			42" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,287.90 1,030.50 1,854.91 772.88	648.68
33 14 13 13-0189	EA			42" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,362.66 1,030.50 1,854.91 772.88	698.03
33 14 13 13-0190	EA			42" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,625.79 1,049.36 1,888.85 787.02	747.22
33 14 13 13-0191	EA			42" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,057.46 1,287.23 2,317.02 965.43	782.18
33 14 13 13-0192	EA			42" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,639.23 1,341.26 2,414.28 1,005.95	809.55
33 14 13 13-0193	EA			42" x 42" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,475.75 1,422.60 2,560.68 1,066.95	824.86
33 14 13 13-0194	EA			48" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,521.45 1,154.07 2,077.32 865.55	647.31

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0195 EA 48" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,745.62 1,174.89 2,114.81 881.17	657.82
33 14 13 13-0196 EA 48" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,063.02 1,204.40 2,167.91 903.30	672.59
33 14 13 13-0197 EA 48" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,394.55 1,233.78 2,220.81 925.34	697.44
33 14 13 13-0198 EA 48" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,764.35 1,263.29 2,273.91 947.46	746.79
33 14 13 13-0199 EA 48" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,878.22 1,267.22 2,280.99 950.41	795.98
33 14 13 13-0200 EA 48" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,845.58 1,558.66 2,805.58 1,168.99	830.94
33 14 13 13-0201 EA 48" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	19,177.82 1,787.74 3,217.92 1,340.80	858.32
33 14 13 13-0202 EA 48" x 42" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	20,108.05 1,878.44 3,381.19 1,408.83	873.61
33 14 13 13-0203 EA 48" x 48" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	20,446.97 1,908.64 3,435.55 1,431.48	898.03
33 14 13 13-0204 Mechanical Joint Ductile Iron Wye (Laterals) (33 14 13 13-0002)		
33 14 13 13-0205 EA 4" x 3" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	190.89 9.83 17.70 7.38	61.09
33 14 13 13-0206 EA 4" x 4" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	281.39 18.40 33.11 13.80	64.30
33 14 13 13-0207 EA 6" x 3" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	277.82 15.50 27.91 11.63	81.04



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0208 EA 6" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	317.60 18.97 34.15 14.23	84.39
33 14 13 13-0209 EA 6" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	420.75 27.77 49.98 20.83	94.43
33 14 13 13-0210 EA 8" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	531.13 38.30 68.93 28.72	97.81
33 14 13 13-0211 EA 8" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	483.88 32.05 57.69 24.04	107.85
33 14 13 13-0212 EA 8" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	578.50 40.49 72.89 30.37	114.55
33 14 13 13-0213 EA 10" x 4" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	803.39 64.44 116.00 48.33	104.92
33 14 13 13-0214 EA 10" x 6" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	851.37 67.80 122.04 50.85	114.44
33 14 13 13-0215 EA 10" x 8" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	974.37 79.14 142.44 59.35	120.78
33 14 13 13-0216 EA 10" x 10" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,093.56 90.13 162.23 67.60	126.91
33 14 13 13-0217 EA 12" x 4" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,019.30 84.11 151.40 63.08	117.60
33 14 13 13-0218 EA 12" x 6" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,150.57 95.80 172.43 71.85	127.12
33 14 13 13-0219 EA 12" x 8" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,378.86 117.66 211.79 88.25	133.47

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0220 EA 12" x 10" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,419.39 120.79 217.42 90.59	139.61
33 14 13 13-0221 EA 12" x 12" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,293.64 107.25 193.05 80.44	145.95
33 14 13 13-0222 EA 14" x 6" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,515.60 129.12 232.41 96.84	148.13
33 14 13 13-0223 EA 14" x 8" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,728.85 149.48 269.06 112.11	154.49
33 14 13 13-0224 EA 14" x 10" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,241.42 199.81 359.65 149.86	160.61
33 14 13 13-0225 EA 14" x 12" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,399.12 214.62 386.31 160.96	166.95
33 14 13 13-0226 EA 14" x 14" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,350.24 208.14 374.65 156.10	177.45
33 14 13 13-0227 EA 16" x 6" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,567.31 129.81 233.66 97.36	177.68
33 14 13 13-0228 EA 16" x 8" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,720.41 144.16 259.48 108.12	184.03
33 14 13 13-0229 EA 16" x 10" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,017.78 172.97 311.34 129.72	190.15
33 14 13 13-0230 EA 16" x 12" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,250.68 195.30 351.53 146.47	196.50
33 14 13 13-0231 EA 16" x 14" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,801.11 248.75 447.74 186.56	207.01



	Utilities	33	
	Water Utilities	33 10	33
	Water Utility Transmission and Distribution	33 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0232	EA	16" x 16" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,710.11 237.41 427.33 178.06	221.77
33 14 13	13-0233	EA	18" x 6" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,446.73 210.22 378.40 157.67	227.39
33 14 13	13-0234	EA	18" x 8" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,629.89 227.57 409.63 170.68	233.74
33 14 13	13-0235	EA	18" x 10" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,806.94 244.35 439.83 183.26	239.87
33 14 13	13-0236	EA	18" x 12" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,999.36 262.63 472.73 196.97	246.21
33 14 13	13-0237	EA	18" x 14" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,036.09 264.71 476.48 198.53	256.72
33 14 13	13-0238	EA	18" x 16" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,072.37 266.10 478.98 199.58	271.50
33 14 13	13-0239	EA	18" x 18" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,830.03 238.10 428.58 178.58	296.35
33 14 13	13-0240	EA	20" x 6" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,926.00 243.19 437.75 182.39	326.08
33 14 13	13-0241	EA	20" x 8" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,990.00 248.63 447.54 186.47	332.43
33 14 13	13-0242	EA	20" x 10" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,272.32 275.94 496.68 206.95	338.56
33 14 13	13-0243	EA	20" x 12" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,552.67 303.01 545.41 227.26	344.91

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0244 EA 20" x 14" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,591.73 305.32 549.58 228.99	355.40
33 14 13 13-0245 EA 20" x 16" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,638.39 307.75 553.95 230.81	370.18
33 14 13 13-0246 EA 20" x 18" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,201.32 360.28 648.50 270.21	395.04
33 14 13 13-0247 EA 20" x 20" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,009.98 333.67 600.60 250.25	444.38
33 14 13 13-0248 EA 24" x 6" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,569.08 292.60 526.67 219.45	424.47
33 14 13 13-0249 EA 24" x 8" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,615.73 296.30 533.33 222.22	430.81
33 14 13 13-0250 EA 24" x 10" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,007.97 334.59 602.27 250.94	436.95
33 14 13 13-0251 EA 24" x 12" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,188.81 351.72 633.09 263.79	443.29
33 14 13 13-0252 EA 24" x 14" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,810.97 412.34 742.21 309.26	453.79
33 14 13 13-0253 EA 24" x 16" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,329.69 461.97 831.55 346.48	468.57
33 14 13 13-0254 EA 24" x 18" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,950.47 520.29 936.51 390.21	493.43
33 14 13 13-0255 EA 24" x 20" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,537.76 571.54 1,028.77 428.65	542.77



	Utilities	33	
	Water Utilities	33 10	33
	Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0256 EA 24" x 24" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,848.71 495.18 891.32 371.38	591.96
33 14 13 13-0257 EA 30" x 6" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,203.73 645.47 1,161.84 484.10	494.38
33 14 13 13-0258 EA 30" x 8" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,053.32 729.46 1,313.03 547.10	500.73
33 14 13 13-0259 EA 30" x 10" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,511.50 774.35 1,393.84 580.76	506.85
33 14 13 13-0260 EA 30" x 12" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,970.01 819.24 1,474.64 614.43	513.21
33 14 13 13-0261 EA 30" x 14" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,621.10 882.76 1,588.97 662.07	523.71
33 14 13 13-0262 EA 30" x 16" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,323.78 950.79 1,711.42 713.09	538.48
33 14 13 13-0263 EA 30" x 18" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,589.37 973.58 1,752.45 730.19	563.34
33 14 13 13-0264 EA 30" x 20" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,982.29 1,005.40 1,809.72 754.05	612.69
33 14 13 13-0265 EA 30" x 24" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,516.15 1,051.33 1,892.39 788.50	661.88
33 14 13 13-0266 EA 30" x 30" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,472.69 1,141.69 2,055.04 856.27	696.84
33 14 13 13-0267 EA 36" x 12" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,599.83 1,273.93 2,293.07 955.45	567.95

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0268	EA	36" x 14" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	14,128.27 1,325.18 2,385.33 993.89	578.46
33 14 13 13-0269	EA	36" x 16" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	14,656.24 1,375.74 2,476.33 1,031.81	593.23
33 14 13 13-0270	EA	36" x 18" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	15,673.85 1,473.74 2,652.72 1,105.30	618.08
33 14 13 13-0271	EA	36" x 20" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	16,732.02 1,572.08 2,829.74 1,179.06	667.43
33 14 13 13-0272	EA	36" x 24" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	18,550.10 1,746.43 3,143.58 1,309.82	716.62
33 14 13 13-0273	EA	36" x 30" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	20,758.49 1,961.97 3,531.55 1,471.48	751.57
33 14 13 13-0274	EA	36" x 36" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	24,723.21 2,354.30 4,237.74 1,765.72	778.96
33 14 13 13-0275	EA	42" x 20" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	21,760.26 2,070.26 3,726.48 1,552.70	698.03
33 14 13 13-0276	EA	42" x 24" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	22,317.25 2,118.51 3,813.32 1,588.88	747.22
33 14 13 13-0277	EA	42" x 30" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	23,832.61 2,264.75 4,076.55 1,698.56	782.18
33 14 13 13-0278	EA	42" x 36" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	27,217.70 2,599.11 4,678.40 1,949.33	809.55
33 14 13 13-0279	EA	42" x 42" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	32,046.89 3,079.71 5,543.48 2,309.78	824.85



	Utilities	33	
	Water Utilities	33 10	33
	Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0280 EA 48" x 20" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	21,491.68 2,036.02 3,664.83 1,527.01	746.79
33 14 13 13-0281 EA 48" x 24" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	24,319.79 2,311.38 4,160.48 1,733.53	795.98
33 14 13 13-0282 EA 48" x 30" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	25,912.67 2,465.37 4,437.66 1,849.02	830.94
33 14 13 13-0283 EA 48" x 36" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	29,500.21 2,819.97 5,075.95 2,114.98	858.32
33 14 13 13-0284 EA 48" x 42" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	38,466.69 3,714.30 6,685.75 2,785.73	873.61
33 14 13 13-0285 EA 48" x 48" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	42,205.92 4,084.53 7,352.16 3,063.40	898.00
33 14 13 13-0286 Mechanical Joint Ductile Iron Cross (33 14 13 13-0002)		
33 14 13 13-0287 EA 3" x 3" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	259.67 14.93 26.87 11.19	72.88
33 14 13 13-0288 EA 4" x 3" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	311.06 19.09 34.36 14.32	79.30
33 14 13 13-0289 EA 4" x 4" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	363.59 24.18 43.52 18.14	80.38
33 14 13 13-0290 EA 6" x 3" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	435.21 28.46 51.23 21.35	99.35
33 14 13 13-0291 EA 6" x 4" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	426.17 26.38 47.48 19.78	107.16
33 14 13 13-0292 EA 6" x 6" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	499.15 29.62 53.31 22.21	133.96

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0293 EA 8" x 4" Mechanical Joint Ductile Iron Cross.....	440.25	117.22
For Cement Mortar Lining (CML), Add	26.26	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	47.27	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.70	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0294 EA 8" x 6" Mechanical Joint Ductile Iron Cross.....	524.79	144.02
For Cement Mortar Lining (CML), Add	30.66	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	55.19	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	22.99	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0295 EA 8" x 8" Mechanical Joint Ductile Iron Cross.....	556.23	154.05
For Cement Mortar Lining (CML), Add	32.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	58.10	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0296 EA 10" x 4" Mechanical Joint Ductile Iron Cross.....	528.38	122.71
For Cement Mortar Lining (CML), Add	34.25	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	61.64	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	25.68	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0297 EA 10" x 6" Mechanical Joint Ductile Iron Cross.....	608.48	148.09
For Cement Mortar Lining (CML), Add	38.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	69.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	28.81	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0298 EA 10" x 8" Mechanical Joint Ductile Iron Cross.....	715.48	157.62
For Cement Mortar Lining (CML), Add	47.67	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	85.80	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.75	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0299 EA 10" x 10" Mechanical Joint Ductile Iron Cross.....	773.61	169.23
For Cement Mortar Lining (CML), Add	51.72	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	93.09	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	38.79	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0300 EA 12 x 4" Mechanical Joint Ductile Iron Cross.....	634.62	133.26
For Cement Mortar Lining (CML), Add	43.27	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	77.89	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	32.45	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0301 EA 12" x 6" Mechanical Joint Ductile Iron Cross.....	739.02	158.65
For Cement Mortar Lining (CML), Add	49.87	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	89.76	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	37.40	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0302 EA 12" x 8" Mechanical Joint Ductile Iron Cross.....	1,041.54	168.18
For Cement Mortar Lining (CML), Add	78.67	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	141.61	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	59.00	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0303 EA 12" x 10" Mechanical Joint Ductile Iron Cross.....	1,059.18	179.82
For Cement Mortar Lining (CML), Add	78.67	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	141.61	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	59.00	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0304 EA 12" x 12" Mechanical Joint Ductile Iron Cross.....	1,196.66	190.38
For Cement Mortar Lining (CML), Add	90.82	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	163.48	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	68.12	
Note: ANSI/AWWA C151/A21.51		



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0305 EA 14" x 6" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,217.74 95.33 171.60 71.50	174.50
33 14 13 13-0306 EA 14" x 8" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,424.23 114.54 206.17 85.90	184.03
33 14 13 13-0307 EA 14" x 10" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,465.00 116.85 210.34 87.64	195.67
33 14 13 13-0308 EA 14" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,545.79 123.33 222.00 92.50	206.23
33 14 13 13-0309 EA 14" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,707.50 137.10 246.78 102.83	222.11
33 14 13 13-0310 EA 16" x 6" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,391.37 109.33 196.80 82.00	196.70
33 14 13 13-0311 EA 16" x 8" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,575.86 126.34 227.41 94.76	206.23
33 14 13 13-0312 EA 16" x 10" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,874.16 154.41 277.93 115.80	217.86
33 14 13 13-0313 EA 16" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,082.71 173.66 312.59 130.25	228.43
33 14 13 13-0314 EA 16" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,502.42 213.23 383.81 159.92	244.28
33 14 13 13-0315 EA 16" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,921.31 251.75 453.16 188.82	266.53
33 14 13 13-0316 EA 18" x 6" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,262.54 191.01 343.83 143.26	232.59

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0317 EA 18" x 8" Mechanical Joint Ductile Iron Cross.....	2,390.37	242.12
For Cement Mortar Lining (CML), Add	202.35	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	364.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	151.76	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0318 EA 18" x 10" Mechanical Joint Ductile Iron Cross.....	2,502.87	253.76
For Cement Mortar Lining (CML), Add	211.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	381.31	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	158.88	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0319 EA 18" x 12" Mechanical Joint Ductile Iron Cross.....	2,708.62	264.32
For Cement Mortar Lining (CML), Add	230.81	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	415.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	173.11	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0320 EA 18" x 14" Mechanical Joint Ductile Iron Cross.....	3,147.98	280.17
For Cement Mortar Lining (CML), Add	272.35	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	490.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	204.26	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0321 EA 18" x 16" Mechanical Joint Ductile Iron Cross.....	3,352.85	302.37
For Cement Mortar Lining (CML), Add	289.47	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	521.05	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	217.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0322 EA 18" x 18" Mechanical Joint Ductile Iron Cross.....	3,520.62	338.25
For Cement Mortar Lining (CML), Add	300.81	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	541.46	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	225.61	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0323 EA 20" x 6" Mechanical Joint Ductile Iron Cross.....	2,844.03	291.84
For Cement Mortar Lining (CML), Add	240.19	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	432.33	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	180.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0324 EA 20" x 8" Mechanical Joint Ductile Iron Cross.....	2,973.00	301.36
For Cement Mortar Lining (CML), Add	251.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	452.95	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	188.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0325 EA 20" x 10" Mechanical Joint Ductile Iron Cross.....	3,065.83	313.00
For Cement Mortar Lining (CML), Add	259.16	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	466.49	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	194.37	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0326 EA 20" x 12" Mechanical Joint Ductile Iron Cross.....	3,270.42	323.56
For Cement Mortar Lining (CML), Add	278.02	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	500.43	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	208.51	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0327 EA 20" x 14" Mechanical Joint Ductile Iron Cross.....	3,332.62	339.42
For Cement Mortar Lining (CML), Add	281.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	507.30	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	211.38	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0328 EA 20" x 16" Mechanical Joint Ductile Iron Cross.....	4,009.53	361.62
For Cement Mortar Lining (CML), Add	346.16	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	623.09	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	259.62	
Note: ANSI/AWWA C151/A21.51		



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0329 EA 20" x 18" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,177.29 357.50 643.50 268.13	397.51
33 14 13 13-0330 EA 20" x 20" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,532.00 384.00 691.19 288.00	456.70
33 14 13 13-0331 EA 24" x 6" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,863.20 331.01 595.81 248.25	365.07
33 14 13 13-0332 EA 24" x 8" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,954.27 338.64 609.56 253.98	374.60
33 14 13 13-0333 EA 24" x 10" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,103.52 351.83 633.30 263.87	386.23
33 14 13 13-0334 EA 24" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,232.91 363.17 653.71 272.38	396.80
33 14 13 13-0335 EA 24" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,313.62 368.84 663.91 276.63	412.65
33 14 13 13-0336 EA 24" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,480.30 382.14 687.86 286.61	434.85
33 14 13 13-0337 EA 24" x 18" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,877.91 516.47 929.64 387.35	470.74
33 14 13 13-0338 EA 24" x 20" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,212.95 540.99 973.79 405.75	529.98
33 14 13 13-0339 EA 24" x 24" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,853.79 593.98 1,069.17 445.49	603.24
33 14 13 13-0340 EA 30" x 8" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,296.59 656.11 1,181.00 492.08	485.41

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0341 EA 30" x 10" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,442.65 668.95 1,204.12 501.72	497.05
33 14 13 13-0342 EA 30" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,585.92 681.68 1,227.03 511.26	507.61
33 14 13 13-0343 EA 30" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,756.88 696.37 1,253.47 522.28	523.48
33 14 13 13-0344 EA 30" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,954.80 712.80 1,283.05 534.60	545.67
33 14 13 13-0345 EA 30" x 18" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,191.98 731.08 1,315.95 548.31	581.56
33 14 13 13-0346 EA 30" x 20" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,500.42 752.95 1,355.31 564.71	640.80
33 14 13 13-0347 EA 30" x 24" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,880.15 979.83 1,763.69 734.87	714.03
33 14 13 13-0348 EA 30" x 30" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,512.78 1,126.30 2,027.34 844.73	824.86
33 14 13 13-0349 EA 36" x 8" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,118.99 932.16 1,677.89 699.12	526.26
33 14 13 13-0350 EA 36" x 10" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,263.89 944.89 1,700.80 708.67	537.89
33 14 13 13-0351 EA 36" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,388.65 955.77 1,720.38 716.82	548.46
33 14 13 13-0352 EA 36" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,539.94 968.49 1,743.28 726.37	564.32



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0353 EA 36" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,719.35 983.07 1,769.52 737.30	586.52
33 14 13 13-0354 EA 36" x 18" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,936.86 999.38 1,798.89 749.54	622.41
33 14 13 13-0355 EA 36" x 20" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,226.78 1,019.40 1,834.91 764.55	681.64
33 14 13 13-0356 EA 36" x 24" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,719.53 1,057.58 1,903.64 793.18	754.88
33 14 13 13-0357 EA 36" x 30" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,721.61 1,440.99 2,593.79 1,080.75	865.70
33 14 13 13-0358 EA 36" x 36" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,255.15 1,588.16 2,858.69 1,191.12	906.58
33 14 13 13-0359 EA 42" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,525.09 1,265.83 2,278.49 949.37	572.08
33 14 13 13-0360 EA 42" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,268.06 1,437.73 2,587.91 1,078.29	587.94
33 14 13 13-0361 EA 42" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,843.06 1,291.86 2,325.35 968.90	610.13
33 14 13 13-0362 EA 42" x 18" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,037.43 1,305.86 2,350.55 979.40	646.02
33 14 13 13-0363 EA 42" x 20" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,318.10 1,324.95 2,384.91 993.71	705.27
33 14 13 13-0364 EA 42" x 24" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,777.29 1,359.78 2,447.60 1,019.83	778.50

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0365 EA 42" x 30" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,874.24 1,752.68 3,154.82 1,314.51	889.32
33 14 13 13-0366 EA 42" x 36" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	24,553.18 2,314.38 4,165.89 1,735.79	930.16
33 14 13 13-0367 EA 42" x 42" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	26,291.99 2,484.69 4,472.44 1,863.52	953.80
33 14 13 13-0368 EA 48" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,240.63 1,723.18 3,101.72 1,292.38	665.86
33 14 13 13-0369 EA 48" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,368.79 1,733.59 3,120.46 1,300.19	681.71
33 14 13 13-0370 EA 48" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,541.25 1,747.47 3,145.45 1,310.60	703.91
33 14 13 13-0371 EA 48" x 18" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,734.47 1,761.36 3,170.44 1,321.02	739.80
33 14 13 13-0372 EA 48" x 20" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,998.94 1,778.83 3,201.89 1,334.12	799.05
33 14 13 13-0373 EA 48" x 24" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	19,439.62 1,811.80 3,261.24 1,358.85	872.28
33 14 13 13-0374 EA 48" x 30" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	20,599.05 1,910.95 3,439.71 1,433.21	983.09
33 14 13 13-0375 EA 48" x 36" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	25,163.83 2,361.24 4,250.23 1,770.93	1,023.94
33 14 13 13-0376 EA 48" x 42" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	32,242.02 3,065.48 5,517.87 2,299.11	1,047.56



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0377 EA 48" x 48" Mechanical Joint Ductile Iron Cross..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	34,348.63 3,261.93 5,871.48 2,446.45	1,141.29
33 14 13 13-0378 Mechanical Joint x Mechanical Joint Ductile Iron Reducers <small>(33 14 13 13-0002)</small>		
33 14 13 13-0379 EA 4" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	127.18 6.71 12.08 5.03	39.65
33 14 13 13-0380 EA 6" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	149.36 7.41 13.33 5.55	49.70
33 14 13 13-0381 EA 6" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	161.16 8.10 14.58 6.07	52.91
33 14 13 13-0382 EA 8" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	201.49 11.11 19.99 8.33	59.62
33 14 13 13-0383 EA 8" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	223.56 11.80 21.24 8.85	69.65
33 14 13 13-0384 EA 10" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	239.49 14.46 26.03 10.85	62.62
33 14 13 13-0385 EA 10" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	262.01 15.27 27.49 11.45	72.13
33 14 13 13-0386 EA 10" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	286.67 16.78 30.20 12.58	78.48
33 14 13 13-0387 EA 12" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	287.27 18.28 32.90 13.71	68.96
33 14 13 13-0388 EA 12" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	320.21 20.13 36.24 15.10	78.48
33 14 13 13-0389 EA 12" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	335.62 20.71 37.28 15.53	84.82

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0390 EA 12" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	366.89	90.96
For Cement Mortar Lining (CML), Add	22.91	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	41.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.18	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0391 EA 14" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	581.40	88.97
For Cement Mortar Lining (CML), Add	44.66	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	80.39	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	33.49	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0392 EA 14" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	567.88	95.33
For Cement Mortar Lining (CML), Add	42.35	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	76.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	31.76	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0393 EA 14" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	514.70	101.46
For Cement Mortar Lining (CML), Add	36.10	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	64.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	27.07	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0394 EA 14" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	541.67	107.80
For Cement Mortar Lining (CML), Add	37.83	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	68.10	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	28.37	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0395 EA 16" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	682.46	103.75
For Cement Mortar Lining (CML), Add	52.53	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	94.55	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	39.39	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0396 EA 16" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	672.41	110.10
For Cement Mortar Lining (CML), Add	50.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	91.01	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	37.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0397 EA 16" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	663.19	116.23
For Cement Mortar Lining (CML), Add	48.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	87.67	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	36.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0398 EA 16" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	717.92	122.58
For Cement Mortar Lining (CML), Add	53.22	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	95.80	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	39.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0399 EA 16" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	797.47	133.08
For Cement Mortar Lining (CML), Add	59.58	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	107.25	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	44.69	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0400 EA 18" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	853.53	134.95
For Cement Mortar Lining (CML), Add	64.91	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	116.83	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	48.68	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0401 EA 18" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	953.07	141.09
For Cement Mortar Lining (CML), Add	73.93	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	133.07	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	55.45	
Note: ANSI/AWWA C151/A21.51		



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0402 EA 18" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	923.34 70.00 125.99 52.50	147.44
33 14 13 13-0403 EA 18" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	979.75 74.05 133.28 55.53	157.93
33 14 13 13-0404 EA 18" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,034.53 77.29 139.11 57.96	172.72
33 14 13 13-0405 EA 20" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,202.50 92.33 166.19 69.24	184.31
33 14 13 13-0406 EA 20" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,158.57 87.00 156.61 65.25	190.43
33 14 13 13-0407 EA 20" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,076.78 77.86 140.15 58.40	196.78
33 14 13 13-0408 EA 20" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,086.91 77.29 139.11 57.96	207.28
33 14 13 13-0409 EA 20" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,125.50 78.91 142.03 59.18	222.05
33 14 13 13-0410 EA 20" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,342.49 96.84 174.31 72.63	246.92
33 14 13 13-0411 EA 24" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,565.51 119.28 214.71 89.46	245.97
33 14 13 13-0412 EA 24" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,611.50 122.29 220.12 91.72	256.48
33 14 13 13-0413 EA 24" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,650.08 123.91 223.04 92.93	271.24

33 Utilities
33 10 Water Utilities
33 14 Water Utility Transmission and Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0414 EA 24" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,633.37 118.47 213.25 88.85	296.10
33 14 13 13-0415 EA 24" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,990.44 146.70 264.07 110.03	345.45
33 14 13 13-0416 EA 30" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,153.88 268.99 484.19 201.74	306.21
33 14 13 13-0417 EA 30" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,297.98 279.64 503.35 209.73	331.06
33 14 13 13-0418 EA 30" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,217.71 264.13 475.44 198.10	380.41
33 14 13 13-0419 EA 30" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,166.14 251.52 452.74 188.64	429.60
33 14 13 13-0420 EA 36" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	4,710.02 409.22 736.59 306.91	407.78
33 14 13 13-0421 EA 36" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,941.12 324.87 584.77 243.66	456.97
33 14 13 13-0422 EA 36" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	4,278.71 353.34 636.00 265.00	491.92
33 14 13 13-0423 EA 42" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	6,054.24 552.56 994.62 414.42	348.88
33 14 13 13-0424 EA 42" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	6,040.99 547.47 985.45 410.60	373.73
33 14 13 13-0425 EA 42" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	6,097.25 545.62 982.12 409.22	423.08



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	Water Utilities	33 10
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0426	EA	42" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,804.64 608.91 1,096.03 456.68	472.28
33 14 13 13-0427	EA	42" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,656.69 488.82 879.87 366.61	507.22
33 14 13 13-0428	EA	42" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,922.61 511.26 920.27 383.45	534.59
33 14 13 13-0429	EA	48" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,120.48 755.50 1,359.89 566.62	373.26
33 14 13 13-0430	EA	48" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,887.42 728.42 1,311.16 546.32	398.11
33 14 13 13-0431	EA	48" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,545.67 686.77 1,236.19 515.08	447.46
33 14 13 13-0432	EA	48" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,794.92 704.24 1,267.64 528.18	496.65
33 14 13 13-0433	EA	48" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,290.61 848.51 1,527.33 636.39	531.61
33 14 13 13-0434	EA	48" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,173.96 732.70 1,318.87 549.53	558.98
33 14 13 13-0435	EA	48" x 42" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,958.43 808.83 1,455.90 606.62	574.27
33 14 13 13-0436		Mechanical Joint Ductile Iron Caps (33 14 13 13-0002)		
33 14 13 13-0437	EA	3" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	156.93 3.01 5.41 2.26	83.72
33 14 13 13-0438	EA	4" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	180.09 3.12 5.62 2.34	98.24

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0439 EA 6" Mechanical Joint Ductile Iron Caps.....	241.59	122.79
For Cement Mortar Lining (CML), Add	5.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	10.00	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.16	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0440 EA 8" Mechanical Joint Ductile Iron Caps.....	305.19	140.35
For Cement Mortar Lining (CML), Add	9.26	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	16.66	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.94	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0441 EA 10" Mechanical Joint Ductile Iron Caps.....	437.35	211.53
For Cement Mortar Lining (CML), Add	11.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	21.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.76	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0442 EA 12" Mechanical Joint Ductile Iron Caps.....	524.34	230.76
For Cement Mortar Lining (CML), Add	17.47	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	31.45	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0443 EA 14" Mechanical Joint Ductile Iron Caps.....	649.54	253.83
For Cement Mortar Lining (CML), Add	26.49	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	47.69	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.87	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0444 EA 16" Mechanical Joint Ductile Iron Caps.....	782.52	282.00
For Cement Mortar Lining (CML), Add	35.52	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	63.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	26.64	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0445 EA 18" Mechanical Joint Ductile Iron Caps.....	914.60	317.29
For Cement Mortar Lining (CML), Add	43.39	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	78.09	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	32.54	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0446 EA 20" Mechanical Joint Ductile Iron Caps.....	1,110.55	362.58
For Cement Mortar Lining (CML), Add	56.11	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	101.00	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	42.08	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0447 EA 24" Mechanical Joint Ductile Iron Caps.....	1,411.53	423.05
For Cement Mortar Lining (CML), Add	77.05	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	138.70	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	57.79	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0448 EA 30" Mechanical Joint Ductile Iron Caps.....	2,531.24	507.67
For Cement Mortar Lining (CML), Add	176.21	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	317.17	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	132.15	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0449 EA 36" Mechanical Joint Ductile Iron Caps.....	4,166.27	634.58
For Cement Mortar Lining (CML), Add	320.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	576.86	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	240.36	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0450 EA 42" Mechanical Joint Ductile Iron Caps.....	6,014.18	761.50
For Cement Mortar Lining (CML), Add	486.04	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	874.87	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	364.53	
Note: ANSI/AWWA C151/A21.51		



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	Water Utilities	33 10
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0451	EA	48" Mechanical Joint Ductile Iron Caps..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,138.52 585.65 1,054.18 439.24	846.11
33 14 13 13-0452 Mechanical Joint Ductile Iron Plug (33 14 13 13-0002)					
33 14 13	13-0453	EA	3" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	161.56 3.47 6.25 2.60	83.72
33 14 13	13-0454	EA	4" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	187.03 3.82 6.87 2.86	98.24
33 14 13	13-0455	EA	6" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	260.11 7.41 13.33 5.55	122.79
33 14 13	13-0456	EA	8" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	323.70 11.11 19.99 8.33	140.35
33 14 13	13-0457	EA	10" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	512.56 19.21 34.57 14.40	211.53
33 14 13	13-0458	EA	12" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	545.17 19.55 35.20 14.66	230.76
33 14 13	13-0459	EA	14" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	782.59 39.80 71.64 29.85	253.83
33 14 13	13-0460	EA	16" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	478.24 5.09 9.16 3.82	282.00
33 14 13	13-0461	EA	18" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,112.44 63.17 113.71 47.38	317.29
33 14 13	13-0462	EA	20" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,380.12 83.07 149.53 62.30	362.58
33 14 13	13-0463	EA	24" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,793.32 115.23 207.42 86.42	423.05

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0464 EA 30" Mechanical Joint Ductile Iron Plug.....	3,056.50	507.67
For Cement Mortar Lining (CML), Add	228.73	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	411.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	171.55	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0465 EA 36" Mechanical Joint Ductile Iron Plug.....	4,494.85	634.58
For Cement Mortar Lining (CML), Add	353.34	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	636.00	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	265.00	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0466 EA 42" Mechanical Joint Ductile Iron Plug.....	6,055.83	761.50
For Cement Mortar Lining (CML), Add	490.20	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	882.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	367.65	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0467 EA 48" Mechanical Joint Ductile Iron Plug.....	7,816.50	846.11
For Cement Mortar Lining (CML), Add	653.45	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,176.21	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	490.09	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0468 Mechanical Joint Ductile Iron Long Sleeves (33 14 13 13-0002)		
33 14 13 13-0469 EA 3" Mechanical Joint Ductile Iron Long Sleeves	256.46	127.27
For Cement Mortar Lining (CML), Add	6.36	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	11.45	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.77	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0470 EA 4" Mechanical Joint Ductile Iron Long Sleeves	298.46	147.36
For Cement Mortar Lining (CML), Add	7.52	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	13.54	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.64	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0471 EA 6" Mechanical Joint Ductile Iron Long Sleeves	405.20	184.19
For Cement Mortar Lining (CML), Add	12.61	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	22.70	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.46	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0472 EA 8" Mechanical Joint Ductile Iron Long Sleeves	526.06	210.48
For Cement Mortar Lining (CML), Add	20.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	37.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	15.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0473 EA 10" Mechanical Joint Ductile Iron Long Sleeves	727.17	317.29
For Cement Mortar Lining (CML), Add	24.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	44.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.48	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0474 EA 12" Mechanical Joint Ductile Iron Long Sleeves	857.65	346.13
For Cement Mortar Lining (CML), Add	33.32	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	59.98	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.99	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0475 EA 14" Mechanical Joint Ductile Iron Long Sleeves	1,080.17	380.75
For Cement Mortar Lining (CML), Add	50.33	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	90.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	37.75	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0476 EA 16" Mechanical Joint Ductile Iron Long Sleeves	1,278.47	423.05
For Cement Mortar Lining (CML), Add	63.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	114.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	47.81	
Note: ANSI/AWWA C151/A21.51		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0477 EA 18" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,536.77 81.57 146.82 61.17	475.94
33 14 13 13-0478 EA 20" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,808.70 98.46 177.22 73.84	543.91
33 14 13 13-0479 EA 24" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,258.44 129.70 233.45 97.27	634.58
33 14 13 13-0480 EA 30" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,870.33 271.65 488.98 203.74	761.50
33 14 13 13-0481 EA 36" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,256.74 381.45 686.61 286.09	951.87
33 14 13 13-0482 EA 42" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,748.57 510.22 918.39 382.66	1,086.58
33 14 13 13-0483 EA 48" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,090.35 716.74 1,290.13 537.55	1,269.16
33 14 13 13-0484 Mechanical Joint Ductile Iron Gland Packs (33 14 13 13-0002) Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts.		
33 14 13 13-0485 Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts (33 14 13 13-0484) Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0486 EA 3" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	23.14	
33 14 13 13-0487 EA 4" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.	38.45	
33 14 13 13-0488 EA 6" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	46.46	
33 14 13 13-0489 EA 8" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	54.47	
33 14 13 13-0490 EA 10" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	75.30	
33 14 13 13-0491 EA 12" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	80.11	
33 14 13 13-0492 EA 14" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.	131.38	
33 14 13 13-0493 EA 16" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	139.39	
33 14 13 13-0494 EA 18" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	185.85	
33 14 13 13-0495 EA 20" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.	240.32	
33 14 13 13-0496 EA 24" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.	334.85	
33 14 13 13-0497 EA 30" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes twenty (20) 1" diameter plain finish Boltss with nut.	799.48	
33 14 13 13-0498 EA 36" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes twenty-four (24) 1" diameter plain finish Boltss with nut.	1,723.92	
33 14 13 13-0499 EA 42" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes twenty-eight (28) 1-1/4" diameter plain finish Boltss with nut.	2,516.99	
33 14 13 13-0500 EA 48" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... Note: Includes thirty-two (32) 1-1/4" diameter plain finish Boltss with nut.	3,088.96	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**MINOR
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33 14 13 13-0501	EA	54" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	4,149.59	
		Note: Includes thirty-six (36) 1-1/4" diameter plain finish Boltss with nut.		
33 14 13 13-0502		Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts <small>(33 14 13 13-04B4)</small>		
		Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0503	EA	3" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	39.34	
33 14 13 13-0504	EA	4" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	54.47	
		Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0505	EA	6" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	68.89	
		Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0506	EA	8" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	75.30	
		Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0507	EA	10" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	104.14	
		Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0508	EA	12" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	108.95	
		Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0509	EA	14" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	165.02	
		Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0510	EA	16" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	181.04	
		Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0511	EA	18" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	240.32	
		Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0512	EA	20" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	310.82	
		Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0513	EA	24" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	434.19	
		Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0514		Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts <small>(33 14 13 13-04B4)</small>		
		Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0515	EA	3" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	25.45	
33 14 13 13-0516	EA	4" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	41.66	
		Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0517	EA	6" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	49.67	
		Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0518	EA	8" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	59.28	
		Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0519	EA	10" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	81.71	
		Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0520	EA	12" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	86.52	
		Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0521	EA	14" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	142.59	
		Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0522	EA	16" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	150.60	
		Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0523	EA	18" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	203.47	
		Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0524	EA	20" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	261.15	
		Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0525	EA	24" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	365.29	
		Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0526	EA	30" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	874.78	
		Note: Includes twenty (20) 1" diameter plain finish Boltss with nut.		
33 14 13 13-0527	EA	36" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	1,938.61	
		Note: Includes twenty-four (24) 1" diameter plain finish Boltss with nut.		
33 14 13 13-0528	EA	42" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	2,806.98	
		Note: Includes twenty-eight (28) 1-1/4" diameter plain finish Boltss with nut.		
33 14 13 13-0529	EA	48" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	3,454.26	
		Note: Includes thirty-two (32) 1-1/4" diameter plain finish Boltss with nut.		
33 14 13 13-0530	EA	54" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	4,239.32	
		Note: Includes thirty-six (36) 1-1/4" diameter plain finish Boltss with nut.		
33 14 13 13-0531		Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters <small>(33 14 13 13-0002)</small>		
33 14 13 13-0532	EA	3" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	268.03	127.27
		For Cement Mortar Lining (CML), Add	7.52	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	13.54	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.64	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0533	EA	4" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	304.25	147.36
		For Cement Mortar Lining (CML), Add	8.10	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	14.58	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.07	
		Note: ANSI/AWWA C151/A21.51		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0534 EA 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	391.32 11.22 20.20 8.42	184.19
33 14 13 13-0535 EA 8" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	489.03 17.01 30.61 12.76	210.48
33 14 13 13-0536 EA 10" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	776.92 29.62 53.31 22.21	317.29
33 14 13 13-0537 EA 12" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	903.93 37.95 68.31 28.46	346.13
33 14 13 13-0538 EA 14" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,179.67 60.28 108.50 45.21	380.75
33 14 13 13-0539 EA 16" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,329.38 68.84 123.91 51.63	423.05
33 14 13 13-0540 EA 18" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,773.94 105.28 189.51 78.96	475.94
33 14 13 13-0541 EA 20" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,078.27 125.41 225.75 94.06	543.91
33 14 13 13-0542 EA 24" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,506.03 154.45 278.02 115.84	634.58
33 14 13 13-0543 EA 30" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,996.44 284.27 511.68 213.20	761.50
33 14 13 13-0544 EA 36" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,515.90 407.37 733.26 305.52	951.87
33 14 13 13-0545 EA 42" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,327.79 567.95 1,022.31 425.96	1,087.83

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0546 EA 48" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	9,035.97 711.30 1,280.34 533.47	1,269.16
33 14 13 13-0547 Mechanical Joint Restraints With Accessories For Ductile Iron Pipe (MEGALUG® 1100DEC Series) <small>(33 14 13 13-0002)</small> Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts and bolts. Excludes pipe and fitting.		
33 14 13 13-0548 EA 3" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1103DSC).....	170.73	63.83
33 14 13 13-0549 EA 4" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1104DEC).....	194.95	75.61
33 14 13 13-0550 EA 6" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1106DEC).....	241.84	93.56
33 14 13 13-0551 EA 8" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1108DEC).....	301.22	109.19
33 14 13 13-0552 EA 10" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1110DEC).....	434.46	158.65
33 14 13 13-0553 EA 12" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1112DEC).....	534.90	181.33
33 14 13 13-0554 EA 14" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1114DEC).....	622.05	195.18
33 14 13 13-0555 EA 16" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1116DEC).....	765.10	211.53
33 14 13 13-0556 EA 18" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1118DEC).....	980.84	253.83
33 14 13 13-0557 EA 20" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1120DEC).....	1,156.78	281.91
33 14 13 13-0558 EA 24" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1124DEC).....	1,500.14	325.27
33 14 13 13-0559 EA 30" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1130DEC).....	2,899.92	390.07
33 14 13 13-0560 EA 36" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1136DEC).....	3,581.43	488.15
33 14 13 13-0561 EA 42" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1142DEC).....	5,277.56	563.24
33 14 13 13-0562 EA 48" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1148DEC).....	6,758.68	724.39
33 14 13 13-0563 Mechanical Joint Ductile Iron Force Balanced Flexible Expansion Joint (FLEX-TEND®) <small>(33 14 13 13-0002)</small>		
33 14 13 13-0564 EA 3" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	3,566.93	52.25
33 14 13 13-0565 EA 4" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	3,714.62	65.31
33 14 13 13-0566 EA 6" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	5,390.19	96.51
33 14 13 13-0567 EA 8" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	7,324.44	114.48
33 14 13 13-0568 EA 10" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	9,231.27	126.62
33 14 13 13-0569 EA 12" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	12,311.68	148.55
33 14 13 13-0570 EA 14" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	15,165.81	166.57
33 14 13 13-0571 EA 16" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	17,941.60	190.38
33 14 13 13-0572 EA 18" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	20,229.74	266.53
33 14 13 13-0573 EA 20" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	27,214.26	333.16
33 14 13 13-0574 EA 24" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	37,707.83	444.21
33 14 13 13-0575 Set Screw Flange Adapter For Ductile Iron Pipe (E-Z Flange 1000DSM Series) <small>(33 14 13 13-0002)</small> Note: Includes machined bolts and gasket.		
33 14 13 13-0576 EA 3" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1003DSM).....	169.53	63.83
33 14 13 13-0577 EA 4" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1004DSM).....	217.11	75.61
33 14 13 13-0578 EA 6" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1006DSM).....	280.27	93.56
33 14 13 13-0579 EA 8" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1008DSM).....	320.07	109.19
33 14 13 13-0580 EA 10" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1010DSM).....	560.20	167.45
33 14 13 13-0581 EA 12" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1012DSM).....	634.17	191.40
33 14 13 13-0582 Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 2100 Series) <small>(33 14 13 13-0002)</small> Note: Includes nuts, bolts and gasket.		
33 14 13 13-0583 EA 3" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 2103000).....	244.82	63.83
33 14 13 13-0584 EA 4" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210400).....	304.23	75.61
33 14 13 13-0585 EA 6" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210600).....	420.32	93.56
33 14 13 13-0586 EA 8" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210800).....	605.66	109.19
33 14 13 13-0587 EA 10" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211000).....	878.17	167.45
33 14 13 13-0588 EA 12" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211200).....	1,090.55	191.40
33 14 13 13-0589 EA 14" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211400).....	1,673.31	206.01
33 14 13 13-0590 EA 16" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211600).....	2,339.90	223.26
33 14 13 13-0591 EA 18" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211800).....	2,647.80	267.92
33 14 13 13-0592 EA 20" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212000).....	2,924.97	297.55
33 14 13 13-0593 EA 24" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212400).....	3,537.20	343.33
33 14 13 13-0594 EA 30" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213000).....	4,548.45	411.72
33 14 13 13-0595 EA 36" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213600).....	6,785.79	515.24
33 14 13 13-0596 EA 42" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214200).....	17,640.86	594.50
33 14 13 13-0597 EA 48" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214800).....	22,595.66	764.59
33 14 13 13-0598 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Piping <small>(33 14 13 13-0001)</small> Note: See CSI section 33 14 13 13-0484 for bolts and gaskets.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 14 13 13-0599

**Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint
Ductile Iron 90 Degree Elbow** (33 14 13 13-0598)

33 14 13 13-0600	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	301.64	36.43
33 14 13 13-0601	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	360.98	43.63
33 14 13 13-0602	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	559.06	63.93
33 14 13 13-0603	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	760.11	76.11
33 14 13 13-0604	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,034.93	84.61
33 14 13 13-0605	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,309.25	99.03
33 14 13 13-0606	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,850.48	111.53
33 14 13 13-0607	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	2,242.42	126.91
33 14 13 13-0608	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	2,718.46	177.88
33 14 13 13-0609	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	3,388.56	222.11
33 14 13 13-0610	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	4,784.46	296.14
33 14 13 13-0611	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	7,604.14	317.29
33 14 13 13-0612	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	11,150.01	329.79
33 14 13 13-0613	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	18,311.93	380.75
33 14 13 13-0614	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	23,920.68	404.79

33 14 13 13-0615

**Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint
Ductile Iron 45 Degree Elbow** (33 14 13 13-0598)

33 14 13 13-0616	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	288.92	36.43
33 14 13 13-0617	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	339.00	43.63
33 14 13 13-0618	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	520.88	63.93
33 14 13 13-0619	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	701.10	76.11
33 14 13 13-0620	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	909.97	84.61
33 14 13 13-0621	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,197.03	99.03
33 14 13 13-0622	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,609.83	111.53
33 14 13 13-0623	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,925.42	126.91
33 14 13 13-0624	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	2,286.92	177.88
33 14 13 13-0625	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	2,778.84	222.11
33 14 13 13-0626	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	3,663.36	296.14
33 14 13 13-0627	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	6,658.91	317.29
33 14 13 13-0628	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	9,168.14	329.79
33 14 13 13-0629	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	13,584.59	380.75
33 14 13 13-0630	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	17,360.72	404.79

33 14 13 13-0631

**Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint
Ductile Iron 22-1/2 Degree Elbow** (33 14 13 13-0598)

33 14 13 13-0632	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	227.60	36.43
33 14 13 13-0633	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	335.53	43.63
33 14 13 13-0634	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	506.99	63.93
33 14 13 13-0635	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	696.47	76.11
33 14 13 13-0636	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	908.82	84.61
33 14 13 13-0637	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,129.93	99.03
33 14 13 13-0638	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,619.09	111.53
33 14 13 13-0639	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,883.77	126.91
33 14 13 13-0640	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,276.51	177.88
33 14 13 13-0641	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,874.87	222.11
33 14 13 13-0642	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	3,587.00	296.14
33 14 13 13-0643	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	6,286.12	317.29
33 14 13 13-0644	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	8,069.03	329.79
33 14 13 13-0645	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	11,514.79	380.75
33 14 13 13-0646	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	14,714.75	404.79

33 14 13 13-0647

**Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint
Ductile Iron 11-1/4 Degree Elbow** (33 14 13 13-0598)

33 14 13 13-0648	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	227.60	36.43
33 14 13 13-0649	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	399.16	43.63
33 14 13 13-0650	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	511.62	63.93
33 14 13 13-0651	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	675.65	76.11
33 14 13 13-0652	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	906.50	84.61
33 14 13 13-0653	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,098.69	99.03
33 14 13 13-0654	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,740.57	111.53
33 14 13 13-0655	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,940.46	126.91
33 14 13 13-0656	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,605.08	177.88
33 14 13 13-0657	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,775.37	222.11
33 14 13 13-0658	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	3,588.16	296.14
33 14 13 13-0659	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	6,014.48	317.29
33 14 13 13-0660	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	7,850.36	329.79
33 14 13 13-0661	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	11,202.41	380.75
33 14 13 13-0662	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	14,631.45	404.79

33 14 13 13-0663

**Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x
Plain End (MJxPE) Ductile Iron 90 Degree Elbow** (33 14 13 13-0598)

33 Utilities
33 10 Water Utilities
33 14 Water Utility Transmission and Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0664 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	265.78	36.43
33 14 13 13-0665 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	387.59	43.63
33 14 13 13-0666 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	603.02	63.93
33 14 13 13-0667 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	815.64	76.11
33 14 13 13-0668 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,115.91	84.61
33 14 13 13-0669 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,398.34	99.03
33 14 13 13-0670 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	2,490.28	111.53
33 14 13 13-0671 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	3,870.27	126.91
33 14 13 13-0672 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	4,434.24	177.88
33 14 13 13-0673 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	5,117.06	222.11
33 14 13 13-0674 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	5,552.68	296.14
33 14 13 13-0675 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow ^(33 14 13 13-0598)		
33 14 13 13-0676 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	265.78	36.43
33 14 13 13-0677 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	343.63	43.63
33 14 13 13-0678 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	539.39	63.93
33 14 13 13-0679 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	757.79	76.11
33 14 13 13-0680 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	999.07	84.61
33 14 13 13-0681 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	1,296.53	99.03
33 14 13 13-0682 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	1,720.89	111.53
33 14 13 13-0683 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	2,065.41	126.91
33 14 13 13-0684 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	3,844.18	177.88
33 14 13 13-0685 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	4,045.71	222.11
33 14 13 13-0686 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	4,236.06	296.14
33 14 13 13-0687 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee ^(33 14 13 13-0598)		
33 14 13 13-0688 EA 3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	375.52	54.66
33 14 13 13-0689 EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	410.38	61.63
33 14 13 13-0690 EA 4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	432.95	63.93
33 14 13 13-0691 EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	613.34	81.04
33 14 13 13-0692 EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	663.53	84.23
33 14 13 13-0693 EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	701.89	94.38
33 14 13 13-0694 EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	812.28	97.43
33 14 13 13-0695 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	879.56	107.58
33 14 13 13-0696 EA 8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	966.08	114.68
33 14 13 13-0697 EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,081.06	104.80
33 14 13 13-0698 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,082.76	114.42
33 14 13 13-0699 EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,172.21	121.15
33 14 13 13-0700 EA 10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,263.63	126.91
33 14 13 13-0701 EA 12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,298.13	117.30
33 14 13 13-0702 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,312.55	126.91
33 14 13 13-0703 EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,418.19	133.65
33 14 13 13-0704 EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,629.95	139.41
33 14 13 13-0705 EA 12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,636.10	146.15
33 14 13 13-0706 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,847.64	148.07
33 14 13 13-0707 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,997.27	154.80
33 14 13 13-0708 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	2,414.96	160.57
33 14 13 13-0709 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	2,548.37	167.30
33 14 13 13-0710 EA 14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	2,368.75	177.88
33 14 13 13-0711 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	2,210.50	177.88
33 14 13 13-0712 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	2,328.97	183.64
33 14 13 13-0713 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	2,783.68	190.38
33 14 13 13-0714 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	2,617.43	196.14
33 14 13 13-0715 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	3,398.11	206.72
33 14 13 13-0716 EA 16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	3,086.12	222.11
33 14 13 13-0717 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	2,900.25	227.87



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0718	EA	18" x 8"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,056.81	233.64
33 14 13 13-0719	EA	18" x 10"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,254.68	239.41
33 14 13 13-0720	EA	18" x 12"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,437.85	246.15
33 14 13 13-0721	EA	18" x 14"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,533.59	256.72
33 14 13 13-0722	EA	18" x 16"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,774.64	271.14
33 14 13 13-0723	EA	18" x 18"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,211.44	296.14
33 14 13 13-0724	EA	20" x 6"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,356.39	325.94
33 14 13 13-0725	EA	20" x 8"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,413.44	332.68
33 14 13 13-0726	EA	20" x 10"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,742.05	338.44
33 14 13 13-0727	EA	20" x 12"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,922.90	345.18
33 14 13 13-0728	EA	20" x 14"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,964.27	355.76
33 14 13 13-0729	EA	20" x 16"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,920.69	370.17
33 14 13 13-0730	EA	20" x 18"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,985.74	395.17
33 14 13 13-0731	EA	20" x 20"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,287.65	444.21
33 14 13 13-0732	EA	24" x 6"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,083.93	424.01
33 14 13 13-0733	EA	24" x 8"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,123.64	431.71
33 14 13 13-0734	EA	24" x 10"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,197.71	436.51
33 14 13 13-0735	EA	24" x 12"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,306.82	443.25
33 14 13 13-0736	EA	24" x 14"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,881.54	453.83
33 14 13 13-0737	EA	24" x 16"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,090.20	468.24
33 14 13 13-0738	EA	24" x 18"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,236.24	493.24
33 14 13 13-0739	EA	24" x 20"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,449.83	543.25
33 14 13 13-0740	EA	24" x 24"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,078.94	592.28
33 14 13 13-0741	EA	30" x 6"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,063.74	494.21
33 14 13 13-0742	EA	30" x 8"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,735.55	500.93
33 14 13 13-0743	EA	30" x 10"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,111.58	506.71
33 14 13 13-0744	EA	30" x 12"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,489.10	513.43
33 14 13 13-0745	EA	30" x 14"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,025.66	524.01
33 14 13 13-0746	EA	30" x 16"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,605.69	697.09
33 14 13 13-0747	EA	30" x 18"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,576.26	563.44
33 14 13 13-0748	EA	30" x 20"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,582.76	612.47
33 14 13 13-0749	EA	30" x 24"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,950.01	661.51
33 14 13 13-0750	EA	30" x 30"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,652.79	697.09
33 14 13 13-0751	EA	36" x 8"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,305.57	555.74
33 14 13 13-0752	EA	36" x 10"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,154.80	561.51
33 14 13 13-0753	EA	36" x 12"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,614.49	568.24
33 14 13 13-0754	EA	36" x 14"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,941.62	578.81
33 14 13 13-0755	EA	36" x 16"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,271.75	593.24
33 14 13 13-0756	EA	36" x 18"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,906.40	618.24
33 14 13 13-0757	EA	36" x 20"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,579.31	667.27
33 14 13 13-0758	EA	36" x 24"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,714.78	716.31
33 14 13 13-0759	EA	36" x 30"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	13,211.64	778.81
33 14 13 13-0760	EA	36" x 36"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	15,194.49	778.81
33 14 13 13-0761	EA	42" x 12"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	17,208.47	599.00
33 14 13 13-0762	EA	42" x 14"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	17,554.11	608.63
33 14 13 13-0763	EA	42" x 16"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	19,291.10	624.01
33 14 13 13-0764	EA	42" x 18"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	21,968.96	649.01
33 14 13 13-0765	EA	42" x 20"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	22,043.72	698.04
33 14 13 13-0766	EA	42" x 24"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	18,288.72	747.08
33 14 13 13-0767	EA	42" x 30"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	18,622.82	782.66
33 14 13 13-0768	EA	42" x 36"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	23,021.40	809.57
33 14 13 13-0769	EA	42" x 42"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	24,257.08	824.96
33 14 13 13-0770	EA	48" x 12"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	20,052.10	647.08
33 14 13 13-0771	EA	48" x 14"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	20,411.64	657.66
33 14 13 13-0772	EA	48" x 16"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	20,922.25	673.05
33 14 13 13-0773	EA	48" x 18"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	21,444.68	697.09
33 14 13 13-0774	EA	48" x 20"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	22,007.69	747.08
33 14 13 13-0775	EA	48" x 24"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	22,147.02	796.11
33 14 13 13-0776	EA	48" x 30"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	23,772.29	830.72
33 14 13 13-0777	EA	48" x 36"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	19,177.82	858.61
33 14 13 13-0778	EA	48" x 42"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	23,986.18	873.99
33 14 13 13-0779	EA	48" x 48"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	31,873.11	898.03

33 14 13 13-0780

Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Laterals) (33 14 13 13-0598)

33 14 13 13-0781	EA	3" x 3"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	421.13	61.09
33 14 13 13-0782	EA	4" x 3"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	461.62	61.09
33 14 13 13-0783	EA	4" x 4"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	539.39	63.93
33 14 13 13-0784	EA	6" x 3"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	598.30	81.04
33 14 13 13-0785	EA	6" x 4"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	665.85	84.23
33 14 13 13-0786	EA	6" x 6"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	811.80	94.38
33 14 13 13-0787	EA	8" x 4"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,058.71	97.43
33 14 13 13-0788	EA	8" x 6"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	981.37	107.58
33 14 13 13-0789	EA	8" x 8"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,101.44	114.68
33 14 13 13-0790	EA	10" x 4"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,542.68	104.80
33 14 13 13-0791	EA	10" x 6"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,608.02	114.42
33 14 13 13-0792	EA	10" x 8"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,796.97	121.15
33 14 13 13-0793	EA	10" x 10"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,960.12	126.91
33 14 13 13-0794	EA	12" x 4"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,880.08	117.30
33 14 13 13-0795	EA	12" x 6"	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	2,130.52	126.91



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0796 EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	2,517.31	133.65
33 14 13 13-0797 EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	2,520.81	139.41
33 14 13 13-0798 EA 12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	2,330.28	146.15
33 14 13 13-0799 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	2,763.96	148.07
33 14 13 13-0800 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	3,173.90	154.80
33 14 13 13-0801 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	4,172.39	160.57
33 14 13 13-0802 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	4,473.55	167.30
33 14 13 13-0803 EA 14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	4,362.19	177.88
33 14 13 13-0804 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	2,882.77	177.88
33 14 13 13-0805 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	3,181.65	183.64
33 14 13 13-0806 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	3,770.57	190.38
33 14 13 13-0807 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	3,890.09	196.14
33 14 13 13-0808 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	4,810.75	206.72
33 14 13 13-0809 EA 16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	4,555.46	222.11
33 14 13 13-0810 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	4,080.35	227.87
33 14 13 13-0811 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	4,398.88	233.64
33 14 13 13-0812 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	4,706.67	239.41
33 14 13 13-0813 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	5,040.24	246.15
33 14 13 13-0814 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	5,093.17	256.72
33 14 13 13-0815 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	5,153.74	271.14
33 14 13 13-0816 EA 18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	4,681.17	296.14
33 14 13 13-0817 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	4,816.47	325.94
33 14 13 13-0818 EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	4,922.12	332.68
33 14 13 13-0819 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	5,417.32	338.44
33 14 13 13-0820 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	5,908.24	345.18
33 14 13 13-0821 EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	5,964.65	355.76
33 14 13 13-0822 EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	6,030.99	370.17
33 14 13 13-0823 EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	7,001.17	395.17
33 14 13 13-0824 EA 20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	6,603.89	444.21
33 14 13 13-0825 EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	5,843.67	424.01
33 14 13 13-0826 EA 24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	5,919.24	430.75
33 14 13 13-0827 EA 24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	6,608.81	436.51
33 14 13 13-0828 EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	6,922.70	443.25
33 14 13 13-0829 EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	8,015.74	453.83
33 14 13 13-0830 EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	8,920.90	468.24
33 14 13 13-0831 EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	9,994.04	493.24
33 14 13 13-0832 EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	10,980.49	543.25
33 14 13 13-0833 EA 24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	9,697.91	592.28
33 14 13 13-0834 EA 30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	12,221.47	494.21
33 14 13 13-0835 EA 30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	13,723.58	500.93
33 14 13 13-0836 EA 30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	14,530.01	506.71
33 14 13 13-0837 EA 30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	15,337.92	513.43
33 14 13 13-0838 EA 30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	16,483.03	524.01
33 14 13 13-0839 EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	17,714.44	538.43
33 14 13 13-0840 EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	18,157.04	563.44
33 14 13 13-0841 EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	18,797.56	612.47
33 14 13 13-0842 EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	19,687.75	661.51
33 14 13 13-0843 EA 30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	21,346.57	697.09
33 14 13 13-0844 EA 36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	23,502.25	568.24
33 14 13 13-0845 EA 36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	24,428.68	578.81
33 14 13 13-0846 EA 36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	25,350.02	593.24
33 14 13 13-0847 EA 36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	27,128.91	618.24
33 14 13 13-0848 EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	28,951.83	667.27
33 14 13 13-0849 EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	32,124.71	716.31
33 14 13 13-0850 EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	36,008.38	751.89
33 14 13 13-0851 EA 36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	43,022.85	778.81
33 14 13 13-0852 EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	37,852.42	698.04
33 14 13 13-0853 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	38,784.27	747.08
33 14 13 13-0854 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	41,435.76	782.66
33 14 13 13-0855 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	47,420.53	809.57
33 14 13 13-0856 EA 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	55,985.55	824.96
33 14 13 13-0857 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	37,317.74	747.08
33 14 13 13-0858 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	42,286.22	796.11
33 14 13 13-0859 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	45,075.40	830.72
33 14 13 13-0860 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	51,419.98	858.61
33 14 13 13-0861 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	67,337.47	873.99
33 14 13 13-0862 EA 48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	73,954.06	898.03
33 14 13 13-0863 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee <small>(33 14 13 13-0598)</small>		
33 14 13 13-0864 EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	744.70	94.38
33 14 13 13-0865 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	923.52	107.58
33 14 13 13-0866 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	1,314.15	114.42
33 14 13 13-0867 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	1,511.54	126.91
33 14 13 13-0868 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	1,994.58	148.07



						TOTAL DIRECT	DEMOLITION
MINOR	CSI	UOM	DESCRIPTION			UNIT COST	UNIT COST
	33 14 13 13-0869	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....			2,429.24	177.88
	33 14 13 13-0870	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....			2,871.33	227.87
	33 14 13 13-0871	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....			3,864.29	325.94
	33 14 13 13-0872	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....			4,514.79	424.01
	33 14 13 13-0873	EA	30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....			8,150.12	494.21
33 14 13 13-0874			Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross <small>(33 14 13 13-0598)</small>				
	33 14 13 13-0875	EA	3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			421.64	72.88
	33 14 13 13-0876	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			523.94	79.30
	33 14 13 13-0877	EA	4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			650.53	80.17
	33 14 13 13-0878	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			693.21	99.39
	33 14 13 13-0879	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			809.12	107.58
	33 14 13 13-0880	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			897.15	133.96
	33 14 13 13-0881	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			860.23	117.73
	33 14 13 13-0882	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			1,015.35	144.11
	33 14 13 13-0883	EA	8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			1,007.45	154.26
	33 14 13 13-0884	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			1,007.36	123.07
	33 14 13 13-0885	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			1,131.43	148.07
	33 14 13 13-0886	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			1,340.24	157.69
	33 14 13 13-0887	EA	10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			1,451.58	169.23
	33 14 13 13-0888	EA	12 x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			1,289.46	133.65
	33 14 13 13-0889	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			1,493.36	158.65
	33 14 13 13-0890	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			1,620.02	168.26
	33 14 13 13-0891	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			1,886.41	179.80
	33 14 13 13-0892	EA	12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			2,151.16	190.38
	33 14 13 13-0893	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			2,219.66	174.03
	33 14 13 13-0894	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			2,627.47	183.64
	33 14 13 13-0895	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			2,692.53	196.14
	33 14 13 13-0896	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			2,841.58	205.76
	33 14 13 13-0897	EA	14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			3,147.91	222.11
	33 14 13 13-0898	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			2,484.69	197.10
	33 14 13 13-0899	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			2,839.26	205.76
	33 14 13 13-0900	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			3,418.03	218.26
	33 14 13 13-0901	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			3,819.30	228.83
	33 14 13 13-0902	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			4,633.54	244.22
	33 14 13 13-0903	EA	16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			4,838.40	266.34
	33 14 13 13-0904	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			4,269.87	232.68
	33 14 13 13-0905	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			4,516.87	242.30
	33 14 13 13-0906	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			4,728.86	253.83
	33 14 13 13-0907	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			5,134.76	264.41
	33 14 13 13-0908	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			6,010.30	279.80
	33 14 13 13-0909	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			6,394.50	301.90
	33 14 13 13-0910	EA	18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			6,681.43	338.44
	33 14 13 13-0911	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			5,368.52	292.29
	33 14 13 13-0912	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			5,617.81	300.95
	33 14 13 13-0913	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			5,789.31	313.44
	33 14 13 13-0914	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			6,191.75	324.02
	33 14 13 13-0915	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			6,294.44	339.41
	33 14 13 13-0916	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			7,647.02	361.52
	33 14 13 13-0917	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			7,933.94	397.10
	33 14 13 13-0918	EA	20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			8,567.48	456.70
	33 14 13 13-0919	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			7,342.18	365.37
	33 14 13 13-0920	EA	24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			7,513.08	374.98
	33 14 13 13-0921	EA	24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			7,801.16	386.52
	33 14 13 13-0922	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			8,049.72	397.10
	33 14 13 13-0923	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			8,189.43	412.47
	33 14 13 13-0924	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			8,496.11	434.59
	33 14 13 13-0925	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			11,305.21	471.13
	33 14 13 13-0926	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			11,898.26	529.78
	33 14 13 13-0927	EA	24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			13,096.75	602.85
	33 14 13 13-0928	EA	30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			11,377.19	485.55
	33 14 13 13-0929	EA	30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			11,603.08	497.09
	33 14 13 13-0930	EA	30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			11,825.02	507.67
	33 14 13 13-0931	EA	30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			12,087.38	523.05
	33 14 13 13-0932	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			12,388.27	546.12
	33 14 13 13-0933	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			12,738.83	581.70
	33 14 13 13-0934	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			13,182.63	640.36
	33 14 13 13-0935	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			16,973.86	714.39
	33 14 13 13-0936	EA	30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			19,517.01	824.96
	33 14 13 13-0937	EA	36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			15,916.51	525.93
	33 14 13 13-0938	EA	36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			16,140.09	537.47
	33 14 13 13-0939	EA	36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			16,333.11	548.05
	33 14 13 13-0940	EA	36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			16,563.08	564.40
	33 14 13 13-0941	EA	36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....			16,832.73	586.51

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33 10 Water Utilities
33 14 Water Utility Transmission and Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0942	EA		36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	17,152.05	622.08
33 14 13 13-0943	EA		36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	17,566.93	681.70
33 14 13 13-0944	EA		36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	18,296.85	754.77
33 14 13 13-0945	EA		36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	24,683.42	865.34
33 14 13 13-0946	EA		36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	27,132.12	906.68
33 14 13 13-0947	EA		42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	21,397.05	572.09
33 14 13 13-0948	EA		42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	21,843.36	587.47
33 14 13 13-0949	EA		42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	22,104.91	610.54
33 14 13 13-0950	EA		42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	22,468.20	646.12
33 14 13 13-0951	EA		42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	23,122.56	705.74
33 14 13 13-0952	EA		42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	24,498.07	778.81
33 14 13 13-0953	EA		42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	29,773.96	889.38
33 14 13 13-0954	EA		42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	38,946.92	929.76
33 14 13 13-0955	EA		48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	41,744.35	953.80
33 14 13 13-0956	EA		48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	28,957.55	666.31
33 14 13 13-0957	EA		48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	29,150.50	681.70
33 14 13 13-0958	EA		48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	29,408.58	703.81
33 14 13 13-0959	EA		48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	29,688.57	739.39
33 14 13 13-0960	EA		48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	30,061.79	799.00
33 14 13 13-0961	EA		48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	30,707.26	872.08
33 14 13 13-0962	EA		48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	32,483.34	982.64
33 14 13 13-0963	EA		48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	39,849.12	1,023.99
33 14 13 13-0964	EA		48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	51,306.41	1,048.03
33 14 13 13-0965	EA		48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	54,634.77	1,141.29

33 14 13 13-0966 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducers (33 14 13 13-0966)

33 14 13 13-0967	EA		4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	297.26	39.65
33 14 13 13-0968	EA		6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	414.30	49.70
33 14 13 13-0969	EA		6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	455.03	52.77
33 14 13 13-0970	EA		8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	594.85	59.87
33 14 13 13-0971	EA		8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	620.40	70.02
33 14 13 13-0972	EA		10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	725.41	62.49
33 14 13 13-0973	EA		10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	760.66	72.11
33 14 13 13-0974	EA		10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	792.26	78.84
33 14 13 13-0975	EA		12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	837.98	69.23
33 14 13 13-0976	EA		12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	927.62	78.84
33 14 13 13-0977	EA		12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	944.18	84.61
33 14 13 13-0978	EA		12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	987.02	91.34
33 14 13 13-0979	EA		14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,443.33	89.42
33 14 13 13-0980	EA		14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,452.95	95.18
33 14 13 13-0981	EA		14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,269.04	101.92
33 14 13 13-0982	EA		14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,296.00	107.68
33 14 13 13-0983	EA		16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,729.51	103.85
33 14 13 13-0984	EA		16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,680.12	110.57
33 14 13 13-0985	EA		16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,580.66	116.34
33 14 13 13-0986	EA		16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,563.66	122.11
33 14 13 13-0987	EA		16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,767.01	132.69
33 14 13 13-0988	EA		18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,885.54	134.61
33 14 13 13-0989	EA		18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,123.91	141.34
33 14 13 13-0990	EA		18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,031.71	147.11
33 14 13 13-0991	EA		18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,424.80	157.69
33 14 13 13-0992	EA		18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,131.33	173.07
33 14 13 13-0993	EA		20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,512.18	184.60



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0994 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,533.04	190.38
33 14 13 13-0995 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,306.63	197.10
33 14 13 13-0996 EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,307.50	207.68
33 14 13 13-0997 EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,255.85	222.11
33 14 13 13-0998 EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,664.89	247.10
33 14 13 13-0999 EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,167.90	246.15
33 14 13 13-1000 EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,216.20	256.72
33 14 13 13-1001 EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,275.61	271.14
33 14 13 13-1002 EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,232.29	296.14
33 14 13 13-1003 EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,729.35	345.18
33 14 13 13-1004 EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,746.63	305.75
33 14 13 13-1005 EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,993.70	330.75
33 14 13 13-1006 EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,788.47	380.75
33 14 13 13-1007 EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,930.51	429.79
33 14 13 13-1008 EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,580.44	407.67
33 14 13 13-1009 EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,063.76	456.70
33 14 13 13-1010 EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,542.49	492.28
33 14 13 13-1011 EA 42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	11,157.59	349.02
33 14 13 13-1012 EA 42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	11,098.07	374.02
33 14 13 13-1013 EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	11,136.97	423.05
33 14 13 13-1014 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	11,580.57	472.09
33 14 13 13-1015 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,490.85	507.67
33 14 13 13-1016 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,932.63	534.59
33 14 13 13-1017 EA 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	14,046.43	373.06
33 14 13 13-1018 EA 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	13,600.49	398.06
33 14 13 13-1019 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	12,932.48	447.09
33 14 13 13-1020 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	13,318.24	497.09
33 14 13 13-1021 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	15,945.45	531.71
33 14 13 13-1022 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	13,811.82	558.62
33 14 13 13-1023 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	15,181.72	574.01
33 14 13 13-1024 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps <small>(33 14 13 13-0598)</small>		
33 14 13 13-1025 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	285.35	83.72
33 14 13 13-1026 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	343.22	98.44
33 14 13 13-1027 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	496.13	122.79
33 14 13 13-1028 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	658.06	140.05
33 14 13 13-1029 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	881.63	211.53
33 14 13 13-1030 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,101.66	230.76
33 14 13 13-1031 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,250.01	253.83
33 14 13 13-1032 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,513.72	281.71
33 14 13 13-1033 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,769.59	317.29
33 14 13 13-1034 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	2,128.67	362.48
33 14 13 13-1035 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	2,717.73	423.05
33 14 13 13-1036 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	4,859.04	507.67
33 14 13 13-1037 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	7,910.19	634.58
33 14 13 13-1038 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	11,358.18	761.50
33 14 13 13-1039 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	13,507.59	846.11
33 14 13 13-1040 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug <small>(33 14 13 13-0598)</small>		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1041 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	286.51	83.72
33 14 13 13-1042 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	354.79	98.44
33 14 13 13-1043 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	526.21	122.79
33 14 13 13-1044 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	688.14	140.05
33 14 13 13-1045 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,054.01	211.53
33 14 13 13-1046 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,141.00	230.76
33 14 13 13-1047 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,501.07	253.83
33 14 13 13-1048 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,804.11	281.71
33 14 13 13-1049 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	2,140.98	317.29
33 14 13 13-1050 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	2,630.79	362.48
33 14 13 13-1051 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	3,432.73	423.05
33 14 13 13-1052 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	5,847.09	507.67
33 14 13 13-1053 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	8,524.54	634.58
33 14 13 13-1054 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	11,435.69	761.50
33 14 13 13-1055 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	15,151.63	846.11
33 14 13 13-1056 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters (33 14 13 13-0596)		
33 14 13 13-1057 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	392.98	127.27
33 14 13 13-1058 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	513.66	147.15
33 14 13 13-1059 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	701.38	184.71
33 14 13 13-1060 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	912.48	210.07
33 14 13 13-1061 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,346.15	317.29
33 14 13 13-1062 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,598.11	346.13
33 14 13 13-1063 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	2,069.37	380.75
33 14 13 13-1064 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	2,346.35	423.05
33 14 13 13-1065 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	3,055.86	475.94
33 14 13 13-1066 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	3,541.83	544.20
33 14 13 13-1067 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	4,280.81	634.58
33 14 13 13-1068 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	6,666.70	761.50
33 14 13 13-1069 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	9,044.62	951.87
33 14 13 13-1070 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	12,247.18	1,087.45
33 14 13 13-1071 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	15,197.94	1,269.16
33 14 13 13-1072 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves (33 14 13 13-0598)		
33 14 13 13-1073 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	406.87	127.27
33 14 13 13-1074 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	496.30	147.15
33 14 13 13-1075 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	721.05	184.71
33 14 13 13-1076 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	965.70	210.07
33 14 13 13-1077 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	1,272.10	317.29
33 14 13 13-1078 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	1,528.69	346.13
33 14 13 13-1079 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	1,921.28	380.75
33 14 13 13-1080 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	2,267.68	423.05
33 14 13 13-1081 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	2,699.51	475.94
33 14 13 13-1082 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	3,140.36	544.20
33 14 13 13-1083 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	3,912.89	634.58
33 14 13 13-1084 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	6,475.81	761.50
33 14 13 13-1085 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	8,407.14	951.87
33 14 13 13-1086 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	10,900.90	1,086.48
33 14 13 13-1087 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	16,094.58	1,269.16
33 14 13 13-1088 Push-On Joint Ductile Iron Piping (33 14 13 13-0001)		
33 14 13 13-1089 Push-On Joint Ductile Iron Pipe (33 14 13 13-1088) Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1090 LF 4", Class 50, Push-On Joint Ductile Iron Pipe.....	25.33	8.37
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	8.86	
For Cement Mortar Lining (CML), Add	1.27	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	6.83	
For Fusion Bonded Epoxy Lining (206N), Add	2.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	0.95	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.27	
For Class 51, Add	1.25	
For Class 52, Add	2.79	
For Class 53, Add	7.25	
For Class 54, Add	10.33	
For Class 55, Add	11.91	
For Class 56, Add	13.46	
33 14 13 13-1091 LF 6", Class 50, Push-On Joint Ductile Iron Pipe.....	27.79	9.23
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	9.72	
For Cement Mortar Lining (CML), Add	1.39	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	7.50	
For Fusion Bonded Epoxy Lining (206N), Add	2.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.04	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.39	
For Class 51, Add	1.37	
For Class 52, Add	3.06	
For Class 53, Add	7.96	
For Class 54, Add	11.34	
For Class 55, Add	13.07	
For Class 56, Add	14.77	
33 14 13 13-1092 LF 8", Class 50, Push-On Joint Ductile Iron Pipe.....	34.20	10.15
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	13.29	
For Cement Mortar Lining (CML), Add	1.90	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	10.25	
For Fusion Bonded Epoxy Lining (206N), Add	3.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.42	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.71	
For Class 51, Add	1.83	
For Class 52, Add	4.08	
For Class 53, Add	10.74	
For Class 54, Add	15.31	
For Class 55, Add	17.63	
For Class 56, Add	19.90	
33 14 13 13-1093 LF 10", Class 50, Push-On Joint Ductile Iron Pipe.....	48.41	14.33
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	16.07	
For Cement Mortar Lining (CML), Add	2.68	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	13.39	
For Fusion Bonded Epoxy Lining (206N), Add	4.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.01	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.42	
For Class 51, Add	2.58	
For Class 52, Add	5.77	
For Class 53, Add	15.16	
For Class 54, Add	21.61	
For Class 55, Add	24.88	
For Class 56, Add	28.09	
33 14 13 13-1094 LF 12", Class 50, Push-On Joint Ductile Iron Pipe.....	55.96	15.87
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	15.96	
For Cement Mortar Lining (CML), Add	3.19	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	12.77	
For Fusion Bonded Epoxy Lining (206N), Add	5.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.39	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.80	
For Class 51, Add	3.06	
For Class 52, Add	6.83	
For Class 53, Add	18.01	
For Class 54, Add	25.67	
For Class 55, Add	29.54	
For Class 56, Add	33.36	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1095 LF 14", Class 50, Push-On Joint Ductile Iron Pipe	67.71	17.88
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	17.90	
For Cement Mortar Lining (CML), Add	4.07	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	13.83	
For Fusion Bonded Epoxy Lining (206N), Add	7.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.05	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.39	
For Class 51, Add	3.85	
For Class 52, Add	8.61	
For Class 53, Add	22.82	
For Class 54, Add	32.54	
For Class 55, Add	37.43	
For Class 56, Add	42.25	
33 14 13 13-1096 LF 16", Class 50, Push-On Joint Ductile Iron Pipe	79.99	20.38
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	20.14	
For Cement Mortar Lining (CML), Add	4.91	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	15.23	
For Fusion Bonded Epoxy Lining (206N), Add	8.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.68	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.00	
For Class 51, Add	4.63	
For Class 52, Add	10.36	
For Class 53, Add	27.49	
For Class 54, Add	39.20	
For Class 55, Add	45.09	
For Class 56, Add	50.88	
33 14 13 13-1097 LF 18", Class 50, Push-On Joint Ductile Iron Pipe	93.12	23.85
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	23.39	
For Cement Mortar Lining (CML), Add	5.71	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	17.69	
For Fusion Bonded Epoxy Lining (206N), Add	10.27	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.28	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.66	
For Class 51, Add	5.38	
For Class 52, Add	12.03	
For Class 53, Add	31.93	
For Class 54, Add	45.53	
For Class 55, Add	52.38	
For Class 56, Add	59.11	
33 14 13 13-1098 LF 20", Class 50, Push-On Joint Ductile Iron Pipe	107.81	28.55
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	24.53	
For Cement Mortar Lining (CML), Add	6.45	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	18.07	
For Fusion Bonded Epoxy Lining (206N), Add	11.62	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.84	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-5.39	
For Class 51, Add	6.11	
For Class 52, Add	13.67	
For Class 53, Add	36.21	
For Class 54, Add	51.63	
For Class 55, Add	59.40	
For Class 56, Add	67.04	
33 14 13 13-1099 LF 24", Class 50, Push-On Joint Ductile Iron Pipe	136.25	35.67
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	25.46	
For Cement Mortar Lining (CML), Add	8.21	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	17.25	
For Fusion Bonded Epoxy Lining (206N), Add	14.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.16	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-6.81	
For Class 51, Add	7.76	
For Class 52, Add	17.37	
For Class 53, Add	46.04	
For Class 54, Add	65.64	
For Class 55, Add	75.53	
For Class 56, Add	85.24	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1100 LF 30", Class 50, Push-On Joint Ductile Iron Pipe.....	159.90	38.08
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	31.69	
For Cement Mortar Lining (CML), Add	10.22	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	18.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.67	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-8.00	
For Class 51, Add	9.54	
For Class 52, Add	21.38	
For Class 53, Add	56.94	
For Class 54, Add	81.22	
For Class 55, Add	93.40	
For Class 56, Add	105.36	
33 14 13 13-1101 LF 36", Class 50, Push-On Joint Ductile Iron Pipe.....	195.90	40.48
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	41.71	
For Cement Mortar Lining (CML), Add	13.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	24.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.09	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-9.80	
For Class 51, Add	12.38	
For Class 52, Add	27.79	
For Class 53, Add	74.41	
For Class 54, Add	106.19	
For Class 55, Add	122.04	
For Class 56, Add	137.61	
33 14 13 13-1102 LF 42", Class 50, Push-On Joint Ductile Iron Pipe.....	236.48	42.88
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	53.19	
For Cement Mortar Lining (CML), Add	17.16	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	30.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	12.87	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-11.82	
For Class 51, Add	15.62	
For Class 52, Add	35.10	
For Class 53, Add	94.38	
For Class 54, Add	134.74	
For Class 55, Add	154.79	
For Class 56, Add	174.47	
33 14 13 13-1103 LF 48", Class 50, Push-On Joint Ductile Iron Pipe.....	282.46	45.19
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	66.31	
For Cement Mortar Lining (CML), Add	21.39	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	38.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.04	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-14.12	
For Class 51, Add	19.32	
For Class 52, Add	43.45	
For Class 53, Add	117.20	
For Class 54, Add	167.36	
For Class 55, Add	192.20	
For Class 56, Add	216.58	
33 14 13 13-1104 LF 54", Class 50, Push-On Joint Ductile Iron Pipe.....	354.66	47.60
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	87.59	
For Cement Mortar Lining (CML), Add	28.26	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	50.86	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	21.19	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-17.73	
For Class 51, Add	25.29	
For Class 52, Add	56.93	
For Class 53, Add	154.12	
For Class 54, Add	220.15	
For Class 55, Add	252.73	
For Class 56, Add	284.71	
33 14 13 13-1105 Push-On Joint Ductile Iron 90 Degree Elbow (33 14 13 13-1088)		
33 14 13 13-1106 EA 4" 90 Degree Elbow, Push-On Joint Ductile Iron.....	185.32	32.68
For Cement Mortar Lining (CML), Add	13.58	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	24.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.18	
Note: ANSI/AWWA C151/A21.51		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1107 EA 6" 90 Degree Elbow, Push-On Joint Ductile Iron.....	268.82	48.21
For Cement Mortar Lining (CML), Add	19.58	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	35.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.68	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1108 EA 8" 90 Degree Elbow, Push-On Joint Ductile Iron.....	358.29	57.23
For Cement Mortar Lining (CML), Add	27.15	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	48.87	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	20.36	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1109 EA 10" 90 Degree Elbow, Push-On Joint Ductile Iron.....	541.33	63.26
For Cement Mortar Lining (CML), Add	41.05	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	73.89	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.79	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1110 EA 12" 90 Degree Elbow, Push-On Joint Ductile Iron.....	696.47	74.22
For Cement Mortar Lining (CML), Add	54.31	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	97.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	40.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1111 EA 14" 90 Degree Elbow, Push-On Joint Ductile Iron.....	1,363.18	83.26
For Cement Mortar Lining (CML), Add	119.10	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	214.39	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	89.33	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1112 EA 16" 90 Degree Elbow, Push-On Joint Ductile Iron.....	1,541.28	95.18
For Cement Mortar Lining (CML), Add	134.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	242.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	100.85	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1113 EA 18" 90 Degree Elbow, Push-On Joint Ductile Iron.....	2,397.25	133.26
For Cement Mortar Lining (CML), Add	212.19	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	381.94	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	159.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1114 EA 20" 90 Degree Elbow, Push-On Joint Ductile Iron.....	2,699.50	167.98
For Cement Mortar Lining (CML), Add	236.36	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	425.45	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	177.27	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1115 EA 24" 90 Degree Elbow, Push-On Joint Ductile Iron.....	3,370.79	209.99
For Cement Mortar Lining (CML), Add	295.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	531.16	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	221.32	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1116 Push-On Joint Ductile Iron 45 Degree Elbow (33 14 13 13-1088)		
33 14 13 13-1117 EA 4" 45 Degree Elbow, Push-On Joint Ductile Iron.....	154.44	32.68
For Cement Mortar Lining (CML), Add	10.49	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	18.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.87	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1118 EA 6" 45 Degree Elbow, Push-On Joint Ductile Iron.....	227.30	48.21
For Cement Mortar Lining (CML), Add	15.42	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	27.76	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.57	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1119 EA 8" 45 Degree Elbow, Push-On Joint Ductile Iron.....	313.62	57.23
For Cement Mortar Lining (CML), Add	22.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	40.83	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.01	
Note: ANSI/AWWA C151/A21.51		



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1120	EA	10" 45 Degree Elbow, Push-On Joint Ductile Iron..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	479.65 34.88 62.78 26.16	63.26
33 14 13 13-1121	EA	12" 45 Degree Elbow, Push-On Joint Ductile Iron..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	617.89 46.45 83.61 34.84	74.22
33 14 13 13-1122	EA	14" 45 Degree Elbow, Push-On Joint Ductile Iron..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	872.46 70.03 126.05 52.52	83.26
33 14 13 13-1123	EA	16" 45 Degree Elbow, Push-On Joint Ductile Iron..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,284.33 108.77 195.78 81.57	95.18
33 14 13 13-1124	EA	18" 45 Degree Elbow, Push-On Joint Ductile Iron..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,483.13 120.78 217.40 90.58	133.26
33 14 13 13-1125	EA	20" 45 Degree Elbow, Push-On Joint Ductile Iron..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,073.64 173.77 312.79 130.33	167.98
33 14 13 13-1126	EA	24" 45 Degree Elbow, Push-On Joint Ductile Iron..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,573.66 215.38 387.68 161.53	209.99
33 14 13 13-1127		Push-On Joint Ductile Iron Tee <small>(33 14 13 13-1088)</small>		
33 14 13 13-1128	EA	4" Tee, Push-On Joint Ductile Iron..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	283.04 21.00 37.79 15.75	48.21
33 14 13 13-1129	EA	6" Tee, Push-On Joint Ductile Iron..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	394.68 28.73 51.72 21.55	70.84
33 14 13 13-1130	EA	8" Tee, Push-On Joint Ductile Iron..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	537.51 40.73 73.32 30.55	85.86
33 14 13 13-1131	EA	10" Tee, Push-On Joint Ductile Iron..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	785.15 64.09 115.37 48.07	96.15
33 14 13 13-1132	EA	12" Tee, Push-On Joint Ductile Iron..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	976.53 80.83 145.49 60.62	110.86

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1133 EA 14" Tee, Push-On Joint Ductile Iron.....	1,565.33	133.26
For Cement Mortar Lining (CML), Add	136.34	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	245.41	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	102.26	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1134 EA 16" Tee, Push-On Joint Ductile Iron.....	2,258.33	166.63
For Cement Mortar Lining (CML), Add	200.59	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	361.07	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	150.45	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1135 EA 18" Tee, Push-On Joint Ductile Iron.....	2,840.59	222.30
For Cement Mortar Lining (CML), Add	250.38	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	450.68	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	187.78	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1136 EA 20" Tee, Push-On Joint Ductile Iron.....	3,348.90	271.23
For Cement Mortar Lining (CML), Add	293.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	528.83	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	220.35	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1137 EA 24" Tee, Push-On Joint Ductile Iron.....	4,383.60	339.02
For Cement Mortar Lining (CML), Add	387.00	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	696.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	290.25	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1138 Flanged End x Push-On Joint Ductile Iron Adapters (33 14 13 13-1088)		
33 14 13 13-1139 EA 4" Flanged End x Push-On Joint Adapter, Ductile Iron.....	319.89	113.36
For Cement Mortar Lining (CML), Add	14.81	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	26.67	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.11	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1140 EA 6" Flanged End x Push-On Joint Adapter, Ductile Iron.....	392.20	140.35
For Cement Mortar Lining (CML), Add	17.96	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	32.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.47	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1141 EA 8" Flanged End x Push-On Joint Adapter, Ductile Iron.....	506.21	163.70
For Cement Mortar Lining (CML), Add	25.81	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	46.46	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.36	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1142 EA 10" Flanged End x Push-On Joint Adapter, Ductile Iron.....	697.25	237.97
For Cement Mortar Lining (CML), Add	33.67	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	60.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	25.25	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1143 EA 12" Flanged End x Push-On Joint Adapter, Ductile Iron.....	838.54	272.00
For Cement Mortar Lining (CML), Add	42.65	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	76.76	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	31.99	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1144 EA 14" Flanged End x Push-On Joint Adapter, Ductile Iron.....	960.03	292.87
For Cement Mortar Lining (CML), Add	51.63	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	92.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	38.72	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1145 EA 16" Flanged End x Push-On Joint Adapter, Ductile Iron.....	1,131.67	317.29
For Cement Mortar Lining (CML), Add	65.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	117.17	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	48.82	
Note: ANSI/AWWA C151/A21.51		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1146 EA 18" Flanged End x Push-On Joint Adapter, Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,340.05 76.32 137.37 57.24	380.75
33 14 13 13-1147 EA 20" Flanged End x Push-On Joint Adapter, Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,550.05 90.91 163.63 68.18	423.05
33 14 13 13-1148 EA 24" Flanged End x Push-On Joint Adapter, Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,929.25 118.96 214.14 89.22	488.15
33 14 13 13-1149 EA 30" Flanged End x Push-On Joint Adapter, Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,022.59 213.51 384.31 160.13	585.74
33 14 13 13-1150 EA 36" Flanged End x Push-On Joint Adapter, Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	4,155.78 304.64 548.35 228.48	732.17
33 14 13 13-1151 EA 42" Flanged End x Push-On Joint Adapter, Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	5,226.65 394.47 710.04 295.85	846.11
33 14 13 13-1152 EA 48" Flanged End x Push-On Joint Adapter, Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	6,673.48 502.52 904.54 376.89	1,087.83
33 14 13 13-1153 EA 54" Flanged End x Push-On Joint Adapter, Ductile Iron <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	8,090.75 616.73 1,110.11 462.54	1,269.45
33 14 13 13-1154 Push-On Joint Ductile Iron Pipe And Fitting Restraints <small>(33 14 13 13-1088)</small> <i>Note: Includes ductile iron follower gland, restraint ring and all nuts and bolts. Excludes pipe and fitting.</i>		
33 14 13 13-1155 EA 4" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	39.15	17.65
33 14 13 13-1156 EA 6" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	51.76	23.03
33 14 13 13-1157 EA 8" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	67.56	23.53
33 14 13 13-1158 EA 10" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	79.07	24.99
33 14 13 13-1159 EA 12" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	93.47	27.76
33 14 13 13-1160 EA 14" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	116.87	31.23
33 14 13 13-1161 EA 16" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	137.53	35.69
33 14 13 13-1162 EA 18" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	154.53	38.67
33 14 13 13-1163 EA 20" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	180.59	46.40
33 14 13 13-1164 EA 24" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	214.82	48.19
33 14 13 13-1165 EA 30" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	273.16	53.55
33 14 13 13-1166 EA 36" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	353.11	58.00
33 14 13 13-1167 EA 42" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	433.72	63.46
33 14 13 13-1168 EA 48" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	510.78	71.39
33 14 13 13-1169 EA 54" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	699.90	77.42
33 14 13 13-1170 Push-On Joint Ductile Iron Bell Restraint Harness (MEGALUG® 1700 Series) <small>(33 14 13 13-1088)</small>		
33 14 13 13-1171 EA 4" Bell Restraint Harness, Ductile Iron (MEGALUG® 170400)	200.53	64.90
33 14 13 13-1172 EA 6" Bell Restraint Harness, Ductile Iron (MEGALUG® 170600)	263.79	79.23
33 14 13 13-1173 EA 8" Bell Restraint Harness, Ductile Iron (MEGALUG® 170800)	339.03	96.63
33 14 13 13-1174 EA 10" Bell Restraint Harness, Ductile Iron (MEGALUG® 171000)	507.79	117.88
33 14 13 13-1175 EA 12" Bell Restraint Harness, Ductile Iron (MEGALUG® 171200)	629.56	143.74

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1176	EA		14" Bell Restraint Harness, Ductile Iron (MEGALUG® 171400)	1,077.11	175.38
33 14 13 13-1177	EA		16" Bell Restraint Harness, Ductile Iron (MEGALUG® 171600)	1,231.27	214.03
33 14 13 13-1178	EA		18" Bell Restraint Harness, Ductile Iron (MEGALUG® 171800)	1,399.83	261.04
33 14 13 13-1179	EA		20" Bell Restraint Harness, Ductile Iron (MEGALUG® 172000)	1,898.69	318.54
33 14 13 13-1180	EA		24" Bell Restraint Harness, Ductile Iron (MEGALUG® 172400)	2,419.69	388.54
33 14 13 13-1181	EA		30" Bell Restraint Harness, Ductile Iron (MEGALUG® 173000)	4,153.99	474.11
33 14 13 13-1182	EA		36" Bell Restraint Harness, Ductile Iron (MEGALUG® 173600)	5,883.24	578.33
33 14 13 13-1183	EA		42" Bell Restraint Harness, Ductile Iron (MEGALUG® 174200)	10,647.79	705.64
33 14 13 13-1184	EA		48" Bell Restraint Harness, Ductile Iron (MEGALUG® 174800)	13,769.05	860.83
33 14 13 13-1185			Ductile Iron Pipe Repair (33 14 13 13-0001) See CSI section 33 14 13 13-0002 for mechanical joint fittings.		
33 14 13 13-1186			Ductile Iron Pipe Repair (33 14 13 13-1185) Note: Includes two transition sleeves, mechanical joint ductile iron sleeve and 16' of ductile iron pipe.		
33 14 13 13-1187	EA		30" Diameter Mechanical Ductile Iron Push Joint	2,851.48	
33 14 13 13-1188	EA		36" Diameter Mechanical Ductile Iron Push Joint	3,616.08	
33 14 13 13-1189	EA		42" Diameter Mechanical Ductile Iron Push Joint	4,572.89	
33 14 13 13-1190	EA		48" Diameter Mechanical Ductile Iron Push Joint	5,739.56	
33 14 13 13-1191	EA		54" Diameter Mechanical Ductile Iron Push Joint	8,308.73	
33 14 13 13-1192			WEKO Seals (33 14 13 13-1185) Note: Internal joint seal.		
33 14 13 13-1193	EA		16" WEKO Internal Joint Seal	1,589.32	182.24
			<i>For Extra Wide Seals, Add</i>	83.81	
33 14 13 13-1194	EA		18" WEKO Internal Joint Seal	1,693.00	192.43
			<i>For Extra Wide Seals, Add</i>	84.58	
33 14 13 13-1195	EA		20" WEKO Internal Joint Seal	1,796.54	202.63
			<i>For Extra Wide Seals, Add</i>	85.35	
33 14 13 13-1196	EA		24" WEKO Internal Joint Seal	1,903.84	218.83
			<i>For Extra Wide Seals, Add</i>	86.58	
33 14 13 13-1197	EA		30" WEKO Internal Joint Seal	1,966.43	235.05
			<i>For Extra Wide Seals, Add</i>	87.81	
33 14 13 13-1198	EA		36" WEKO Internal Joint Seal	2,064.21	255.31
			<i>For Extra Wide Seals, Add</i>	89.34	
33 14 13 13-1199	EA		42" WEKO Internal Joint Seal	2,201.70	279.62
			<i>For Extra Wide Seals, Add</i>	91.18	
33 14 13 13-1200	EA		48" WEKO Internal Joint Seal	2,377.77	299.88
			<i>For Extra Wide Seals, Add</i>	92.72	
33 14 13 13-1201	EA		54" WEKO Internal Joint Seal	2,467.20	316.10
			<i>For Extra Wide Seals, Add</i>	93.95	
33 14 13 13-1202	EA		60" WEKO Internal Joint Seal	2,573.38	340.41
			<i>For Extra Wide Seals, Add</i>	95.79	
33 14 13 23			Plastic Public Water Utility Distribution Piping (33 14 13)		
33 14 13 23-0001			Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Piping (33 14 13 23)		
33 14 13 23-0002			Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe (33 14 13 23-0001)		
33 14 13 23-0003	LF		3/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	2.11	0.75
			<i>For >1,000, Deduct</i>	-0.11	
			<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.04	
33 14 13 23-0004	LF		1" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	2.32	0.80
			<i>For >1,000, Deduct</i>	-0.12	
			<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.05	
33 14 13 23-0005	LF		1-1/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	2.69	0.87
			<i>For >1,000, Deduct</i>	-0.13	
			<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.08	
33 14 13 23-0006	LF		1-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	3.10	0.97
			<i>For >1,000, Deduct</i>	-0.16	
			<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.10	
33 14 13 23-0007	LF		2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	3.96	1.09
			<i>For >1,000, Deduct</i>	-0.20	
			<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.19	
33 14 13 23-0008	LF		2-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	5.07	1.23
			<i>For >1,000, Deduct</i>	-0.25	
			<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.30	
33 14 13 23-0009	LF		3" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	6.15	1.37
			<i>For >1,000, Deduct</i>	-0.31	
			<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.41	
33 14 13 23-0010	LF		4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	8.67	1.69
			<i>For >1,000, Deduct</i>	-0.43	
			<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.67	
33 14 13 23-0011	LF		6" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	15.07	2.14
			<i>For >1,000, Deduct</i>	-0.75	
			<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	1.46	
33 14 13 23-0012	LF		8" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	23.96	3.00
			<i>For >1,000, Deduct</i>	-1.20	
			<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	2.47	
33 14 13 23-0013	LF		10" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	35.62	4.02
			<i>For >1,000, Deduct</i>	-1.78	
			<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	3.84	



			Utilities	33	
			Water Utilities	33 10	CS
			Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0014	LF	12" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For >1,000, Deduct For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	49.56 -2.48 5.41	5.41
33 14 13 23-0015		90 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0001)		
33 14 13 23-0016	EA	3/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	22.64	8.95
33 14 13 23-0017	EA	1", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	28.59	11.18
33 14 13 23-0018	EA	1-1/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	35.99	13.98
33 14 13 23-0019	EA	1-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	52.85	15.47
33 14 13 23-0020	EA	2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	57.32	17.34
33 14 13 23-0021	EA	2-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	67.67	19.67
33 14 13 23-0022	EA	3", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	75.57	21.95
33 14 13 23-0023	EA	4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	104.15	26.96
33 14 13 23-0024	EA	6", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	148.98	34.25
33 14 13 23-0025	EA	8", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	238.95	44.96
33 14 13 23-0026	EA	10", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	294.89	60.16
33 14 13 23-0027	EA	12", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	390.13	80.97
33 14 13 23-0028		45 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0001)		
33 14 13 23-0029	EA	3/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	23.02	8.95
33 14 13 23-0030	EA	1" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	28.86	11.18
33 14 13 23-0031	EA	1-1/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	36.15	13.98
33 14 13 23-0032	EA	1-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	47.88	15.47
33 14 13 23-0033	EA	2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	57.78	17.34
33 14 13 23-0034	EA	2-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	69.54	19.67
33 14 13 23-0035	EA	3" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	74.78	21.95
33 14 13 23-0036	EA	4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	102.44	26.96
33 14 13 23-0037	EA	6" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	145.53	34.25
33 14 13 23-0038	EA	8" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	232.37	44.96
33 14 13 23-0039	EA	10" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	267.64	60.16
33 14 13 23-0040	EA	12" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	352.42	80.97
33 14 13 23-0041		Tees Or Wyes, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0001)		
33 14 13 23-0042	EA	3/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	33.94	13.42
33 14 13 23-0043	EA	1" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	42.82	16.87
33 14 13 23-0044	EA	1-1/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	53.67	21.06
33 14 13 23-0045	EA	1-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	73.17	23.31
33 14 13 23-0046	EA	2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	83.15	25.91
33 14 13 23-0047	EA	2-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	96.65	29.55
33 14 13 23-0048	EA	3" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	115.48	32.84
33 14 13 23-0049	EA	4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	151.16	40.48
33 14 13 23-0050	EA	6" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	247.27	51.46
33 14 13 23-0051	EA	8" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	368.55	67.45
33 14 13 23-0052	EA	10" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	442.77	96.42
33 14 13 23-0053	EA	12" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	555.97	129.76
33 14 13 23-0054		Couplings, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0001)		
33 14 13 23-0055	EA	3/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	15.15	5.97
33 14 13 23-0056	EA	1" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	20.45	8.02
33 14 13 23-0057	EA	1-1/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	27.27	10.53
33 14 13 23-0058	EA	1-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	37.37	11.65
33 14 13 23-0059	EA	2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	41.24	12.96
33 14 13 23-0060	EA	2-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	46.91	14.73
33 14 13 23-0061	EA	3" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	53.60	16.42
33 14 13 23-0062	EA	4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	73.07	20.20
33 14 13 23-0063	EA	6" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	103.81	25.73
33 14 13 23-0064	EA	8" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	174.36	33.72
33 14 13 23-0065	EA	10" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	210.69	48.26
33 14 13 23-0066	EA	12" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	269.35	64.88
33 14 13 23-0067		Schedule 40 Polyvinyl Chloride (PVC) Pipe And Fittings (33 14 13 23)		
33 14 13 23-0068		Schedule 40 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0067)		
33 14 13 23-0069	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe..... <i>For >1,000, Deduct For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	2.30 -0.12 0.06	0.75
33 14 13 23-0070	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Pipe..... <i>For >1,000, Deduct For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	2.69 -0.13 0.10	0.80
33 14 13 23-0071	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe..... <i>For >1,000, Deduct For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	3.44 -0.17 0.15	0.97
33 14 13 23-0072	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Pipe..... <i>For >1,000, Deduct For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	4.09 -0.20 0.21	1.09

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0073 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	5.27	1.23
For >1,000, Deduct	-0.26	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.33	
33 14 13 23-0074 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Pipe	6.28	1.37
For >1,000, Deduct	-0.31	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.43	
33 14 13 23-0075 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Pipe	8.32	1.69
For >1,000, Deduct	-0.42	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.62	
33 14 13 23-0076 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Pipe	12.53	2.14
For >1,000, Deduct	-0.63	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.08	
33 14 13 23-0077 90 Degree Elbows, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0067)		
33 14 13 23-0078 EA 3/4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	22.78	8.95
33 14 13 23-0079 EA 1" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	28.67	11.18
33 14 13 23-0080 EA 1-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	39.87	15.47
33 14 13 23-0081 EA 2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	44.99	17.34
33 14 13 23-0082 EA 2-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	53.81	19.67
33 14 13 23-0083 EA 3" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	60.41	21.95
33 14 13 23-0084 EA 4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	78.78	26.96
33 14 13 23-0085 EA 6" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	121.81	34.25
33 14 13 23-0086 45 Degree Elbows, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0067)		
33 14 13 23-0087 EA 3/4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	22.75	8.95
33 14 13 23-0088 EA 1" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	28.64	11.18
33 14 13 23-0089 EA 1-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	39.88	15.47
33 14 13 23-0090 EA 2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	44.86	17.34
33 14 13 23-0091 EA 2-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	53.46	19.67
33 14 13 23-0092 EA 3" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	60.00	21.95
33 14 13 23-0093 EA 4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	77.94	26.96
33 14 13 23-0094 EA 6" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	119.14	34.25
33 14 13 23-0095 Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0067)		
33 14 13 23-0096 EA 3/4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	34.08	13.42
33 14 13 23-0097 EA 1" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	42.93	16.87
33 14 13 23-0098 EA 1-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	59.64	23.31
33 14 13 23-0099 EA 2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	67.02	25.91
33 14 13 23-0100 EA 2-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	80.92	29.55
33 14 13 23-0101 EA 3" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	92.33	32.84
33 14 13 23-0102 EA 4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	114.75	40.48
33 14 13 23-0103 EA 6" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	185.28	51.46
33 14 13 23-0104 Couplings, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0067)		
33 14 13 23-0105 EA 3/4" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	15.22	5.97
33 14 13 23-0106 EA 1" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	20.50	8.02
33 14 13 23-0107 EA 1-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	29.73	11.65
33 14 13 23-0108 EA 2" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	33.50	12.96
33 14 13 23-0109 EA 2-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	39.22	14.73
33 14 13 23-0110 EA 3" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	44.69	16.42
33 14 13 23-0111 EA 4" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	55.33	20.20
33 14 13 23-0112 EA 6" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	80.74	25.73
33 14 13 23-0113 Crosses, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0067)		
33 14 13 23-0114 EA 3/4" Cross, Schedule 40 Polyvinyl Chloride (PVC)	45.56	17.90
33 14 13 23-0115 EA 1" Cross, Schedule 40 Polyvinyl Chloride (PVC)	57.17	22.46
33 14 13 23-0116 EA 1-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	79.51	31.04
33 14 13 23-0117 EA 2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	89.36	34.59
33 14 13 23-0118 EA 2-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	107.85	39.34
33 14 13 23-0119 EA 3" Cross, Schedule 40 Polyvinyl Chloride (PVC)	123.05	43.82
33 14 13 23-0120 EA 4" Cross, Schedule 40 Polyvinyl Chloride (PVC)	152.92	53.92
33 14 13 23-0121 EA 6" Cross, Schedule 40 Polyvinyl Chloride (PVC)	246.71	68.59
33 14 13 23-0122 Schedule 80 Polyvinyl Chloride (PVC) Pipe And Fittings (33 14 13 23)		
33 14 13 23-0123 Schedule 80 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0122)		
33 14 13 23-0124 LF 1" Schedule 80 Polyvinyl Chloride (PVC) Pipe	2.90	0.80
For >1,000, Deduct	-0.15	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.13	
33 14 13 23-0125 LF 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	3.86	0.97
For >1,000, Deduct	-0.19	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.22	
33 14 13 23-0126 LF 2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	4.79	1.09
For >1,000, Deduct	-0.24	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0127 LF 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe <i>For >1,000, Deduct</i>	6.18 -0.31	1.23
33 14 13 23-0128 LF 3" Schedule 80 Polyvinyl Chloride (PVC) Pipe..... <i>For >1,000, Deduct</i>	7.56 -0.38	1.37
33 14 13 23-0129 LF 4" Schedule 80 Polyvinyl Chloride (PVC) Pipe..... <i>For >1,000, Deduct</i>	10.28 -0.51	1.69
33 14 13 23-0130 LF 6" Schedule 80 Polyvinyl Chloride (PVC) Pipe..... <i>For >1,000, Deduct</i>	16.90 -0.85	2.14
33 14 13 23-0131 90 Degree Elbows, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0122)		
33 14 13 23-0132 EA 1" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	29.76	11.18
33 14 13 23-0133 EA 1-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	39.87	15.47
33 14 13 23-0134 EA 2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	46.08	17.34
33 14 13 23-0135 EA 2-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	56.12	19.67
33 14 13 23-0136 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	62.56	21.95
33 14 13 23-0137 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	79.29	26.96
33 14 13 23-0138 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	119.36	34.25
33 14 13 23-0139 45 Degree Elbows, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0122)		
33 14 13 23-0140 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	34.22	11.18
33 14 13 23-0141 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	44.16	15.47
33 14 13 23-0142 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	50.20	17.34
33 14 13 23-0143 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	63.86	19.67
33 14 13 23-0144 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	72.64	21.95
33 14 13 23-0145 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	99.56	26.96
33 14 13 23-0146 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	118.01	34.25
33 14 13 23-0147 Tees Or Wyes, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0122)		
33 14 13 23-0148 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	45.21	16.87
33 14 13 23-0149 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	66.56	23.31
33 14 13 23-0150 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	75.27	25.91
33 14 13 23-0151 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	85.29	29.55
33 14 13 23-0152 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	96.51	32.84
33 14 13 23-0153 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	117.77	40.48
33 14 13 23-0154 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	185.17	51.46
33 14 13 23-0155 Couplings, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0122)		
33 14 13 23-0156 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	22.13	8.02
33 14 13 23-0157 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	32.53	11.65
33 14 13 23-0158 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	36.13	12.96
33 14 13 23-0159 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	45.98	14.73
33 14 13 23-0160 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	51.50	16.42
33 14 13 23-0161 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	63.62	20.20
33 14 13 23-0162 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	92.31	25.73
33 14 13 23-0163 Crosses, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0122)		
33 14 13 23-0164 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Cross	60.19	22.46
33 14 13 23-0165 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross	88.70	31.04
33 14 13 23-0166 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Cross	100.32	34.59
33 14 13 23-0167 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross	113.66	39.34
33 14 13 23-0168 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Cross	128.60	43.82
33 14 13 23-0169 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Cross	156.92	53.92
33 14 13 23-0170 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Cross	246.56	68.59
33 14 13 23-0171 AWWA C900/C905 Polyvinyl Chloride (PVC) Pipe (33 14 13 23)		
<i>Note: Includes hub on one end of pipe. C900 is available in blue, white, purple or green.</i>		
33 14 13 23-0172 AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0173 LF 4" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	8.68	3.29
33 14 13 23-0174 LF 6" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	12.26	3.98
33 14 13 23-0175 LF 8" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	16.36	4.48
33 14 13 23-0176 LF 10" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	21.13	4.98
33 14 13 23-0177 LF 12" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	26.95	5.58
33 14 13 23-0178 AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0179 LF 4" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	9.43	3.29
33 14 13 23-0180 LF 6" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	13.83	3.98
33 14 13 23-0181 LF 8" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	19.00	4.48
33 14 13 23-0182 LF 10" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	25.23	4.98
33 14 13 23-0183 LF 12" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	32.67	5.58



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 14 13 23-0184	AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe <small>(33 14 13 23-0171)</small>		
33 14 13 23-0185	LF 4" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	10.18	3.29
33 14 13 23-0186	LF 6" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	15.38	3.98
33 14 13 23-0187	LF 8" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	21.64	4.48
33 14 13 23-0188	LF 10" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	29.24	4.98
33 14 13 23-0189	LF 12" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	38.39	5.58

33 14 13 23-0190	AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe <small>(33 14 13 23-0171)</small>		
33 14 13 23-0191	LF 18" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	42.72	8.36
33 14 13 23-0192	LF 20" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	51.97	9.96
33 14 13 23-0193	LF 24" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	69.17	11.96
33 14 13 23-0194	LF 30" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	98.63	13.95
33 14 13 23-0195	LF 36" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	134.84	15.94
33 14 13 23-0196	LF 42" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	169.60	16.94
33 14 13 23-0197	LF 48" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	213.52	18.23

33 14 13 23-0198	AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe <small>(33 14 13 23-0171)</small>		
33 14 13 23-0199	LF 14" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	31.55	6.27
33 14 13 23-0200	LF 16" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	39.25	6.97
33 14 13 23-0201	LF 18" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	48.58	8.36
33 14 13 23-0202	LF 20" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	59.57	9.96
33 14 13 23-0203	LF 24" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	80.89	11.96
33 14 13 23-0204	LF 30" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	115.45	13.95
33 14 13 23-0205	LF 36" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	157.37	15.94
33 14 13 23-0206	LF 42" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	207.05	16.94
33 14 13 23-0207	LF 48" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	262.11	18.23

33 14 13 23-0208	AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe <small>(33 14 13 23-0171)</small>		
33 14 13 23-0209	LF 14" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	36.06	6.27
33 14 13 23-0210	LF 16" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	45.50	6.97
33 14 13 23-0211	LF 18" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	56.34	8.36
33 14 13 23-0212	LF 20" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	69.65	9.96
33 14 13 23-0213	LF 24" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	95.37	11.96
33 14 13 23-0214	LF 30" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	137.19	13.95
33 14 13 23-0215	LF 36" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	189.10	15.94
33 14 13 23-0216	LF 42" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	244.64	16.94
33 14 13 23-0217	LF 48" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	311.17	18.23

33 14 13 23-0218	AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe <small>(33 14 13 23-0171)</small>		
33 14 13 23-0219	LF 14" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	43.76	6.27
33 14 13 23-0220	LF 16" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	54.65	6.97
33 14 13 23-0221	LF 18" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	68.12	8.36
33 14 13 23-0222	LF 20" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	83.87	9.96
33 14 13 23-0223	LF 24" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	115.87	11.96
33 14 13 23-0224	LF 30" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	169.37	13.95
33 14 13 23-0225	LF 36" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	238.58	15.94
33 14 13 23-0226	LF 42" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	317.21	16.94
33 14 13 23-0227	LF 48" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	408.56	18.23

33 14 13 23-0228	AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe <small>(33 14 13 23-0171)</small>		
33 14 13 23-0229	LF 14" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	49.55	6.27
33 14 13 23-0230	LF 16" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	62.18	6.97
33 14 13 23-0231	LF 18" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	77.62	8.36
33 14 13 23-0232	LF 20" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	95.70	9.96
33 14 13 23-0233	LF 24" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	132.89	11.96
33 14 13 23-0234	LF 30" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	195.55	13.95
33 14 13 23-0235	LF 36" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	276.82	15.94
33 14 13 23-0236	LF 42" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	369.62	16.94

33 14 13 23-0237	AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe <small>(33 14 13 23-0171)</small>		
33 14 13 23-0238	LF 14" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	55.19	6.27
33 14 13 23-0239	LF 16" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	69.50	6.97
33 14 13 23-0240	LF 18" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	86.85	8.36
33 14 13 23-0241	LF 20" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	107.21	9.96
33 14 13 23-0242	LF 24" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	149.44	11.96
33 14 13 23-0243	LF 30" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	221.02	13.95
33 14 13 23-0244	LF 36" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	314.03	15.94

33 14 13 23-0245	AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) Fittings <small>(33 14 13 23)</small>		
Note: Includes rubber gaskets.			



	Utilities 33	
	Water Utilities 33 10	33
	Water Utility Transmission and Distribution 33 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14	13 23-0246		90 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0245)		
		EA	4" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	123.68	11.18
			For DR 25, Deduct	-6.08	
		EA	6" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	246.32	12.58
			For DR 25, Deduct	-13.27	
		EA	8" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	366.71	13.98
			For DR 25, Deduct	-20.32	
		EA	10" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	561.23	22.53
			For DR 25, Deduct	-30.97	
		EA	12" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	736.00	37.56
			For DR 25, Deduct	-39.66	
		EA	14" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,098.82	46.95
			For DR 25, Deduct	-60.30	
		EA	16" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,311.53	56.33
			For DR 25, Deduct	-71.93	
		EA	18" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,235.71	75.12
			For DR 25, Deduct	-125.13	
		EA	20" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,753.22	93.89
			For DR 25, Deduct	-153.93	
		EA	24" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,550.31	126.75
			For DR 25, Deduct	-257.81	
33 14	13 23-0257		45 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0245)		
		EA	4" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	110.45	11.18
			For DR 25, Deduct	-5.29	
		EA	6" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	186.32	12.58
			For DR 25, Deduct	-9.67	
		EA	8" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	234.80	13.98
			For DR 25, Deduct	-12.41	
		EA	10" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	334.38	22.53
			For DR 25, Deduct	-17.36	
		EA	12" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	452.17	37.56
			For DR 25, Deduct	-22.62	
		EA	14" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	851.93	46.95
			For DR 25, Deduct	-45.48	
		EA	16" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,077.62	56.33
			For DR 25, Deduct	-57.90	
		EA	18" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,844.63	75.12
			For DR 25, Deduct	-101.66	
		EA	20" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,291.54	93.89
			For DR 25, Deduct	-126.23	
		EA	24" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,229.86	126.75
			For DR 25, Deduct	-178.58	
33 14	13 23-0268		22-1/2 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0245)		
		EA	4" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	108.85	11.18
			For DR 25, Deduct	-5.19	
		EA	6" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	186.33	12.58
			For DR 25, Deduct	-9.67	
		EA	8" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	234.80	13.98
			For DR 25, Deduct	-12.41	
		EA	10" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	334.39	22.53
			For DR 25, Deduct	-17.36	
		EA	12" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	452.18	37.56
			For DR 25, Deduct	-22.62	
		EA	14" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	848.16	45.07
			For DR 25, Deduct	-45.48	
		EA	16" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,077.60	56.33
			For DR 25, Deduct	-57.90	
		EA	18" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,844.63	75.12
			For DR 25, Deduct	-101.66	
		EA	20" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,291.54	93.89
			For DR 25, Deduct	-126.23	
		EA	24" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,229.86	126.75
			For DR 25, Deduct	-178.58	
33 14	13 23-0279		11-1/4 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0245)		
		EA	4" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	97.00	11.18
			For DR 25, Deduct	-4.48	
		EA	6" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	186.33	12.58
			For DR 25, Deduct	-9.67	
		EA	8" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	234.80	13.98
			For DR 25, Deduct	-12.41	

33 Utilities
33 10 Water Utilities
33 14 Water Utility Transmission and Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0283 EA 10" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	334.39	22.53
<i>For DR 25, Deduct</i>	-17.36	
33 14 13 23-0284 EA 12" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	452.18	37.56
<i>For DR 25, Deduct</i>	-22.62	
33 14 13 23-0285 EA 14" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	848.16	45.07
<i>For DR 25, Deduct</i>	-45.48	
33 14 13 23-0286 EA 16" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,077.60	56.33
<i>For DR 25, Deduct</i>	-57.90	
33 14 13 23-0287 EA 18" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,844.63	75.12
<i>For DR 25, Deduct</i>	-101.66	
33 14 13 23-0288 EA 20" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,291.54	93.89
<i>For DR 25, Deduct</i>	-126.23	
33 14 13 23-0289 EA 24" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,229.86	126.75
<i>For DR 25, Deduct</i>	-178.58	
33 14 13 23-0290 Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)		
<i>(33 14 13 23-0245)</i>		
33 14 13 23-0291 EA 4" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	146.52	12.58
<i>For DR 25, Deduct</i>	-7.28	
33 14 13 23-0292 EA 6" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	276.05	13.98
<i>For DR 25, Deduct</i>	-14.89	
33 14 13 23-0293 EA 8" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	382.76	15.85
<i>For DR 25, Deduct</i>	-21.06	
33 14 13 23-0294 EA 10" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	786.71	28.17
<i>For DR 25, Deduct</i>	-43.82	
33 14 13 23-0295 EA 12" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	975.36	56.33
<i>For DR 25, Deduct</i>	-51.76	
33 14 13 23-0296 EA 14" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,739.92	70.42
<i>For DR 25, Deduct</i>	-95.95	
33 14 13 23-0297 EA 16" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,153.22	84.50
<i>For DR 25, Deduct</i>	-119.05	
33 14 13 23-0298 EA 18" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,721.01	112.67
<i>For DR 25, Deduct</i>	-149.74	
33 14 13 23-0299 EA 20" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,271.41	140.84
<i>For DR 25, Deduct</i>	-179.38	
33 14 13 23-0300 EA 24" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,421.01	95.77
<i>For DR 25, Deduct</i>	-253.77	
33 14 13 23-0301 Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)		
<i>(33 14 13 23-0245)</i>		
33 14 13 23-0302 EA 6" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	277.73	18.18
<i>For DR 25, Deduct</i>	-14.48	
33 14 13 23-0303 EA 8" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	374.32	19.57
<i>For DR 25, Deduct</i>	-20.11	
33 14 13 23-0304 EA 8" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	383.83	20.27
<i>For DR 25, Deduct</i>	-20.60	
33 14 13 23-0305 EA 10" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	421.74	28.17
<i>For DR 25, Deduct</i>	-21.92	
33 14 13 23-0306 EA 10" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	670.58	28.87
<i>For DR 25, Deduct</i>	-36.77	
33 14 13 23-0307 EA 10" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	716.47	29.57
<i>For DR 25, Deduct</i>	-39.44	
33 14 13 23-0308 EA 12" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	767.75	43.19
<i>For DR 25, Deduct</i>	-40.88	
33 14 13 23-0309 EA 12" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	877.38	43.89
<i>For DR 25, Deduct</i>	-47.38	
33 14 13 23-0310 EA 12" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	929.44	44.60
<i>For DR 25, Deduct</i>	-50.42	
33 14 13 23-0311 EA 12" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	949.30	48.82
<i>For DR 25, Deduct</i>	-51.10	
33 14 13 23-0312 EA 14" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,425.50	50.70
<i>For DR 25, Deduct</i>	-79.45	
33 14 13 23-0313 EA 14" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,481.92	51.40
<i>For DR 25, Deduct</i>	-82.75	
33 14 13 23-0314 EA 14" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,538.47	52.11
<i>For DR 25, Deduct</i>	-86.06	
33 14 13 23-0315 EA 14" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,601.75	56.33
<i>For DR 25, Deduct</i>	-89.34	
33 14 13 23-0316 EA 14" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,671.81	63.84
<i>For DR 25, Deduct</i>	-92.65	
33 14 13 23-0317 EA 16" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,778.08	61.96
<i>For DR 25, Deduct</i>	-99.25	
33 14 13 23-0318 EA 16" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,833.07	61.96
<i>For DR 25, Deduct</i>	-102.55	
33 14 13 23-0319 EA 16" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,889.49	62.68
<i>For DR 25, Deduct</i>	-105.85	
33 14 13 23-0320 EA 16" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,945.91	63.38
<i>For DR 25, Deduct</i>	-109.15	
33 14 13 23-0321 EA 16" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,024.37	75.12
<i>For DR 25, Deduct</i>	-112.45	
33 14 13 23-0322 EA 16" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,086.89	78.87
<i>For DR 25, Deduct</i>	-115.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0323 EA 18" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,200.28	80.75
For DR 25, Deduct	-122.33	
33 14 13 23-0324 EA 18" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,257.09	81.45
For DR 25, Deduct	-125.65	
33 14 13 23-0325 EA 18" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,313.50	82.16
For DR 25, Deduct	-128.95	
33 14 13 23-0326 EA 18" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,376.96	86.38
For DR 25, Deduct	-132.25	
33 14 13 23-0327 EA 18" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,446.96	93.89
For DR 25, Deduct	-135.55	
33 14 13 23-0328 EA 18" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,509.10	97.65
For DR 25, Deduct	-138.83	
33 14 13 23-0329 EA 18" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,588.68	103.28
For DR 25, Deduct	-142.93	
33 14 13 23-0330 EA 20" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,788.65	99.52
For DR 25, Deduct	-155.38	
33 14 13 23-0331 EA 20" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,883.99	100.23
For DR 25, Deduct	-161.01	
33 14 13 23-0332 EA 20" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,921.81	100.93
For DR 25, Deduct	-163.20	
33 14 13 23-0333 EA 20" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,966.72	105.16
For DR 25, Deduct	-165.38	
33 14 13 23-0334 EA 20" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,018.17	112.67
For DR 25, Deduct	-167.57	
33 14 13 23-0335 EA 20" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,084.73	116.43
For DR 25, Deduct	-171.11	
33 14 13 23-0336 EA 20" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,155.07	122.06
For DR 25, Deduct	-174.66	
33 14 13 23-0337 EA 20" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,213.24	131.45
For DR 25, Deduct	-177.02	
33 14 13 23-0338 EA 24" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,293.90	132.38
For DR 25, Deduct	-181.75	
33 14 13 23-0339 EA 24" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,334.71	133.09
For DR 25, Deduct	-184.11	
33 14 13 23-0340 EA 24" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,375.52	133.79
For DR 25, Deduct	-186.48	
33 14 13 23-0341 EA 24" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,544.19	138.02
For DR 25, Deduct	-196.09	
33 14 13 23-0342 EA 24" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,719.42	145.54
For DR 25, Deduct	-205.70	
33 14 13 23-0343 EA 24" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,887.15	149.29
For DR 25, Deduct	-215.31	
33 14 13 23-0344 EA 24" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,058.64	154.92
For DR 25, Deduct	-224.93	
33 14 13 23-0345 EA 24" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,237.65	164.31
For DR 25, Deduct	-234.54	
33 14 13 23-0346 EA 24" x 20" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,416.63	173.70
For DR 25, Deduct	-244.15	
33 14 13 23-0347 Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0245)		
33 14 13 23-0348 EA 4" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	206.55	22.37
For DR 25, Deduct	-9.71	
33 14 13 23-0349 EA 6" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	360.87	25.17
For DR 25, Deduct	-18.63	
33 14 13 23-0350 EA 8" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	494.98	27.96
For DR 25, Deduct	-26.34	
33 14 13 23-0351 EA 10" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,002.72	45.07
For DR 25, Deduct	-54.75	
33 14 13 23-0352 EA 12" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,191.26	56.33
For DR 25, Deduct	-64.72	
33 14 13 23-0353 EA 14" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,149.21	75.12
For DR 25, Deduct	-119.94	
33 14 13 23-0354 EA 16" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,667.58	93.89
For DR 25, Deduct	-148.80	
33 14 13 23-0355 EA 18" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,420.51	150.22
For DR 25, Deduct	-187.20	
33 14 13 23-0356 EA 20" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,112.79	187.78
For DR 25, Deduct	-224.23	
33 14 13 23-0357 EA 24" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,793.53	253.50
For DR 25, Deduct	-317.19	
33 14 13 23-0358 Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0245)		
33 14 13 23-0359 EA 6" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	349.50	23.77
For DR 25, Deduct	-18.12	
33 14 13 23-0360 EA 8" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	469.81	25.17
For DR 25, Deduct	-25.17	
33 14 13 23-0361 EA 8" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	482.32	26.56
For DR 25, Deduct	-25.75	
33 14 13 23-0362 EA 10" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	719.93	33.80
For DR 25, Deduct	-39.14	

33 Utilities

33 10 Water Utilities

33 14 Water Utility Transmission and Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0363 EA 10" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	836.57	35.21
For DR 25, Deduct	-45.97	
33 14 13 23-0364 EA 10" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	917.58	36.61
For DR 25, Deduct	-50.66	
33 14 13 23-0365 EA 12" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	949.64	48.82
For DR 25, Deduct	-51.12	
33 14 13 23-0366 EA 12" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,087.42	50.23
For DR 25, Deduct	-59.22	
33 14 13 23-0367 EA 12" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,153.56	51.64
For DR 25, Deduct	-63.02	
33 14 13 23-0368 EA 12" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,184.66	60.09
For DR 25, Deduct	-63.87	
33 14 13 23-0369 EA 14" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,767.79	56.33
For DR 25, Deduct	-99.31	
33 14 13 23-0370 EA 14" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,839.16	57.74
For DR 25, Deduct	-103.42	
33 14 13 23-0371 EA 14" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,911.29	59.15
For DR 25, Deduct	-107.58	
33 14 13 23-0372 EA 14" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,997.20	67.60
For DR 25, Deduct	-111.72	
33 14 13 23-0373 EA 14" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,095.75	82.63
For DR 25, Deduct	-115.83	
33 14 13 23-0374 EA 16" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,202.54	67.60
For DR 25, Deduct	-124.04	
33 14 13 23-0375 EA 16" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,274.85	69.01
For DR 25, Deduct	-128.21	
33 14 13 23-0376 EA 16" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,346.38	70.42
For DR 25, Deduct	-132.33	
33 14 13 23-0377 EA 16" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,432.23	78.87
For DR 25, Deduct	-136.47	
33 14 13 23-0378 EA 16" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,481.81	93.89
For DR 25, Deduct	-137.64	
33 14 13 23-0379 EA 16" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,614.46	101.40
For DR 25, Deduct	-144.70	
33 14 13 23-0380 EA 18" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,721.59	86.38
For DR 25, Deduct	-152.93	
33 14 13 23-0381 EA 18" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,793.71	87.79
For DR 25, Deduct	-157.09	
33 14 13 23-0382 EA 18" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,865.37	89.19
For DR 25, Deduct	-161.22	
33 14 13 23-0383 EA 18" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,950.19	97.65
For DR 25, Deduct	-165.29	
33 14 13 23-0384 EA 18" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,049.56	112.67
For DR 25, Deduct	-169.45	
33 14 13 23-0385 EA 18" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,133.09	120.19
For DR 25, Deduct	-173.56	
33 14 13 23-0386 EA 18" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,240.87	131.45
For DR 25, Deduct	-178.68	
33 14 13 23-0387 EA 20" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,447.65	105.16
For DR 25, Deduct	-194.24	
33 14 13 23-0388 EA 20" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,567.67	106.57
For DR 25, Deduct	-201.27	
33 14 13 23-0389 EA 20" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,616.35	107.98
For DR 25, Deduct	-204.02	
33 14 13 23-0390 EA 20" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,678.61	116.43
For DR 25, Deduct	-206.75	
33 14 13 23-0391 EA 20" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,754.04	131.45
For DR 25, Deduct	-209.47	
33 14 13 23-0392 EA 20" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,842.37	138.96
For DR 25, Deduct	-213.87	
33 14 13 23-0393 EA 20" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,939.68	150.22
For DR 25, Deduct	-218.35	
33 14 13 23-0394 EA 20" x 18" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,026.34	169.01
For DR 25, Deduct	-221.30	
33 14 13 23-0395 EA 24" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,040.58	138.02
For DR 25, Deduct	-225.87	
33 14 13 23-0396 EA 24" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,114.76	139.43
For DR 25, Deduct	-230.15	
33 14 13 23-0397 EA 24" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,167.03	140.84
For DR 25, Deduct	-233.12	
33 14 13 23-0398 EA 24" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,383.97	149.29
For DR 25, Deduct	-245.12	
33 14 13 23-0399 EA 24" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,614.13	164.31
For DR 25, Deduct	-257.13	
33 14 13 23-0400 EA 24" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,829.23	171.82
For DR 25, Deduct	-269.14	
33 14 13 23-0401 EA 24" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,052.70	183.08
For DR 25, Deduct	-281.19	
33 14 13 23-0402 EA 24" x 18" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,289.90	201.87
For DR 25, Deduct	-293.17	
33 14 13 23-0403 EA 24" x 20" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,527.96	220.64
For DR 25, Deduct	-305.20	



Utilities	33	CS
Water Utilities	33 10	
Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 14 13 23-0404	Couplings, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0245)</small>		
33 14 13 23-0405	EA 4" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	76.93	11.18
	<i>For DR 25, Deduct</i>	-3.27	
33 14 13 23-0406	EA 6" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	137.79	12.58
	<i>For DR 25, Deduct</i>	-6.76	
33 14 13 23-0407	EA 8" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	165.07	13.98
	<i>For DR 25, Deduct</i>	-8.23	
33 14 13 23-0408	EA 10" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	236.85	22.53
	<i>For DR 25, Deduct</i>	-11.51	
33 14 13 23-0409	EA 12" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	371.46	28.17
	<i>For DR 25, Deduct</i>	-18.91	
33 14 13 23-0410	EA 14" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	636.65	37.56
	<i>For DR 25, Deduct</i>	-33.69	
33 14 13 23-0411	EA 16" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	755.88	46.95
	<i>For DR 25, Deduct</i>	-39.72	
33 14 13 23-0412	EA 18" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,783.77	75.12
	<i>For DR 25, Deduct</i>	-98.01	
33 14 13 23-0413	EA 20" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,006.43	93.89
	<i>For DR 25, Deduct</i>	-109.12	
33 14 13 23-0414	EA 24" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,821.33	126.75
	<i>For DR 25, Deduct</i>	-154.07	

33 14 13 23-0415	Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0245)</small>		
33 14 13 23-0416	EA 4" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	93.55	11.18
	<i>For DR 25, Deduct</i>	-4.27	
33 14 13 23-0417	EA 6" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	125.32	12.58
	<i>For DR 25, Deduct</i>	-6.01	
33 14 13 23-0418	EA 8" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	179.26	13.98
	<i>For DR 25, Deduct</i>	-9.08	
33 14 13 23-0419	EA 10" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	247.93	22.53
	<i>For DR 25, Deduct</i>	-12.17	
33 14 13 23-0420	EA 12" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	398.31	37.56
	<i>For DR 25, Deduct</i>	-19.39	
33 14 13 23-0421	EA 14" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,019.50	45.07
	<i>For DR 25, Deduct</i>	-55.76	
33 14 13 23-0422	EA 16" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,376.83	56.33
	<i>For DR 25, Deduct</i>	-75.85	
33 14 13 23-0423	EA 18" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,700.38	75.12
	<i>For DR 25, Deduct</i>	-93.01	
33 14 13 23-0424	EA 20" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,034.36	93.89
	<i>For DR 25, Deduct</i>	-110.79	
33 14 13 23-0425	EA 24" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,763.06	126.75
	<i>For DR 25, Deduct</i>	-150.57	

33 14 13 23-0426	AWWA C906, High Density Polyethylene (HDPE) Pressure Piping <small>(33 14 13 23)</small>		
	Note: ASTM D3350 pipe, ASTM D2657 heat fusion.		

33 14 13 23-0427	High Density Polyethylene (HDPE) Pressure Pipe <small>(33 14 13 23-0426)</small>		
33 14 13 23-0428	LF 3" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe.....	6.61	2.59
	<i>For SDR 19, Add</i>	0.12	
	<i>For SDR 17, Add</i>	0.31	
	<i>For SDR 15.5, Add</i>	0.45	
	<i>For SDR 13.5, Add</i>	0.70	
	<i>For SDR 11, Add</i>	1.13	
33 14 13 23-0429	LF 4" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe.....	9.42	3.29
	<i>For SDR 26, Deduct</i>	-0.52	
	<i>For SDR 19, Add</i>	0.26	
	<i>For SDR 17, Add</i>	0.63	
	<i>For SDR 15.5, Add</i>	0.93	
	<i>For SDR 13.5, Add</i>	1.45	
	<i>For SDR 11, Add</i>	2.33	
33 14 13 23-0430	LF 6" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe.....	14.13	3.98
	<i>For SDR 26, Deduct</i>	-1.13	
	<i>For SDR 19, Add</i>	0.55	
	<i>For SDR 17, Add</i>	1.37	
	<i>For SDR 15.5, Add</i>	2.00	
	<i>For SDR 13.5, Add</i>	3.13	
	<i>For SDR 11, Add</i>	5.04	
33 14 13 23-0431	LF 8" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe.....	19.42	4.48
	<i>For SDR 26, Deduct</i>	-1.92	
	<i>For SDR 19, Add</i>	0.94	
	<i>For SDR 17, Add</i>	2.32	
	<i>For SDR 15.5, Add</i>	3.40	
	<i>For SDR 13.5, Add</i>	5.31	
	<i>For SDR 11, Add</i>	8.55	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0432 LF 10" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe.....	26.22	4.98
For SDR 26, Deduct	-2.98	
For SDR 19, Add	1.46	
For SDR 17, Add	3.61	
For SDR 15.5, Add	5.29	
For SDR 13.5, Add	8.26	
For SDR 11, Add	13.29	
33 14 13 23-0433 LF 12" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe.....	34.50	55.79
For SDR 26, Deduct	-4.30	
For SDR 19, Add	2.11	
For SDR 17, Add	5.21	
For SDR 15.5, Add	7.63	
For SDR 13.5, Add	11.91	
For SDR 11, Add	19.16	
33 14 13 23-0434 LF 14" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe.....	40.01	6.27
For SDR 26, Deduct	-5.05	
For SDR 19, Add	2.48	
For SDR 17, Add	6.12	
For SDR 15.5, Add	8.96	
For SDR 13.5, Add	13.99	
For SDR 11, Add	22.52	
33 14 13 23-0435 LF 16" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe.....	49.95	6.97
For SDR 26, Deduct	-6.60	
For SDR 19, Add	3.24	
For SDR 17, Add	8.00	
For SDR 15.5, Add	11.71	
For SDR 13.5, Add	18.28	
For SDR 11, Add	29.43	
33 14 13 23-0436 LF 18" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe.....	62.28	8.36
For SDR 26, Deduct	-8.34	
For SDR 19, Add	4.09	
For SDR 17, Add	10.11	
For SDR 15.5, Add	14.80	
For SDR 13.5, Add	23.10	
For SDR 11, Add	37.19	
33 14 13 23-0437 LF 20" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe.....	64.40	9.96
For SDR 26, Deduct	-8.15	
For SDR 19, Add	4.00	
For SDR 17, Add	9.88	
For SDR 15.5, Add	14.47	
For SDR 13.5, Add	22.59	
For SDR 11, Add	36.36	
33 14 13 23-0438 LF 24" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe.....	104.86	11.96
For SDR 26, Deduct	-14.84	
For SDR 19, Add	7.29	
For SDR 17, Add	17.99	
For SDR 15.5, Add	26.34	
For SDR 13.5, Add	41.11	
For SDR 11, Add	66.18	
33 14 13 23-0439 90 Degree Elbows, High Density Polyethylene (HDPE) Pressure Piping <small>(33 14</small>		
<small>13 23-0426)</small>		
33 14 13 23-0440 EA 3" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	57.51	13.98
For SDR 26, Deduct	-2.85	
For SDR 19, Add	1.40	
For SDR 17, Add	3.46	
For SDR 15.5, Add	5.07	
For SDR 13.5, Add	7.91	
For SDR 11, Add	12.73	
33 14 13 23-0441 EA 4" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	65.16	15.54
For SDR 26, Deduct	-3.40	
For SDR 19, Add	1.67	
For SDR 17, Add	4.12	
For SDR 15.5, Add	6.04	
For SDR 13.5, Add	9.42	
For SDR 11, Add	15.16	
33 14 13 23-0442 EA 6" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	102.59	17.76
For SDR 26, Deduct	-9.05	
For SDR 19, Add	4.44	
For SDR 17, Add	10.97	
For SDR 15.5, Add	16.06	
For SDR 13.5, Add	25.06	
For SDR 11, Add	40.34	
33 14 13 23-0443 EA 8" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	165.32	20.73
For SDR 26, Deduct	-18.91	
For SDR 19, Add	9.28	
For SDR 17, Add	22.92	
For SDR 15.5, Add	33.57	
For SDR 13.5, Add	52.39	
For SDR 11, Add	84.33	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0444 EA 10" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	255.03	27.69
For SDR 26, Deduct	-31.56	
For SDR 19, Add	15.49	
For SDR 17, Add	38.25	
For SDR 15.5, Add	56.02	
For SDR 13.5, Add	87.44	
For SDR 11, Add	140.74	
33 14 13 23-0445 EA 12" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	376.36	41.44
For SDR 26, Deduct	-46.21	
For SDR 19, Add	22.69	
For SDR 17, Add	56.02	
For SDR 15.5, Add	82.04	
For SDR 13.5, Add	128.05	
For SDR 11, Add	206.10	
33 14 13 23-0446 EA 14" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	466.36	55.30
For SDR 26, Deduct	-55.09	
For SDR 19, Add	27.05	
For SDR 17, Add	66.78	
For SDR 15.5, Add	97.80	
For SDR 13.5, Add	152.65	
For SDR 11, Add	245.70	
33 14 13 23-0447 EA 16" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	608.41	82.87
For SDR 26, Deduct	-65.97	
For SDR 19, Add	32.39	
For SDR 17, Add	79.97	
For SDR 15.5, Add	117.11	
For SDR 13.5, Add	182.80	
For SDR 11, Add	294.23	
33 14 13 23-0448 EA 18" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	769.45	93.22
For SDR 26, Deduct	-89.78	
For SDR 19, Add	44.08	
For SDR 17, Add	108.83	
For SDR 15.5, Add	159.37	
For SDR 13.5, Add	248.76	
For SDR 11, Add	400.40	
33 14 13 23-0449 EA 20" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	1,057.17	105.80
For SDR 26, Deduct	-135.00	
For SDR 19, Add	66.29	
For SDR 17, Add	163.65	
For SDR 15.5, Add	239.66	
For SDR 13.5, Add	374.08	
For SDR 11, Add	602.11	
33 14 13 23-0450 EA 24" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	1,356.14	124.35
For SDR 26, Deduct	-180.23	
For SDR 19, Add	88.49	
For SDR 17, Add	218.48	
For SDR 15.5, Add	319.96	
For SDR 13.5, Add	499.40	
For SDR 11, Add	803.82	
33 14 13 23-0451 Tees, High Density Polyethylene (HDPE) Pressure Piping <small>(33 14 13 23-0426)</small>		
33 14 13 23-0452 EA 3" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	64.17	14.63
For SDR 26, Deduct	-3.73	
For SDR 19, Add	1.83	
For SDR 17, Add	4.52	
For SDR 15.5, Add	6.63	
For SDR 13.5, Add	10.34	
For SDR 11, Add	16.64	
33 14 13 23-0453 EA 4" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	73.66	16.58
For SDR 26, Deduct	-4.39	
For SDR 19, Add	2.16	
For SDR 17, Add	5.33	
For SDR 15.5, Add	7.80	
For SDR 13.5, Add	12.17	
For SDR 11, Add	19.60	
33 14 13 23-0454 EA 6" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	120.00	19.13
For SDR 26, Deduct	-11.49	
For SDR 19, Add	5.64	
For SDR 17, Add	13.92	
For SDR 15.5, Add	20.39	
For SDR 13.5, Add	31.83	
For SDR 11, Add	51.22	
33 14 13 23-0455 EA 8" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	226.73	22.61
For SDR 26, Deduct	-29.14	
For SDR 19, Add	14.31	
For SDR 17, Add	35.32	
For SDR 15.5, Add	51.73	
For SDR 13.5, Add	80.74	
For SDR 11, Add	129.95	
33 14 13 23-0456 EA 10" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	308.87	33.19
For SDR 26, Deduct	-38.39	
For SDR 19, Add	18.85	
For SDR 17, Add	46.53	
For SDR 15.5, Add	68.15	
For SDR 13.5, Add	106.36	
For SDR 11, Add	171.20	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0457	EA		12" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	435.13	49.78
			<i>For SDR 26, Deduct</i>	-52.41	
			<i>For SDR 19, Add</i>	25.74	
			<i>For SDR 17, Add</i>	63.54	
			<i>For SDR 15.5, Add</i>	93.05	
			<i>For SDR 13.5, Add</i>	145.23	
			<i>For SDR 11, Add</i>	233.76	
33 14 13 23-0458	EA		14" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	522.84	62.18
			<i>For SDR 26, Deduct</i>	-61.66	
			<i>For SDR 19, Add</i>	30.28	
			<i>For SDR 17, Add</i>	74.75	
			<i>For SDR 15.5, Add</i>	109.47	
			<i>For SDR 13.5, Add</i>	170.86	
			<i>For SDR 11, Add</i>	275.02	
33 14 13 23-0459	EA		16" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	679.27	93.22
			<i>For SDR 26, Deduct</i>	-73.23	
			<i>For SDR 19, Add</i>	35.95	
			<i>For SDR 17, Add</i>	88.77	
			<i>For SDR 15.5, Add</i>	129.99	
			<i>For SDR 13.5, Add</i>	202.90	
			<i>For SDR 11, Add</i>	326.58	
33 14 13 23-0460	EA		18" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	880.81	108.59
			<i>For SDR 26, Deduct</i>	-101.75	
			<i>For SDR 19, Add</i>	49.96	
			<i>For SDR 17, Add</i>	123.34	
			<i>For SDR 15.5, Add</i>	180.62	
			<i>For SDR 13.5, Add</i>	281.93	
			<i>For SDR 11, Add</i>	453.78	
33 14 13 23-0461	EA		20" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	1,244.87	128.27
			<i>For SDR 26, Deduct</i>	-156.86	
			<i>For SDR 19, Add</i>	77.02	
			<i>For SDR 17, Add</i>	190.15	
			<i>For SDR 15.5, Add</i>	278.46	
			<i>For SDR 13.5, Add</i>	434.64	
			<i>For SDR 11, Add</i>	699.58	
33 14 13 23-0462	EA		24" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	1,622.51	155.49
			<i>For SDR 26, Deduct</i>	-211.97	
			<i>For SDR 19, Add</i>	104.08	
			<i>For SDR 17, Add</i>	256.96	
			<i>For SDR 15.5, Add</i>	376.30	
			<i>For SDR 13.5, Add</i>	587.35	
			<i>For SDR 11, Add</i>	945.37	

33 14 13 26 Galvanized Steel Public Water Utility Distribution Piping (33 14 13)
See CSI section 22 11 16 00-0013 for galvanized steel pipe.

33 14 13 36 Steel Public Water Utility Distribution Piping (33 14 13)

33 14 13 36-0001 Steel Piping (33 14 13 36)

33 14 13 36-0002 Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0001)

Note: ASTM A252 steel pipe.

33 14 13 36-0003 Up To 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0002)

33 14 13 36-0004	LF		8" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	104.38	24.80
			<i>For <100, Add</i>	10.86	
			<i>For >1,000, Deduct</i>	-5.22	
33 14 13 36-0005	LF		8" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	125.65	24.80
			<i>For <100, Add</i>	11.92	
			<i>For >1,000, Deduct</i>	-6.28	
33 14 13 36-0006	LF		10" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	124.65	27.05
			<i>For <100, Add</i>	12.38	
			<i>For >1,000, Deduct</i>	-6.23	
33 14 13 36-0007	LF		10" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	151.54	27.05
			<i>For <100, Add</i>	13.73	
			<i>For >1,000, Deduct</i>	-7.58	
33 14 13 36-0008	LF		12" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	151.68	28.35
			<i>For <100, Add</i>	14.03	
			<i>For >1,000, Deduct</i>	-7.58	
33 14 13 36-0009	LF		12" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	172.60	28.35
			<i>For <100, Add</i>	15.07	
			<i>For >1,000, Deduct</i>	-8.63	
33 14 13 36-0010	LF		14" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	184.32	31.33
			<i>For <100, Add</i>	16.34	
			<i>For >1,000, Deduct</i>	-9.22	
33 14 13 36-0011	LF		14" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	201.03	31.33
			<i>For <100, Add</i>	17.17	
			<i>For >1,000, Deduct</i>	-10.05	
33 14 13 36-0012	LF		16" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	195.66	33.07
			<i>For <100, Add</i>	17.30	
			<i>For >1,000, Deduct</i>	-9.78	
33 14 13 36-0013	LF		16" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	208.57	33.07
			<i>For <100, Add</i>	17.95	
			<i>For >1,000, Deduct</i>	-10.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0014 LF 18" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	243.14	37.20
<i>For <100, Add</i>	<i>20.61</i>	
<i>For >1,000, Deduct</i>	<i>-12.16</i>	
33 14 13 36-0015 LF 20" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	264.29	37.20
<i>For <100, Add</i>	<i>21.67</i>	
<i>For >1,000, Deduct</i>	<i>-13.21</i>	
33 14 13 36-0016 5/16" To 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Piping <small>(33 14 13 36-0002)</small>		
33 14 13 36-0017 LF 12" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	210.63	49.13
<i>For <100, Add</i>	<i>18.25</i>	
<i>For >1,000, Deduct</i>	<i>-10.53</i>	
33 14 13 36-0018 LF 14" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	250.47	54.04
<i>For <100, Add</i>	<i>21.06</i>	
<i>For >1,000, Deduct</i>	<i>-12.52</i>	
33 14 13 36-0019 LF 16" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	278.60	56.49
<i>For <100, Add</i>	<i>22.94</i>	
<i>For >1,000, Deduct</i>	<i>-13.93</i>	
33 14 13 36-0020 LF 18" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	314.31	63.86
<i>For <100, Add</i>	<i>25.85</i>	
<i>For >1,000, Deduct</i>	<i>-15.72</i>	
33 14 13 36-0021 LF 18" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	328.65	63.86
<i>For <100, Add</i>	<i>26.56</i>	
<i>For >1,000, Deduct</i>	<i>-16.43</i>	
33 14 13 36-0022 LF 20" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	341.91	63.86
<i>For <100, Add</i>	<i>27.23</i>	
<i>For >1,000, Deduct</i>	<i>-17.10</i>	
33 14 13 36-0023 LF 20" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	357.21	63.86
<i>For <100, Add</i>	<i>27.99</i>	
<i>For >1,000, Deduct</i>	<i>-17.86</i>	
33 14 13 36-0024 LF 24" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	414.18	73.68
<i>For <100, Add</i>	<i>32.29</i>	
<i>For >1,000, Deduct</i>	<i>-20.71</i>	
33 14 13 36-0025 LF 24" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	461.50	73.68
<i>For <100, Add</i>	<i>34.65</i>	
<i>For >1,000, Deduct</i>	<i>-23.08</i>	
33 14 13 36-0026 LF 24" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	577.65	73.68
<i>For <100, Add</i>	<i>40.46</i>	
<i>For >1,000, Deduct</i>	<i>-28.88</i>	
33 14 13 36-0027 LF 30" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	515.48	85.96
<i>For <100, Add</i>	<i>39.28</i>	
<i>For >1,000, Deduct</i>	<i>-25.77</i>	
33 14 13 36-0028 LF 30" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	534.84	85.96
<i>For <100, Add</i>	<i>40.25</i>	
<i>For >1,000, Deduct</i>	<i>-26.74</i>	
33 14 13 36-0029 LF 30" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	717.43	85.96
<i>For <100, Add</i>	<i>49.38</i>	
<i>For >1,000, Deduct</i>	<i>-35.87</i>	
33 14 13 36-0030 LF 36" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	615.86	85.96
<i>For <100, Add</i>	<i>44.30</i>	
<i>For >1,000, Deduct</i>	<i>-30.79</i>	
33 14 13 36-0031 LF 36" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	721.81	103.15
<i>For <100, Add</i>	<i>52.30</i>	
<i>For >1,000, Deduct</i>	<i>-36.09</i>	
33 14 13 36-0032 LF 36" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	863.42	103.15
<i>For <100, Add</i>	<i>59.38</i>	
<i>For >1,000, Deduct</i>	<i>-43.17</i>	
33 14 13 36-0033 LF 36" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	828.05	103.15
<i>For <100, Add</i>	<i>57.61</i>	
<i>For >1,000, Deduct</i>	<i>-41.40</i>	
33 14 13 36-0034 LF 42" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,273.24	115.43
<i>For <100, Add</i>	<i>81.67</i>	
<i>For >1,000, Deduct</i>	<i>-63.66</i>	
33 14 13 36-0035 LF 42" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	768.24	115.43
<i>For <100, Add</i>	<i>56.42</i>	
<i>For >1,000, Deduct</i>	<i>-38.41</i>	
33 14 13 36-0036 LF 48" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,460.33	130.17
<i>For <100, Add</i>	<i>93.28</i>	
<i>For >1,000, Deduct</i>	<i>-73.02</i>	
33 14 13 36-0037 LF 48" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	842.52	130.17
<i>For <100, Add</i>	<i>62.39</i>	
<i>For >1,000, Deduct</i>	<i>-42.13</i>	
33 14 13 36-0038 LF 54" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,528.63	147.37
<i>For <100, Add</i>	<i>99.59</i>	
<i>For >1,000, Deduct</i>	<i>-76.43</i>	
33 14 13 36-0039 LF 54" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,689.95	147.37
<i>For <100, Add</i>	<i>107.65</i>	
<i>For >1,000, Deduct</i>	<i>-84.50</i>	
33 14 13 36-0040 LF 60" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,888.95	171.93
<i>For <100, Add</i>	<i>121.46</i>	
<i>For >1,000, Deduct</i>	<i>-94.45</i>	
33 14 13 36-0041 LF 66" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,315.36	171.93
<i>For <100, Add</i>	<i>92.78</i>	
<i>For >1,000, Deduct</i>	<i>-65.77</i>	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0042 LF 72" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	1,449.30 114.91 -72.47	141.48
33 14 13 36-0043 LF 78" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	2,744.67 179.68 -137.23	141.48
33 14 13 36-0044 Flexible Couplings (Dresser Style 38) (33 14 13 36-0001)		
33 14 13 36-0045 EA 2" Dresser Coupling For Plain End Welded Steel Pipe	107.02	25.29
33 14 13 36-0046 EA 3" Dresser Coupling For Plain End Welded Steel Pipe	158.24	48.64
33 14 13 36-0047 EA 4" Dresser Coupling For Plain End Welded Steel Pipe	210.58	64.21
33 14 13 36-0048 EA 6" Dresser Coupling For Plain End Welded Steel Pipe	335.54	97.28
33 14 13 36-0049 EA 8" Dresser Coupling For Plain End Welded Steel Pipe	438.95	122.57
33 14 13 36-0050 EA 10" Dresser Coupling For Plain End Welded Steel Pipe	593.41	144.22
33 14 13 36-0051 EA 12" Dresser Coupling For Plain End Welded Steel Pipe	704.84	180.76
33 14 13 36-0052 EA 14" Dresser Coupling For Plain End Welded Steel Pipe	758.76	180.76
33 14 13 36-0053 EA 16" Dresser Coupling For Plain End Welded Steel Pipe	801.86	192.29
33 14 13 36-0054 EA 18" Dresser Coupling For Plain End Welded Steel Pipe	878.44	221.14
33 14 13 36-0055 EA 20" Dresser Coupling For Plain End Welded Steel Pipe	958.10	249.99
33 14 13 36-0056 EA 24" Dresser Coupling For Plain End Welded Steel Pipe	1,207.08	264.41
33 14 13 36-0057 EA 30" Dresser Coupling For Plain End Welded Steel Pipe	1,445.75	288.45
33 14 13 36-0058 EA 36" Dresser Coupling For Plain End Welded Steel Pipe	1,694.74	324.50
33 14 13 36-0059 EA 42" Dresser Coupling For Plain End Welded Steel Pipe	1,955.72	365.37
33 14 13 36-0060 EA 48" Dresser Coupling For Plain End Welded Steel Pipe	2,275.10	420.65
33 14 13 36-0061 EA 54" Dresser Coupling For Plain End Welded Steel Pipe	2,524.07	480.74
33 14 13 36-0062 EA 60" Dresser Coupling For Plain End Welded Steel Pipe	2,908.69	600.93
33 14 13 36-0063 EA 66" Dresser Coupling For Plain End Welded Steel Pipe	3,353.39	730.73
33 14 13 36-0064 EA 72" Dresser Coupling For Plain End Welded Steel Pipe	3,997.28	865.34
33 14 13 39 Copper Public Water Utility Distribution Piping (33 14 13)		
33 14 13 39-0001 Type L Copper Water Distribution Piping (33 14 13 39)		
33 14 13 39-0002 LF 1/2" Type L Copper Water Distribution Pipe	6.85	1.79
33 14 13 39-0003 LF 3/4" Type L Copper Water Distribution Pipe	8.70	2.01
33 14 13 39-0004 LF 1" Type L Copper Water Distribution Pipe	11.54	2.23
33 14 13 39-0005 LF 1-1/4" Type L Copper Water Distribution Pipe	14.49	2.68
33 14 13 39-0006 LF 1-1/2" Type L Copper Water Distribution Pipe	17.90	3.58
33 14 13 39-0007 LF 2" Type L Copper Water Distribution Pipe	26.26	4.47
33 14 13 39-0008 LF 2-1/2" Type L Copper Water Distribution Pipe	33.09	5.37
33 14 13 39-0009 LF 3" Type L Copper Water Distribution Pipe	41.66	5.90
33 14 13 39-0010 LF 3-1/2" Type L Copper Water Distribution Pipe	55.94	7.43
33 14 13 39-0011 LF 4" Type L Copper Water Distribution Pipe	73.95	9.38
33 14 13 39-0012 LF 5" Type L Copper Water Distribution Pipe	119.84	11.72
33 14 13 39-0013 LF 6" Type L Copper Water Distribution Pipe	155.02	14.13
33 14 13 39-0014 LF 8" Type L Copper Water Distribution Pipe	268.81	15.82
33 14 13 39-0015 Type K Copper Water Distribution Piping (33 14 13 39)		
33 14 13 39-0016 LF 1/2" Type K Copper Water Distribution Pipe	7.32	1.79
33 14 13 39-0017 LF 3/4" Type K Copper Water Distribution Pipe	10.35	2.01
33 14 13 39-0018 LF 1" Type K Copper Water Distribution Pipe	13.18	2.23
33 14 13 39-0019 LF 1-1/4" Type K Copper Water Distribution Pipe	15.51	2.68
33 14 13 39-0020 LF 1-1/2" Type K Copper Water Distribution Pipe	19.40	3.58
33 14 13 39-0021 LF 2" Type K Copper Water Distribution Pipe	28.29	4.47
33 14 13 39-0022 LF 2-1/2" Type K Copper Water Distribution Pipe	38.69	5.37
33 14 13 39-0023 LF 3" Type K Copper Water Distribution Pipe	50.06	5.90
33 14 13 39-0024 LF 3-1/2" Type K Copper Water Distribution Pipe	65.81	7.43
33 14 13 39-0025 LF 4" Type K Copper Water Distribution Pipe	88.94	9.38
33 14 13 39-0026 LF 5" Type K Copper Water Distribution Pipe	150.85	11.72
33 14 13 39-0027 LF 6" Type K Copper Water Distribution Pipe	210.78	14.13
33 14 13 39-0028 LF 8" Type K Copper Water Distribution Pipe	371.71	15.82
33 14 13 43 Public Water Utility Distribution Piping Coatings and Wraps (33 14 13)		
33 14 13 43-0001 Pipe Coatings (33 14 13 43)		
33 14 13 43-0002 Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating (33 14 13 43-0001) Note: Applied at fabrication shop.		
33 14 13 43-0003 LF 12" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	4.28	
33 14 13 43-0004 LF 14" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	5.69	
33 14 13 43-0005 LF 16" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	6.50	
33 14 13 43-0006 LF 18" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	6.83	
33 14 13 43-0007 LF 20" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	7.35	
33 14 13 43-0008 LF 24" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	8.57	
33 14 13 43-0009 LF 30" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	11.25	
33 14 13 43-0010 LF 36" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	17.77	
33 14 13 43-0011 LF 42" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	38.31	
33 14 13 43-0012 LF 48" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	43.78	
33 14 13 43-0013 LF 54" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	49.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 43-0014 LF 60" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	54.73	
33 14 13 43-0015 LF 66" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	60.20	
33 14 13 43-0016 LF 72" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	65.64	
33 14 13 43-0017 LF 78" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	71.14	
33 14 13 43-0018 Cement Coating With Fiberglass Or Wire Mesh Reinforcing <small>(33 14 13 43-0001)</small>		
<i>Note: Applied at fabrication shop. Thickness ranging between 1" and 2".</i>		
33 14 13 43-0019 LF 4" Diameter Cement Coated Pipe 1" To 2" Mesh.....	9.96	
<i>Note: Reinforcing applied at fabrication shop.</i>		
33 14 13 43-0020 LF 6" Diameter Cement Coated Pipe 1" To 2" Mesh.....	12.26	
<i>Note: Reinforcing applied at fabrication shop.</i>		
33 14 13 43-0021 LF 8" Diameter Cement Coated Pipe 1" To 2" Mesh.....	15.32	
<i>Note: Reinforcing applied at fabrication shop.</i>		
33 14 13 43-0022 LF 10" Diameter Cement Coated Pipe 1" To 2" Mesh.....	17.07	
<i>Note: Reinforcing applied at fabrication shop.</i>		
33 14 13 43-0023 LF 12" Diameter Cement Coated Pipe 1" To 2" Mesh.....	19.27	
<i>Note: Reinforcing applied at fabrication shop.</i>		
33 14 13 43-0024 LF 14" Diameter Cement Coated Pipe 1" To 2" Mesh.....	22.56	
<i>Note: Reinforcing applied at fabrication shop.</i>		
33 14 13 43-0025 LF 16" Diameter Cement Coated Pipe 1" To 2" Mesh.....	25.62	
<i>Note: Reinforcing applied at fabrication shop.</i>		
33 14 13 43-0026 LF 18" Diameter Cement Coated Pipe 1" To 2" Mesh.....	28.91	
<i>Note: Reinforcing applied at fabrication shop.</i>		
33 14 13 43-0027 LF 20" Diameter Cement Coated Pipe 1" To 2" Mesh.....	32.13	
<i>Note: Reinforcing applied at fabrication shop.</i>		
33 14 13 43-0028 LF 24" Diameter Cement Coated Pipe 1" To 2" Mesh.....	38.54	
<i>Note: Reinforcing applied at fabrication shop.</i>		
33 14 13 43-0029 LF 30" Diameter Cement Coated Pipe 1" To 2" Mesh.....	48.18	
<i>Note: Reinforcing applied at fabrication shop.</i>		
33 14 13 43-0030 LF 36" Diameter Cement Coated Pipe 1" To 2" Mesh.....	57.82	
<i>Note: Reinforcing applied at fabrication shop.</i>		
33 14 13 43-0031 LF 42" Diameter Cement Coated Pipe 1" To 2" Mesh.....	25.10	
<i>Note: Reinforcing applied at fabrication shop.</i>		
33 14 13 43-0032 LF 48" Diameter Cement Coated Pipe 1" To 2" Mesh.....	28.68	
<i>Note: Reinforcing applied at fabrication shop.</i>		
33 14 13 43-0033 LF 54" Diameter Cement Coated Pipe 1" To 2" Mesh.....	32.27	
<i>Note: Reinforcing applied at fabrication shop.</i>		
33 14 13 43-0034 LF 60" Diameter Cement Coated Pipe 1" To 2" Mesh.....	35.85	
<i>Note: Reinforcing applied at fabrication shop.</i>		
33 14 13 43-0035 LF 66" Diameter Cement Coated Pipe 1" To 2" Mesh.....	39.44	
<i>Note: Reinforcing applied at fabrication shop.</i>		
33 14 13 43-0036 LF 72" Diameter Cement Coated Pipe 1" To 2" Mesh.....	43.02	
<i>Note: Reinforcing applied at fabrication shop.</i>		
33 14 13 43-0037 LF 78" Diameter Cement Coated Pipe 1" To 2" Mesh.....	46.61	
<i>Note: Reinforcing applied at fabrication shop.</i>		
33 14 13 43-0038 Pipe Lining <small>(33 14 13 43)</small>		
33 14 13 43-0039 Cement Pipe Lining <small>(33 14 13 43-0038)</small>		
<i>Note: Shop applied.</i>		
33 14 13 43-0040 LF 4" Outside Diameter, 1/4" Thick Cement Pipe Lining.....	13.43	
<i>For 1/2" Thick, Add</i>		
	1.33	
33 14 13 43-0041 LF 6" Outside Diameter, 1/4" Thick Cement Pipe Lining.....	16.67	
<i>For 1/2" Thick, Add</i>		
	1.63	
33 14 13 43-0042 LF 8" Outside Diameter, 1/4" Thick Cement Pipe Lining.....	20.40	
<i>For 1/2" Thick, Add</i>		
	2.04	
33 14 13 43-0043 LF 10" Outside Diameter, 1/4" Thick Cement Pipe Lining.....	26.35	
<i>For 1/2" Thick, Add</i>		
	2.55	
33 14 13 43-0044 LF 12" Outside Diameter, 1/4" Thick Cement Pipe Lining.....	32.33	
<i>For 1/2" Thick, Add</i>		
	3.07	
33 14 13 43-0045 LF 14" Outside Diameter, 1/4" Thick Cement Pipe Lining.....	40.90	
<i>For 1/2" Thick, Add</i>		
	3.59	
33 14 13 43-0046 LF 16" Outside Diameter, 1/4" Thick Cement Pipe Lining.....	52.26	
<i>For 1/2" Thick, Add</i>		
	4.08	
33 14 13 43-0047 LF 18" Outside Diameter, 5/16" Thick Cement Pipe Lining.....	62.09	
<i>For 1/2" Thick, Add</i>		
	3.92	
33 14 13 43-0048 LF 20" Outside Diameter, 5/16" Thick Cement Pipe Lining.....	74.43	
<i>For 1/2" Thick, Add</i>		
	4.35	
33 14 13 43-0049 LF 24" Outside Diameter, 5/16" Thick Cement Pipe Lining.....	90.15	
<i>For 1/2" Thick, Add</i>		
	5.22	
33 14 13 43-0050 LF 30" Outside Diameter, 5/16" Thick Cement Pipe Lining.....	108.85	
<i>For 1/2" Thick, Add</i>		
	6.52	
33 14 13 43-0051 LF 36" Outside Diameter, 5/16" Thick Cement Pipe Lining.....	130.98	
<i>For 1/2" Thick, Add</i>		
	7.83	
33 14 13 43-0052 LF 42" Outside Diameter, 3/8" Thick Cement Pipe Lining.....	152.84	
<i>For 1/2" Thick, Add</i>		
	6.72	
33 14 13 43-0053 LF 48" Outside Diameter, 3/8" Thick Cement Pipe Lining.....	174.61	
<i>For 1/2" Thick, Add</i>		
	7.68	
33 14 13 43-0054 LF 54" Outside Diameter, 3/8" Thick Cement Pipe Lining.....	196.46	
<i>For 1/2" Thick, Add</i>		
	8.64	
33 14 13 43-0055 LF 60" Outside Diameter, 3/8" Thick Cement Pipe Lining.....	218.33	
<i>For 1/2" Thick, Add</i>		
	9.60	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
33 14 13 43-0056	LF 66" Outside Diameter, 7/16" Thick Cement Pipe Lining <i>For 1/2" Thick, Add</i>	240.10 5.63	
33 14 13 43-0057	LF 72" Outside Diameter, 7/16" Thick Cement Pipe Lining <i>For 1/2" Thick, Add</i>	261.95 6.14	
33 14 13 43-0058	LF 78" Outside Diameter, 7/16" Thick Cement Pipe Lining <i>For 1/2" Thick, Add</i>	283.81 6.65	
33 14 13 43-0059 Cement Fitting Lining (33 14 13 43-0038)			
Note: Shop applied.			
33 14 13 43-0060	EA 4" Outside Diameter, 1/4" Thick Cement Fitting Lining <i>For 1/2" Thick, Add</i>	13.43 1.33	
33 14 13 43-0061	EA 6" Outside Diameter, 1/4" Thick Cement Fitting Lining <i>For 1/2" Thick, Add</i>	16.67 1.63	
33 14 13 43-0062	EA 8" Outside Diameter, 1/4" Thick Cement Fitting Lining <i>For 1/2" Thick, Add</i>	26.02 2.66	
33 14 13 43-0063	EA 10" Outside Diameter, 1/4" Thick Cement Fitting Lining <i>For 1/2" Thick, Add</i>	42.50 4.08	
33 14 13 43-0064	EA 12" Outside Diameter, 1/4" Thick Cement Fitting Lining <i>For 1/2" Thick, Add</i>	64.67 6.14	
33 14 13 43-0065	EA 14" Outside Diameter, 1/4" Thick Cement Fitting Lining <i>For 1/2" Thick, Add</i>	94.82 8.27	
33 14 13 43-0066	EA 16" Outside Diameter, 1/4" Thick Cement Fitting Lining <i>For 1/2" Thick, Add</i>	138.00 10.62	
33 14 13 43-0067	EA 18" Outside Diameter, 5/16" Thick Cement Fittings Lining <i>For 1/2" Thick, Add</i>	186.28 11.75	
33 14 13 43-0068	EA 20" Outside Diameter, 5/16" Thick Cement Fitting Lining <i>For 1/2" Thick, Add</i>	247.94 14.49	
33 14 13 43-0069	EA 24" Outside Diameter, 5/16" Thick Cement Fitting Lining <i>For 1/2" Thick, Add</i>	360.59 20.88	
33 14 13 43-0070 8 Mil Polyethylene Encasement Tubing (33 14 13 43)			
Note: ANSI/AWWA C105/A21.5-99 section 4.2.			
33 14 13 43-0071	LF 3" To 8" Diameter, 8 Mil Polyethylene Encasement Tubing	0.85	
33 14 13 43-0072	LF 10" To 12" Diameter, 8 Mil Polyethylene Encasement Tubing	1.42	
33 14 13 43-0073	LF 14" To 16" Diameter, 8 Mil Polyethylene Encasement Tubing	1.78	
33 14 13 43-0074	LF 18" To 20" Diameter, 8 Mil Polyethylene Encasement Tubing	2.27	
33 14 13 43-0075	LF 24" Diameter, 8 Mil Polyethylene Encasement Tubing	3.15	
33 14 13 43-0076	LF 30" Diameter, 8 Mil Polyethylene Encasement Tubing	4.07	
33 14 13 43-0077	LF 36" To 42" Diameter, 8 Mil Polyethylene Encasement Tubing	5.16	
33 14 13 43-0078	LF 48" Diameter, 8 Mil Polyethylene Encasement Tubing	6.16	
33 14 13 43-0079	LF 54" Diameter, 8 Mil Polyethylene Encasement Tubing	7.35	
33 14 13 43-0080	LF 60" Diameter, 8 Mil Polyethylene Encasement Tubing	8.19	
33 14 13 53 Public Water Utility Distribution Piping Saddles And Adapters (33 14 13)			
33 14 13 53-0001 Double Stud Stainless Steel Service Saddles (33 14 13 53)			
Note: 1/2" listed taps are compression, 3/4" to 2" are either compression or NPT.			
33 14 13 53-0002	EA 4" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	238.46	
33 14 13 53-0003	EA 4" Diameter x 1-1/4" Or 1-1/2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	337.92	
33 14 13 53-0004	EA 4" Diameter x 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	348.76	
33 14 13 53-0005	EA 6" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	286.65	
33 14 13 53-0006	EA 6" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	361.53	
33 14 13 53-0007	EA 8" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	299.32	
33 14 13 53-0008	EA 8" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	378.45	
33 14 13 53-0009	EA 10" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	337.71	
33 14 13 53-0010	EA 10" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	398.67	
33 14 13 53-0011	EA 12" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	351.99	
33 14 13 53-0012	EA 12" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	409.50	
33 14 13 53-0013 Double Bale Epoxy Coated Ductile Iron Body Service Saddles (33 14 13 53)			
Note: Electro-galvanized steel bales. 5/8" listed taps are compression. 3/4" to 2" are either compression or NPT. 2-1/2", 3" or 4" are NPT.			
33 14 13 53-0014	EA 1-1/4" To 1-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	197.51	
33 14 13 53-0015	EA 2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	197.66	
33 14 13 53-0016	EA 2" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	210.27	
33 14 13 53-0017	EA 2-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	201.10	
33 14 13 53-0018	EA 3" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	215.19	
33 14 13 53-0019	EA 3" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	238.43	
33 14 13 53-0020	EA 3" Diameter x 2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	253.62	
33 14 13 53-0021	EA 4" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	231.66	
33 14 13 53-0022	EA 4" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	255.08	
33 14 13 53-0023	EA 4" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	267.99	
33 14 13 53-0024	EA 5" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	244.37	
33 14 13 53-0025	EA 5" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	268.58	
33 14 13 53-0026	EA 5" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	281.41	
33 14 13 53-0027	EA 6" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	257.58	
33 14 13 53-0028	EA 6" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	281.05	
33 14 13 53-0029	EA 6" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	293.71	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0030 EA 6" Diameter x 3" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	434.50	
33 14 13 53-0031 EA 6" Diameter x 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	445.32	
33 14 13 53-0032 EA 8" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	279.22	
33 14 13 53-0033 EA 8" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	307.70	
33 14 13 53-0034 EA 8" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	319.42	
33 14 13 53-0035 EA 8" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	515.45	
33 14 13 53-0036 EA 10" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	313.31	
33 14 13 53-0037 EA 10" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	347.58	
33 14 13 53-0038 EA 10" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	576.47	
33 14 13 53-0039 EA 12" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	341.27	
33 14 13 53-0040 EA 12" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	377.53	
33 14 13 53-0041 EA 12" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	390.96	
33 14 13 53-0042 EA 12" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	644.31	
33 14 13 53-0043 EA 14" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	399.61	
33 14 13 53-0044 EA 14" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	427.92	
33 14 13 53-0045 EA 14" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	461.19	
33 14 13 53-0046 EA 14" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	794.30	
33 14 13 53-0047 EA 15" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	410.45	
33 14 13 53-0048 EA 15" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	468.46	
33 14 13 53-0049 EA 15" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	487.97	
33 14 13 53-0050 EA 15" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	854.18	
33 14 13 53-0051 EA 16" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	428.91	
33 14 13 53-0052 EA 16" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	489.06	
33 14 13 53-0053 EA 16" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	509.11	
33 14 13 53-0054 EA 16" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	888.95	
33 14 13 53-0055 EA 18" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	475.55	
33 14 13 53-0056 EA 18" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	550.84	
33 14 13 53-0057 EA 20" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	543.23	
33 14 13 53-0058 EA 20" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	601.76	
33 14 13 53-0059 EA 24" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	567.43	
33 14 13 53-0060 EA 24" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	641.36	
33 14 13 53-0061 Double Bale Bronze Service Saddles <small>(33 14 13 53)</small>		
33 14 13 53-0062 EA 4" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	275.14	
33 14 13 53-0063 EA 4" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	301.08	
33 14 13 53-0064 EA 6" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	312.96	
33 14 13 53-0065 EA 6" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	339.16	
33 14 13 53-0066 EA 8" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	349.29	
33 14 13 53-0067 EA 8" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	367.10	
33 14 13 53-0068 EA 10" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	337.77	
33 14 13 53-0069 EA 10" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	359.43	
33 14 13 53-0070 EA 12" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	430.69	
33 14 13 53-0071 EA 12" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	466.11	
33 14 13 53-0072 EA 14" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	652.55	
33 14 13 53-0073 EA 14" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	738.09	
33 14 13 53-0074 EA 16" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	759.72	
33 14 13 53-0075 EA 16" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	848.87	
33 14 13 53-0076 Stainless Steel Double Straps, Bronze Body Service Saddle <small>(33 14 13 53)</small>		
Note: Taps are compression or NPT.		
33 14 13 53-0077 EA 4" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	289.52	
33 14 13 53-0078 EA 4" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	319.23	
33 14 13 53-0079 EA 6" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	329.94	
33 14 13 53-0080 EA 6" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	358.57	
33 14 13 53-0081 EA 8" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	370.29	
33 14 13 53-0082 EA 8" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	389.23	
33 14 13 53-0083 EA 10" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	417.82	
33 14 13 53-0084 EA 10" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	447.38	
33 14 13 53-0085 EA 12" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	449.94	
33 14 13 53-0086 EA 12" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	487.83	
33 14 13 53-0087 EA 14" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	700.24	
33 14 13 53-0088 EA 14" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	805.53	
33 14 13 53-0089 EA 16" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	816.30	
33 14 13 53-0090 EA 16" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	889.94	
33 14 13 53-0091 EA 18" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	1,359.85	
33 14 13 53-0092 EA 18" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	1,359.85	
33 14 13 53-0093 EA 20" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	1,413.36	
33 14 13 53-0094 EA 20" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	1,413.36	
33 14 13 53-0095 EA 24" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	1,516.68	
33 14 13 53-0096 EA 24" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	1,516.68	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 13 53-0097		Ductile Iron Mechanical Joint Tapping Sleeve <small>(33 14 13 53)</small>	
33 14 13 53-0098	EA	4" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,304.72
33 14 13 53-0099	EA	6" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,574.74
33 14 13 53-0100	EA	8" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,884.25
33 14 13 53-0101	EA	8" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,995.21
33 14 13 53-0102	EA	10" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,051.23
33 14 13 53-0103	EA	10" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,206.87
33 14 13 53-0104	EA	10" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,273.10
33 14 13 53-0105	EA	12" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,213.72
33 14 13 53-0106	EA	12" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,368.73
33 14 13 53-0107	EA	12" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,747.79
33 14 13 53-0108	EA	12" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,843.31
33 14 13 53-0109	EA	14" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,467.10
33 14 13 53-0110	EA	14" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,642.39
33 14 13 53-0111	EA	14" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,720.69
33 14 13 53-0112	EA	14" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,753.81
33 14 13 53-0113	EA	14" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,001.83
33 14 13 53-0114	EA	16" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,989.26
33 14 13 53-0115	EA	16" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,010.94
33 14 13 53-0116	EA	16" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,206.91
33 14 13 53-0117	EA	16" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,252.40
33 14 13 53-0118	EA	16" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,302.58
33 14 13 53-0119	EA	16" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,239.36
33 14 13 53-0120	EA	16" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,658.72
33 14 13 53-0121	EA	18" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,744.18
33 14 13 53-0122	EA	18" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,187.87
33 14 13 53-0123	EA	18" Diameter x 8", 10", 12" Or 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,310.36
33 14 13 53-0124	EA	18" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,683.75
33 14 13 53-0125	EA	20" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,101.76
33 14 13 53-0126	EA	20" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	8,763.04
33 14 13 53-0127	EA	20" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	8,931.70
33 14 13 53-0128	EA	20" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	8,996.98
33 14 13 53-0129	EA	20" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,325.96
33 14 13 53-0130	EA	20" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	12,646.66
33 14 13 53-0131	EA	20" Diameter x 16", 18" Or 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	12,890.63
33 14 13 53-0132	EA	24" Diameter x 4", 6" Or 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,005.80
33 14 13 53-0133	EA	24" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,157.30
33 14 13 53-0134	EA	24" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,200.32
33 14 13 53-0135	EA	24" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	15,556.17
33 14 13 53-0136	EA	24" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	15,755.99
33 14 13 53-0137	EA	24" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	15,799.32
33 14 13 53-0138	EA	24" Diameter x 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	16,233.86
33 14 13 53-0139	EA	24" Diameter x 24" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	16,439.32

33 14 13 53-0140 Carbon Steel Epoxy Coated Flange, Stainless Steel Tapping Sleeve (33 14 13 53)

33 14 13 53-0141	EA	4" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,075.98
33 14 13 53-0142	EA	6" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,139.43
33 14 13 53-0143	EA	6" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,247.78
33 14 13 53-0144	EA	8" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,281.20
33 14 13 53-0145	EA	8" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,334.61
33 14 13 53-0146	EA	8" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,537.98
33 14 13 53-0147	EA	10" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,396.87
33 14 13 53-0148	EA	10" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,448.84
33 14 13 53-0149	EA	10" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,627.46
33 14 13 53-0150	EA	10" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,265.48
33 14 13 53-0151	EA	12" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,568.38
33 14 13 53-0152	EA	12" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,645.18
33 14 13 53-0153	EA	12" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,820.94
33 14 13 53-0154	EA	12" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,392.36
33 14 13 53-0155	EA	12" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,613.03
33 14 13 53-0156	EA	14" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,071.00
33 14 13 53-0157	EA	14" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,134.34
33 14 13 53-0158	EA	14" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,512.84
33 14 13 53-0159	EA	14" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,982.39
33 14 13 53-0160	EA	14" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,287.32
33 14 13 53-0161	EA	16" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,463.27
33 14 13 53-0162	EA	16" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,528.69
33 14 13 53-0163	EA	16" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,778.85
33 14 13 53-0164	EA	16" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,450.96
33 14 13 53-0165	EA	16" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,608.90
33 14 13 53-0166	EA	18" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,605.29
33 14 13 53-0167	EA	18" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,724.77
33 14 13 53-0168	EA	18" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,891.21
33 14 13 53-0169	EA	18" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,682.30
33 14 13 53-0170	EA	18" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,840.05
33 14 13 53-0171	EA	20" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,150.79
33 14 13 53-0172	EA	20" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,216.07
33 14 13 53-0173	EA	20" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,591.05
33 14 13 53-0174	EA	20" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,225.95



	Utilities	33	
	Water Utilities	33 10	33
	Water Utility Transmission and Distribution	33 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0175	EA		20" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	4,494.67	
33 14 13 53-0176	EA		24" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,396.94	
33 14 13 53-0177	EA		24" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,541.39	
33 14 13 53-0178	EA		24" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,736.87	
33 14 13 53-0179	EA		24" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	4,638.51	
33 14 13 53-0180	EA		24" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	4,803.05	
33 14 13 53-0181 Stainless Steel Flange, Stainless Steel Tapping Sleeve (33 14 13 53)					
33 14 13 53-0182	EA		4" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,248.79	
33 14 13 53-0183	EA		6" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,357.69	
33 14 13 53-0184	EA		6" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,437.97	
33 14 13 53-0185	EA		8" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,463.77	
33 14 13 53-0186	EA		8" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,556.41	
33 14 13 53-0187	EA		8" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,835.51	
33 14 13 53-0188	EA		10" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,679.52	
33 14 13 53-0189	EA		10" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,782.37	
33 14 13 53-0190	EA		10" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,032.41	
33 14 13 53-0191	EA		10" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,756.80	
33 14 13 53-0192	EA		12" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,915.37	
33 14 13 53-0193	EA		12" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,056.02	
33 14 13 53-0194	EA		12" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,386.73	
33 14 13 53-0195	EA		12" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,817.96	
33 14 13 53-0196	EA		12" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,147.36	
33 14 13 53-0197	EA		14" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,185.33	
33 14 13 53-0198	EA		14" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,358.13	
33 14 13 53-0199	EA		14" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,730.66	
33 14 13 53-0200	EA		14" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,162.30	
33 14 13 53-0201	EA		14" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,390.05	
33 14 13 53-0202	EA		16" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,670.95	
33 14 13 53-0203	EA		16" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,907.61	
33 14 13 53-0204	EA		16" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,087.66	
33 14 13 53-0205	EA		16" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,551.87	
33 14 13 53-0206	EA		16" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,866.39	
33 14 13 53-0207	EA		18" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,940.51	
33 14 13 53-0208	EA		18" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,294.80	
33 14 13 53-0209	EA		18" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,482.77	
33 14 13 53-0210	EA		18" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,890.55	
33 14 13 53-0211	EA		18" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	4,430.43	
33 14 13 53-0212	EA		20" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,170.59	
33 14 13 53-0213	EA		20" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,523.97	
33 14 13 53-0214	EA		20" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,676.46	
33 14 13 53-0215	EA		20" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	4,436.31	
33 14 13 53-0216	EA		20" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	4,858.73	
33 14 13 53-0217	EA		24" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,762.52	
33 14 13 53-0218	EA		24" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,811.77	
33 14 13 53-0219	EA		24" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,994.86	
33 14 13 53-0220	EA		24" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	4,902.11	
33 14 13 53-0221	EA		24" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	5,385.77	
33 14 13 53-0222 Ductile Iron Body, Flanged Coupling Adapter (33 14 13 53)					
33 14 13 53-0223	EA		3" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912).....	313.90	57.08
33 14 13 53-0224	EA		4" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912).....	393.30	71.97
33 14 13 53-0225	EA		6" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912).....	517.01	99.26
33 14 13 53-0226	EA		8" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912).....	670.40	116.64
33 14 13 53-0227	EA		10" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912).....	1,054.39	131.53
33 14 13 53-0228	EA		12" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912).....	1,177.86	148.89
33 14 13 53-0229 Steel Body, Flanged Coupling Adapter (33 14 13 53)					
33 14 13 53-0230	EA		3" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	458.86	57.08
33 14 13 53-0231	EA		4" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	542.45	71.97
33 14 13 53-0232	EA		6" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	724.19	99.26
33 14 13 53-0233	EA		8" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	886.02	116.64
33 14 13 53-0234	EA		10" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	1,082.05	131.53
33 14 13 53-0235	EA		12" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	1,261.04	148.89
33 14 13 53-0236	EA		14" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	1,498.61	163.78
33 14 13 53-0237	EA		16" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	1,775.35	178.67
33 14 13 53-0238	EA		18" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	2,097.08	196.53
33 14 13 53-0239	EA		20" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	2,478.65	216.20
33 14 13 53-0240 Steel Body, Flanged-Lock Restrained Coupling Adapters (33 14 13 53)					
33 14 13 53-0241	EA		4" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	402.99	71.97
33 14 13 53-0242	EA		6" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	540.94	99.26
33 14 13 53-0243	EA		8" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	598.79	116.64
33 14 13 53-0244	EA		10" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	875.36	131.53
33 14 13 53-0245	EA		12" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	1,115.45	148.89
33 14 13 53-0246	EA		14" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	1,251.17	163.78

33	Utilities
33 10	Water Utilities
33 14	Water Utility Transmission and Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 14 13 53-0247	EA 16" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,471.13	178.67
33 14 13 53-0248	EA 18" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,651.06	196.53
33 14 13 53-0249	EA 20" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,984.79	216.20
33 14 13 53-0250	EA 24" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	2,391.57	237.83
33 14 13 53-0251	EA 30" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	4,987.62	261.55
33 14 13 53-0252	EA 36" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	6,733.04	287.77

33 14 13 53-0253 Ductile Iron Body, Omni Coupling System (33 14 13 53)

33 14 13 53-0254	EA 2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	141.54	39.70
33 14 13 53-0255	EA 2-1/2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	174.64	47.15
33 14 13 53-0256	EA 3" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	216.23	57.08
33 14 13 53-0257	EA 4" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	271.54	71.97
33 14 13 53-0258	EA 6" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	362.19	99.26
33 14 13 53-0259	EA 8" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	440.15	116.64
33 14 13 53-0260	EA 10" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	550.28	131.53
33 14 13 53-0261	EA 12" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	643.66	148.89
33 14 13 53-0262	EA 14" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	906.17	163.78
33 14 13 53-0263	EA 16" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	1,131.13	178.67

33 14 19 Valves and Hydrants for Water Utility Service (33 14)

Note: Flanged valves excludes bolt and gasket set.

33 14 19 00-0001 Accessories For Valves (33 14 19)

33 14 19 00-0002	EA 1' Valve Extension Stem	92.33	
	For Each Additional LF, Add	6.48	
33 14 19 00-0003	EA Up to 80" Long Indicator Post Telescoping Barrel Assembly	1,182.17	97.28
	Note: Excludes valve.		
33 14 19 00-0004	EA >80" To 114" Long Indicator Post Telescoping Barrel Assembly	1,339.54	107.01
	Note: Excludes valve.		
33 14 19 00-0005	EA Adjust Water Valve Box To Grade	97.28	

33 14 19 00-0006 Roadway Or Curb Valve Boxes (33 14 19)

33 14 19 00-0007 Round Head, Cast Iron Service, Roadway Or Valve Boxes (33 14 19 00-0006)

33 14 19 00-0008	EA 36" To 48" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	188.64	12.84
	Note: Includes cover, top section and bottom section.		
33 14 19 00-0009	EA 36" To 54" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	218.51	12.84
	Note: Includes cover, top section and bottom section.		
33 14 19 00-0010	EA 42" To 60" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	219.89	12.84
	Note: Includes cover, top section and bottom section.		
33 14 19 00-0011	EA 9" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	57.49	6.42
33 14 19 00-0012	EA 16" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	65.40	6.42
33 14 19 00-0013	EA 24" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	77.30	6.42
33 14 19 00-0014	EA 36" To 48" High, Screw Type, 4-1/4" Shaft, Round Head, Cast Iron Roadway Box	283.44	16.05
	Note: Includes cover, top section and bottom section.		
33 14 19 00-0015	EA 45" To 54" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	489.28	22.47
	Note: Includes cover, top section, bottom section and #6 round base.		
33 14 19 00-0016	EA 45" To 66" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	545.00	22.47
	Note: Includes cover, top section, bottom section and #6 round base.		
33 14 19 00-0017	EA 24" To 36" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	294.49	16.05
	Note: Includes cover, top section and bottom section.		
33 14 19 00-0018	EA 36" To 48" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	307.80	16.05
	Note: Includes cover, top section and bottom section.		
33 14 19 00-0019	EA 24" To 36" High, Two Piece, Slip Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	297.63	16.05
	Note: Includes cover, top section and bottom section.		
33 14 19 00-0020	EA 12" Extension For Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	108.06	6.42
33 14 19 00-0021	EA 18" To 24" High Round Head Cast Iron Roadway Or Curb Valve Boxes	183.87	26.41
33 14 19 00-0022	EA 22" To 28" High Round Head Cast Iron Roadway Or Curb Valve Boxes	189.92	27.47
33 14 19 00-0023	EA 30" To 36" High Round Head Cast Iron Roadway Or Curb Valve Boxes	211.32	28.52
33 14 19 00-0024	EA 36" To 48" High Round Head Cast Iron Roadway Or Curb Valve Boxes	287.93	30.11
33 14 19 00-0025	EA 48" To 60" High Round Head Cast Iron Roadway Or Curb Valve Boxes	346.46	31.69
33 14 19 00-0026	EA 18" Cast Iron Service Box Extension Section	80.72	

33 14 19 00-0027 Plastic Roadway Grade Water Meter Box And Cover (33 14 19 00-0006)

33 14 19 00-0028	EA 12" Wide x 16" Long x 16" Deep Plastic Meter Box And Cover	255.68	36.97
33 14 19 00-0029	EA 9-3/4" Wide x 19-1/4" Long x 16" Deep Oval Plastic Meter Box And Cover	192.02	26.41
33 14 19 00-0030	EA Cast Iron Lid For Plastic Meter Box	56.73	

33 14 19 00-0031 Traffic Valve Box And Lid (33 14 19 00-0006)

33 14 19 00-0032	EA 10-3/8" ID x 12" Traffic Valve Box And 11" OD Cast Iron Lid (Christy G-5)	169.32	
33 14 19 00-0033	EA 14-1/2" ID x 12" Traffic Valve Box And 13-1/4" OD Cast Iron Lid (Christy G-12)	518.23	

33 14 19 00-0034 Roadway Utility Box (33 14 19)

33 14 19 00-0035 Utility Box (33 14 19 00-0034)

Note: Christy Concrete Products.



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0036	B3 Utility Box, 9-3/8" x 15-1/2" (33 14 19 00-0035)			
	33 14 19 00-0037 EA 9-3/8" x 15-1/2" Precast Concrete Utility Box	92.58	48.53	
	33 14 19 00-0038 EA Cast Iron Lid For 9-3/8" x 15-1/2" Utility Box	83.80	5.40	
	33 14 19 00-0039 EA Reinforced Concrete Lid For 9-3/8" x 15-1/2" Utility Box	36.47	5.40	
	33 14 19 00-0040 EA Steel Checkered Plate Cover For 9-3/8" x 15-1/2" Utility Box	188.03	5.40	
	33 14 19 00-0041 EA 12-1/8" x 18-5/8" Reinforced Concrete Slab For 9-3/8" x 15-1/2" Utility Box	53.28	10.78	
	33 14 19 00-0042 EA 3" High Reinforced Concrete Base For 9-3/8" x 15-1/2" Utility Box	74.19	10.78	
33 14 19 00-0043	B9 Utility Box, 10-1/4" x 17-1/4" (33 14 19 00-0035)			
	33 14 19 00-0044 EA 10-1/4" x 17-1/4" Precast Concrete Utility Box	113.77	64.70	
	33 14 19 00-0045 EA Cast Iron Lid For 10-1/4" x 17-1/4" Utility Box	98.25	6.47	
	33 14 19 00-0046 EA Reinforced Concrete Lid For 10-1/4" x 17-1/4" Utility Box	40.72	6.47	
	33 14 19 00-0047 EA Steel Checkered Plate Cover For 10-1/4" x 17-1/4" Utility Box	188.73	5.40	
	33 14 19 00-0048 EA 13" x 19-3/4" Reinforced Concrete Slab For 10-1/4" x 17-1/4" Utility Box	59.03	10.78	
	33 14 19 00-0049 EA 5-3/4" High Reinforced Concrete Base For 10-1/4" x 17-1/4" Utility Box	79.94	16.18	
	33 14 19 00-0050 EA 12" High Reinforced Concrete Extension For 10-1/4" x 17-1/4" Utility Box	100.01	29.65	
33 14 19 00-0051	B12 Utility Box, 12" x 20" (33 14 19 00-0035)			
	33 14 19 00-0052 EA 12" x 20" Precast Concrete Utility Box	124.82	70.09	
	33 14 19 00-0053 EA Cast Iron Lid For 12" x 20" Utility Box	175.11	8.09	
	33 14 19 00-0054 EA Reinforced Concrete Lid For 12" x 20" Utility Box	55.67	10.78	
	33 14 19 00-0055 EA Steel Checkered Plate Cover For 12" x 20" Utility Box	255.63	10.78	
	33 14 19 00-0056 EA 12" High Reinforced Concrete Extension For 12" x 20" Utility Box	129.94	37.74	
33 14 19 00-0057	B16 Utility Box, 12" x 22-1/4" (33 14 19 00-0035)			
	33 14 19 00-0058 EA 12" x 22-1/4" Precast Concrete Utility Box	143.99	81.95	
	33 14 19 00-0059 EA Cast Iron Lid For 12" x 22-1/4" Utility Box	198.68	10.78	
	33 14 19 00-0060 EA Reinforced Concrete Lid For 12" x 22-1/4" Utility Box	67.53	10.78	
	33 14 19 00-0061 EA Steel Checkered Plate Cover For 12" x 22-1/4" Utility Box	257.04	10.78	
	33 14 19 00-0062 EA 16" x 27" Reinforced Concrete Slab For 12" x 22-1/4" Utility Box	96.43	18.34	
	33 14 19 00-0063 EA 12" High Reinforced Concrete Extension For 12" x 22-1/4" Utility Box	131.91	37.74	
33 14 19 00-0064	B30 Utility Box, 13-1/4" x 24" (33 14 19 00-0035)			
	33 14 19 00-0065 EA 13-1/4" x 24" Precast Concrete Utility Box (Christy B30BOX).....	173.05	97.05	
	33 14 19 00-0066 EA Reinforced Concrete Lid For 13-1/4" x 24" Utility Box (Christy B30D)	92.34	17.26	
	33 14 19 00-0067 EA Steel Checkered Plate Cover For 13-1/4" x 24" Utility Box (Christy B30-61G)	318.12	14.02	
	33 14 19 00-0068 EA 16" x 27" Reinforced Concrete Slab For 13-1/4" x 24" Utility Box (Christy B30SL).....	96.43	18.34	
	33 14 19 00-0069 EA 5-1/2" High Reinforced Concrete Base For 13-1/4" x 24" Utility Box (Christy B30BA)	148.80	30.20	
	33 14 19 00-0070 EA 6" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X6)	114.65	20.49	
	33 14 19 00-0071 EA 12" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X12).....	170.72	48.53	
33 14 19 00-0072	B36 Utility Box, 17-1/4" x 30" (33 14 19 00-0035)			
	33 14 19 00-0073 EA 17-1/4" x 30" Precast Concrete Utility Box (Christy B36BOX).....	225.17	122.93	
	33 14 19 00-0074 EA Reinforced Concrete Lid For 17-1/4" x 30" Utility Box (Christy B36D)	151.23	29.65	
	33 14 19 00-0075 EA Steel Checkered Plate Cover For 17-1/4" x 30" Utility Box (Christy B36-61D).....	400.24	20.49	
	33 14 19 00-0076 EA 20" x 34" Reinforced Concrete Slab For 17-1/4" x 30" Utility Box (Christy B36SL).....	142.33	38.82	
	33 14 19 00-0077 EA 6" High Reinforced Concrete Base For 17-1/4" x 30" Utility Box (Christy B36BA)	229.56	43.13	
	33 14 19 00-0078 EA 12" High Reinforced Concrete Extension For 17-1/4" x 30" Utility Box (Christy B36X12).....	226.82	62.54	
33 14 19 00-0079	B40 Utility Box, 24-1/2" x 36" (33 14 19 00-0035)			
	33 14 19 00-0080 EA 24-1/2" x 36" Precast Concrete Utility Box	449.69	189.79	
	33 14 19 00-0081 EA Reinforced Concrete Lid For 24-1/2" x 36" Utility Box	408.83	71.17	
	33 14 19 00-0082 EA Steel Checkered Plate Cover For 24-1/2" x 36" Utility Box	569.58	31.27	
	33 14 19 00-0083 EA 30" x 40" Reinforced Concrete Slab For 24-1/2" x 36" Utility Box	338.61	66.86	
	33 14 19 00-0084 EA 10" High Reinforced Concrete Extension For 24-1/2" x 36" Utility Box	358.84	70.09	
33 14 19 00-0085	B48 Utility Box, 30-1/4" x 48-1/4" (33 14 19 00-0035)			
	33 14 19 00-0086 EA 30-1/4" x 48-1/4" Precast Concrete Utility Box	579.93	215.66	
	33 14 19 00-0087 EA 1 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box.....	573.28	117.54	
	33 14 19 00-0088 EA 2 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box.....	707.45	117.54	
	33 14 19 00-0089 EA 2 Piece Steel Checkered Plate Cover For 30-1/4" x 48-1/4" Utility Box	903.94	53.92	
	33 14 19 00-0090 EA 36" x 53" Reinforced Concrete Slab For 30-1/4" x 48-1/4" Utility Box	516.36	145.58	
	33 14 19 00-0091 EA 10" High Reinforced Concrete Extension For 30-1/4" x 48-1/4" Utility Box	449.28	98.13	
33 14 19 00-0092	Water Utility Distribution Valves (33 14 19)			
33 14 19 00-0093	Angle Valves (33 14 19 00-0092) Note: For connecting meters to water service.			
33 14 19 00-0094	Threaded, Class 150, Bronze Angle Valve (33 14 19 00-0093) Note: Nibco T-335Y			
	33 14 19 00-0095 EA 1/2" Threaded, Class 150, Bronze Angle Valve	94.63	16.90	

33 Utilities

33 10 Water Utilities

33 14 Water Utility Transmission and Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0096 EA 3/4" Threaded, Class 150, Bronze Angle Valve	127.61	22.71
33 14 19 00-0097 EA 1" Threaded, Class 150, Bronze Angle Valve	171.89	27.99
33 14 19 00-0098 EA 1-1/4" Threaded, Class 150, Bronze Angle Valve	221.31	35.17
33 14 19 00-0099 EA 1-1/2" Threaded, Class 150, Bronze Angle Valve	276.36	40.66
33 14 19 00-0100 EA 2" Threaded, Class 150, Bronze Angle Valve	412.24	47.54
33 14 19 00-0101 EA 2-1/2" Threaded, Class 150, Bronze Angle Valve	660.23	64.88
33 14 19 00-0102 EA 3" Threaded, Class 150, Bronze Angle Valve	1,002.17	74.90
33 14 19 00-0103 Butterfly Valves (33 14 19 00-0092)		
33 14 19 00-0104 Lug Type Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valves (33 14 19 00-0103)		
33 14 19 00-0105 EA 3" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8)	2,019.30	179.57
33 14 19 00-0106 EA 3" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8)	2,250.59	179.57
33 14 19 00-0107 EA 4" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8)	2,163.77	277.93
33 14 19 00-0108 EA 4" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8)	2,395.05	277.93
33 14 19 00-0109 EA 6" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,6,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8)	2,481.02	328.10
33 14 19 00-0110 EA 6" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,6,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8)	2,712.30	328.10
33 14 19 00-0111 EA 8" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,8,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8)	2,805.75	419.24
33 14 19 00-0112 EA 8" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,8,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8)	3,037.03	419.24
33 14 19 00-0113 EA 10" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,10,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8)	3,515.06	510.37
33 14 19 00-0114 EA 10" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,10,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8)	3,515.06	510.37
33 14 19 00-0115 EA 12" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,12,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8)	4,017.28	618.62
33 14 19 00-0116 EA 12" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,12,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8)	4,248.56	618.62
33 14 19 00-0117 EA 14" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,14,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD12)	5,497.64	875.85
33 14 19 00-0118 EA 14" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,14,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW12)	6,106.73	875.85
33 14 19 00-0119 EA 16" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,16,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD16)	6,388.16	963.44
33 14 19 00-0120 EA 16" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,16,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW20)	7,136.50	963.44
33 14 19 00-0121 EA 18" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,18,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD24)	7,990.78	1,068.54
33 14 19 00-0122 EA 18" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,18,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW24)	8,776.65	1,068.54
33 14 19 00-0123 EA 20" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,20,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD24)	9,044.43	1,204.30
33 14 19 00-0124 EA 20" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,20,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW24)	9,830.31	1,204.30
33 14 19 00-0125 EA 24" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S1,S304G0*MS-7-HD30)	14,920.38	1,478.00
33 14 19 00-0126 EA 24" Chainwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S1,S304G0*MS-7-CW20)	14,973.66	1,478.00
33 14 19 00-0127 EA 30" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,30,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24)	31,804.73	2,337.88



	Utilities	33	
	Water Utilities	33 10	CS
	Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0128 EA 36" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,36,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24)	37,467.45	3,117.17
33 14 19 00-0129 EA 42" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,42,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD32)	47,228.41	4,675.75
33 14 19 00-0130 EA 48" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,48,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR4L-HD24)	64,262.97	5,844.69
33 14 19 00-0131 Check Valves (33 14 19 00-0092)		
33 14 19 00-0132 Flanged, Swing Type Gravity Operated Check Valves (33 14 19 00-0131)		
Note: AWWA C508. Bronze disc facing. Mueller A-2600-6.		
33 14 19 00-0133 EA 2-1/2" Flanged, Swing Type Gravity Operated Check Valve	789.57	141.05
33 14 19 00-0134 EA 3" Flanged, Swing Type Gravity Operated Check Valve	819.68	165.38
33 14 19 00-0135 EA 4" Flanged, Swing Type Gravity Operated Check Valve	1,171.28	209.15
33 14 19 00-0136 EA 4" x 6" Flanged, Swing Type Gravity Operated Check Valve	1,576.73	314.69
33 14 19 00-0137 EA 4" x 8" Flanged, Swing Type Gravity Operated Check Valve	1,646.77	351.46
33 14 19 00-0138 EA 6" Flanged, Swing Type Gravity Operated Check Valve	1,576.07	350.20
33 14 19 00-0139 EA 6" x 8" Flanged, Swing Type Gravity Operated Check Valve	2,037.09	398.08
33 14 19 00-0140 EA 6" x 10" Flanged, Swing Type Gravity Operated Check Valve	2,136.76	447.48
33 14 19 00-0141 EA 8" Flanged, Swing Type Gravity Operated Check Valve	2,219.74	447.48
33 14 19 00-0142 EA 10" Flanged, Swing Type Gravity Operated Check Valve	3,666.38	544.76
33 14 19 00-0143 EA 12" Flanged, Swing Type Gravity Operated Check Valve	5,490.40	408.57
33 14 19 00-0144 EA 14" Flanged, Swing Type Gravity Operated Check Valve	7,704.66	875.85
33 14 19 00-0145 EA 16" Flanged, Swing Type Gravity Operated Check Valve	10,162.77	963.44
33 14 19 00-0146 EA 18" Flanged, Swing Type Gravity Operated Check Valve	14,604.17	1,068.54
33 14 19 00-0147 EA 20" Flanged, Swing Type Gravity Operated Check Valve	16,986.27	1,204.30
33 14 19 00-0148 Combination Air Release Valves (33 14 19 00-0092)		
33 14 19 00-0149 EA 1" Combination Air Release Valve	438.21	20.42
33 14 19 00-0150 EA 2" Combination Air Release Valve	708.35	35.02
33 14 19 00-0151 Corporation Stop And Curb Valve (33 14 19 00-0092)		
Note: AWWA C800		
33 14 19 00-0152 Ball Corporation Valves (33 14 19 00-0151)		
Note: Mueller B-25000.		
33 14 19 00-0153 EA 3/4" Ball Corporation Valve (Mueller B-25000)	75.78	20.42
33 14 19 00-0154 EA 1" Ball Corporation Valve (Mueller B-25000)	95.13	25.29
33 14 19 00-0155 EA 1-1/2" Ball Corporation Valve (Mueller B-25000)	169.20	36.97
33 14 19 00-0156 EA 2" Ball Corporation Valve (Mueller B-25000)	253.23	43.77
33 14 19 00-0157 Gate Valve, AWWA C500 And C509 (33 14 19 00-0092)		
33 14 19 00-0158 Gate Valve, Flanged (33 14 19 00-0157)		
Note: Mueller A-2380-6.		
33 14 19 00-0159 EA 2" Gate Valve, Flanged	507.81	129.67
33 14 19 00-0160 EA 2-1/2" Gate Valve, Flanged	589.63	141.05
33 14 19 00-0161 EA 3" Gate Valve, Flanged	696.82	165.38
33 14 19 00-0162 EA 4" Gate Valve, Flanged	961.78	207.20
33 14 19 00-0163 EA 6" Gate Valve, Flanged	1,171.05	350.20
33 14 19 00-0164 EA 8" Gate Valve, Flanged	1,699.34	447.48
33 14 19 00-0165 EA 10" Gate Valve, Flanged	2,498.03	544.76
33 14 19 00-0166 EA 12" Gate Valve, Flanged	3,011.01	408.57
33 14 19 00-0167 EA 14" Gate Valve, Flanged	6,334.34	875.85
33 14 19 00-0168 EA 16" Gate Valve, Flanged	8,205.85	963.44
33 14 19 00-0169 EA 18" Gate Valve, Flanged	12,796.00	1,068.54
33 14 19 00-0170 EA 20" Gate Valve, Flanged	15,269.45	1,204.30
33 14 19 00-0171 Resilient Wedge Gate Valve, Flanged (33 14 19 00-0157)		
Note: Mueller A-2360-6.		
33 14 19 00-0172 EA 2" Resilient Wedge Gate Valve, Flanged	488.26	129.67
33 14 19 00-0173 EA 2-1/2" Resilient Wedge Gate Valve, Flanged	566.27	141.05
33 14 19 00-0174 EA 3" Resilient Wedge Gate Valve, Flanged	669.09	165.38
33 14 19 00-0175 EA 4" Resilient Wedge Gate Valve, Flanged	930.79	207.20
33 14 19 00-0176 EA 6" Resilient Wedge Gate Valve, Flanged	1,129.62	350.20
33 14 19 00-0177 EA 8" Resilient Wedge Gate Valve, Flanged	1,634.62	447.48
33 14 19 00-0178 EA 10" Resilient Wedge Gate Valve, Flanged	2,395.19	544.76
33 14 19 00-0179 EA 12" Resilient Wedge Gate Valve, Flanged	2,886.84	408.57
33 14 19 00-0180 Gate Valve, Mechanical Joint (33 14 19 00-0157)		
Note: Mueller A-2380-20.		
33 14 19 00-0181 EA 2" Gate Valve, Mechanical Joint	601.58	103.60
33 14 19 00-0182 EA 2-1/2" Gate Valve, Mechanical Joint	664.53	129.86
33 14 19 00-0183 EA 3" Gate Valve, Mechanical Joint	830.58	157.10

33 Utilities
33 10 Water Utilities
33 14 Water Utility Transmission and Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0184 EA 4" Gate Valve, Mechanical Joint	1,005.05	207.20
33 14 19 00-0185 EA 6" Gate Valve, Mechanical Joint	1,250.95	243.20
33 14 19 00-0186 EA 8" Gate Valve, Mechanical Joint	1,773.12	291.83
33 14 19 00-0187 EA 10" Gate Valve, Mechanical Joint	2,529.42	340.47
33 14 19 00-0188 EA 12" Gate Valve, Mechanical Joint	3,153.53	408.57
33 14 19 00-0189 EA 14" Gate Valve, Mechanical Joint	6,701.14	536.45
33 14 19 00-0190 EA 16" Gate Valve, Mechanical Joint	8,604.05	602.15
33 14 19 00-0191 EA 18" Gate Valve, Mechanical Joint	13,509.31	667.84
33 14 19 00-0192 EA 20" Gate Valve, Mechanical Joint	16,039.02	752.69
33 14 19 00-0193 Resilient Wedge Gate Valve, Mechanical Joint <small>(33 14 19 00-0157)</small> Note: Mueller A-2360-20.		
33 14 19 00-0194 EA 2" Resilient Wedge Gate Valve, Mechanical Joint	579.26	103.60
33 14 19 00-0195 EA 3" Resilient Wedge Gate Valve, Mechanical Joint	801.35	157.10
33 14 19 00-0196 EA 4" Resilient Wedge Gate Valve, Mechanical Joint	971.61	207.20
33 14 19 00-0197 EA 6" Resilient Wedge Gate Valve, Mechanical Joint	1,207.68	243.20
33 14 19 00-0198 EA 8" Resilient Wedge Gate Valve, Mechanical Joint	1,705.80	291.83
33 14 19 00-0199 EA 10" Resilient Wedge Gate Valve, Mechanical Joint	2,424.79	340.47
33 14 19 00-0200 EA 12" Resilient Wedge Gate Valve, Mechanical Joint	3,021.26	408.57
33 14 19 00-0201 Resilient Wedge Gate Valve, Mechanical Joint X Flange Joint <small>(33 14 19 00-0157)</small> Note: Mueller A-2361.		
33 14 19 00-0202 EA 14" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	5,899.92	875.85
33 14 19 00-0203 EA 16" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	6,417.53	963.44
33 14 19 00-0204 EA 18" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	9,867.42	1,068.54
33 14 19 00-0205 EA 20" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	11,754.55	1,204.30
33 14 19 00-0206 EA 24" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	16,621.10	1,478.00
33 14 19 00-0207 Gate Valve, Threaded, WW-V-51 Class A, Type 1 <small>(33 14 19 00-0157)</small> Note: NIBCO T-113.		
33 14 19 00-0208 EA 1/4" Gate Valve, Bronze, Threaded	55.18	17.01
33 14 19 00-0209 EA 3/8" Gate Valve, Bronze, Threaded	56.79	17.01
33 14 19 00-0210 EA 1/2" Gate Valve, Bronze, Threaded	56.19	17.01
33 14 19 00-0211 EA 3/4" Gate Valve, Bronze, Threaded	72.26	22.97
33 14 19 00-0212 EA 1" Gate Valve, Bronze, Threaded	89.15	27.78
33 14 19 00-0213 EA 1-1/4" Gate Valve, Bronze, Threaded	121.36	35.17
33 14 19 00-0214 EA 1-1/2" Gate Valve, Bronze, Threaded	140.84	40.66
33 14 19 00-0215 EA 2" Gate Valve, Bronze, Threaded	171.00	47.54
33 14 19 00-0216 EA 2-1/2" Gate Valve, Bronze, Threaded	331.53	64.88
33 14 19 00-0217 EA 3" Gate Valve, Bronze, Threaded	397.63	74.42
33 14 19 00-0218 Globe Valve, AWWA <small>(33 14 19 00-0092)</small>		
33 14 19 00-0219 Globe Valve, Threaded, WW-V-51 Class B, Type 1 <small>(33 14 19 00-0218)</small> Note: NIBCO T-235.		
33 14 19 00-0220 EA 1/8" Globe Valve, Threaded	78.42	17.01
33 14 19 00-0221 EA 1/4" Globe Valve, Threaded	75.16	17.01
33 14 19 00-0222 EA 3/8" Globe Valve, Threaded	76.77	17.01
33 14 19 00-0223 EA 1/2" Globe Valve, Threaded	78.42	17.01
33 14 19 00-0224 EA 3/4" Globe Valve, Threaded	106.49	22.97
33 14 19 00-0225 EA 1" Globe Valve, Threaded	149.75	27.78
33 14 19 00-0226 EA 1-1/4" Globe Valve, Threaded	219.32	35.17
33 14 19 00-0227 EA 1-1/2" Globe Valve, Threaded	261.92	40.66
33 14 19 00-0228 EA 2" Globe Valve, Threaded	366.09	47.54
33 14 19 00-0229 EA 2-1/2" Globe Valve, Threaded	673.66	64.88
33 14 19 00-0230 EA 3" Globe Valve, Threaded	923.31	74.81
33 14 19 00-0231 Tapping Valve, AWWA C500 And C509 <small>(33 14 19 00-0092)</small>		
33 14 19 00-0232 Tapping Valve, AWWA C500 And C509 <small>(33 14 19 00-0231)</small> Note: Flanged inlet X mechanical joint, Mueller H-667.		
33 14 19 00-0233 EA 2" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	694.18	129.67
33 14 19 00-0234 EA 3" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	893.74	165.38
33 14 19 00-0235 EA 4" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	1,152.00	207.20
33 14 19 00-0236 EA 6" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	1,461.73	350.20
33 14 19 00-0237 EA 8" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	2,072.14	447.48
33 14 19 00-0238 EA 10" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	2,951.07	544.76
33 14 19 00-0239 EA 12" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	4,286.68	408.57
33 14 19 00-0240 EA 14" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	7,646.49	875.85
33 14 19 00-0241 EA 16" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	9,595.31	963.44
33 14 19 00-0242 EA 18" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	15,259.74	1,068.54
33 14 19 00-0243 Fire Hydrants <small>(33 14 19)</small> Note: Breakaway type.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 14 19 00-0244	Three Way, Standard (Traditional) Model Fire Hydrant <small>(33 14 19 00-0243)</small>	
	Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).	
33 14 19 00-0245	EA 1-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,536.09 255.18
33 14 19 00-0246	EA 2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,602.60 255.18
33 14 19 00-0247	EA 2-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,669.28 255.18
33 14 19 00-0248	EA 3" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,753.87 273.41
33 14 19 00-0249	EA 3-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,820.45 273.41
33 14 19 00-0250	EA 4" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,909.87 296.19
33 14 19 00-0251	EA 4-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,976.34 296.19
33 14 19 00-0252	EA 5" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,065.79 318.98
33 14 19 00-0253	EA 5-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,132.36 318.98
33 14 19 00-0254	EA 6" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,221.61 341.76
33 14 19 00-0255	EA 6-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,310.95 364.55
33 14 19 00-0256	EA 7" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,422.97 410.12
33 14 19 00-0257	EA 1-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,596.79 255.18
33 14 19 00-0258	EA 2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,683.10 255.18
33 14 19 00-0259	EA 2-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,769.20 255.18
33 14 19 00-0260	EA 3" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,873.53 273.41
33 14 19 00-0261	EA 3-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,959.63 273.41
33 14 19 00-0262	EA 4" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,068.83 296.19
33 14 19 00-0263	EA 4-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,154.82 296.19
33 14 19 00-0264	EA 5" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,263.80 318.98
33 14 19 00-0265	EA 5-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,349.88 318.98
33 14 19 00-0266	EA 6" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,458.61 341.76
33 14 19 00-0267	EA 6-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,567.71 364.55
33 14 19 00-0268	EA 7" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,699.23 410.12

33 14 19 00-0269	Two Way, Standard (Traditional) Model Fire Hydrant <small>(33 14 19 00-0243)</small>	
	Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).	
33 14 19 00-0270	EA 1-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,171.01 255.18
33 14 19 00-0271	EA 2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,237.29 255.18
33 14 19 00-0272	EA 2-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,303.95 255.18
33 14 19 00-0273	EA 3" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,388.82 273.41
33 14 19 00-0274	EA 3-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,455.18 273.41
33 14 19 00-0275	EA 4" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,544.45 296.19
33 14 19 00-0276	EA 4-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,611.02 296.19
33 14 19 00-0277	EA 5" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,700.53 318.98
33 14 19 00-0278	EA 5-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,766.96 318.98
33 14 19 00-0279	EA 6" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,856.57 341.76
33 14 19 00-0280	EA 6-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,945.49 364.55
33 14 19 00-0281	EA 7" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,057.65 410.12
33 14 19 00-0282	EA 1-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,264.77 255.18
33 14 19 00-0283	EA 2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,350.89 255.18
33 14 19 00-0284	EA 2-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,436.88 255.18
33 14 19 00-0285	EA 3" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,541.43 273.41
33 14 19 00-0286	EA 3-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,627.31 273.41
33 14 19 00-0287	EA 4" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,736.36 296.19
33 14 19 00-0288	EA 4-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,822.29 296.19
33 14 19 00-0289	EA 5" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,931.55 318.98
33 14 19 00-0290	EA 5-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,017.43 318.98
33 14 19 00-0291	EA 6" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,126.46 341.76
33 14 19 00-0292	EA 6-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,235.14 364.55
33 14 19 00-0293	EA 7" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,367.13 410.12

33 14 19 00-0294	Three Way, Modern Model Fire Hydrant <small>(33 14 19 00-0243)</small>	
	Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).	
33 14 19 00-0295	EA 1-1/2" Burial Section, Three Way, Modern Type Fire Hydrant	3,691.31 255.18
33 14 19 00-0296	EA 2" Burial Section, Three Way, Modern Type Fire Hydrant	3,777.30 255.18
33 14 19 00-0297	EA 2-1/2" Burial Section, Three Way, Modern Type Fire Hydrant	3,863.55 255.18
33 14 19 00-0298	EA 3" Burial Section, Three Way, Modern Type Fire Hydrant	3,967.93 273.41
33 14 19 00-0299	EA 3-1/2" Burial Section, Three Way, Modern Type Fire Hydrant	4,053.98 273.41
33 14 19 00-0300	EA 4" Burial Section, Three Way, Modern Type Fire Hydrant	4,162.86 296.19
33 14 19 00-0301	EA 4-1/2" Burial Section, Three Way, Modern Type Fire Hydrant	4,249.03 296.19
33 14 19 00-0302	EA 5" Burial Section, Three Way, Modern Type Fire Hydrant	4,357.94 318.98
33 14 19 00-0303	EA 5-1/2" Burial Section, Three Way, Modern Type Fire Hydrant	4,444.02 318.98
33 14 19 00-0304	EA 6" Burial Section, Three Way, Modern Type Fire Hydrant	4,552.90 318.98
33 14 19 00-0305	EA 6-1/2" Burial Section, Three Way, Modern Type Fire Hydrant	4,662.05 364.55
33 14 19 00-0306	EA 7" Burial Section, Three Way, Modern Type Fire Hydrant	4,792.67 364.55

33 14 19 00-0307	Two Way, Modern Model Fire Hydrant <small>(33 14 19 00-0243)</small>	
	Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).	
33 14 19 00-0308	EA 1-1/2" Burial Section, Two Way, Modern Type Fire Hydrant	2,613.05 255.18
33 14 19 00-0309	EA 2" Burial Section, Two Way, Modern Type Fire Hydrant	2,678.49 255.18
33 14 19 00-0310	EA 2-1/2" Burial Section, Two Way, Modern Type Fire Hydrant	2,744.66 255.18
33 14 19 00-0311	EA 3" Burial Section, Two Way, Modern Type Fire Hydrant	2,827.56 273.41
33 14 19 00-0312	EA 3-1/2" Burial Section, Two Way, Modern Type Fire Hydrant	2,892.98 273.41
33 14 19 00-0313	EA 4" Burial Section, Two Way, Modern Type Fire Hydrant	2,981.18 296.19
33 14 19 00-0314	EA 4-1/2" Burial Section, Two Way, Modern Type Fire Hydrant	3,046.58 296.19

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0315 EA 5' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,134.87	318.98
33 14 19 00-0316 EA 5-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,200.10	318.98
33 14 19 00-0317 EA 6' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,288.32	341.76
33 14 19 00-0318 EA 6-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,376.62	364.55
33 14 19 00-0319 EA 7' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,486.80	410.12
33 14 19 00-0320 Safetop Model With Breakable Section (33 14 19 00-0243)		
Note: Prices listed are for mechanical joint. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0321 EA 4" Safetop Model Fire Hydrant Breakable With 5' Burial Section.....	2,784.43	364.55
33 14 19 00-0322 EA 6" Safetop Model Fire Hydrant Breakable With 5' Burial Section.....	2,906.19	364.55
33 14 19 00-0323 EA 8" Safetop Model Fire Hydrant Breakable With 5' Burial Section.....	3,093.93	364.55
33 14 19 00-0324 Fire Hydrant Extension Kits (33 14 19 00-0243)		
33 14 19 00-0325 EA 6" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	538.34	22.78
33 14 19 00-0326 EA 12" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	638.67	28.48
33 14 19 00-0327 EA 18" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	694.48	34.18
33 14 19 00-0328 EA 24" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	787.10	42.15
33 14 19 00-0329 EA 30" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,202.16	43.86
33 14 19 00-0330 EA 36" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,284.85	45.57
33 14 19 00-0331 EA 42" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,303.30	47.85
33 14 19 00-0332 EA 48" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,376.07	51.26
33 14 19 00-0333 EA 54" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,513.64	61.52
33 14 19 00-0334 EA 60" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,591.05	74.05
33 14 19 00-0335 EA 6" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	599.06	25.52
33 14 19 00-0336 EA 12" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	708.17	30.99
33 14 19 00-0337 EA 18" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	811.59	37.36
33 14 19 00-0338 EA 24" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	904.23	46.48
33 14 19 00-0339 EA 30" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,248.65	48.31
33 14 19 00-0340 EA 36" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,332.33	50.12
33 14 19 00-0341 EA 42" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,389.09	52.86
33 14 19 00-0342 EA 48" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,628.24	56.50
33 14 19 00-0343 EA 54" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,780.51	67.44
33 14 19 00-0344 EA 60" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,863.69	81.11
33 14 19 00-0345 Removal And Reinstallation Of Standard Fire Hydrant (33 14 19 00-0243)		
Note: Includes all necessary fittings for resetting, storage and cleaning. Excludes excavation, backfill and thrust blocking around fire hydrant.		
33 14 19 00-0346 EA Up To 5' Burial Section, Removal And Reinstallation Of Fire Hydrant.....	729.09	
33 14 19 00-0347 EA >5' Burial Section, Removal And Reinstallation Of Fire Hydrant.....	1,063.26	
33 14 19 00-0348 EA Reset Fire Hydrant Upper Barrel.....	932.22	
Note: Includes Safety Repair Kit		
33 14 19 00-0349 Yard Hydrants (33 14 19)		
Note: With 3/4" hose thread outlet.		
33 14 19 00-0350 EA 2' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	343.91	31.69
33 14 19 00-0351 EA 4' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	370.07	31.69
33 14 19 00-0352 EA 6' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	396.23	31.69
33 14 19 00-0353 EA 2' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	263.43	40.14
33 14 19 00-0354 EA 4' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	274.63	40.14
33 14 19 00-0355 EA 6' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	285.84	40.14
33 14 19 00-0356 Sanitary Yard Hydrants (33 14 19)		
Note: With 3/4" hose thread outlet.		
33 14 19 00-0357 EA 2' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,578.35	66.02
33 14 19 00-0358 EA 4' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,660.12	66.02
33 14 19 00-0359 EA 6' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,741.88	66.02
33 14 19 00-0360 Flushing Hydrants (33 14 19)		
33 14 19 00-0361 EA 2" Inlet x 2-1/2" Outlet Steel Flushing Hydrant, 3' Bury Depth.....	628.03	40.98
33 14 23 Enclosures for Water Utility Piping and Valves (33 14)		
See CSI section 22 11 19 00-0449 for Enclosures.		
33 19 Water Utility Metering Equipment (33 10)		
33 19 13 Positive Displacement Water Meters (33 19)		
33 19 13 23 Nutating Disc Water Meters (33 19 13)		
33 19 13 23-0001 Bronze Disk Type Water Service Meters (33 19 13 23)		
33 19 13 23-0002 EA 5/8" Diameter, 0 To 20 GPM, Screwed, Disk Type, Bronze Water Supply Meter.....	298.88	54.93
33 19 13 23-0003 EA 3/4" Diameter, 0 To 30 GPM, Screwed, Disk Type, Bronze Water Supply Meter.....	376.05	65.49
33 19 13 23-0004 EA 1" Diameter, 0 To 50 GPM, Screwed, Disk Type, Bronze Water Supply Meter.....	506.28	74.99
33 19 13 23-0005 EA 1-1/2" Diameter, 0 To 100 GPM, Screwed, Disk Type, Bronze Water Supply Meter.....	988.39	111.97
33 19 13 23-0006 EA 2" Diameter, 0 To 160 GPM, Screwed, Disk Type, Bronze Water Supply Meter.....	1,339.76	145.77



	Utilities	33
	Water Utilities	33 10
	Water Utility Metering Equipment	33 19

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 19 13 23-007		Magnetic Driven, Positive Displacement Type Water Service Meters <small>(33 19 13 23)</small>		
33 19 13 23-0008	EA	5/8" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i) <i>For Owner Furnished Material, Deduct</i>	413.15 -357.55	54.93
33 19 13 23-0009	EA	3/4" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i) <i>For Owner Furnished Material, Deduct</i>	471.61 -405.59	65.49
33 19 13 23-0010	EA	1" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i) <i>For Owner Furnished Material, Deduct</i>	697.78 -622.33	74.99
33 19 13 23-0011	EA	1-1/2" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i) <i>For Owner Furnished Material, Deduct</i>	1,177.93 -1,065.56	111.97
33 19 13 23-0012	EA	2" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i) <i>For Owner Furnished Material, Deduct</i>	1,459.79 -1,313.08	145.77
33 19 13 23-0013	EA	Electronic Transmitter Note: For use with transmitting meter valve. <i>For Owner Furnished Material, Deduct</i>	331.12 -304.71	26.41
33 19 16		Velocity-Type Water Meters <small>(33 19)</small>		
33 19 16 23		Turbine Water Meters <small>(33 19 16)</small>		
33 19 16 23-0001		Flanged Turbine Water Service Meter <small>(33 19 16 23)</small>		
33 19 16 23-0002		Vertical Turbine Meters <small>(33 19 16 23-0001)</small>		
33 19 16 23-0003	EA	1-1/2" Diameter, 0 - 100 GPM Vertical Turbine Meter, Flanged.....	573.79	102.14
33 19 16 23-0004	EA	2" Diameter, 0 - 160 GPM Vertical Turbine Meter, Flanged.....	797.57	129.67
33 19 16 23-0005	EA	3" Diameter, 0 - 350 GPM Vertical Turbine Meter, Flanged.....	1,331.22	165.38
33 19 16 23-0006	EA	4" Diameter, 0 - 650 GPM Vertical Turbine Meter, Flanged.....	2,053.96	313.23
33 19 16 23-0007	EA	6" Diameter, 0 - 1,300 GPM Vertical Turbine Meter, Flanged.....	3,763.16	350.20
33 19 16 23-0008		Horizontal Turbine Meters <small>(33 19 16 23-0001)</small>		
33 19 16 23-0009	EA	1-1/2" Diameter, 0 - 120 GPM Horizontal Turbine Meter, Flanged.....	870.98	102.14
33 19 16 23-0010	EA	2" Diameter, 0 - 160 GPM Horizontal Turbine Meter, Flanged.....	1,221.85	129.67
33 19 16 23-0011	EA	3" Diameter, 0 - 600 GPM Horizontal Turbine Meter, Flanged.....	1,501.32	165.38
33 19 16 23-0012	EA	4" Diameter, 0 - 1,000 GPM Horizontal Turbine Meter, Flanged.....	2,278.81	313.23
33 19 16 23-0013	EA	6" Diameter, 0 - 2,000 GPM Horizontal Turbine Meter, Flanged.....	4,582.39	350.20
33 19 16 23-0014	EA	8" Diameter, 0 - 3,500 GPM Horizontal Turbine Meter, Flanged.....	6,130.16	447.48
33 19 16 23-0015	EA	10" Diameter, 0 - 5,500 GPM Horizontal Turbine Meter, Flanged.....	8,568.23	544.76
33 19 16 23-0016	EA	12" Diameter, 0 - 6,600 GPM Horizontal Turbine Meter, Flanged.....	11,032.15	1,099.25
33 19 19		Compound Water Meters <small>(33 19)</small>		
33 19 19 00-0001		Flanged Compound Type Water Service Meter <small>(33 19 19)</small>		
33 19 19 00-0002	EA	2" Diameter, 0 To 160 GPM, Flanged And Bronze, Compound Type Water Service Meter	2,240.51	129.67
33 19 19 00-0003	EA	3" Diameter, 0 To 320 GPM, Flanged And Bronze, Compound Type Water Service Meter	2,617.74	165.38
33 19 19 00-0004	EA	4" Diameter, 0 To 500 GPM, Flanged And Bronze, Compound Type Water Service Meter	4,398.24	313.23
33 19 19 00-0005	EA	6" Diameter, 0 To 1,000 GPM, Flanged And Bronze, Compound Type Water Service Meter	6,056.61	350.20
33 19 19 00-0006	EA	8" Diameter, 0 To 1,600 GPM, Flanged And Bronze, Compound Type Water Service Meter	12,482.60	447.48
33 19 19 00-0007	EA	10" Diameter, 0 To 2,500 GPM, Flanged And Bronze, Compound Type Water Service Meter	21,406.07	544.76
33 19 23		Magnetic Water Meters <small>(33 19)</small>		
33 19 23 00-0001		Flanged Electromagnetic Flow (EMF) Water Meter <small>(33 19 23)</small>		
33 19 23 00-0002	EA	2" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG)	6,069.96	129.67
33 19 23 00-0003	EA	3" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG)	8,389.73	165.38
33 19 23 00-0004	EA	4" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG)	9,650.55	313.23
33 30		Sanitary Sewerage Utilities <small>(33)</small>		
33 31		Sanitary Sewerage Piping <small>(33 30)</small>		
33 31 11		Public Sanitary Sewerage Gravity Piping <small>(33 31)</small>		
Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.				
33 31 11 00-0001		Cast Iron Service Saddles With U Bolt <small>(33 31 11)</small>		
33 31 11 00-0002	EA	2" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt.....	106.62	
33 31 11 00-0003	EA	3" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt.....	107.17	
33 31 11 00-0004	EA	3" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt.....	117.99	
33 31 11 00-0005	EA	4" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt.....	114.08	
33 31 11 00-0006	EA	4" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt	128.63	
33 31 11 00-0007	EA	4" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt	144.54	
33 31 11 00-0008	EA	4" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt	171.15	
33 31 11 00-0009	EA	6" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt	144.64	
33 31 11 00-0010	EA	6" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt	158.09	
33 31 11 00-0011	EA	6" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt	182.44	
33 31 11 00-0012	EA	2" Diameter x 2" Tapped Wye Cast Iron Service Saddle With U Bolt	148.22	

33	Utilities
33 30	Sanitary Sewerage Utilities
33 31	Sanitary Sewerage Piping



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0013	EA	4" Diameter x 1-1/2" Tapped Wye Cast Iron Service Saddle With U Bolt	117.14	
33 31 11 00-0014	EA	4" Diameter x 2" Tapped Wye Cast Iron Service Saddle With U Bolt.....	127.98	
33 31 11 00-0015	EA	4" Diameter x 3" Hub Wye Cast Iron Service Saddle With U Bolt	151.69	
33 31 11 00-0016	EA	4" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt	179.94	
33 31 11 00-0017	EA	6" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt	193.39	
33 31 11 00-0018		Plastic Sewer And Drain Piping (33 31 11)		
33 31 11 00-0019		Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe (33 31 11 00-0018)		
33 31 11 00-0020	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	7.89	3.60
33 31 11 00-0021	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	9.44	4.24
33 31 11 00-0022	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	12.24	5.14
33 31 11 00-0023	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	14.82	6.00
33 31 11 00-0024	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	18.88	6.98
33 31 11 00-0025	LF	8" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	23.91	8.11
33 31 11 00-0026	LF	10" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	29.61	8.40
33 31 11 00-0027	LF	12" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	36.22	8.70
33 31 11 00-0028		Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe (33 31 11 00-0018)		
Note: D-2729 PVC pipe.				
33 31 11 00-0029	LF	3" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	11.29	5.14
33 31 11 00-0030	LF	4" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	13.26	6.00
33 31 11 00-0031	LF	6" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	16.43	6.98
33 31 11 00-0032		Polyvinyl Chloride (PVC) Sewer And Drain Fittings (33 31 11 00-0018)		
33 31 11 00-0033		1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0034	EA	1-1/2" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	21.17	12.40
33 31 11 00-0035	EA	2" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	27.28	16.03
33 31 11 00-0036	EA	3" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	42.49	21.53
33 31 11 00-0037	EA	4" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	58.81	24.89
33 31 11 00-0038	EA	6" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	179.53	32.35
33 31 11 00-0039	EA	8" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	289.60	43.54
33 31 11 00-0040	EA	10" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	382.78	57.98
33 31 11 00-0041		1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0042	EA	1-1/2" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	21.77	12.40
33 31 11 00-0043	EA	2" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	27.23	16.03
33 31 11 00-0044	EA	3" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	41.60	21.53
33 31 11 00-0045	EA	4" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	54.46	24.89
33 31 11 00-0046	EA	6" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	168.45	32.35
33 31 11 00-0047	EA	8" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	263.84	43.54
33 31 11 00-0048	EA	10" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	307.00	57.98
33 31 11 00-0049	EA	12" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	449.01	77.22
33 31 11 00-0050		Long Sweep 1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0051	EA	1-1/2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	28.17	12.22
33 31 11 00-0052	EA	2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	31.43	16.03
33 31 11 00-0053	EA	3" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	53.90	22.00
33 31 11 00-0054	EA	4" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	81.34	26.85
33 31 11 00-0055	EA	6" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	139.62	31.04
33 31 11 00-0056	EA	8" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	227.76	35.42
33 31 11 00-0057	EA	10" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	356.89	41.29
33 31 11 00-0058	EA	12" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	526.55	48.13
33 31 11 00-0059		1/16 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0060	EA	1-1/2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	23.03	12.40
33 31 11 00-0061	EA	2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	28.51	16.03
33 31 11 00-0062	EA	3" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	45.30	21.53
33 31 11 00-0063	EA	4" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	61.33	24.89
33 31 11 00-0064	EA	6" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	216.40	32.35
33 31 11 00-0065	EA	8" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	343.27	43.54
33 31 11 00-0066	EA	10" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	395.01	57.98
33 31 11 00-0067	EA	12" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	419.68	77.22
33 31 11 00-0068		Reducers, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0069	EA	2" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	26.41	14.15
33 31 11 00-0070	EA	3" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	41.78	16.89
33 31 11 00-0071	EA	3" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	41.72	18.63
33 31 11 00-0072	EA	4" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	57.79	20.36
33 31 11 00-0073	EA	4" x 3" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	63.13	23.10
33 31 11 00-0074	EA	6" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	158.37	28.59
33 31 11 00-0075	EA	8" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	317.52	37.91



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0076	EA		10" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	104.57	41.39
33 31 11 00-0077	EA		10" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	133.97	45.15
33 31 11 00-0078	EA		10" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	132.92	50.70
33 31 11 00-0079	EA		12" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	342.95	54.80
33 31 11 00-0080	EA		12" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	364.30	60.36
33 31 11 00-0081	EA		12" x 10" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	388.86	67.60
33 31 11 00-0082			Sanitary Tees, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0083	EA		1-1/2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain	32.67	18.74
33 31 11 00-0084	EA		2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain	42.87	24.24
33 31 11 00-0085	EA		3" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain	65.52	31.97
33 31 11 00-0086	EA		4" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain	92.92	39.71
33 31 11 00-0087	EA		6" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain	259.52	43.54
33 31 11 00-0088	EA		8" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain	338.14	57.98
33 31 11 00-0089			Wyes, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0090	EA		1-1/2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	37.27	18.74
33 31 11 00-0091	EA		2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	45.54	24.24
33 31 11 00-0092	EA		3" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	68.93	31.97
33 31 11 00-0093	EA		4" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	98.51	39.71
33 31 11 00-0094	EA		6" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	238.54	43.54
33 31 11 00-0095	EA		8" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	298.29	57.98
33 31 11 00-0096	EA		10" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	393.25	77.37
33 31 11 00-0097	EA		12" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	605.06	103.25
33 31 11 00-0098			Reducing Wyes, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0099	EA		2" x 1-1/2" x 1-1/2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain	44.50	18.74
33 31 11 00-0100	EA		2" x 2" x 1" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain	52.57	24.24
33 31 11 00-0101	EA		3" x 3" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain	64.18	31.97
33 31 11 00-0102	EA		4" x 4" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain	90.84	39.71
33 31 11 00-0103	EA		4" x 4" x 3" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain	96.09	39.71
33 31 11 00-0104			Double Wyes, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0105	EA		1-1/2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	55.88	24.24
33 31 11 00-0106	EA		2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	73.19	31.97
33 31 11 00-0107	EA		3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	129.77	43.16
33 31 11 00-0108	EA		4" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	210.23	52.20
33 31 11 00-0109	EA		2" x 2" x 1-1/2" x 1-1/2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	71.01	31.97
33 31 11 00-0110	EA		3" x 3" x 2" x 2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	113.14	43.16
33 31 11 00-0111	EA		4" x 4" x 3" x 3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	182.77	52.20
33 31 11 00-0112			Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0113	EA		1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	43.01	18.74
33 31 11 00-0114	EA		2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	54.50	24.24
33 31 11 00-0115	EA		3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	95.85	31.97
33 31 11 00-0116	EA		4" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	158.87	39.71
33 31 11 00-0117	EA		2" x 2" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	73.99	24.24
33 31 11 00-0118	EA		3" x 3" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	113.50	31.97
33 31 11 00-0119	EA		3" x 3" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	88.94	31.97
33 31 11 00-0120	EA		4" x 4" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	150.60	39.71
33 31 11 00-0121	EA		4" x 4" x 3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	158.17	39.71
33 31 11 00-0122			Double Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0123	EA		1-1/2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	60.34	24.24
33 31 11 00-0124	EA		2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	73.68	31.97
33 31 11 00-0125	EA		3" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	109.33	43.16
33 31 11 00-0126	EA		4" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	313.45	52.20
33 31 11 00-0127	EA		6" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	940.33	57.79
33 31 11 00-0128			Cleanout Tees With Plug, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0129	EA		4" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	294.01	98.97
33 31 11 00-0130	EA		6" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	614.39	127.69
33 31 11 00-0131	EA		8" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	796.48	179.94
33 31 11 00-0132	EA		10" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	1,132.52	289.45
33 31 11 00-0133			Couplings, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0032)</small>		
33 31 11 00-0134	EA		1-1/2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	20.89	12.40
33 31 11 00-0135	EA		2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	26.38	15.94

33	Utilities
33 30	Sanitary Sewerage Utilities
33 31	Sanitary Sewerage Piping



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0136 EA 3" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain.....	38.52	21.35
33 31 11 00-0137 EA 4" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain.....	47.89	24.89
33 31 11 00-0138 EA 6" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain.....	107.05	32.35
33 31 11 00-0139 EA 8" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain.....	234.23	43.54
33 31 11 00-0140 EA 10" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain.....	348.85	57.98
33 31 11 00-0141 EA 12" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain.....	562.02	77.22
33 31 11 00-0142 Adapters, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0143 EA 4" Male, Plastic Pipe x Malleable Iron Pipe Adapter, Drain And Sewer Fitting.....	109.57	68.29
33 31 11 00-0144 EA 2" x 3" x 3" Downspout Adapter, Drain And Sewer Fitting.....	80.26	51.95
33 31 11 00-0145 EA 2" x 3" x 4" Downspout Adapter, Drain And Sewer Fitting.....	81.31	51.95
33 31 11 00-0146 EA 3" x 4" x 4" Downspout Adapter, Drain And Sewer Fitting.....	84.09	51.95
33 31 11 00-0147 EA 4" Hub, Cast Iron Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting.....	110.33	68.29
33 31 11 00-0148 EA 4" Spigot, Clay Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting.....	108.11	68.29
33 31 11 00-0149 EA 4" Spigot, Fiberglass Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting.....	104.45	68.29
33 31 11 00-0150 EA 4" Drain Grate, Drain And Sewer Fitting.....	55.32	35.12
33 31 11 00-0151 Caps, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0152 EA 3" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting.....	26.39	13.33
33 31 11 00-0153 EA 4" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting.....	39.29	16.59
33 31 11 00-0154 EA 6" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting.....	66.65	21.44
33 31 11 00-0155 Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0156 EA 1-1/2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	19.87	12.40
33 31 11 00-0157 EA 2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	25.75	16.03
33 31 11 00-0158 EA 3" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	36.47	21.53
33 31 11 00-0159 EA 4" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	45.22	24.89
33 31 11 00-0160 EA 6" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	69.50	32.35
33 31 11 00-0161 EA 8" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	200.07	43.54
33 31 11 00-0162 Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe (33 31 11 00-0018)		
Note: ASTM 3034.		
33 31 11 00-0163 LF 4" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	14.98	6.00
33 31 11 00-0164 LF 6" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	19.65	6.98
33 31 11 00-0165 LF 8" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	25.91	8.11
33 31 11 00-0166 LF 10" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	31.32	8.40
33 31 11 00-0167 LF 12" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	37.82	8.70
33 31 11 00-0168 LF 15" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	48.67	9.00
33 31 11 00-0169 LF 18" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	61.05	9.33
33 31 11 00-0170 LF 21" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	78.73	10.13
33 31 11 00-0171 LF 24" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	95.08	10.93
33 31 11 00-0172 LF 27" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	118.01	12.82
33 31 11 00-0173 Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe (33 31 11 00-0018)		
Note: ASTM 3034.		
33 31 11 00-0174 LF 4" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....	14.35	6.00
33 31 11 00-0175 LF 6" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....	18.67	6.98
33 31 11 00-0176 LF 8" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....	24.48	8.11
33 31 11 00-0177 Gasketed SDR 35 Polyvinyl Chloride (PVC) Fittings (33 31 11 00-0018)		
Note: ASTM 3034.		
33 31 11 00-0178 1/4 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)		
33 31 11 00-0179 EA 4" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	66.52	22.66
33 31 11 00-0180 EA 6" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	96.78	26.35
33 31 11 00-0181 EA 8" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	196.28	29.86
33 31 11 00-0182 EA 10" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	550.41	35.13
33 31 11 00-0183 EA 12" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	711.10	44.79
33 31 11 00-0184 1/8 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)		
33 31 11 00-0185 EA 4" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	60.61	22.66
33 31 11 00-0186 EA 6" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	90.27	26.35
33 31 11 00-0187 EA 8" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	179.81	29.86
33 31 11 00-0188 EA 10" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	395.32	35.13
33 31 11 00-0189 EA 12" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	563.63	44.79
33 31 11 00-0190 EA 15" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,200.33	63.23
33 31 11 00-0191 EA 18" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,901.82	89.58
33 31 11 00-0192 EA 21" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	3,165.65	118.55
33 31 11 00-0193 EA 24" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	4,315.55	158.07
33 31 11 00-0194 Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)		
33 31 11 00-0195 EA 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	100.60	33.99



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				33 31 11 00-0196 EA 6" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	157.93	37.67
				33 31 11 00-0197 EA 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	176.81	39.51
				33 31 11 00-0198 EA 8" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	194.65	41.36
				33 31 11 00-0199 EA 8" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	221.93	43.20
				33 31 11 00-0200 EA 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	416.21	45.05
				33 31 11 00-0201 EA 10" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	530.35	46.10
				33 31 11 00-0202 EA 10" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	600.16	48.30
				33 31 11 00-0203 EA 10" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	881.24	50.14
				33 31 11 00-0204 EA 10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,145.63	52.69
				33 31 11 00-0205 EA 12" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	652.43	56.12
				33 31 11 00-0206 EA 12" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	692.23	57.96
				33 31 11 00-0207 EA 12" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	982.38	59.81
				33 31 11 00-0208 EA 12" x 10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,411.39	62.35
				33 31 11 00-0209 EA 12" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,589.83	67.18
33 31 11 00-0210				Wyes, Gasketed SDR 35 Polyvinyl Chloride (PVC) <small>(33 31 11 00-0177)</small>		
				33 31 11 00-0211 EA 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	96.02	33.99
				33 31 11 00-0212 EA 6" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	142.66	37.67
				33 31 11 00-0213 EA 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	156.29	39.51
				33 31 11 00-0214 EA 8" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	188.10	41.36
				33 31 11 00-0215 EA 8" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	214.12	43.20
				33 31 11 00-0216 EA 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	322.85	45.05
				33 31 11 00-0217 EA 10" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	486.10	46.46
				33 31 11 00-0218 EA 10" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	496.08	48.30
				33 31 11 00-0219 EA 10" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	741.10	50.14
				33 31 11 00-0220 EA 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	819.42	52.69
				33 31 11 00-0221 EA 12" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	615.43	56.12
				33 31 11 00-0222 EA 12" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	634.78	57.96
				33 31 11 00-0223 EA 12" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	903.63	59.81
				33 31 11 00-0224 EA 12" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,086.57	62.35
				33 31 11 00-0225 EA 12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,135.01	67.18
				33 31 11 00-0226 EA 15" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,398.31	80.80
				33 31 11 00-0227 EA 15" x 12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,550.40	85.63
				33 31 11 00-0228 EA 15" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,935.56	94.84
33 31 11 00-0229				Couplings, Gasketed SDR 35 Polyvinyl Chloride (PVC) <small>(33 31 11 00-0177)</small>		
				33 31 11 00-0230 EA 4" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	66.00	22.66
				33 31 11 00-0231 EA 6" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	100.27	26.35
				33 31 11 00-0232 EA 8" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	145.77	30.03
				33 31 11 00-0233 EA 10" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	271.00	35.13
				33 31 11 00-0234 EA 12" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	383.31	44.79
				33 31 11 00-0235 EA 15" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	744.01	63.23
				33 31 11 00-0236 EA 18" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,392.46	89.58
				33 31 11 00-0237 EA 21" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	2,316.25	118.55
				33 31 11 00-0238 EA 24" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	3,349.88	158.07
33 31 11 00-0239				Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) <small>(33 31 11 00-0177)</small>		
				33 31 11 00-0240 EA 6" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	121.84	24.50
				33 31 11 00-0241 EA 8" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	172.52	26.35
				33 31 11 00-0242 EA 8" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	182.02	28.18
				33 31 11 00-0243 EA 10" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	402.30	30.73
				33 31 11 00-0244 EA 10" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	461.72	32.58
				33 31 11 00-0245 EA 12" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	515.71	35.56
				33 31 11 00-0246 EA 12" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	591.09	37.41
				33 31 11 00-0247 EA 12" x 10" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	677.05	39.96
				33 31 11 00-0248 EA 15" x 12" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,017.90	54.00
33 31 11 00-0249				Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) <small>(33 31 11 00-0177)</small>		
				33 31 11 00-0250 EA 6" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	102.25	
				33 31 11 00-0251 EA 8" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	134.31	
				33 31 11 00-0252 EA 8" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	137.14	
				33 31 11 00-0253 EA 10" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	223.33	
				33 31 11 00-0254 EA 10" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	235.18	
				33 31 11 00-0255 EA 10" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	438.98	
				33 31 11 00-0256 EA 12" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	255.04	
				33 31 11 00-0257 EA 12" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	277.24	
				33 31 11 00-0258 EA 12" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	606.27	
				33 31 11 00-0259 EA 12" x 10" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	713.20	
				33 31 11 00-0260 EA 15" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	295.48	
				33 31 11 00-0261 EA 15" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	314.86	
33 31 11 00-0262				Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) <small>(33 31 11 00-0177)</small>		
				33 31 11 00-0263 EA 6" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	108.89	

33	Utilities
33 30	Sanitary Sewerage Utilities
33 31	Sanitary Sewerage Piping



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 31 11 00-0264	EA		8" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	134.31	
33 31 11 00-0265	EA		8" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	146.17	
33 31 11 00-0266	EA		10" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	205.76	
33 31 11 00-0267	EA		10" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	233.76	
33 31 11 00-0268	EA		10" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	350.52	
33 31 11 00-0269	EA		12" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	253.63	
33 31 11 00-0270	EA		12" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	275.90	
33 31 11 00-0271	EA		12" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	408.21	
33 31 11 00-0272	EA		12" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	494.57	
33 31 11 00-0273	EA		15" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	294.61	
33 31 11 00-0274	EA		15" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	308.29	
33 31 11 00-0275	EA		15" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	503.93	
33 31 11 00-0276	EA		15" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	556.04	
33 31 11 00-0277	EA		15" x 12" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	780.01	

33 31 11 00-0278 Couplings And Plug Fittings (33 31 11)

33 31 11 00-0279 Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC)

Flexible Pipe Couplings (33 31 11 00-0279)

Note: For cast iron or plastic to cast iron to plastic pipe. Includes stainless steel clamps.

33 31 11 00-0280	EA		1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150).....	20.70	6.47
33 31 11 00-0281	EA		2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22).....	22.51	7.54
33 31 11 00-0282	EA		3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33).....	26.54	8.62
33 31 11 00-0283	EA		4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44).....	30.50	9.17
33 31 11 00-0284	EA		5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55).....	38.85	9.70
33 31 11 00-0285	EA		6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66).....	47.24	10.78
33 31 11 00-0286	EA		8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88).....	62.60	11.86
33 31 11 00-0287	EA		10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010).....	79.56	12.40
33 31 11 00-0288	EA		12" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1212).....	139.89	12.94
33 31 11 00-0289	EA		15" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1515).....	195.10	14.02
33 31 11 00-0290	EA		18" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1818).....	390.45	14.55
33 31 11 00-0291	EA		21" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2121).....	455.53	15.37
33 31 11 00-0292	EA		24" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2424).....	505.71	16.18
33 31 11 00-0293	EA		27" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2727).....	607.69	17.26

33 32 Sanitary Sewerage Equipment (33 30)

33 32 16 Packaged Wastewater Grinder Pump Assemblies (33 32)

33 32 16 00-0001 Submersible Grinder Pumps, Cast Iron With Bronze Impeller (33 32 16)

33 32 16 00-0002	EA		2 HP Submersible Grinder Pump, 200/208, 230 Volt, 1 Phase, 3450 RPM, 1-1/2" Threaded Discharge.....	2,123.42	319.19
			Note: Zoeller 840 series.		
33 32 16 00-0003	EA		2 HP Submersible Grinder Pump, 200/208, 230, 460 Volt, 3 Phase, 3450 RPM, 1-1/2" Threaded Discharge.....	2,092.72	319.19
			Note: Zoeller 840 series.		
33 32 16 00-0004	EA		Simplex Control Panel With Auto Reversing Switch.....	1,009.84	106.36
			Note: For Zoeller 840 series grinder pump.		
33 32 16 00-0005	EA		Duplex Control Panel With Auto Reversing Switch.....	1,580.33	106.36
			Note: For Zoeller 840 series grinder pump.		
33 32 16 00-0006	EA		Grinder Pump, 120 Gallon Sewage Basin, 1 HP, 120 V (Environment One 2012-74).....	9,610.15	

33 32 16 00-0007 Submersible Grinder Pumps (33 32 16)

Note: Includes 50' of cord with pumps unless otherwise noted.

33 32 16 00-0008	EA		2 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof.....	3,685.46	637.61
33 32 16 00-0009	EA		3 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof.....	5,549.79	743.87
33 32 16 00-0010	EA		5 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof.....	6,787.21	956.40

33 34 Onsite Wastewater Disposal (33 30)

Note: Excludes distribution field piping, trenching or excavation.

33 34 13 Septic Tanks (33 34)

33 34 13 13 Concrete Septic Tanks (33 34 13)

33 34 13 13-0001 Precast Concrete Septic Tank (33 34 13 13)

Note: Includes external coating.

33 34 13 13-0002	EA		1,000 Gallon Precast Septic Tank.....	3,041.49	637.61
			For Non-Traffic Rated, Deduct	-564.62	
33 34 13 13-0003	EA		1,250 Gallon Precast Septic Tank.....	3,643.03	703.80
			For Non-Traffic Rated, Deduct	-694.73	
33 34 13 13-0004	EA		1,500 Gallon Precast Septic Tank.....	4,221.88	769.90
			For Non-Traffic Rated, Deduct	-819.16	
33 34 13 13-0005	EA		2,000 Gallon Precast Septic Tank.....	5,389.19	836.85
			For Non-Traffic Rated, Deduct	-1,091.17	
33 34 13 13-0006	EA		2,500 Gallon Precast Septic Tank.....	6,452.12	1,155.66
			For Non-Traffic Rated, Deduct	-1,259.54	
33 34 13 13-0007	EA		4,000 Gallon Precast Septic Tank.....	16,870.94	1,594.01
			For Non-Traffic Rated, Deduct	-3,728.91	
33 34 13 13-0008	EA		5,000 Gallon Precast Septic Tank.....	30,577.89	2,391.01
			For Non-Traffic Rated, Deduct	-6,913.32	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 34 13 13-0009 EA 7,500 Gallon Precast Septic Tank..... <i>For Non-Traffic Rated, Deduct</i>	34,411.40 -7,584.46	3,347.41
33 34 13 13-0010 EA 10,000 Gallon Precast Septic Tank..... <i>For Non-Traffic Rated, Deduct</i>	42,178.25 -9,322.49	4,005.00
33 34 13 13-0011 EA 12,500 Gallon Precast Septic Tank..... <i>For Non-Traffic Rated, Deduct</i>	49,895.47 -10,946.28	4,961.39
 33 34 13 23 Fiberglass Septic Tank (33 34 13)		
33 34 13 23-0001 Fiberglass Septic Tank (33 34 13 23)		
33 34 13 23-0002 EA 1,000 Gallon Fiberglass Septic Tank	1,643.17	478.20
33 34 13 23-0003 EA 1,250 Gallon Fiberglass Septic Tank	2,002.16	637.61
33 34 13 23-0004 EA 1,500 Gallon Fiberglass Septic Tank	2,162.29	577.88
33 34 13 23-0005 EA 2,000 Gallon Fiberglass Septic Tank	3,303.94	625.60
33 34 13 23-0006 EA 2,500 Gallon Fiberglass Septic Tank	4,222.24	867.14
33 34 13 23-0007 EA 4,000 Gallon Fiberglass Septic Tank	6,533.72	1,195.50
33 34 13 23-0008 EA 5,000 Gallon Fiberglass Septic Tank	9,718.18	1,793.26
33 34 13 23-0009 EA 7,500 Gallon Fiberglass Septic Tank	13,360.29	2,510.56
33 34 13 23-0010 EA 10,000 Gallon Fiberglass Septic Tank	16,342.87	3,000.66
 33 34 13 33 Polyethylene Septic Tank (33 34 13)		
33 34 13 33-0001 High Density Polyethylene (HDPE) Septic Tank (33 34 13 33)		
33 34 13 33-0002 EA 300 Gallon One Compartment One Manhole High Density Polyethylene (HDPE) Septic Tank	983.14	194.56
33 34 13 33-0003 EA 500 Gallon One Compartment One Manhole High Density Polyethylene (HDPE) Septic Tank	1,487.38	218.88
33 34 13 33-0004 EA 900 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank	2,056.03	267.52
33 34 13 33-0005 EA 1,000 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank	2,116.93	291.83
33 34 13 33-0006 EA 1,250 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank	2,445.94	316.16
33 34 13 33-0007 EA 1,500 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank	2,922.14	340.47
33 34 13 33-0008 EA 750 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank	2,061.71	243.20
33 34 13 33-0009 EA 1,000 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank	2,257.12	291.83
33 34 13 33-0010 EA 1,250 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank	2,645.70	316.16
33 34 13 33-0011 EA 1,500 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank	3,097.37	340.47
 33 34 51 Drainage Field System (33 34)		
33 34 51 00-0001 Leaching Pit - Precast Concrete (33 34 51)		
Note: Includes external coating.		
33 34 51 00-0002 EA 3' Diameter, 3' High, Precast Concrete Leaching Pit	987.43	93.51
33 34 51 00-0003 EA 4' Diameter, 3' High, Precast Concrete Leaching Pit	1,405.39	132.84
33 34 51 00-0004 EA 6' Diameter, 3' High, Precast Concrete Leaching Pit	1,871.82	159.40
33 34 51 00-0005 EA 8' Diameter, 4' High, Precast Concrete Leaching Pit	3,037.98	265.67
33 34 51 00-0006 EA 10' Diameter, 4' High, Precast Concrete Leaching Pit	4,457.43	371.93
 33 34 53 Distribution Chambers (33 34)		
33 34 53 13 Drainage Field Concrete Distribution Chambers (33 34 53)		
33 34 53 13-0001 Concrete Distribution Boxes (33 34 53 13)		
Note: Includes internal and external coating.		
33 34 53 13-0002 EA 3 Outlet Concrete Distribution Box.....	278.05	68.06
33 34 53 13-0003 EA 5 Outlet Concrete Distribution Box.....	324.56	81.67
33 34 53 13-0004 EA 8 Outlet Concrete Distribution Box.....	549.79	95.28
33 34 53 13-0005 EA 12 Outlet Concrete Distribution Box.....	1,076.66	163.35
 33 34 53 13-0006 Leaching Field Chambers - Precast Concrete (33 34 53 13)		
33 34 53 13-0007 EA Standard Leaching Field Chamber 13' x 3'-7" x 1'-4"	1,189.67	80.07
33 34 53 13-0008 EA Heavy Duty Leaching Field Chamber 13' x 3'-9" x 1'-6"	1,441.02	109.19
 33 34 56 Drainage Field Dosing Chambers (33 34)		
33 34 56 00-0001 Dosing Siphon (33 34 56)		
33 34 56 00-0002 EA Dosing Siphon With Electrical Connection And Solenoid Valve.....	4,155.84	
33 34 56 00-0003 EA Solar Power Control For Dosing Siphon	2,843.66	
33 34 56 00-0004 EA Electrical Power Control For Dosing Siphon	2,732.94	
 33 40 Stormwater Utilities (33)		
33 41 Subdrainage (33 40)		
33 41 16 Subdrainage Piping (33 41)		
33 41 16 13 Subdrainage Piping (33 41 16)		
See CSI section 33 42 11 00-0239 for polyethylene drain pipe.		
33 41 16 13-0001 Corrugated High Density Polyethylene (HDPE) Drainage Piping (33 41 16 13)		



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 41 16 13-0002	Single Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 41 16 13-0001)</small> Note: Excludes couplings and gaskets.		
33 41 16 13-0003	Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 41 16 13-0002)</small>		
33 41 16 13-0004	LF 4" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	4.86	4.23
	For <100, Add	0.88	
	For >1,000, Deduct	-0.45	
33 41 16 13-0005	LF 6" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	5.93	4.53
	For <100, Add	0.98	
	For >1,000, Deduct	-0.52	
33 41 16 13-0006	LF 8" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	7.23	4.75
	For <100, Add	1.07	
	For >1,000, Deduct	-0.60	
33 41 16 13-0007	LF 10" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	9.48	4.90
	For <100, Add	1.21	
	For >1,000, Deduct	-0.72	
33 41 16 13-0008	LF 12" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	11.06	5.35
	For <100, Add	1.36	
	For >1,000, Deduct	-0.82	
33 41 16 13-0009	LF 15" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	14.35	6.04
	For <100, Add	1.62	
	For >1,000, Deduct	-1.02	
33 41 16 13-0010	LF 18" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	23.17	10.16
	For <100, Add	2.68	
	For >1,000, Deduct	-1.67	
33 41 16 13-0011	LF 24" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	31.47	11.16
	For <100, Add	3.25	
	For >1,000, Deduct	-2.13	
33 41 16 13-0012	Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 41 16 13-0002)</small>		
33 41 16 13-0013	LF 4" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	4.77	4.23
	For <100, Add	0.87	
	For >1,000, Deduct	-0.45	
33 41 16 13-0014	LF 6" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	5.89	4.53
	For <100, Add	0.97	
	For >1,000, Deduct	-0.52	
33 41 16 13-0015	LF 8" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	8.93	4.75
	For <100, Add	1.16	
	For >1,000, Deduct	-0.68	
33 41 16 13-0016	LF 10" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	10.37	4.90
	For <100, Add	1.25	
	For >1,000, Deduct	-0.76	
33 41 16 13-0017	LF 12" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	12.04	5.35
	For <100, Add	1.40	
	For >1,000, Deduct	-0.87	
33 41 16 13-0018	LF 15" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	14.25	6.04
	For <100, Add	1.62	
	For >1,000, Deduct	-1.01	
33 41 16 13-0019	LF 18" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	22.52	10.16
	For <100, Add	2.65	
	For >1,000, Deduct	-1.63	
33 41 16 13-0020	LF 24" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	30.45	11.16
	For <100, Add	3.20	
	For >1,000, Deduct	-2.08	
33 41 16 13-0021	Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe Fittings <small>(33 41 16 13-0001)</small> Note: Excludes couplings and gaskets.		
33 41 16 13-0022	Tees, Single Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 41 16 13-0021)</small>		
33 41 16 13-0023	EA 4" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	38.02	21.08
33 41 16 13-0024	EA 6" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	45.13	24.60
33 41 16 13-0025	EA 8" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	71.20	29.87
33 41 16 13-0026	EA 10" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	91.11	36.90
33 41 16 13-0027	EA 12" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	133.05	43.94
33 41 16 13-0028	EA 15" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	281.21	57.41
33 41 16 13-0029	EA 18" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	338.03	77.32
33 41 16 13-0030	EA 24" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	627.71	87.86
33 41 16 13-0031	Wyes, Single Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 41 16 13-0021)</small>		
33 41 16 13-0032	EA 4" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE).....	38.97	21.08
33 41 16 13-0033	EA 6" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE).....	48.25	24.60
33 41 16 13-0034	EA 8" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE).....	103.87	29.87
33 41 16 13-0035	45 Degree Bends, Single Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 41 16 13-0021)</small>		
33 41 16 13-0036	EA 4" 45 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	25.68	14.06



Utilities	33	33
Stormwater Utilities	33 40	
Subdrainage	33 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0037 90 Degree Bends, Single Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 41 16 13-0021)</small>		
33 41 16 13-0038 EA 4" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	26.68	14.06
33 41 16 13-0039 EA 6" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	34.12	16.40
33 41 16 13-0040 EA 8" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	49.80	19.92
33 41 16 13-0041 EA 10" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	65.29	24.60
33 41 16 13-0042 Perforated Polyvinyl Chloride (PVC) Drainage Piping, D2729 <small>(33 41 16 13)</small>		
Note: Includes fittings, couplings, elbows, etc.		
33 41 16 13-0043 LF 3" Perforated Polyvinyl Chloride (PVC) Drainage Piping	5.67	3.60
For <100, Add	0.82	
For >1,000, Deduct	-0.46	
33 41 16 13-0044 LF 4" Perforated Polyvinyl Chloride (PVC) Drainage Piping	6.19	3.89
For <100, Add	0.89	
For >1,000, Deduct	-0.50	
33 41 16 13-0045 LF 6" Perforated Polyvinyl Chloride (PVC) Drainage Piping	8.61	4.66
For <100, Add	1.13	
For >1,000, Deduct	-0.66	
33 41 16 13-0046 LF 8" Perforated Polyvinyl Chloride (PVC) Drainage Piping	13.21	5.83
For <100, Add	1.54	
For >1,000, Deduct	-0.95	
33 41 16 13-0047 LF 10" Perforated Polyvinyl Chloride (PVC) Drainage Piping	20.83	6.07
For <100, Add	1.95	
For >1,000, Deduct	-1.35	
33 41 16 13-0048 LF 12" Perforated Polyvinyl Chloride (PVC) Drainage Piping	26.38	6.62
For <100, Add	2.31	
For >1,000, Deduct	-1.65	
33 41 16 13-0049 LF 15" Perforated Polyvinyl Chloride (PVC) Drainage Piping	38.13	7.46
For <100, Add	3.03	
For >1,000, Deduct	-2.28	
33 41 16 13-0050 Perforated Non Reinforced Concrete Drainage Piping, C444 <small>(33 41 16 13)</small>		
33 41 16 13-0051 LF 6" Perforated Non Reinforced Concrete Drainage Pipe.....	28.18	10.70
For Extra Strength, Add	1.52	
For >1,000, Deduct	-1.41	
33 41 16 13-0052 LF 8" Perforated Non Reinforced Concrete Drainage Pipe.....	32.89	11.88
For Extra Strength, Add	1.87	
For >1,000, Deduct	-1.64	
33 41 16 13-0053 LF 10" Perforated Non Reinforced Concrete Drainage Pipe.....	37.19	13.07
For Extra Strength, Add	2.17	
For >1,000, Deduct	-1.86	
33 41 16 13-0054 LF 12" Perforated Non Reinforced Concrete Drainage Pipe.....	43.58	14.26
For Extra Strength, Add	2.73	
For >1,000, Deduct	-2.18	
33 41 16 13-0055 Extra Strength Porous Non Reinforced Concrete Drainage Piping, C654 <small>(33 41 16 13)</small>		
Note: Bell and spigot or tongue and groove. With seals and gaskets.		
33 41 16 13-0056 LF 6" Extra Strength Porous Non Reinforced Concrete Drainage Pipe.....	23.48	10.70
For >1,000, Deduct	-1.17	
33 41 16 13-0057 LF 8" Extra Strength Porous Non Reinforced Concrete Drainage Pipe.....	25.99	11.88
For >1,000, Deduct	-1.30	
33 41 16 13-0058 LF 10" Extra Strength Porous Non Reinforced Concrete Drainage Pipe.....	28.67	13.07
For >1,000, Deduct	-1.43	
33 41 16 13-0059 LF 12" Extra Strength Porous Non Reinforced Concrete Drainage Pipe.....	32.68	13.59
For >1,000, Deduct	-1.63	
33 41 16 13-0060 LF 15" Extra Strength Porous Non Reinforced Concrete Drainage Pipe.....	37.92	15.28
For >1,000, Deduct	-1.90	
33 41 16 13-0061 LF 18" Extra Strength Porous Non Reinforced Concrete Drainage Pipe.....	46.93	19.53
For >1,000, Deduct	-2.35	
33 41 16 13-0062 LF 21" Extra Strength Porous Non Reinforced Concrete Drainage Pipe.....	58.65	25.05
For >1,000, Deduct	-2.93	
33 41 16 13-0063 LF 24" Extra Strength Porous Non Reinforced Concrete Drainage Pipe.....	71.50	30.57
For >1,000, Deduct	-3.58	
33 41 16 13-0064 Standard Strength Porous Non Reinforced Concrete Drainage Piping, C654 <small>(33 41 16 13)</small>		
33 41 16 13-0065 LF 6" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	21.93	10.70
For >1,000, Deduct	-1.10	
33 41 16 13-0066 LF 8" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	27.71	11.88
For >1,000, Deduct	-1.39	
33 41 16 13-0067 LF 10" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	34.89	13.07
For >1,000, Deduct	-1.74	
33 41 16 13-0068 LF 12" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	42.20	14.26
For >1,000, Deduct	-2.11	
33 41 16 13-0069 LF 15" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	48.29	15.87
For >1,000, Deduct	-2.41	

33	Utilities
33 40	Stormwater Utilities
33 41	Subdrainage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0070 LF 18" Standard Strength Porous Non Reinforced Concrete Drainage Pipe..... <i>For >1,000, Deduct</i>	62.51 -3.13	19.79
33 41 16 13-0071 Perforated Vitrified Clay Drainage Piping, C700 (33 41 16 13)		
33 41 16 13-0072 LF 4" Perforated Vitrified Clay Drainage Pipe	24.13	11.88
33 41 16 13-0073 LF 6" Perforated Vitrified Clay Drainage Pipe	29.24	13.37
33 41 16 13-0074 LF 8" Perforated Vitrified Clay Drainage Pipe	34.31	13.37
33 41 16 13-0075 LF 10" Perforated Vitrified Clay Drainage Pipe	46.79	16.35
33 41 16 13-0076 LF 12" Perforated Vitrified Clay Drainage Pipe	56.42	17.84
33 41 16 13-0077 Geotextile Filter Fabric Sock (33 41 16 13)		
33 41 16 13-0078 LF 3" Geotextile Filter Fabric Sock.....	0.65	
33 41 16 13-0079 LF 4" Geotextile Filter Fabric Sock.....	0.85	
33 41 16 13-0080 LF 6" Geotextile Filter Fabric Sock.....	1.29	
33 41 16 13-0081 LF 8" Geotextile Filter Fabric Sock.....	1.73	
33 41 16 13-0082 LF 10" Geotextile Filter Fabric Sock.....	2.56	
33 41 16 13-0083 LF 12" Geotextile Filter Fabric Sock.....	3.48	
33 41 16 13-0084 LF 15" Geotextile Filter Fabric Sock	4.14	
33 41 16 13-0085 Strip-Perforated, Galvanized, Corrugated Steel Pipe (33 41 16 13)		
Note: Perforations are located in the bottom quarter points of the pipe.		
33 41 16 13-0086 LF 6" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	19.08	5.09
<i>For Full Perforated, Add</i>	0.89	
33 41 16 13-0087 LF 8" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	24.08	6.18
<i>For Full Perforated, Add</i>	1.17	
33 41 16 13-0088 LF 10" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	30.37	7.84
<i>For Full Perforated, Add</i>	1.47	
33 41 16 13-0089 LF 12" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	33.90	9.27
<i>For Full Perforated, Add</i>	1.54	
33 41 16 13-0090 LF 15" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	38.49	9.59
<i>For Full Perforated, Add</i>	1.93	
33 41 16 13-0091 LF 18" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	43.20	9.94
<i>For Full Perforated, Add</i>	2.33	
33 41 16 13-0092 LF 21" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	49.21	10.73
<i>For Full Perforated, Add</i>	2.78	
33 41 16 13-0093 Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe (33 41 16 13)		
Note: Perforations are located in the bottom quarter points of the pipe.		
33 41 16 13-0094 LF 6" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe	20.51	5.09
<i>For Full Perforated, Add</i>	1.03	
33 41 16 13-0095 LF 8" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe	26.02	6.18
<i>For Full Perforated, Add</i>	1.37	
33 41 16 13-0096 LF 10" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe	32.74	7.84
<i>For Full Perforated, Add</i>	1.71	
33 41 16 13-0097 LF 12" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe	36.20	9.27
<i>For Full Perforated, Add</i>	1.77	
33 41 16 13-0098 LF 15" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe	41.34	9.59
<i>For Full Perforated, Add</i>	2.22	
33 41 16 13-0099 LF 18" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe	46.58	9.94
<i>For Full Perforated, Add</i>	2.67	
33 41 16 13-0100 LF 21" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe	53.14	10.73
<i>For Full Perforated, Add</i>	3.17	
33 41 16 13-0101 Strip-Perforated, Corrugated Aluminum Pipe (33 41 16 13)		
Note: Perforations are located in the bottom quarter points of the pipe.		
33 41 16 13-0102 LF 6" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	20.97	5.09
<i>For Full Perforated, Add</i>	1.08	
33 41 16 13-0103 LF 8" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	26.61	6.18
<i>For Full Perforated, Add</i>	1.43	
33 41 16 13-0104 LF 10" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	33.50	7.84
<i>For Full Perforated, Add</i>	1.78	
33 41 16 13-0105 LF 12" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	41.87	9.27
<i>For Full Perforated, Add</i>	2.33	
33 41 16 13-0106 LF 15" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	48.40	9.59
<i>For Full Perforated, Add</i>	2.92	
33 41 16 13-0107 LF 18" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	55.14	9.94
<i>For Full Perforated, Add</i>	3.53	
33 41 16 13-0108 LF 21" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	63.13	10.73
<i>For Full Perforated, Add</i>	4.17	
33 41 16 13-0109 Prefabricated Composite Drains (33 41 16 13)		
33 41 16 13-0110 Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE) (33 41 16 13-0109)		
Note: Excludes excavation and backfill. See CSI section 31 23 16 13-0000 for excavation and backfill.		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16	13-0111	LF	12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	8.61	1.99
			<i>For External Typar Geotextile Wrap, Add</i>	1.45	
33 41 16	13-0112	EA	Coupler For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	37.71	
33 41 16	13-0113	EA	End Cap For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	37.71	
33 41 16	13-0114	EA	Side Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	71.39	
33 41 16	13-0115	EA	End Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	71.39	
33 41 16	13-0116	LF	18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	13.53	2.49
			<i>For External Typar Geotextile Wrap, Add</i>	2.18	
33 41 16	13-0117	EA	Coupler For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	55.00	
33 41 16	13-0118	EA	End Cap For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	55.00	
33 41 16	13-0119	EA	Side Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	93.24	
33 41 16	13-0120	EA	End Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	93.24	

33 41 19 Underslab Drainage (33 41)

33 41 19 13 Underslab Drainage Piping (33 41 19)

33 41 19 13-0001 Capillary Water Barrier Underslab Drainage (33 41 19 13)

Note: Consists of a layer of fine granular material overlying a coarse layer.

33 41 19	13-0002	CY	2" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage.....	66.44	
33 41 19	13-0003	CY	4" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage.....	64.16	
33 41 19	13-0004	CY	6" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage.....	63.26	
33 41 19	13-0005	CY	8" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage.....	61.90	

33 42 Stormwater Conveyance (33 40)

Note: Piping includes hydrostatic testing, disinfecting and warning tape. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 42 11 Stormwater Gravity Piping (33 42)

33 42 11 00-0001 Reinforced Concrete Piping (33 42 11)

33 42 11 00-0002 Class 3 Reinforced Concrete Pipe Without Gaskets (33 42 11 00-0001)

33 42 11 00-0003	LF	12" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	42.04	14.26
		<i>For Class 4, Add</i>	2.06	
		<i>For Class 5, Add</i>	4.33	
		<i>For >1,000, Deduct</i>	-2.10	
33 42 11 00-0004	LF	15" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	50.41	15.87
		<i>For Class 4, Add</i>	2.64	
		<i>For Class 5, Add</i>	5.55	
		<i>For >1,000, Deduct</i>	-2.52	
33 42 11 00-0005	LF	18" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	57.44	19.79
		<i>For Class 4, Add</i>	2.77	
		<i>For Class 5, Add</i>	5.83	
		<i>For >1,000, Deduct</i>	-2.87	
33 42 11 00-0006	LF	21" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	73.58	24.97
		<i>For Class 4, Add</i>	3.60	
		<i>For Class 5, Add</i>	7.58	
		<i>For >1,000, Deduct</i>	-3.68	
33 42 11 00-0007	LF	24" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	86.21	30.31
		<i>For Class 4, Add</i>	4.08	
		<i>For Class 5, Add</i>	8.58	
		<i>For >1,000, Deduct</i>	-4.31	
33 42 11 00-0008	LF	27" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	109.53	38.77
		<i>For Class 4, Add</i>	5.14	
		<i>For Class 5, Add</i>	10.83	
		<i>For >1,000, Deduct</i>	-5.48	
33 42 11 00-0009	LF	30" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	116.43	40.04
		<i>For Class 4, Add</i>	5.56	
		<i>For Class 5, Add</i>	11.71	
		<i>For >1,000, Deduct</i>	-5.82	
33 42 11 00-0010	LF	36" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	143.76	45.50
		<i>For Class 4, Add</i>	7.55	
		<i>For Class 5, Add</i>	15.89	
		<i>For >1,000, Deduct</i>	-7.19	
33 42 11 00-0011	LF	42" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	185.72	50.04
		<i>For Class 4, Add</i>	10.92	
		<i>For Class 5, Add</i>	22.99	
		<i>For >1,000, Deduct</i>	-9.29	
33 42 11 00-0012	LF	48" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	222.16	55.73
		<i>For Class 4, Add</i>	13.54	
		<i>For Class 5, Add</i>	28.51	
		<i>For >1,000, Deduct</i>	-11.11	
33 42 11 00-0013	LF	54" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	276.09	63.70
		<i>For Class 4, Add</i>	17.58	
		<i>For Class 5, Add</i>	37.02	
		<i>For >1,000, Deduct</i>	-13.80	
33 42 11 00-0014	LF	60" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	333.18	73.88
		<i>For Class 4, Add</i>	21.63	
		<i>For Class 5, Add</i>	45.53	
		<i>For >1,000, Deduct</i>	-16.66	

33 Utilities

33 40 Stormwater Utilities

33 42 Stormwater Conveyance



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0015 LF 66" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	511.40	81.89
For Class 4, Add	37.52	
For Class 5, Add	78.99	
For >1,000, Deduct	-25.57	
33 42 11 00-0016 LF 72" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	596.22	89.17
For Class 4, Add	44.54	
For Class 5, Add	93.77	
For >1,000, Deduct	-29.81	
33 42 11 00-0017 LF 78" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	716.52	100.09
For Class 4, Add	54.45	
For Class 5, Add	114.64	
For >1,000, Deduct	-35.83	
33 42 11 00-0018 LF 84" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	921.77	111.46
For Class 4, Add	72.44	
For Class 5, Add	152.51	
For >1,000, Deduct	-46.09	
33 42 11 00-0019 LF 14" x 23" Elliptical Reinforced Concrete Pipe Without Gaskets (18" Diameter Equivalent Round Size)	100.72	26.32
For Class 4, Add	6.00	
For Class 5, Add	12.62	
For Horizontal Elliptical - II (HE- II), Add	6.31	
For Horizontal Elliptical - III (HE- III), Add	13.89	
For Horizontal Elliptical - IV (HE- IV), Add	30.30	
For >1,000, Deduct	-5.04	
33 42 11 00-0020 LF 19" x 30" Elliptical Reinforced Concrete Pipe Without Gaskets (24" Diameter Equivalent Round Size)	140.19	40.32
For Class 4, Add	7.85	
For Class 5, Add	16.52	
For Horizontal Elliptical - II (HE- II), Add	8.26	
For Horizontal Elliptical - III (HE- III), Add	18.17	
For Horizontal Elliptical - IV (HE- IV), Add	39.64	
For >1,000, Deduct	-7.01	
33 42 11 00-0021 LF 22" x 34" Elliptical Reinforced Concrete Pipe Without Gaskets (27" Diameter Equivalent Round Size)	165.99	51.56
For Class 4, Add	8.77	
For Class 5, Add	18.46	
For Horizontal Elliptical - II (HE- II), Add	9.23	
For Horizontal Elliptical - III (HE- III), Add	20.31	
For Horizontal Elliptical - IV (HE- IV), Add	44.31	
For >1,000, Deduct	-8.30	
33 42 11 00-0022 LF 24" x 38" Elliptical Reinforced Concrete Pipe Without Gaskets (30" Diameter Equivalent Round Size)	176.13	53.87
For Class 4, Add	9.42	
For Class 5, Add	19.83	
For Horizontal Elliptical - II (HE- II), Add	9.92	
For Horizontal Elliptical - III (HE- III), Add	21.82	
For Horizontal Elliptical - IV (HE- IV), Add	47.60	
For >1,000, Deduct	-8.81	
33 42 11 00-0023 LF 27" x 42" Elliptical Reinforced Concrete Pipe Without Gaskets (33" Diameter Equivalent Round Size)	201.84	56.89
For Class 4, Add	11.46	
For Class 5, Add	24.12	
For Horizontal Elliptical - II (HE- II), Add	12.06	
For Horizontal Elliptical - III (HE- III), Add	26.53	
For Horizontal Elliptical - IV (HE- IV), Add	57.88	
For >1,000, Deduct	-10.09	
33 42 11 00-0024 LF 29" x 45" Elliptical Reinforced Concrete Pipe Without Gaskets (36" Diameter Equivalent Round Size)	227.57	59.89
For Class 4, Add	13.49	
For Class 5, Add	28.40	
For Horizontal Elliptical - II (HE- II), Add	14.20	
For Horizontal Elliptical - III (HE- III), Add	31.24	
For Horizontal Elliptical - IV (HE- IV), Add	68.16	
For >1,000, Deduct	-11.38	
33 42 11 00-0025 LF 34" x 53" Elliptical Reinforced Concrete Pipe Without Gaskets (42" Diameter Equivalent Round Size)	276.84	65.90
For Class 4, Add	17.36	
For Class 5, Add	36.54	
For Horizontal Elliptical - II (HE- II), Add	18.27	
For Horizontal Elliptical - III (HE- III), Add	40.19	
For Horizontal Elliptical - IV (HE- IV), Add	87.69	
For >1,000, Deduct	-13.84	
33 42 11 00-0026 LF 38" x 60" Elliptical Reinforced Concrete Pipe Without Gaskets (48" Diameter Equivalent Round Size)	333.17	74.12
For Class 4, Add	21.59	
For Class 5, Add	45.46	
For Horizontal Elliptical - II (HE- II), Add	22.73	
For Horizontal Elliptical - III (HE- III), Add	50.00	
For Horizontal Elliptical - IV (HE- IV), Add	109.09	
For >1,000, Deduct	-16.66	
33 42 11 00-0027 LF 43" x 68" Elliptical Reinforced Concrete Pipe Without Gaskets (54" Diameter Equivalent Round Size)	379.29	84.71
For Class 4, Add	24.54	
For Class 5, Add	51.66	
For Horizontal Elliptical - II (HE- II), Add	25.83	
For Horizontal Elliptical - III (HE- III), Add	56.82	
For Horizontal Elliptical - IV (HE- IV), Add	123.97	
For >1,000, Deduct	-18.96	
33 42 11 00-0028 LF 48" x 76" Elliptical Reinforced Concrete Pipe Without Gaskets (60" Diameter Equivalent Round Size)	469.26	98.27
For Class 4, Add	31.24	
For Class 5, Add	65.78	
For Horizontal Elliptical - II (HE- II), Add	32.89	
For Horizontal Elliptical - III (HE- III), Add	72.35	
For Horizontal Elliptical - IV (HE- IV), Add	157.86	
For >1,000, Deduct	-23.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0029 LF 53" x 83" Elliptical Reinforced Concrete Pipe without Gaskets (66" Diameter Equivalent Round Size).....	535.31	108.28
For Class 4, Add	36.16	
For Class 5, Add	76.13	
For >1,000, Deduct	-26.77	
33 42 11 00-0030 LF 58" x 91" Elliptical Reinforced Concrete Pipe without Gaskets (72" Diameter Equivalent Round Size).....	648.28	118.29
For Class 4, Add	45.49	
For Class 5, Add	95.77	
For >1,000, Deduct	-32.41	
33 42 11 00-0031 LF 63" x 98" Elliptical Reinforced Concrete Pipe without Gaskets (78" Diameter Equivalent Round Size).....	773.83	133.76
For Class 4, Add	55.41	
For Class 5, Add	116.65	
For >1,000, Deduct	-38.69	
33 42 11 00-0032 LF 68" x 106" Elliptical Reinforced Concrete Pipe without Gaskets (84" Diameter Equivalent Round Size).....	837.97	148.31
For Class 4, Add	59.49	
For Class 5, Add	125.24	
For >1,000, Deduct	-41.90	
33 42 11 00-0033 LF 72" x 113" Elliptical Reinforced Concrete Pipe without Gaskets (90" Diameter Equivalent Round Size).....	1,070.80	155.59
For Class 4, Add	80.60	
For Class 5, Add	169.69	
For >1,000, Deduct	-53.54	
33 42 11 00-0034 LF 77" x 121" Elliptical Reinforced Concrete Pipe without Gaskets (96" Diameter Equivalent Round Size).....	1,239.80	162.87
For Class 4, Add	95.65	
For Class 5, Add	201.37	
For >1,000, Deduct	-61.99	
33 42 11 00-0035 Concrete Reducing Wye Without Gaskets (33 42 11 00-0001)		
33 42 11 00-0036 EA 12" Concrete Reducing Wye Without Gaskets.....	505.90	54.35
33 42 11 00-0037 EA 15" Concrete Reducing Wye Without Gaskets.....	606.75	66.23
33 42 11 00-0038 EA 18" Concrete Reducing Wye Without Gaskets.....	749.30	73.03
33 42 11 00-0039 EA 21" Concrete Reducing Wye Without Gaskets.....	860.29	90.01
33 42 11 00-0040 EA 24" Concrete Reducing Wye Without Gaskets.....	972.62	108.69
33 42 11 00-0041 Concrete Pipe Joint Gaskets (33 42 11 00-0001)		
33 42 11 00-0042 EA 12" Diameter Concrete Pipe Joint Gasket.....	4.80	
33 42 11 00-0043 EA 15" Diameter Concrete Pipe Joint Gasket.....	5.68	
33 42 11 00-0044 EA 18" Diameter Concrete Pipe Joint Gasket.....	6.58	
33 42 11 00-0045 EA 21" Diameter Concrete Pipe Joint Gasket.....	7.96	
33 42 11 00-0046 EA 24" Diameter Concrete Pipe Joint Gasket.....	9.32	
33 42 11 00-0047 EA 27" Diameter Concrete Pipe Joint Gasket.....	10.39	
33 42 11 00-0048 EA 30" Diameter Concrete Pipe Joint Gasket.....	11.41	
33 42 11 00-0049 EA 36" Diameter Concrete Pipe Joint Gasket.....	13.94	
33 42 11 00-0050 EA 42" Diameter Concrete Pipe Joint Gasket.....	16.17	
33 42 11 00-0051 EA 48" Diameter Concrete Pipe Joint Gasket.....	18.64	
33 42 11 00-0052 EA 54" Diameter Concrete Pipe Joint Gasket.....	22.85	
33 42 11 00-0053 EA 60" Diameter Concrete Pipe Joint Gasket.....	33.83	
33 42 11 00-0054 EA 66" Diameter Concrete Pipe Joint Gasket.....	35.17	
33 42 11 00-0055 EA 72" Diameter Concrete Pipe Joint Gasket.....	36.46	
33 42 11 00-0056 EA 78" Diameter Concrete Pipe Joint Gasket.....	41.99	
33 42 11 00-0057 EA 84" Diameter Concrete Pipe Joint Gasket.....	50.34	
33 42 11 00-0058 Couplings (33 42 11 00-0001)		
33 42 11 00-0059 Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Couplings (33 42 11 00-0058)		
Note: For concrete to cast iron or plastic pipe. Includes stainless steel clamps. Fernco 1006.		
33 42 11 00-0060 EA 4" x 3" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	39.52	
33 42 11 00-0061 EA 4" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	36.29	
33 42 11 00-0062 EA 6" x 4" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	63.26	
33 42 11 00-0063 EA 6" x 5" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	65.85	
33 42 11 00-0064 EA 6" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	60.87	
33 42 11 00-0065 EA 8" x 6" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	95.15	
33 42 11 00-0066 EA 8" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	81.62	
33 42 11 00-0067 EA 10" x 8" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	120.55	
33 42 11 00-0068 EA 10" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	106.28	
33 42 11 00-0069 EA 12" x 10" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	146.31	
33 42 11 00-0070 EA 12" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	121.58	
33 42 11 00-0071 EA 15" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	388.52	
33 42 11 00-0072 Precast Concrete Cut Off Wall (33 42 11 00-0001)		
33 42 11 00-0073 EA 12" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	256.89	160.14
33 42 11 00-0074 EA 15" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	316.58	198.35
33 42 11 00-0075 EA 18" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	390.83	251.12
33 42 11 00-0076 EA 21" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	461.45	300.27
33 42 11 00-0077 EA 24" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	530.15	347.49
33 42 11 00-0078 EA 27" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	648.17	444.03
33 42 11 00-0079 EA 30" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	837.26	611.45
33 42 11 00-0080 EA 36" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,040.54	771.58
33 42 11 00-0081 EA 42" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,279.65	967.93

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0082 EA 48" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,429.58	1,090.96
33 42 11 00-0083 EA 54" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,594.40	1,222.88
33 42 11 00-0084 EA 60" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,760.94	1,358.46
33 42 11 00-0085 EA 66" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,830.21	1,410.32
33 42 11 00-0086 EA 72" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,891.19	1,455.82
33 42 11 00-0087 EA 78" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,952.16	1,501.31
33 42 11 00-0088 EA 84" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	2,015.07	1,546.81
33 42 11 00-0089 Strap Assembly <small>(33 42 11 00-0001)</small> Note: Includes drilling holes in concrete pipe, setting threaded rod, bolts, and mounting the 12' strap.		
33 42 11 00-0090 EA Up To 24" Diameter Pipe, 12' Strap Assembly	200.28	
33 42 11 00-0091 EA >24" Diameter Pipe, 12' Strap Assembly	281.76	
33 42 11 00-0092 Prestressed Concrete Cylinder Piping <small>(33 42 11)</small>		
33 42 11 00-0093 150 PSI Prestressed Concrete Cylinder Pipe And Fittings <small>(33 42 11 00-0092)</small>		
33 42 11 00-0094 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets <small>(33 42 11 00-0093)</small> Note: Lined-cylinder pipe (AWWA C301) up to 48". Embedded-cylinder pipe (AWWA C301) >48".		
33 42 11 00-0095 LF 12" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	113.70	14.26
For 100 PSI, Deduct	-23.33	
For >1,000, Deduct	-5.69	
33 42 11 00-0096 LF 15" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	121.39	15.87
For 100 PSI, Deduct	-24.68	
For >1,000, Deduct	-6.07	
33 42 11 00-0097 LF 18" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	132.39	19.79
For 100 PSI, Deduct	-26.03	
For >1,000, Deduct	-6.62	
33 42 11 00-0098 LF 21" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	145.18	24.97
For 100 PSI, Deduct	-27.38	
For >1,000, Deduct	-7.26	
33 42 11 00-0099 LF 24" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	158.24	30.31
For 100 PSI, Deduct	-28.73	
For >1,000, Deduct	-7.91	
33 42 11 00-0100 LF 30" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	186.54	40.04
For 100 PSI, Deduct	-32.17	
For >1,000, Deduct	-9.33	
33 42 11 00-0101 LF 36" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	206.76	45.50
For 100 PSI, Deduct	-35.61	
For >1,000, Deduct	-10.34	
33 42 11 00-0102 LF 42" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	239.74	50.04
For 100 PSI, Deduct	-42.24	
For >1,000, Deduct	-11.99	
33 42 11 00-0103 LF 48" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	275.08	55.73
For 100 PSI, Deduct	-48.87	
For >1,000, Deduct	-13.75	
33 42 11 00-0104 LF 54" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	364.95	72.56
For 100 PSI, Deduct	-65.32	
For >1,000, Deduct	-18.25	
33 42 11 00-0105 LF 60" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	439.49	84.18
For 100 PSI, Deduct	-79.81	
For >1,000, Deduct	-21.97	
33 42 11 00-0106 LF 66" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	493.67	93.29
For 100 PSI, Deduct	-90.25	
For >1,000, Deduct	-24.68	
33 42 11 00-0107 LF 72" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	550.31	101.58
For 100 PSI, Deduct	-101.30	
For >1,000, Deduct	-27.52	
33 42 11 00-0108 LF 78" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	624.93	114.02
For 100 PSI, Deduct	-115.42	
For >1,000, Deduct	-31.25	
33 42 11 00-0109 LF 84" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	699.55	126.98
For 100 PSI, Deduct	-129.54	
For >1,000, Deduct	-34.98	
33 42 11 00-0110 LF 90" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	863.26	148.23
For 100 PSI, Deduct	-162.69	
For >1,000, Deduct	-43.16	
33 42 11 00-0111 LF 96" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	1,015.39	169.27
For 100 PSI, Deduct	-193.39	
For >1,000, Deduct	-50.77	
33 42 11 00-0112 LF 102" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	1,185.39	185.15
For 100 PSI, Deduct	-230.22	
For >1,000, Deduct	-59.27	
33 42 11 00-0113 LF 108" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	1,336.84	196.62
For 100 PSI, Deduct	-263.99	
For >1,000, Deduct	-66.84	
33 42 11 00-0114 LF 114" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	1,611.06	208.08
For 100 PSI, Deduct	-328.45	
For >1,000, Deduct	-80.55	
33 42 11 00-0115 LF 120" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	1,871.63	218.58
For 100 PSI, Deduct	-389.84	
For >1,000, Deduct	-93.58	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0116 LF 126" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... <i>For 100 PSI, Deduct</i>	2,038.88 -427.91	229.08
33 42 11 00-0117 LF 132" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... <i>For 100 PSI, Deduct</i>	2,208.59 -466.58	239.58
33 42 11 00-0118 LF 138" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... <i>For 100 PSI, Deduct</i>	2,377.06 -504.95	250.07
33 42 11 00-0119 LF 144" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... <i>For 100 PSI, Deduct</i>	2,545.53 -543.32	260.57
	-101.94 -110.43 -118.85 -127.28	
33 42 11 00-0120 150 PSI Prestressed Concrete Cylinder 90 Degree Elbows With Gaskets (33		
<small>42 11 00-0093)</small>		
33 42 11 00-0121 EA 12" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	392.72	133.74
33 42 11 00-0122 EA 15" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	544.20	191.05
33 42 11 00-0123 EA 18" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	701.02	254.74
33 42 11 00-0124 EA 21" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	857.87	318.43
33 42 11 00-0125 EA 24" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,042.71	395.70
33 42 11 00-0126 EA 30" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,333.90	530.71
33 42 11 00-0127 EA 36" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,666.49	636.92
33 42 11 00-0128 EA 42" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,941.05	743.37
33 42 11 00-0129 EA 48" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,187.13	848.92
33 42 11 00-0130 EA 54" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,692.82	1,060.01
33 42 11 00-0131 EA 60" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,559.26	1,451.22
33 42 11 00-0132 EA 66" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,969.96	1,606.71
33 42 11 00-0133 EA 72" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,380.66	1,762.20
33 42 11 00-0134 EA 78" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,255.72	2,021.34
33 42 11 00-0135 EA 84" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,125.06	2,280.48
33 42 11 00-0136 EA 90" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	7,242.98	2,591.46
33 42 11 00-0137 EA 96" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	8,355.19	2,902.43
33 42 11 00-0138 EA 102" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	11,201.66	3,722.45
33 42 11 00-0139 EA 108" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	13,932.99	4,466.94
33 42 11 00-0140 EA 114" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	18,135.54	5,955.93
33 42 11 00-0141 EA 120" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	22,267.63	7,444.90
33 42 11 00-0142 EA 126" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	25,062.35	8,029.86
33 42 11 00-0143 EA 132" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	27,861.03	8,614.82
33 42 11 00-0144 EA 138" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	35,988.27	9,199.78
33 42 11 00-0145 EA 144" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	33,514.38	9,784.74
33 42 11 00-0146 150 PSI Prestressed Concrete Cylinder 45 Degree Elbows With Gaskets (33		
<small>42 11 00-0093)</small>		
33 42 11 00-0147 EA 12" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	367.67	133.74
33 42 11 00-0148 EA 15" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	511.78	191.05
33 42 11 00-0149 EA 18" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	662.72	254.74
33 42 11 00-0150 EA 21" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	813.67	318.43
33 42 11 00-0151 EA 24" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	992.62	395.70
33 42 11 00-0152 EA 30" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,265.14	495.05
33 42 11 00-0153 EA 36" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,587.91	636.92
33 42 11 00-0154 EA 42" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,850.19	743.37
33 42 11 00-0155 EA 48" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,089.40	848.92
33 42 11 00-0156 EA 54" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,550.96	1,060.01
33 42 11 00-0157 EA 60" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,426.97	1,451.22
33 42 11 00-0158 EA 66" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,828.09	1,606.71
33 42 11 00-0159 EA 72" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,229.21	1,762.20
33 42 11 00-0160 EA 78" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,902.18	2,021.34
33 42 11 00-0161 EA 84" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,569.44	2,280.48
33 42 11 00-0162 EA 90" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,541.78	2,591.46
33 42 11 00-0163 EA 96" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	7,508.41	2,902.43
33 42 11 00-0164 EA 102" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	9,765.50	3,628.05
33 42 11 00-0165 EA 108" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	12,285.06	4,466.94
33 42 11 00-0166 EA 114" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	16,086.67	5,955.93
33 42 11 00-0167 EA 120" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	19,817.82	7,444.90
33 42 11 00-0168 EA 126" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	22,073.15	8,029.86
33 42 11 00-0169 EA 132" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	24,332.44	9,784.74
33 42 11 00-0170 EA 138" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	26,598.93	9,199.78
33 42 11 00-0171 EA 144" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	29,152.97	9,784.74
33 42 11 00-0172 400 PSI Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11 00-0092)		
33 42 11 00-0173 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11		
<small>00-0172)</small>		
<small>Note: AWWA C301</small>		
33 42 11 00-0174 LF 30" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints..... <i>For >1,000, Deduct</i>	218.84 -10.94	40.04
33 42 11 00-0175 LF 36" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints..... <i>For >1,000, Deduct</i>	266.41 -13.32	45.50
33 42 11 00-0176 LF 42" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints..... <i>For >1,000, Deduct</i>	310.55 -15.53	50.04

33	33 Utilities
	33 40 Stormwater Utilities
	33 42 Stormwater Conveyance



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 42 11 00-0177 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular

Joints (33 42 11 00-0172)
 Note: AWWA C301

33 42 11 00-0178	LF	48"	400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints	417.31	55.68
			For >1,000, Deduct	-20.87	
33 42 11 00-0179	LF	54"	400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints	501.46	72.56
			For >1,000, Deduct	-25.07	
33 42 11 00-0180	LF	60"	400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints	578.15	84.18
			For >1,000, Deduct	-28.91	
33 42 11 00-0181	LF	66"	400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints	650.68	93.29
			For >1,000, Deduct	-32.53	
33 42 11 00-0182	LF	72"	400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints	786.95	101.58
			For >1,000, Deduct	-39.35	

33 42 11 00-0183 Welded Joints For Prestressed Concrete Cylinder Pipe (33 42 11 00-0172)

Note: All pipe joints to be exposed and dewatered. Internal joint welding also requires joints to be ventilated and air quality checked.

33 42 11 00-0184	EA	30"	Welded Joint For Prestressed Concrete Cylinder Pipe	1,501.43	
33 42 11 00-0185	EA	36"	Welded Joint For Prestressed Concrete Cylinder Pipe	1,612.65	
33 42 11 00-0186	EA	42"	Welded Joint For Prestressed Concrete Cylinder Pipe	1,668.26	
33 42 11 00-0187	EA	48"	Welded Joint For Prestressed Concrete Cylinder Pipe	1,890.69	
33 42 11 00-0188	EA	54"	Welded Joint For Prestressed Concrete Cylinder Pipe	1,946.30	
33 42 11 00-0189	EA	60"	Welded Joint For Prestressed Concrete Cylinder Pipe	2,057.52	
33 42 11 00-0190	EA	66"	Welded Joint For Prestressed Concrete Cylinder Pipe	2,113.12	
33 42 11 00-0191	EA	72"	Welded Joint For Prestressed Concrete Cylinder Pipe	2,168.73	
33 42 11 00-0192	EA	30"	Internal Welded Joint For Prestressed Concrete Cylinder Pipe	2,780.43	
33 42 11 00-0193	EA	36"	Internal Welded Joint For Prestressed Concrete Cylinder Pipe	2,780.43	
33 42 11 00-0194	EA	42"	Internal Welded Joint For Prestressed Concrete Cylinder Pipe	3,169.69	
33 42 11 00-0195	EA	48"	Internal Welded Joint For Prestressed Concrete Cylinder Pipe	3,169.69	
33 42 11 00-0196	EA	54"	Internal Welded Joint For Prestressed Concrete Cylinder Pipe	3,392.12	
33 42 11 00-0197	EA	60"	Internal Welded Joint For Prestressed Concrete Cylinder Pipe	3,392.12	
33 42 11 00-0198	EA	66"	Internal Welded Joint For Prestressed Concrete Cylinder Pipe	3,670.16	
33 42 11 00-0199	EA	72"	Internal Welded Joint For Prestressed Concrete Cylinder Pipe	3,670.16	

33 42 11 00-0200 Quick Test Joints (33 42 11 00-0172)

33 42 11 00-0201	EA	30"	Quick Test Joint	438.99	
33 42 11 00-0202	EA	36"	Quick Test Joint	443.54	
33 42 11 00-0203	EA	42"	Quick Test Joint	448.09	
33 42 11 00-0204	EA	48"	Quick Test Joint	457.69	
33 42 11 00-0205	EA	54"	Quick Test Joint	481.62	
33 42 11 00-0206	EA	60"	Quick Test Joint	500.38	
33 42 11 00-0207	EA	66"	Quick Test Joint	527.54	
33 42 11 00-0208	EA	72"	Quick Test Joint	554.71	

33 42 11 00-0209 Harnessed Joints (33 42 11 00-0172)

33 42 11 00-0210 Harness Clamp Restrained Joints (33 42 11 00-0209)

33 42 11 00-0211	EA	30"	Harness Clamp Restrained Joint	2,857.03	
33 42 11 00-0212	EA	36"	Harness Clamp Restrained Joint	2,968.66	
33 42 11 00-0213	EA	42"	Harness Clamp Restrained Joint	3,080.30	
33 42 11 00-0214	EA	48"	Harness Clamp Restrained Joint	3,191.93	
33 42 11 00-0215	EA	54"	Harness Clamp Restrained Joint	3,316.24	
33 42 11 00-0216	EA	60"	Harness Clamp Restrained Joint	3,487.23	
33 42 11 00-0217	EA	66"	Harness Clamp Restrained Joint	3,604.69	
33 42 11 00-0218	EA	72"	Harness Clamp Restrained Joint	3,861.35	

33 42 11 00-0219 Snap Ring Restrained Joints (33 42 11 00-0209)

33 42 11 00-0220	EA	30"	Snap Ring Restrained Joint	501.13	
33 42 11 00-0221	EA	36"	Snap Ring Restrained Joint	569.94	
33 42 11 00-0222	EA	42"	Snap Ring Restrained Joint	756.53	
33 42 11 00-0223	EA	48"	Snap Ring Restrained Joint	857.46	
33 42 11 00-0224	EA	54"	Snap Ring Restrained Joint	971.06	
33 42 11 00-0225	EA	60"	Snap Ring Restrained Joint	1,099.21	
33 42 11 00-0226	EA	66"	Snap Ring Restrained Joint	1,216.67	
33 42 11 00-0227	EA	72"	Snap Ring Restrained Joint	1,355.54	

33 42 11 00-0228 Pipe Repairs (33 42 11 00-0172)

Note: For repair of damaged or defective lined or embedded cylinder concrete pipe. Includes 2 concrete adapters, MJDI sleeve, 20' pipe.

33 42 11 00-0229 Lined Cylinder Pipe Repair (33 42 11 00-0228)

33 42 11 00-0230	EA	30"	Lined Cylinder Pipe Repair	6,233.24	
33 42 11 00-0231	EA	36"	Lined Cylinder Pipe Repair	7,735.02	
33 42 11 00-0232	EA	42"	Lined Cylinder Pipe Repair	8,422.60	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0233			Embedded Cylinder Pipe Repair <small>(33 42 11 00-0228)</small> Note: Field welded concrete enclosure assembly with concrete pipe.		
33 42 11 00-0234	EA		48" Embedded Cylinder Pipe Repair.....	12,521.25	
33 42 11 00-0235	EA		54" Embedded Cylinder Pipe Repair.....	14,537.84	
33 42 11 00-0236	EA		60" Embedded Cylinder Pipe Repair.....	16,569.63	
33 42 11 00-0237	EA		66" Embedded Cylinder Pipe Repair.....	18,720.05	
33 42 11 00-0238	EA		72" Embedded Cylinder Pipe Repair.....	22,503.11	
33 42 11 00-0239			High Density Polyethylene (HDPE) Piping <small>(33 42 11)</small>		
33 42 11 00-0240			Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0239)</small> Note: Excludes couplings and gaskets.		
33 42 11 00-0241			Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0240)</small>		
33 42 11 00-0242	LF		4" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	13.02	6.00
			<i>For <100, Add</i>	2.40	
			<i>For >1,000, Deduct</i>	-1.25	
33 42 11 00-0243	LF		6" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	16.55	6.98
			<i>For <100, Add</i>	2.79	
			<i>For >1,000, Deduct</i>	-1.53	
33 42 11 00-0244	LF		8" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	20.12	8.11
			<i>For <100, Add</i>	3.25	
			<i>For >1,000, Deduct</i>	-1.82	
33 42 11 00-0245	LF		10" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	22.42	8.40
			<i>For <100, Add</i>	3.36	
			<i>For >1,000, Deduct</i>	-1.96	
33 42 11 00-0246	LF		12" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	23.48	8.70
			<i>For <100, Add</i>	3.48	
			<i>For >1,000, Deduct</i>	-2.04	
33 42 11 00-0247	LF		15" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	26.18	9.00
			<i>For <100, Add</i>	3.60	
			<i>For >1,000, Deduct</i>	-2.21	
33 42 11 00-0248	LF		18" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	30.85	9.33
			<i>For <100, Add</i>	3.73	
			<i>For >1,000, Deduct</i>	-2.48	
33 42 11 00-0249	LF		24" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	41.29	10.93
			<i>For <100, Add</i>	4.37	
			<i>For >1,000, Deduct</i>	-3.16	
33 42 11 00-0250	LF		30" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	58.13	14.71
			<i>For <100, Add</i>	5.88	
			<i>For >1,000, Deduct</i>	-4.38	
33 42 11 00-0251	LF		36" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	76.00	18.59
			<i>For <100, Add</i>	7.44	
			<i>For >1,000, Deduct</i>	-5.66	
33 42 11 00-0252			Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0240)</small>		
33 42 11 00-0253	LF		12" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	23.37	8.70
			<i>For <100, Add</i>	3.48	
			<i>For >1,000, Deduct</i>	-2.04	
33 42 11 00-0254	LF		15" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	26.61	9.00
			<i>For <100, Add</i>	3.60	
			<i>For >1,000, Deduct</i>	-2.23	
33 42 11 00-0255	LF		18" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	31.50	9.33
			<i>For <100, Add</i>	3.73	
			<i>For >1,000, Deduct</i>	-2.51	
33 42 11 00-0256	LF		24" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	42.31	10.93
			<i>For <100, Add</i>	4.37	
			<i>For >1,000, Deduct</i>	-3.21	
33 42 11 00-0257	LF		30" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	60.93	14.71
			<i>For <100, Add</i>	5.88	
			<i>For >1,000, Deduct</i>	-4.52	
33 42 11 00-0258	LF		36" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	78.08	18.59
			<i>For <100, Add</i>	7.44	
			<i>For >1,000, Deduct</i>	-5.76	
33 42 11 00-0259	LF		42" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	99.61	20.28
			<i>For <100, Add</i>	8.11	
			<i>For >1,000, Deduct</i>	-7.01	
33 42 11 00-0260	LF		48" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	109.05	22.88
			<i>For <100, Add</i>	9.15	
			<i>For >1,000, Deduct</i>	-7.74	
33 42 11 00-0261			Perforated, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0239)</small> Note: Excludes couplings and gaskets.		
33 42 11 00-0262			Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0261)</small>		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0263 LF 4" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	13.56 2.40 -1.28	6.00
33 42 11 00-0264 LF 6" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	16.57 2.79 -1.53	6.98
33 42 11 00-0265 LF 8" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	20.12 3.25 -1.82	8.11
33 42 11 00-0266 LF 10" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	22.44 3.36 -1.96	8.40
33 42 11 00-0267 LF 12" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	23.48 3.48 -2.04	8.70
33 42 11 00-0268 LF 15" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	26.20 3.60 -2.21	9.00
33 42 11 00-0269 LF 18" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	30.87 3.73 -2.48	9.33
33 42 11 00-0270 LF 24" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	41.29 4.37 -3.16	10.93
33 42 11 00-0271 LF 30" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	58.31 5.88 -4.39	14.71
33 42 11 00-0272 LF 36" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	76.00 7.44 -5.66	18.59
33 42 11 00-0273 Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0261)</small>		
33 42 11 00-0274 LF 12" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	23.39 3.48 -2.04	8.70
33 42 11 00-0275 LF 15" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	26.63 3.60 -2.23	9.00
33 42 11 00-0276 LF 18" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	31.52 3.73 -2.51	9.33
33 42 11 00-0277 LF 24" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	42.31 4.37 -3.21	10.93
33 42 11 00-0278 LF 30" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	60.93 5.88 -4.52	14.71
33 42 11 00-0279 LF 36" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	78.08 7.44 -5.76	18.59
33 42 11 00-0280 LF 42" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	99.61 8.11 -7.01	20.28
33 42 11 00-0281 LF 48" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe <i>For <100, Add</i> <i>For >1,000, Deduct</i>	109.05 9.15 -7.74	22.88
33 42 11 00-0282 Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe Fittings <small>(33 42 11 00-0239)</small> Note: Excludes couplings and gaskets.		
33 42 11 00-0283 Tees, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 42 11 00-0282)</small>		
33 42 11 00-0284 EA 4" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	53.55	21.08
33 42 11 00-0285 EA 6" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	66.94	24.60
33 42 11 00-0286 EA 8" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	106.22	29.87
33 42 11 00-0287 EA 10" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	160.38	36.90
33 42 11 00-0288 EA 12" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	250.35	43.94
33 42 11 00-0289 EA 15" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	352.48	57.41
33 42 11 00-0290 EA 18" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	505.92	77.32
33 42 11 00-0291 EA 24" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	646.29	88.25
33 42 11 00-0292 EA 30" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	1,119.50	101.92
33 42 11 00-0293 EA 36" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	1,435.32	117.73



			Utilities	33	
			Stormwater Utilities	33 40	33
			Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0294	EA		42" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	2,378.99	140.58
33 42 11 00-0295	EA		48" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	2,984.23	166.94
33 42 11 00-0296			Wyes, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 42 11 00-0282)</small>		
33 42 11 00-0297	EA		4" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	76.63	21.08
33 42 11 00-0298	EA		6" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	92.26	24.60
33 42 11 00-0299	EA		8" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	122.20	29.87
33 42 11 00-0300	EA		10" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	178.01	36.90
33 42 11 00-0301	EA		12" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	307.05	43.94
33 42 11 00-0302	EA		15" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	335.08	57.41
33 42 11 00-0303	EA		18" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	472.09	77.32
33 42 11 00-0304			22-1/2 Degree Bends, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 42 11 00-0282)</small>		
33 42 11 00-0305	EA		4" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	32.81	14.06
33 42 11 00-0306	EA		6" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	40.30	16.40
33 42 11 00-0307	EA		8" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	58.02	19.92
33 42 11 00-0308	EA		10" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	72.93	24.60
33 42 11 00-0309	EA		12" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	104.54	29.29
33 42 11 00-0310	EA		15" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	163.45	37.49
33 42 11 00-0311	EA		18" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	216.98	51.55
33 42 11 00-0312	EA		24" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	404.10	58.57
33 42 11 00-0313	EA		30" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	558.85	67.94
33 42 11 00-0314	EA		36" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	654.67	78.49
33 42 11 00-0315	EA		42" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	835.37	93.72
33 42 11 00-0316	EA		48" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	1,126.29	111.29
33 42 11 00-0317			45 Degree Bends, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 42 11 00-0282)</small>		
33 42 11 00-0318	EA		4" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	35.34	14.06
33 42 11 00-0319	EA		6" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	45.56	16.40
33 42 11 00-0320	EA		8" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	60.70	19.92
33 42 11 00-0321	EA		10" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	94.77	24.60
33 42 11 00-0322	EA		12" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	104.54	29.29
33 42 11 00-0323	EA		15" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	163.01	37.49
33 42 11 00-0324	EA		18" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	252.21	51.55
33 42 11 00-0325	EA		24" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	431.32	58.57
33 42 11 00-0326	EA		30" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	560.14	67.94
33 42 11 00-0327	EA		36" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	713.33	78.49
33 42 11 00-0328	EA		42" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	1,061.77	93.72
33 42 11 00-0329	EA		48" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	1,329.21	111.29
33 42 11 00-0330			Couplings And End Caps, Corrugated High Density Polyethylene (HDPE)		
			Pipe Fittings <small>(33 42 11 00-0239)</small>		
			Note: For single and double wall high density polyethylene (HDPE) piping.		
33 42 11 00-0331			Couplings, Corrugated High Density Polyethylene (HDPE) Pipe <small>(33 42 11 00-0330)</small>		
33 42 11 00-0332	EA		4" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	1.50	
33 42 11 00-0333	EA		6" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	2.70	
33 42 11 00-0334	EA		8" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	4.16	
33 42 11 00-0335	EA		10" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	5.11	
33 42 11 00-0336	EA		12" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	5.50	
33 42 11 00-0337	EA		15" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	7.83	
33 42 11 00-0338	EA		18" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	11.59	
33 42 11 00-0339	EA		24" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	18.45	
33 42 11 00-0340	EA		30" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	28.32	
33 42 11 00-0341	EA		36" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	37.06	
33 42 11 00-0342	EA		42" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	58.26	
33 42 11 00-0343	EA		48" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	78.79	
33 42 11 00-0344			Self Adhering Gaskets, Corrugated High Density Polyethylene (HDPE)		
			Pipe <small>(33 42 11 00-0330)</small>		
33 42 11 00-0345	EA		4" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	79.78	
33 42 11 00-0346	EA		6" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	83.53	
33 42 11 00-0347	EA		8" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	87.46	
33 42 11 00-0348	EA		10" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	91.57	
33 42 11 00-0349	EA		12" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	108.61	
33 42 11 00-0350	EA		15" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	112.14	
33 42 11 00-0351	EA		18" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	116.96	
33 42 11 00-0352	EA		24" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	133.23	
33 42 11 00-0353	EA		30" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	213.57	
33 42 11 00-0354	EA		36" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	233.93	
33 42 11 00-0355	EA		42" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	254.88	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0356 EA 48" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	309.56	
33 42 11 00-0357 End Caps, Corrugated High Density Polyethylene (HDPE) Pipe (33 42 11 00-0330)		
33 42 11 00-0358 EA 6" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	26.35	
33 42 11 00-0359 EA 8" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	30.60	
33 42 11 00-0360 EA 10" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	47.56	
33 42 11 00-0361 EA 12" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	78.54	
33 42 11 00-0362 EA 15" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	91.00	
33 42 11 00-0363 EA 18" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	121.87	
33 42 11 00-0364 EA 24" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	126.77	
33 42 11 00-0365 Vitrified Clay Piping (33 42 11)		
33 42 11 00-0366 Extra Strength Vitrified Clay Piping (33 42 11 00-0365)		
33 42 11 00-0367 Plain Joint, Extra Strength, Vitrified Clay Piping (33 42 11 00-0366)		
Note: ASTM C700.		
33 42 11 00-0368 LF 4" Plain Joint, Extra Strength, Vitrified Clay Pipe	20.60	
For 3' Lengths, Add	2.16	
For 2' Lengths, Add	2.88	
For Standard Strength, Deduct	-0.72	
For >1,000, Deduct	-1.03	
33 42 11 00-0369 LF 6" Plain Joint, Extra Strength, Vitrified Clay Pipe	34.03	
For 3' Lengths, Add	3.36	
For 2' Lengths, Add	4.48	
For Standard Strength, Deduct	-1.12	
For >1,000, Deduct	-1.70	
33 42 11 00-0370 LF 8" Plain Joint, Extra Strength, Vitrified Clay Pipe	41.38	
For 3' Lengths, Add	4.80	
For 2' Lengths, Add	6.40	
For Standard Strength, Deduct	-1.60	
For >1,000, Deduct	-2.07	
33 42 11 00-0371 LF 10" Plain Joint, Extra Strength, Vitrified Clay Pipe	50.96	
For 3' Lengths, Add	7.35	
For 2' Lengths, Add	9.80	
For Standard Strength, Deduct	-2.45	
For >1,000, Deduct	-2.55	
33 42 11 00-0372 LF 12" Plain Joint, Extra Strength, Vitrified Clay Pipe	63.45	
For 3' Lengths, Add	10.38	
For 2' Lengths, Add	13.84	
For Standard Strength, Deduct	-3.46	
For >1,000, Deduct	-3.17	
33 42 11 00-0373 LF 15" Plain Joint, Extra Strength, Vitrified Clay Pipe	96.99	
For 3' Lengths, Add	19.47	
For 2' Lengths, Add	25.96	
For Standard Strength, Deduct	-6.49	
For >1,000, Deduct	-4.85	
33 42 11 00-0374 LF 18" Plain Joint, Extra Strength, Vitrified Clay Pipe	133.03	
For 3' Lengths, Add	27.90	
For 2' Lengths, Add	37.20	
For Standard Strength, Deduct	-9.30	
For >1,000, Deduct	-6.65	
33 42 11 00-0375 LF 21" Plain Joint, Extra Strength, Vitrified Clay Pipe	199.47	
For 3' Lengths, Add	44.70	
For 2' Lengths, Add	59.60	
For Standard Strength, Deduct	-14.90	
For >1,000, Deduct	-9.97	
33 42 11 00-0376 LF 24" Plain Joint, Extra Strength, Vitrified Clay Pipe	255.96	
For 3' Lengths, Add	58.40	
For 2' Lengths, Add	77.86	
For Standard Strength, Deduct	-19.47	
For >1,000, Deduct	-12.80	
33 42 11 00-0377 LF 30" Plain Joint, Extra Strength, Vitrified Clay Pipe	317.15	
For 3' Lengths, Add	72.82	
For 2' Lengths, Add	97.09	
For Standard Strength, Deduct	-24.27	
For >1,000, Deduct	-15.86	
33 42 11 00-0378 LF 36" Plain Joint, Extra Strength, Vitrified Clay Pipe	383.57	
For 3' Lengths, Add	87.96	
For 2' Lengths, Add	117.28	
For Standard Strength, Deduct	-29.32	
For >1,000, Deduct	-19.18	
33 42 11 00-0379 Compression Joint, Extra Strength, Vitrified Clay Piping (33 42 11 00-0366)		
Note: ASTM C425.		
33 42 11 00-0380 LF 4" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	28.81	
For 3' Lengths, Add	2.55	
For 2' Lengths, Add	3.40	
For Standard Strength, Deduct	-0.85	
For >1,000, Deduct	-1.44	



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0381 LF 6" Compression Joint, Extra Strength, Vitrified Clay Pipe	36.72	
For 3' Lengths, Add	4.17	
For 2' Lengths, Add	5.56	
For Standard Strength, Deduct	-1.39	
For >1,000, Deduct	-1.84	
33 42 11 00-0382 LF 8" Compression Joint, Extra Strength, Vitrified Clay Pipe	44.98	
For 3' Lengths, Add	5.88	
For 2' Lengths, Add	7.84	
For Standard Strength, Deduct	-1.96	
For >1,000, Deduct	-2.25	
33 42 11 00-0383 LF 10" Compression Joint, Extra Strength, Vitrified Clay Pipe	58.65	
For 3' Lengths, Add	9.66	
For 2' Lengths, Add	12.88	
For Standard Strength, Deduct	-3.22	
For >1,000, Deduct	-2.93	
33 42 11 00-0384 LF 12" Compression Joint, Extra Strength, Vitrified Clay Pipe	71.14	
For 3' Lengths, Add	12.69	
For 2' Lengths, Add	16.92	
For Standard Strength, Deduct	-4.23	
For >1,000, Deduct	-3.56	
33 42 11 00-0385 LF 15" Compression Joint, Extra Strength, Vitrified Clay Pipe	109.24	
For 3' Lengths, Add	23.14	
For 2' Lengths, Add	30.86	
For Standard Strength, Deduct	-7.71	
For >1,000, Deduct	-5.46	
33 42 11 00-0386 LF 18" Compression Joint, Extra Strength, Vitrified Clay Pipe	152.98	
For 3' Lengths, Add	33.89	
For 2' Lengths, Add	45.18	
For Standard Strength, Deduct	-11.30	
For >1,000, Deduct	-7.65	
33 42 11 00-0387 LF 21" Compression Joint, Extra Strength, Vitrified Clay Pipe	222.30	
For 3' Lengths, Add	51.55	
For 2' Lengths, Add	68.73	
For Standard Strength, Deduct	-17.18	
For >1,000, Deduct	-11.12	
33 42 11 00-0388 LF 24" Compression Joint, Extra Strength, Vitrified Clay Pipe	292.01	
For 3' Lengths, Add	69.21	
For 2' Lengths, Add	92.28	
For Standard Strength, Deduct	-23.07	
For >1,000, Deduct	-14.60	
33 42 11 00-0389 LF 30" Compression Joint, Extra Strength, Vitrified Clay Pipe	475.76	
For 3' Lengths, Add	120.40	
For 2' Lengths, Add	160.53	
For Standard Strength, Deduct	-40.13	
For >1,000, Deduct	-23.79	
33 42 11 00-0390 LF 36" Compression Joint, Extra Strength, Vitrified Clay Pipe	681.57	
For 3' Lengths, Add	177.36	
For 2' Lengths, Add	236.48	
For Standard Strength, Deduct	-59.12	
For >1,000, Deduct	-34.08	
33 42 11 00-0391 Extra Strength, Vitrified Clay Pipe Fittings (33 42 11 00-0365)		
33 42 11 00-0392 1/8 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0391)		
33 42 11 00-0393 Plain End 1/8 Bend, Extra Strength, Vitrified Clay (33 42 11 00-0392)		
33 42 11 00-0394 EA 4" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	91.64	
33 42 11 00-0395 EA 6" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	125.76	
33 42 11 00-0396 EA 8" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	184.03	
33 42 11 00-0397 EA 10" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	258.50	
33 42 11 00-0398 EA 12" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	345.63	
33 42 11 00-0399 EA 15" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	855.66	
33 42 11 00-0400 EA 18" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	1,211.13	
33 42 11 00-0401 EA 21" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	1,899.52	
33 42 11 00-0402 EA 24" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	2,189.83	
33 42 11 00-0403 EA 30" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	2,538.58	
33 42 11 00-0404 EA 36" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	3,832.76	
33 42 11 00-0405 Compression Joint 1/8 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0392)		
33 42 11 00-0406 EA 4" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	102.64	
33 42 11 00-0407 EA 6" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	149.54	
33 42 11 00-0408 EA 8" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	206.24	
33 42 11 00-0409 EA 10" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	282.27	
33 42 11 00-0410 EA 12" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	361.87	
33 42 11 00-0411 EA 15" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	957.81	
33 42 11 00-0412 EA 18" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	1,399.97	
33 42 11 00-0413 EA 21" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	1,430.09	
33 42 11 00-0414 EA 24" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	2,808.40	
33 42 11 00-0415 EA 30" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	3,119.66	
33 42 11 00-0416 EA 36" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	4,660.90	

33 Utilities
33 40 Stormwater Utilities
33 42 Stormwater Conveyance



MINOR
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TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

33 42 11 00-0417		1/4 Bends, Extra Strength, Vitrified Clay <small>(33 42 11 00-0391)</small>		
33 42 11 00-0418		Plain End 1/4 Bends, Extra Strength, Vitrified Clay <small>(33 42 11 00-0417)</small>		
33 42 11 00-0419	EA	4" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	.....	105.05
33 42 11 00-0420	EA	6" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	.....	141.89
33 42 11 00-0421	EA	8" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	.....	202.90
33 42 11 00-0422	EA	10" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	.....	278.98
33 42 11 00-0423	EA	12" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	.....	368.71
33 42 11 00-0424	EA	15" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	.....	881.33
33 42 11 00-0425	EA	18" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	.....	1,243.15
33 42 11 00-0426	EA	21" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	.....	1,939.90
33 42 11 00-0427	EA	24" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	.....	2,238.86
33 42 11 00-0428	EA	30" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	.....	2,599.74
33 42 11 00-0429	EA	36" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	.....	3,900.74
33 42 11 00-0430		Compression Joint 1/4 Bends, Extra Strength, Vitrified Clay <small>(33 42 11 00-0417)</small>		
33 42 11 00-0431	EA	4" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	.....	118.72
33 42 11 00-0432	EA	6" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	.....	168.90
33 42 11 00-0433	EA	8" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	.....	228.89
33 42 11 00-0434	EA	10" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	.....	306.84
33 42 11 00-0435	EA	12" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	.....	389.56
33 42 11 00-0436	EA	15" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	.....	988.61
33 42 11 00-0437	EA	18" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	.....	1,438.39
33 42 11 00-0438	EA	21" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	.....	2,825.70
33 42 11 00-0439	EA	24" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	.....	2,867.25
33 42 11 00-0440	EA	30" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	.....	3,193.03
33 42 11 00-0441	EA	36" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	.....	4,742.47
33 42 11 00-0442		Wyes Or Tees, Extra Strength, Vitrified Clay <small>(33 42 11 00-0391)</small>		
33 42 11 00-0443		Plain End Wyes Or Tees, Extra Strength, Vitrified Clay <small>(33 42 11 00-0442)</small>		
33 42 11 00-0444	EA	4" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	.....	112.72
33 42 11 00-0445	EA	6" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	.....	149.40
33 42 11 00-0446	EA	8" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	.....	208.13
33 42 11 00-0447	EA	10" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	.....	282.50
33 42 11 00-0448	EA	12" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	.....	361.83
33 42 11 00-0449	EA	15" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	.....	881.95
33 42 11 00-0450	EA	18" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	.....	1,240.71
33 42 11 00-0451	EA	21" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	.....	1,802.45
33 42 11 00-0452	EA	24" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	.....	2,520.18
33 42 11 00-0453	EA	30" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	.....	2,651.85
33 42 11 00-0454	EA	36" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	.....	3,847.19
33 42 11 00-0455		Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay <small>(33 42 11 00-0442)</small>		
33 42 11 00-0456	EA	4" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	.....	138.20
33 42 11 00-0457	EA	6" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	.....	193.98
33 42 11 00-0458	EA	8" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	.....	260.18
33 42 11 00-0459	EA	10" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	.....	344.46
33 42 11 00-0460	EA	12" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	.....	434.67
33 42 11 00-0461	EA	15" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	.....	1,073.51
33 42 11 00-0462	EA	18" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	.....	1,557.10
33 42 11 00-0463	EA	21" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	.....	2,326.01
33 42 11 00-0464	EA	24" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	.....	3,090.57
33 42 11 00-0465	EA	30" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	.....	3,566.13
33 42 11 00-0466	EA	36" Compression Joint, Extra Strength, Vitrified Clay Wye Or Tee	.....	5,100.06
33 42 11 00-0467		Vitrified Clay Couplings <small>(33 42 11 00-0365)</small>		
33 42 11 00-0468		Vitrified Clay To Cast Iron Or Plastic Pipe Couplings <small>(33 42 11 00-0467)</small>		
Note: Stainless steel tightening band at each end (Fernco #1002)				
33 42 11 00-0469	EA	4" x 3" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	.....	36.68
33 42 11 00-0470	EA	4" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	.....	36.29
33 42 11 00-0471	EA	5" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	.....	51.21
33 42 11 00-0472	EA	5" x 5" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	.....	48.04
33 42 11 00-0473	EA	6" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	.....	63.26
33 42 11 00-0474	EA	6" x 5" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	.....	66.02
33 42 11 00-0475	EA	6" x 6" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	.....	59.92
33 42 11 00-0476	EA	8" x 6" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	.....	88.59
33 42 11 00-0477	EA	8" x 8" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	.....	81.62
33 42 11 00-0478	EA	10" x 8" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	.....	117.05
33 42 11 00-0479	EA	10" x 10" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	.....	106.28
33 42 11 00-0480	EA	12" x 10" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	.....	146.31
33 42 11 00-0481	EA	12" x 12" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	.....	121.58
33 42 11 00-0482	EA	15" x 12" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	.....	250.56
33 42 11 00-0483	EA	15" x 15" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	191.62



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Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0484 Vitrified Clay To Vitrified Clay Pipe Non-Shear Couplings <small>(33 42 11 00-0467)</small>		
<i>Note: Stainless steel tightening band at each end. (NDS Non-shear)</i>		
33 42 11 00-0485 EA 4" x 4" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	54.92	
33 42 11 00-0486 EA 6" x 4" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	72.55	
33 42 11 00-0487 EA 6" x 6" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	76.46	
33 42 11 00-0488 EA 8" x 8" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	80.16	
33 42 11 00-0489 EA 10" x 10" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	98.23	
33 42 11 00-0490 EA 12" x 12" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	113.51	
33 42 11 00-0491 Vitrified Clay To Plastic Pipe Non-Shear Couplings <small>(33 42 11 00-0467)</small>		
<i>Note: Stainless steel tightening band at each end. (NDS Non-shear)</i>		
33 42 11 00-0492 EA 4" x 4" Vitrified Clay To Plastic Pipe Non-Shear Coupling	56.23	
33 42 11 00-0493 EA 6" x 4" Vitrified Clay To Plastic Pipe Non-Shear Coupling	73.86	
33 42 11 00-0494 EA 6" x 6" Vitrified Clay To Plastic Pipe Non-Shear Coupling	68.02	
33 42 11 00-0495 EA 8" x 8" Vitrified Clay To Plastic Pipe Non-Shear Coupling	88.01	
33 42 11 00-0496 EA 10" x 10" Vitrified Clay To Plastic Pipe Non-Shear Coupling	125.71	
33 42 11 00-0497 EA 12" x 12" Vitrified Clay To Plastic Pipe Non-Shear Coupling	141.72	
33 42 11 00-0498 Corrugated Metal Piping <small>(33 42 11)</small>		
33 42 11 00-0499 Galvanized Corrugated Steel Piping <small>(33 42 11 00-0498)</small>		
33 42 11 00-0500 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0499)</small>		
33 42 11 00-0501 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0500)</small>		
33 42 11 00-0502 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	30.57	8.91
<i>For Bituminous Coated Pipe, Add</i>		
	2.92	
<i>For Bituminous Coated And 25% Paved, Add</i>		
	5.96	
<i>For Smooth-Flo, Add</i>		
	10.65	
33 42 11 00-0503 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	34.35	9.34
<i>For Bituminous Coated Pipe, Add</i>		
	3.67	
<i>For Bituminous Coated And 25% Paved, Add</i>		
	7.51	
<i>For Smooth-Flo, Add</i>		
	13.41	
33 42 11 00-0504 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	38.26	10.19
<i>For Bituminous Coated Pipe, Add</i>		
	4.45	
<i>For Bituminous Coated And 25% Paved, Add</i>		
	9.10	
<i>For Smooth-Flo, Add</i>		
	16.25	
33 42 11 00-0505 LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	43.44	11.04
<i>For Bituminous Coated Pipe, Add</i>		
	5.32	
<i>For Bituminous Coated And 25% Paved, Add</i>		
	10.89	
<i>For Smooth-Flo, Add</i>		
	19.44	
33 42 11 00-0506 LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	48.04	11.88
<i>For Bituminous Coated Pipe, Add</i>		
	5.99	
<i>For Bituminous Coated And 25% Paved, Add</i>		
	12.25	
<i>For Smooth-Flo, Add</i>		
	21.87	
33 42 11 00-0507 LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	63.45	15.28
<i>For Bituminous Coated Pipe, Add</i>		
	7.77	
<i>For Bituminous Coated And 25% Paved, Add</i>		
	15.89	
<i>For Smooth-Flo, Add</i>		
	28.38	
33 42 11 00-0508 LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	82.95	20.02
<i>For Bituminous Coated Pipe, Add</i>		
	9.80	
<i>For Bituminous Coated And 25% Paved, Add</i>		
	20.04	
<i>For Smooth-Flo, Add</i>		
	35.79	
33 42 11 00-0509 LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	94.23	23.66
<i>For Bituminous Coated Pipe, Add</i>		
	11.59	
<i>For Bituminous Coated And 25% Paved, Add</i>		
	23.72	
<i>For Smooth-Flo, Add</i>		
	42.35	
33 42 11 00-0510 LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	105.93	27.30
<i>For Bituminous Coated Pipe, Add</i>		
	12.99	
<i>For Bituminous Coated And 25% Paved, Add</i>		
	26.57	
<i>For Smooth-Flo, Add</i>		
	47.44	
33 42 11 00-0511 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0500)</small>		
33 42 11 00-0512 LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	33.18	8.91
<i>For Bituminous Coated Pipe, Add</i>		
	2.96	
<i>For Bituminous Coated And 25% Paved, Add</i>		
	6.86	
<i>For Smooth-Flo, Add</i>		
	13.87	
33 42 11 00-0513 LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	37.56	9.34
<i>For Bituminous Coated Pipe, Add</i>		
	3.71	
<i>For Bituminous Coated And 25% Paved, Add</i>		
	8.60	
<i>For Smooth-Flo, Add</i>		
	17.39	
33 42 11 00-0514 LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	42.14	10.19
<i>For Bituminous Coated Pipe, Add</i>		
	4.50	
<i>For Bituminous Coated And 25% Paved, Add</i>		
	10.42	
<i>For Smooth-Flo, Add</i>		
	21.06	
33 42 11 00-0515 LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	47.92	11.04
<i>For Bituminous Coated Pipe, Add</i>		
	5.35	
<i>For Bituminous Coated And 25% Paved, Add</i>		
	12.39	
<i>For Smooth-Flo, Add</i>		
	25.04	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0516 LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	53.25	11.88
For Bituminous Coated Pipe, Add	6.05	
For Bituminous Coated And 25% Paved, Add	14.02	
For Smooth-Flo, Add	28.33	
33 42 11 00-0517 LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	69.81	15.28
For Bituminous Coated Pipe, Add	7.77	
For Bituminous Coated And 25% Paved, Add	18.00	
For Smooth-Flo, Add	36.38	
33 42 11 00-0518 LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	90.68	20.02
For Bituminous Coated Pipe, Add	9.74	
For Bituminous Coated And 25% Paved, Add	22.57	
For Smooth-Flo, Add	45.62	
33 42 11 00-0519 LF 42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	103.08	23.66
For Bituminous Coated Pipe, Add	11.47	
For Bituminous Coated And 25% Paved, Add	26.56	
For Smooth-Flo, Add	53.69	
33 42 11 00-0520 LF 48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	116.04	27.30
For Bituminous Coated Pipe, Add	12.88	
For Bituminous Coated And 25% Paved, Add	29.85	
For Smooth-Flo, Add	60.34	
33 42 11 00-0521 LF 54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	138.38	30.93
For Bituminous Coated Pipe, Add	15.84	
For Bituminous Coated And 25% Paved, Add	36.71	
For Smooth-Flo, Add	74.20	
33 42 11 00-0522 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping⁽³³⁾		
<small>42 11 00-0500</small>		
33 42 11 00-0523 LF 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	50.17	10.19
For Bituminous Coated Pipe, Add	5.15	
For Bituminous Coated And 25% Paved, Add	9.30	
For Smooth-Flo, Add	17.87	
33 42 11 00-0524 LF 21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	57.25	11.04
For Bituminous Coated Pipe, Add	6.09	
For Bituminous Coated And 25% Paved, Add	10.99	
For Smooth-Flo, Add	21.12	
33 42 11 00-0525 LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	63.88	11.04
For Bituminous Coated Pipe, Add	6.90	
For Bituminous Coated And 25% Paved, Add	12.46	
For Smooth-Flo, Add	23.94	
33 42 11 00-0526 LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	82.96	15.28
For Bituminous Coated Pipe, Add	8.77	
For Bituminous Coated And 25% Paved, Add	15.84	
For Smooth-Flo, Add	30.45	
33 42 11 00-0527 LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	106.27	20.02
For Bituminous Coated Pipe, Add	10.85	
For Bituminous Coated And 25% Paved, Add	19.59	
For Smooth-Flo, Add	37.65	
33 42 11 00-0528 LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	121.10	23.66
For Bituminous Coated Pipe, Add	12.71	
For Bituminous Coated And 25% Paved, Add	22.96	
For Smooth-Flo, Add	44.12	
33 42 11 00-0529 LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	136.70	27.30
For Bituminous Coated Pipe, Add	14.35	
For Bituminous Coated And 25% Paved, Add	25.92	
For Smooth-Flo, Add	49.82	
33 42 11 00-0530 LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	161.19	30.93
For Bituminous Coated Pipe, Add	17.21	
For Bituminous Coated And 25% Paved, Add	31.08	
For Smooth-Flo, Add	59.74	
33 42 11 00-0531 LF 60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	176.21	32.75
For Bituminous Coated Pipe, Add	18.85	
For Bituminous Coated And 25% Paved, Add	34.04	
For Smooth-Flo, Add	65.42	
33 42 11 00-0532 LF 66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	213.37	40.04
For Bituminous Coated Pipe, Add	22.95	
For Bituminous Coated And 25% Paved, Add	41.44	
For Smooth-Flo, Add	79.64	
33 42 11 00-0533 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping⁽³³⁾		
<small>42 11 00-0500</small>		
33 42 11 00-0534 LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	120.87	20.02
For Bituminous Coated Pipe, Add	13.80	
For Bituminous Coated And 25% Paved, Add	23.05	
For Smooth-Flo, Add	32.89	
33 42 11 00-0535 LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	138.18	23.66
For Bituminous Coated Pipe, Add	16.17	
For Bituminous Coated And 25% Paved, Add	27.01	
For Smooth-Flo, Add	38.54	
33 42 11 00-0536 LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	156.08	27.30
For Bituminous Coated Pipe, Add	18.27	
For Bituminous Coated And 25% Paved, Add	30.52	
For Smooth-Flo, Add	43.55	



	Utilities	33	
	Stormwater Utilities	33 40	33
	Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0537	LF		54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	182.90 21.64 36.15 51.58	30.93
33 42 11 00-0538	LF		60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	200.38 23.77 39.70 56.65	32.75
33 42 11 00-0539	LF		66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	239.94 28.43 47.50 67.77	40.04
33 42 11 00-0540	LF		72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	289.26 30.53 50.99 72.76	58.23
33 42 11 00-0541			3" x 1" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0499)</small>		
33 42 11 00-0542			16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0541)</small>		
33 42 11 00-0543	LF		36" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	96.34 10.78 24.46 48.71	20.02
33 42 11 00-0544	LF		42" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	109.59 12.65 28.72 57.20	23.66
33 42 11 00-0545	LF		48" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	123.22 14.19 32.22 64.15	27.30
33 42 11 00-0546	LF		54" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	146.62 17.34 39.35 78.36	30.93
33 42 11 00-0547	LF		60" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	159.76 18.89 42.87 85.36	32.75
33 42 11 00-0548	LF		66" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	199.69 24.26 55.07 109.66	40.04
33 42 11 00-0549	LF		72" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	245.10 25.86 58.70 116.88	58.23
33 42 11 00-0550	LF		78" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	264.70 27.46 62.34 124.14	63.70
33 42 11 00-0551	LF		84" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	281.82 29.07 65.98 131.39	68.24
33 42 11 00-0552	LF		90" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	298.98 30.68 69.64 138.67	72.79
33 42 11 00-0553	LF		96" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	316.74 32.28 73.27 145.90	77.34
33 42 11 00-0554	LF		102" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	337.09 33.90 76.94 153.21	81.89
33 42 11 00-0555			14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0541)</small>		
33 42 11 00-0556	LF		54" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	160.28 20.07 39.33 79.47	30.93
33 42 11 00-0557	LF		60" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	174.87 21.91 42.94 86.76	32.75
33 42 11 00-0558	LF		66" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	216.31 27.58 54.06 109.23	40.04

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0559 LF 72" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	263.21	58.23
<i>For Bituminous Coated Pipe, Add</i>	29.48	
<i>For Bituminous Coated And 25% Paved, Add</i>	57.78	
<i>For Smooth-Flo, Add</i>	116.74	
33 42 11 00-0560 LF 78" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	284.26	63.70
<i>For Bituminous Coated Pipe, Add</i>	31.38	
<i>For Bituminous Coated And 25% Paved, Add</i>	61.50	
<i>For Smooth-Flo, Add</i>	124.25	
33 42 11 00-0561 LF 84" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	302.93	68.24
<i>For Bituminous Coated Pipe, Add</i>	33.29	
<i>For Bituminous Coated And 25% Paved, Add</i>	65.25	
<i>For Smooth-Flo, Add</i>	131.83	
33 42 11 00-0562 LF 90" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	321.51	72.79
<i>For Bituminous Coated Pipe, Add</i>	35.19	
<i>For Bituminous Coated And 25% Paved, Add</i>	68.96	
<i>For Smooth-Flo, Add</i>	139.34	
33 42 11 00-0563 LF 96" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	340.76	77.34
<i>For Bituminous Coated Pipe, Add</i>	37.08	
<i>For Bituminous Coated And 25% Paved, Add</i>	72.68	
<i>For Smooth-Flo, Add</i>	146.84	
33 42 11 00-0564 LF 102" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	362.56	81.89
<i>For Bituminous Coated Pipe, Add</i>	38.99	
<i>For Bituminous Coated And 25% Paved, Add</i>	76.42	
<i>For Smooth-Flo, Add</i>	154.40	
33 42 11 00-0565 LF 108" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	386.47	90.99
<i>For Bituminous Coated Pipe, Add</i>	40.90	
<i>For Bituminous Coated And 25% Paved, Add</i>	80.16	
<i>For Smooth-Flo, Add</i>	161.96	
33 42 11 00-0566 LF 114" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	409.82	100.09
<i>For Bituminous Coated Pipe, Add</i>	42.77	
<i>For Bituminous Coated And 25% Paved, Add</i>	83.83	
<i>For Smooth-Flo, Add</i>	169.37	
33 42 11 00-0567 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-		
0541)		
33 42 11 00-0568 LF 60" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	208.40	32.75
<i>For Bituminous Coated Pipe, Add</i>	28.61	
<i>For Bituminous Coated And 25% Paved, Add</i>	54.51	
<i>For Smooth-Flo, Add</i>	88.85	
33 42 11 00-0569 LF 66" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	253.44	40.04
<i>For Bituminous Coated Pipe, Add</i>	35.01	
<i>For Bituminous Coated And 25% Paved, Add</i>	66.69	
<i>For Smooth-Flo, Add</i>	108.71	
33 42 11 00-0570 LF 72" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	303.58	58.23
<i>For Bituminous Coated Pipe, Add</i>	37.55	
<i>For Bituminous Coated And 25% Paved, Add</i>	71.54	
<i>For Smooth-Flo, Add</i>	116.61	
33 42 11 00-0571 LF 78" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	327.90	63.70
<i>For Bituminous Coated Pipe, Add</i>	40.10	
<i>For Bituminous Coated And 25% Paved, Add</i>	76.40	
<i>For Smooth-Flo, Add</i>	124.52	
33 42 11 00-0572 LF 84" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	349.81	68.24
<i>For Bituminous Coated Pipe, Add</i>	42.67	
<i>For Bituminous Coated And 25% Paved, Add</i>	81.28	
<i>For Smooth-Flo, Add</i>	132.48	
33 42 11 00-0573 LF 90" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	371.66	72.79
<i>For Bituminous Coated Pipe, Add</i>	45.22	
<i>For Bituminous Coated And 25% Paved, Add</i>	86.14	
<i>For Smooth-Flo, Add</i>	140.40	
33 42 11 00-0574 LF 96" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	394.22	77.34
<i>For Bituminous Coated Pipe, Add</i>	47.77	
<i>For Bituminous Coated And 25% Paved, Add</i>	91.01	
<i>For Smooth-Flo, Add</i>	148.34	
33 42 11 00-0575 LF 102" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	419.29	81.89
<i>For Bituminous Coated Pipe, Add</i>	50.34	
<i>For Bituminous Coated And 25% Paved, Add</i>	95.89	
<i>For Smooth-Flo, Add</i>	156.29	
33 42 11 00-0576 LF 108" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	446.41	90.99
<i>For Bituminous Coated Pipe, Add</i>	52.89	
<i>For Bituminous Coated And 25% Paved, Add</i>	100.75	
<i>For Smooth-Flo, Add</i>	164.21	
33 42 11 00-0577 LF 114" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	473.06	100.09
<i>For Bituminous Coated Pipe, Add</i>	55.42	
<i>For Bituminous Coated And 25% Paved, Add</i>	105.57	
<i>For Smooth-Flo, Add</i>	172.07	
33 42 11 00-0578 LF 120" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	498.73	109.19
<i>For Bituminous Coated Pipe, Add</i>	57.98	
<i>For Bituminous Coated And 25% Paved, Add</i>	110.45	
<i>For Smooth-Flo, Add</i>	180.03	

33 42 11 00-0579 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-
0541)



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0580 LF 72" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	341.23	58.23
For Bituminous Coated Pipe, Add	45.08	
For Bituminous Coated And 25% Paved, Add	85.66	
For Smooth-Flo, Add	114.51	
33 42 11 00-0581 LF 78" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	368.64	63.70
For Bituminous Coated Pipe, Add	48.25	
For Bituminous Coated And 25% Paved, Add	91.68	
For Smooth-Flo, Add	122.56	
33 42 11 00-0582 LF 84" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	393.64	68.24
For Bituminous Coated Pipe, Add	51.43	
For Bituminous Coated And 25% Paved, Add	97.72	
For Smooth-Flo, Add	130.64	
33 42 11 00-0583 LF 90" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	418.58	72.79
For Bituminous Coated Pipe, Add	54.60	
For Bituminous Coated And 25% Paved, Add	103.74	
For Smooth-Flo, Add	138.68	
33 42 11 00-0584 LF 96" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	444.22	77.34
For Bituminous Coated Pipe, Add	57.77	
For Bituminous Coated And 25% Paved, Add	109.77	
For Smooth-Flo, Add	146.75	
33 42 11 00-0585 LF 102" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	472.38	81.89
For Bituminous Coated Pipe, Add	60.95	
For Bituminous Coated And 25% Paved, Add	115.81	
For Smooth-Flo, Add	154.82	
33 42 11 00-0586 LF 108" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	502.59	90.99
For Bituminous Coated Pipe, Add	64.12	
For Bituminous Coated And 25% Paved, Add	121.83	
For Smooth-Flo, Add	162.87	
33 42 11 00-0587 LF 114" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	532.30	100.09
For Bituminous Coated Pipe, Add	67.27	
For Bituminous Coated And 25% Paved, Add	127.81	
For Smooth-Flo, Add	170.86	
33 42 11 00-0588 LF 120" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	561.09	109.19
For Bituminous Coated Pipe, Add	70.45	
For Bituminous Coated And 25% Paved, Add	133.86	
For Smooth-Flo, Add	178.95	
33 42 11 00-0589 LF 126" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	591.52	118.29
For Bituminous Coated Pipe, Add	73.61	
For Bituminous Coated And 25% Paved, Add	139.86	
For Smooth-Flo, Add	186.96	
33 42 11 00-0590 LF 132" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	624.29	127.38
For Bituminous Coated Pipe, Add	76.79	
For Bituminous Coated And 25% Paved, Add	145.90	
For Smooth-Flo, Add	195.04	
33 42 11 00-0591 LF 138" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	659.84	136.49
For Bituminous Coated Pipe, Add	79.97	
For Bituminous Coated And 25% Paved, Add	151.95	
For Smooth-Flo, Add	203.13	
33 42 11 00-0592 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0499)		
33 42 11 00-0593 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0592)		
33 42 11 00-0594 LF 48" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	123.61	27.30
For Bituminous Coated Pipe, Add	17.84	
For Bituminous Coated And 25% Paved, Add	40.67	
For Smooth-Flo, Add	64.57	
33 42 11 00-0595 LF 54" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	147.38	30.93
For Bituminous Coated Pipe, Add	21.86	
For Bituminous Coated And 25% Paved, Add	49.84	
For Smooth-Flo, Add	79.13	
33 42 11 00-0596 LF 60" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	160.43	32.75
For Bituminous Coated Pipe, Add	23.78	
For Bituminous Coated And 25% Paved, Add	54.21	
For Smooth-Flo, Add	86.07	
33 42 11 00-0597 LF 66" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	198.11	40.04
For Bituminous Coated Pipe, Add	29.93	
For Bituminous Coated And 25% Paved, Add	68.24	
For Smooth-Flo, Add	108.35	
33 42 11 00-0598 LF 72" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	243.34	58.23
For Bituminous Coated Pipe, Add	31.88	
For Bituminous Coated And 25% Paved, Add	72.69	
For Smooth-Flo, Add	115.41	
33 42 11 00-0599 LF 78" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	262.70	63.70
For Bituminous Coated Pipe, Add	33.83	
For Bituminous Coated And 25% Paved, Add	77.13	
For Smooth-Flo, Add	122.46	
33 42 11 00-0600 LF 84" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	279.55	68.24
For Bituminous Coated Pipe, Add	35.77	
For Bituminous Coated And 25% Paved, Add	81.55	
For Smooth-Flo, Add	129.48	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0601 LF 90" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	296.37	72.79
For Bituminous Coated Pipe, Add	37.70	
For Bituminous Coated And 25% Paved, Add	85.95	
For Smooth-Flo, Add	136.46	
33 42 11 00-0602 LF 96" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	313.99	77.34
For Bituminous Coated Pipe, Add	39.66	
For Bituminous Coated And 25% Paved, Add	90.42	
For Smooth-Flo, Add	143.57	
33 42 11 00-0603 LF 102" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	334.27	81.89
For Bituminous Coated Pipe, Add	41.67	
For Bituminous Coated And 25% Paved, Add	95.00	
For Smooth-Flo, Add	150.83	
33 42 11 00-0604 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel		
Piping (33 42 11 00-0592)		
33 42 11 00-0605 LF 54" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	164.46	30.93
For Bituminous Coated Pipe, Add	20.90	
For Bituminous Coated And 25% Paved, Add	49.12	
For Smooth-Flo, Add	88.95	
33 42 11 00-0606 LF 60" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	179.42	32.75
For Bituminous Coated Pipe, Add	22.82	
For Bituminous Coated And 25% Paved, Add	53.62	
For Smooth-Flo, Add	97.09	
33 42 11 00-0607 LF 66" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	218.83	40.04
For Bituminous Coated Pipe, Add	28.09	
For Bituminous Coated And 25% Paved, Add	66.01	
For Smooth-Flo, Add	119.51	
33 42 11 00-0608 LF 72" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	265.73	58.23
For Bituminous Coated Pipe, Add	29.98	
For Bituminous Coated And 25% Paved, Add	70.46	
For Smooth-Flo, Add	127.58	
33 42 11 00-0609 LF 78" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	287.11	63.70
For Bituminous Coated Pipe, Add	31.95	
For Bituminous Coated And 25% Paved, Add	75.07	
For Smooth-Flo, Add	135.93	
33 42 11 00-0610 LF 84" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	305.87	68.24
For Bituminous Coated Pipe, Add	33.88	
For Bituminous Coated And 25% Paved, Add	79.61	
For Smooth-Flo, Add	144.15	
33 42 11 00-0611 LF 90" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	323.63	72.79
For Bituminous Coated Pipe, Add	35.61	
For Bituminous Coated And 25% Paved, Add	83.68	
For Smooth-Flo, Add	151.52	
33 42 11 00-0612 LF 96" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	344.00	77.34
For Bituminous Coated Pipe, Add	37.73	
For Bituminous Coated And 25% Paved, Add	88.67	
For Smooth-Flo, Add	160.54	
33 42 11 00-0613 LF 102" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	365.89	81.89
For Bituminous Coated Pipe, Add	39.66	
For Bituminous Coated And 25% Paved, Add	93.19	
For Smooth-Flo, Add	168.74	
33 42 11 00-0614 LF 108" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	389.80	90.99
For Bituminous Coated Pipe, Add	41.56	
For Bituminous Coated And 25% Paved, Add	97.68	
For Smooth-Flo, Add	176.85	
33 42 11 00-0615 LF 114" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	413.57	100.09
For Bituminous Coated Pipe, Add	43.52	
For Bituminous Coated And 25% Paved, Add	102.27	
For Smooth-Flo, Add	185.18	
33 42 11 00-0616 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel		
Piping (33 42 11 00-0592)		
33 42 11 00-0617 LF 60" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	214.97	32.75
For Bituminous Coated Pipe, Add	29.93	
For Bituminous Coated And 25% Paved, Add	56.86	
For Smooth-Flo, Add	102.65	
33 42 11 00-0618 LF 66" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	257.99	40.04
For Bituminous Coated Pipe, Add	35.92	
For Bituminous Coated And 25% Paved, Add	68.25	
For Smooth-Flo, Add	123.21	
33 42 11 00-0619 LF 72" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	308.61	58.23
For Bituminous Coated Pipe, Add	38.56	
For Bituminous Coated And 25% Paved, Add	73.26	
For Smooth-Flo, Add	132.26	
33 42 11 00-0620 LF 78" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	333.29	63.70
For Bituminous Coated Pipe, Add	41.18	
For Bituminous Coated And 25% Paved, Add	78.25	
For Smooth-Flo, Add	141.25	
33 42 11 00-0621 LF 84" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	355.39	68.24
For Bituminous Coated Pipe, Add	43.78	
For Bituminous Coated And 25% Paved, Add	83.19	
For Smooth-Flo, Add	150.17	



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0622	LF		90" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	377.66	72.79
			<i>For Bituminous Coated Pipe, Add</i>	46.42	
			<i>For Bituminous Coated And 25% Paved, Add</i>	88.19	
			<i>For Smooth-Flo, Add</i>	159.21	
33 42 11 00-0623	LF		96" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	400.52	77.34
			<i>For Bituminous Coated Pipe, Add</i>	49.03	
			<i>For Bituminous Coated And 25% Paved, Add</i>	93.16	
			<i>For Smooth-Flo, Add</i>	168.19	
33 42 11 00-0624	LF		102" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	425.83	81.89
			<i>For Bituminous Coated Pipe, Add</i>	51.64	
			<i>For Bituminous Coated And 25% Paved, Add</i>	98.12	
			<i>For Smooth-Flo, Add</i>	177.14	
33 42 11 00-0625	LF		108" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	453.37	90.99
			<i>For Bituminous Coated Pipe, Add</i>	54.28	
			<i>For Bituminous Coated And 25% Paved, Add</i>	103.13	
			<i>For Smooth-Flo, Add</i>	186.17	
33 42 11 00-0626	LF		114" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	480.45	100.09
			<i>For Bituminous Coated Pipe, Add</i>	56.90	
			<i>For Bituminous Coated And 25% Paved, Add</i>	108.10	
			<i>For Smooth-Flo, Add</i>	195.15	
33 42 11 00-0627	LF		120" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	506.39	109.19
			<i>For Bituminous Coated Pipe, Add</i>	59.51	
			<i>For Bituminous Coated And 25% Paved, Add</i>	113.07	
			<i>For Smooth-Flo, Add</i>	204.13	
33 42 11 00-0628			10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0592)</small>		
33 42 11 00-0629	LF		72" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	349.68	58.23
			<i>For Bituminous Coated Pipe, Add</i>	46.77	
			<i>For Bituminous Coated And 25% Paved, Add</i>	88.87	
			<i>For Smooth-Flo, Add</i>	139.62	
33 42 11 00-0630	LF		78" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	378.18	63.70
			<i>For Bituminous Coated Pipe, Add</i>	50.16	
			<i>For Bituminous Coated And 25% Paved, Add</i>	95.30	
			<i>For Smooth-Flo, Add</i>	149.73	
33 42 11 00-0631	LF		84" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	403.84	68.24
			<i>For Bituminous Coated Pipe, Add</i>	53.47	
			<i>For Bituminous Coated And 25% Paved, Add</i>	101.60	
			<i>For Smooth-Flo, Add</i>	159.61	
33 42 11 00-0632	LF		90" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	429.36	72.79
			<i>For Bituminous Coated Pipe, Add</i>	56.76	
			<i>For Bituminous Coated And 25% Paved, Add</i>	107.84	
			<i>For Smooth-Flo, Add</i>	169.42	
33 42 11 00-0633	LF		96" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	455.73	77.34
			<i>For Bituminous Coated Pipe, Add</i>	60.08	
			<i>For Bituminous Coated And 25% Paved, Add</i>	114.14	
			<i>For Smooth-Flo, Add</i>	179.33	
33 42 11 00-0634	LF		102" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	484.43	81.89
			<i>For Bituminous Coated Pipe, Add</i>	63.36	
			<i>For Bituminous Coated And 25% Paved, Add</i>	120.39	
			<i>For Smooth-Flo, Add</i>	189.14	
33 42 11 00-0635	LF		108" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	515.37	90.99
			<i>For Bituminous Coated Pipe, Add</i>	66.68	
			<i>For Bituminous Coated And 25% Paved, Add</i>	126.69	
			<i>For Smooth-Flo, Add</i>	199.03	
33 42 11 00-0636	LF		114" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	545.89	100.09
			<i>For Bituminous Coated Pipe, Add</i>	69.98	
			<i>For Bituminous Coated And 25% Paved, Add</i>	132.97	
			<i>For Smooth-Flo, Add</i>	208.90	
33 42 11 00-0637	LF		120" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	575.20	109.19
			<i>For Bituminous Coated Pipe, Add</i>	73.27	
			<i>For Bituminous Coated And 25% Paved, Add</i>	139.22	
			<i>For Smooth-Flo, Add</i>	218.72	
33 42 11 00-0638	LF		126" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	611.56	118.29
			<i>For Bituminous Coated Pipe, Add</i>	77.62	
			<i>For Bituminous Coated And 25% Paved, Add</i>	147.47	
			<i>For Smooth-Flo, Add</i>	231.68	
33 42 11 00-0639	LF		132" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	646.33	127.38
			<i>For Bituminous Coated Pipe, Add</i>	81.20	
			<i>For Bituminous Coated And 25% Paved, Add</i>	154.27	
			<i>For Smooth-Flo, Add</i>	242.37	
33 42 11 00-0640	LF		138" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	684.55	136.49
			<i>For Bituminous Coated Pipe, Add</i>	84.92	
			<i>For Bituminous Coated And 25% Paved, Add</i>	161.34	
			<i>For Smooth-Flo, Add</i>	253.47	
33 42 11 00-0641			Helical Ribbed, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0499)</small>		
33 42 11 00-0642			16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0641)</small>		
33 42 11 00-0643	LF		18" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	43.47	10.19
			<i>For Bituminous Coated Pipe, Add</i>	5.50	
33 42 11 00-0644	LF		21" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	49.56	11.04
			<i>For Bituminous Coated Pipe, Add</i>	6.55	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0645 LF 24" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	55.22	11.88
For Bituminous Coated Pipe, Add	7.44	
33 42 11 00-0646 LF 30" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	72.48	15.28
For Bituminous Coated Pipe, Add	9.58	
33 42 11 00-0647 LF 36" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	94.01	20.02
For Bituminous Coated Pipe, Add	12.01	
33 42 11 00-0648 LF 42" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	107.10	23.66
For Bituminous Coated Pipe, Add	14.16	
33 42 11 00-0649 LF 48" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	120.68	27.30
For Bituminous Coated Pipe, Add	15.94	
33 42 11 00-0650 LF 54" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	143.74	30.93
For Bituminous Coated Pipe, Add	19.53	
33 42 11 00-0651 LF 60" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	156.82	32.75
For Bituminous Coated Pipe, Add	21.32	
33 42 11 00-0652 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0641)		
33 42 11 00-0653 LF 18" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	47.41	10.19
For Bituminous Coated Pipe, Add	6.36	
33 42 11 00-0654 LF 21" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	54.16	11.04
For Bituminous Coated Pipe, Add	7.56	
33 42 11 00-0655 LF 24" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	60.46	11.88
For Bituminous Coated Pipe, Add	8.58	
33 42 11 00-0656 LF 30" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	78.99	15.28
For Bituminous Coated Pipe, Add	11.00	
33 42 11 00-0657 LF 36" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	101.85	20.02
For Bituminous Coated Pipe, Add	13.72	
33 42 11 00-0658 LF 42" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	116.28	23.66
For Bituminous Coated Pipe, Add	16.16	
33 42 11 00-0659 LF 48" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	131.16	27.30
For Bituminous Coated Pipe, Add	18.23	
33 42 11 00-0660 LF 54" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	155.52	30.93
For Bituminous Coated Pipe, Add	22.08	
33 42 11 00-0661 LF 60" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	169.94	32.75
For Bituminous Coated Pipe, Add	24.16	
33 42 11 00-0662 LF 66" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	208.35	40.04
For Bituminous Coated Pipe, Add	30.02	
33 42 11 00-0663 LF 72" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	254.67	58.23
For Bituminous Coated Pipe, Add	32.08	
33 42 11 00-0664 LF 78" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	275.30	63.70
For Bituminous Coated Pipe, Add	34.17	
33 42 11 00-0665 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0641)		
33 42 11 00-0666 LF 30" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	92.19	15.28
For Bituminous Coated Pipe, Add	11.50	
33 42 11 00-0667 LF 36" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	117.63	20.02
For Bituminous Coated Pipe, Add	14.21	
33 42 11 00-0668 LF 42" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	134.76	23.66
For Bituminous Coated Pipe, Add	16.72	
33 42 11 00-0669 LF 48" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	152.23	27.30
For Bituminous Coated Pipe, Add	18.89	
33 42 11 00-0670 LF 54" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	179.27	30.93
For Bituminous Coated Pipe, Add	22.55	
33 42 11 00-0671 LF 60" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	196.35	32.75
For Bituminous Coated Pipe, Add	24.76	
33 42 11 00-0672 LF 66" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	237.33	40.04
For Bituminous Coated Pipe, Add	30.04	
33 42 11 00-0673 LF 72" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	286.26	58.23
For Bituminous Coated Pipe, Add	32.22	
33 42 11 00-0674 LF 78" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	309.49	63.70
For Bituminous Coated Pipe, Add	34.42	
33 42 11 00-0675 LF 84" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	330.19	68.24
For Bituminous Coated Pipe, Add	36.61	
33 42 11 00-0676 LF 90" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	350.86	72.79
For Bituminous Coated Pipe, Add	38.80	
33 42 11 00-0677 LF 96" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	372.20	77.34
For Bituminous Coated Pipe, Add	40.98	
33 42 11 00-0678 LF 102" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	394.75	81.89
For Bituminous Coated Pipe, Add	42.93	
33 42 11 00-0679 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0499)		
33 42 11 00-0680 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0679)		
33 42 11 00-0681 LF 6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	15.92	5.09
For Bituminous Coated Pipe, Add	1.40	
33 42 11 00-0682 LF 6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	17.10	5.09
For Bituminous Coated Pipe, Add	1.69	
33 42 11 00-0683 LF 8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	19.95	6.37
For Bituminous Coated Pipe, Add	1.86	
33 42 11 00-0684 LF 8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	21.44	6.37
For Bituminous Coated Pipe, Add	2.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0685 LF 10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	25.21 2.33	7.65
33 42 11 00-0686 LF 10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	27.10 2.80	7.65
33 42 11 00-0687 Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 <small>42 11 00-0679)</small>		
33 42 11 00-0688 LF 6" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	16.09 1.39	5.09
33 42 11 00-0689 LF 6" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	17.22 1.65	5.09
33 42 11 00-0690 LF 8" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	20.11 1.82	6.37
33 42 11 00-0691 LF 8" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	21.69 2.19	6.37
33 42 11 00-0692 LF 10" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	25.49 2.31	7.65
33 42 11 00-0693 LF 10" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	27.43 2.76	7.65
33 42 11 00-0694 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe Fittings (33 42 11 00- <small>0679)</small>		
33 42 11 00-0695 EA 6" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	8.68 1.95	
33 42 11 00-0696 EA 8" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	11.48 2.58	
33 42 11 00-0697 EA 10" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	14.08 3.17	
33 42 11 00-0698 EA 6" 18 Gauge, Band Elbows For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	31.29 4.32	
33 42 11 00-0699 EA 6" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	7.54 0.99	
33 42 11 00-0700 EA 8" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	9.45 1.48	
33 42 11 00-0701 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0499)		
33 42 11 00-0702 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 <small>11 00-0701)</small>		
33 42 11 00-0703 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	47.79	8.91
33 42 11 00-0704 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	56.06	9.34
33 42 11 00-0705 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	64.58	10.19
33 42 11 00-0706 LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	74.89	11.04
33 42 11 00-0707 LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	83.48	11.88
33 42 11 00-0708 LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	109.36	15.28
33 42 11 00-0709 LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	140.93	20.02
33 42 11 00-0710 LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	162.80	23.66
33 42 11 00-0711 LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	182.75	27.30
33 42 11 00-0712 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 <small>11 00-0701)</small>		
33 42 11 00-0713 LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	54.13	8.91
33 42 11 00-0714 LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	63.91	9.34
33 42 11 00-0715 LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	73.99	10.19
33 42 11 00-0716 LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	85.78	11.04
33 42 11 00-0717 LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	96.13	11.88
33 42 11 00-0718 LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	124.88	15.28
33 42 11 00-0719 LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	159.67	20.02
33 42 11 00-0720 LF 42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	184.31	23.66
33 42 11 00-0721 LF 48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	207.30	27.30
33 42 11 00-0722 LF 54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	250.63	30.93
33 42 11 00-0723 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 <small>11 00-0701)</small>		
33 42 11 00-0724 LF 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	93.58	10.19
33 42 11 00-0725 LF 21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	108.66	11.04
33 42 11 00-0726 LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	122.15	11.88
33 42 11 00-0727 LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	157.39	15.28
33 42 11 00-0728 LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	190.70	20.02
33 42 11 00-0729 LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	229.78	23.66
33 42 11 00-0730 LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	259.18	27.30
33 42 11 00-0731 LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	309.84	30.93
33 42 11 00-0732 LF 60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	338.56	32.75
33 42 11 00-0733 LF 66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	414.46	40.04
33 42 11 00-0734 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 <small>11 00-0701)</small>		
33 42 11 00-0735 LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	234.30	20.02

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0736 LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	271.19	23.66
33 42 11 00-0737 LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	306.23	27.30
33 42 11 00-0738 LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	362.54	30.93
33 42 11 00-0739 LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	397.23	32.75
33 42 11 00-0740 LF 66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	478.90	40.04
33 42 11 00-0741 LF 72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	545.21	58.23
33 42 11 00-0742 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0499)		
33 42 11 00-0743 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0742)		
33 42 11 00-0744 LF 36" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	176.91	20.02
33 42 11 00-0745 LF 42" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	204.29	23.66
33 42 11 00-0746 LF 48" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	229.27	27.30
33 42 11 00-0747 LF 54" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	277.09	30.93
33 42 11 00-0748 LF 60" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	301.72	32.75
33 42 11 00-0749 LF 66" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	383.62	40.04
33 42 11 00-0750 LF 72" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	440.91	58.23
33 42 11 00-0751 LF 78" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	472.34	63.70
33 42 11 00-0752 LF 84" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	501.36	68.24
33 42 11 00-0753 LF 90" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	530.41	72.79
33 42 11 00-0754 LF 96" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	560.04	77.34
33 42 11 00-0755 LF 102" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	592.33	81.89
33 42 11 00-0756 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0742)		
33 42 11 00-0757 LF 54" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	310.97	30.93
33 42 11 00-0758 LF 60" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	339.17	32.75
33 42 11 00-0759 LF 66" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	424.87	40.04
33 42 11 00-0760 LF 72" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	485.77	58.23
33 42 11 00-0761 LF 78" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	520.87	63.70
33 42 11 00-0762 LF 84" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	553.70	68.24
33 42 11 00-0763 LF 90" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	586.30	72.79
33 42 11 00-0764 LF 96" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	619.57	77.34
33 42 11 00-0765 LF 102" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	655.56	81.89
33 42 11 00-0766 LF 108" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	693.56	90.99
33 42 11 00-0767 LF 114" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	730.75	100.09
33 42 11 00-0768 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0742)		
33 42 11 00-0769 LF 60" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	424.38	32.75
33 42 11 00-0770 LF 66" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	519.66	40.04
33 42 11 00-0771 LF 72" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	588.78	58.23
33 42 11 00-0772 LF 78" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	632.13	63.70
33 42 11 00-0773 LF 84" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	673.18	68.24
33 42 11 00-0774 LF 90" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	714.06	72.79
33 42 11 00-0775 LF 96" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	755.65	77.34
33 42 11 00-0776 LF 102" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	799.85	81.89
33 42 11 00-0777 LF 108" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	846.00	90.99
33 42 11 00-0778 LF 114" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	891.57	100.09
33 42 11 00-0779 LF 120" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	936.37	109.19
33 42 11 00-0780 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0742)		
33 42 11 00-0781 LF 72" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	682.64	58.23
33 42 11 00-0782 LF 78" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	733.64	63.70
33 42 11 00-0783 LF 84" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	782.40	68.24
33 42 11 00-0784 LF 90" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	830.95	72.79
33 42 11 00-0785 LF 96" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	880.27	77.34
33 42 11 00-0786 LF 102" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	932.17	81.89
33 42 11 00-0787 LF 108" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	986.03	90.99
33 42 11 00-0788 LF 114" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,039.26	100.09
33 42 11 00-0789 LF 120" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,091.77	109.19
33 42 11 00-0790 LF 126" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,145.78	118.29
33 42 11 00-0791 LF 132" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,202.28	127.38
33 42 11 00-0792 LF 138" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,261.57	136.49
33 42 11 00-0793 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0499)		
33 42 11 00-0794 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0793)		
33 42 11 00-0795 LF 48" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	221.96	27.30
33 42 11 00-0796 LF 54" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	269.05	30.93
33 42 11 00-0797 LF 60" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	292.51	32.75
33 42 11 00-0798 LF 66" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	366.50	40.04
33 42 11 00-0799 LF 72" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	422.39	58.23
33 42 11 00-0800 LF 78" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	452.36	63.70
33 42 11 00-0801 LF 84" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	479.73	68.24
33 42 11 00-0802 LF 90" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	507.04	72.79



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0803 LF 96" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	535.29	77.34
33 42 11 00-0804 LF 102" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	566.56	81.89
33 42 11 00-0805 14 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0793)		
33 42 11 00-0806 LF 54" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	309.29	30.93
33 42 11 00-0807 LF 60" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	337.33	32.75
33 42 11 00-0808 LF 66" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	415.39	40.04
33 42 11 00-0809 LF 72" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	475.21	58.23
33 42 11 00-0810 LF 78" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	509.95	63.70
33 42 11 00-0811 LF 84" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	541.81	68.24
33 42 11 00-0812 LF 90" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	571.37	72.79
33 42 11 00-0813 LF 96" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	606.15	77.34
33 42 11 00-0814 LF 102" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	641.17	81.89
33 42 11 00-0815 LF 108" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	678.02	90.99
33 42 11 00-0816 LF 114" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	715.10	100.09
33 42 11 00-0817 12 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0793)		
33 42 11 00-0818 LF 60" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	427.17	32.75
33 42 11 00-0819 LF 66" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	514.78	40.04
33 42 11 00-0820 LF 72" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	584.00	58.23
33 42 11 00-0821 LF 78" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	626.99	63.70
33 42 11 00-0822 LF 84" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	667.28	68.24
33 42 11 00-0823 LF 90" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	708.05	72.79
33 42 11 00-0824 LF 96" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	749.25	77.34
33 42 11 00-0825 LF 102" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	792.81	81.89
33 42 11 00-0826 LF 108" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	838.84	90.99
33 42 11 00-0827 LF 114" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	884.26	100.09
33 42 11 00-0828 LF 120" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	928.52	109.19
33 42 11 00-0829 10 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0793)		
33 42 11 00-0830 LF 72" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	682.60	58.23
33 42 11 00-0831 LF 78" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	734.77	63.70
33 42 11 00-0832 LF 84" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	783.69	68.24
33 42 11 00-0833 LF 90" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	832.22	72.79
33 42 11 00-0834 LF 96" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	881.77	77.34
33 42 11 00-0835 LF 102" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	933.58	81.89
33 42 11 00-0836 LF 108" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	987.68	90.99
33 42 11 00-0837 LF 114" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,041.37	100.09
33 42 11 00-0838 LF 120" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,093.77	109.19
33 42 11 00-0839 LF 126" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,160.53	118.29
33 42 11 00-0840 LF 132" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,220.42	127.38
33 42 11 00-0841 LF 138" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,284.67	136.49
33 42 11 00-0842 Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0496)		
33 42 11 00-0843 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0842)		
33 42 11 00-0844 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0843)		
33 42 11 00-0845 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	35.23	9.34
For Bituminous Coated Pipe, Add	4.00	
For Bituminous Coated And 25% Paved, Add	9.66	
For Smooth-Flo, Add	15.94	
33 42 11 00-0846 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	39.05	10.19
For Bituminous Coated Pipe, Add	4.77	
For Bituminous Coated And 25% Paved, Add	11.54	
For Smooth-Flo, Add	19.04	
33 42 11 00-0847 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	44.53	11.04
For Bituminous Coated Pipe, Add	5.75	
For Bituminous Coated And 25% Paved, Add	13.89	
For Smooth-Flo, Add	22.92	
33 42 11 00-0848 LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	49.89	11.88
For Bituminous Coated Pipe, Add	6.62	
For Bituminous Coated And 25% Paved, Add	16.01	
For Smooth-Flo, Add	26.40	
33 42 11 00-0849 LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	65.12	15.28
For Bituminous Coated Pipe, Add	8.41	
For Bituminous Coated And 25% Paved, Add	20.33	
For Smooth-Flo, Add	33.53	
33 42 11 00-0850 LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	86.01	20.02
For Bituminous Coated Pipe, Add	10.84	
For Bituminous Coated And 25% Paved, Add	26.22	
For Smooth-Flo, Add	43.25	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0851 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe- Arch <small>(33 42 11 00-0843)</small>		
33 42 11 00-0852 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	38.47	9.34
For Bituminous Coated Pipe, Add	4.15	
For Bituminous Coated And 25% Paved, Add	9.70	
For Smooth-Flo, Add	15.91	
33 42 11 00-0853 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	43.02	10.19
For Bituminous Coated Pipe, Add	4.98	
For Bituminous Coated And 25% Paved, Add	11.64	
For Smooth-Flo, Add	19.09	
33 42 11 00-0854 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	48.95	11.04
For Bituminous Coated Pipe, Add	5.91	
For Bituminous Coated And 25% Paved, Add	13.83	
For Smooth-Flo, Add	22.69	
33 42 11 00-0855 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	55.01	11.88
For Bituminous Coated Pipe, Add	6.82	
For Bituminous Coated And 25% Paved, Add	15.95	
For Smooth-Flo, Add	26.16	
33 42 11 00-0856 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	71.51	15.28
For Bituminous Coated Pipe, Add	8.63	
For Bituminous Coated And 25% Paved, Add	20.20	
For Smooth-Flo, Add	33.13	
33 42 11 00-0857 LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	93.61	20.02
For Bituminous Coated Pipe, Add	11.00	
For Bituminous Coated And 25% Paved, Add	25.73	
For Smooth-Flo, Add	42.20	
33 42 11 00-0858 LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	107.26	23.66
For Bituminous Coated Pipe, Add	13.10	
For Bituminous Coated And 25% Paved, Add	30.65	
For Smooth-Flo, Add	50.28	
33 42 11 00-0859 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe- Arch <small>(33 42 11 00-0843)</small>		
33 42 11 00-0860 LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	55.95	10.91
For Bituminous Coated Pipe, Add	5.38	
For Bituminous Coated And 25% Paved, Add	11.97	
For Smooth-Flo, Add	18.41	
33 42 11 00-0861 LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	63.71	11.82
For Bituminous Coated Pipe, Add	6.38	
For Bituminous Coated And 25% Paved, Add	14.20	
For Smooth-Flo, Add	21.84	
33 42 11 00-0862 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	71.42	12.74
For Bituminous Coated Pipe, Add	7.32	
For Bituminous Coated And 25% Paved, Add	16.29	
For Smooth-Flo, Add	25.05	
33 42 11 00-0863 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	92.46	16.38
For Bituminous Coated Pipe, Add	9.22	
For Bituminous Coated And 25% Paved, Add	20.51	
For Smooth-Flo, Add	31.54	
33 42 11 00-0864 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	109.12	20.02
For Bituminous Coated Pipe, Add	11.53	
For Bituminous Coated And 25% Paved, Add	25.66	
For Smooth-Flo, Add	39.46	
33 42 11 00-0865 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	125.15	23.66
For Bituminous Coated Pipe, Add	13.64	
For Bituminous Coated And 25% Paved, Add	30.35	
For Smooth-Flo, Add	46.67	
33 42 11 00-0866 LF 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	145.75	27.30
For Bituminous Coated Pipe, Add	16.17	
For Bituminous Coated And 25% Paved, Add	35.99	
For Smooth-Flo, Add	55.35	
33 42 11 00-0867 LF 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	163.18	30.93
For Bituminous Coated Pipe, Add	17.86	
For Bituminous Coated And 25% Paved, Add	39.75	
For Smooth-Flo, Add	61.12	
33 42 11 00-0868 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe- Arch <small>(33 42 11 00-0843)</small>		
33 42 11 00-0869 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	123.72	20.02
For Bituminous Coated Pipe, Add	13.90	
For Bituminous Coated And 25% Paved, Add	29.25	
For Smooth-Flo, Add	36.89	
33 42 11 00-0870 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	142.18	23.66
For Bituminous Coated Pipe, Add	16.39	
For Bituminous Coated And 25% Paved, Add	34.51	
For Smooth-Flo, Add	43.52	
33 42 11 00-0871 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	165.05	27.30
For Bituminous Coated Pipe, Add	19.29	
For Bituminous Coated And 25% Paved, Add	40.60	
For Smooth-Flo, Add	51.21	



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0872	LF		64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	184.99 21.38 45.02 56.77	30.93
33 42 11 00-0873	LF		71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	202.62 23.48 49.42 62.33	32.75
33 42 11 00-0874			3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0842)		
33 42 11 00-0875			14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0874)		
33 42 11 00-0876	LF		60" x 46" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	162.97 20.61 62.64 70.06	30.93
33 42 11 00-0877	LF		66" x 51" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	178.08 22.55 68.55 76.67	32.75
33 42 11 00-0878	LF		73" x 55" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	220.01 28.32 86.10 96.30	40.04
33 42 11 00-0879	LF		81" x 59" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	267.63 30.36 92.31 103.24	58.23
33 42 11 00-0880	LF		87" x 63" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	289.92 32.51 98.82 110.53	63.70
33 42 11 00-0881	LF		95" x 67" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	309.81 34.67 105.38 117.86	68.24
33 42 11 00-0882	LF		103" x 71" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	329.63 36.81 111.90 125.15	72.79
33 42 11 00-0883	LF		112" x 75" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	350.09 38.95 118.40 132.42	77.34
33 42 11 00-0884			12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0874)		
33 42 11 00-0885	LF		66" x 51" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	211.64 29.26 76.67 90.71	32.75
33 42 11 00-0886	LF		73" x 55" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	257.23 35.77 93.71 110.88	40.04
33 42 11 00-0887	LF		81" x 59" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	308.16 38.47 100.79 119.26	58.23
33 42 11 00-0888	LF		87" x 63" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	333.72 41.27 108.12 127.93	63.70
33 42 11 00-0889	LF		95" x 67" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	356.87 44.08 115.48 136.64	68.24
33 42 11 00-0890	LF		103" x 71" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	379.99 46.88 122.83 145.33	72.79
33 42 11 00-0891	LF		112" x 75" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	403.73 49.68 130.15 154.00	77.34
33 42 11 00-0892	LF		117" x 79" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	430.10 52.50 137.54 162.74	81.89
33 42 11 00-0893	LF		128" x 83" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	458.49 55.30 144.89 171.44	90.99

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0894	LF		137" x 87" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	487.90 58.39 152.97 181.00	100.09
33 42 11 00-0895			10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0874)</small>		
33 42 11 00-0896	LF		81" x 59" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	345.80 46.00 109.48 118.90	58.23
33 42 11 00-0897	LF		87" x 63" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	374.48 49.42 117.62 127.75	63.70
33 42 11 00-0898	LF		95" x 67" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	400.73 52.85 125.78 136.62	68.24
33 42 11 00-0899	LF		103" x 71" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	426.88 56.26 133.90 145.43	72.79
33 42 11 00-0900	LF		112" x 75" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	453.73 59.68 142.03 154.26	77.34
33 42 11 00-0901	LF		117" x 79" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	483.16 63.11 150.20 163.14	81.89
33 42 11 00-0902	LF		128" x 83" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	514.64 66.53 158.35 171.99	90.99
33 42 11 00-0903	LF		137" x 87" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	546.89 70.18 167.04 181.43	100.09
33 42 11 00-0904	LF		142" x 91" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	581.68 74.57 177.48 192.76	109.19
33 42 11 00-0905			125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0842)</small>		
33 42 11 00-0906			12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0905)</small>		
33 42 11 00-0907	LF		81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	311.85 39.21 95.67 121.74	58.23
33 42 11 00-0908	LF		87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	337.05 41.93 102.32 130.21	63.70
33 42 11 00-0909	LF		95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	359.63 44.63 108.90 138.58	68.24
33 42 11 00-0910	LF		103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	382.20 47.32 115.47 146.94	72.79
33 42 11 00-0911	LF		112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	405.54 50.04 122.09 155.37	77.34
33 42 11 00-0912	LF		117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	431.61 52.80 128.83 163.94	81.89
33 42 11 00-0913	LF		128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	459.70 55.54 135.53 172.46	90.99
33 42 11 00-0914	LF		137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	490.90 58.99 143.93 183.15	100.09



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0915			10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0905)</small>		
33 42 11 00-0916	LF		81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	353.52 47.54 107.44 116.72	58.23
33 42 11 00-0917	LF		87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	382.06 50.94 115.12 125.05	63.70
33 42 11 00-0918	LF		95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	408.02 54.31 122.74 133.33	68.24
33 42 11 00-0919	LF		103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	434.08 57.70 130.40 141.65	72.79
33 42 11 00-0920	LF		112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	460.24 60.98 137.81 149.70	77.34
33 42 11 00-0921	LF		117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	490.16 64.51 145.79 158.37	81.89
33 42 11 00-0922	LF		128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	521.70 67.94 153.55 166.80	90.99
33 42 11 00-0923	LF		137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	556.31 72.07 162.87 176.93	100.09
33 42 11 00-0924	LF		142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	588.65 75.96 171.68 186.49	109.19
33 42 11 00-0925			2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0842)</small>		
33 42 11 00-0926			16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0925)</small>		
33 42 11 00-0927	LF		17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	56.11 64.01	9.34
33 42 11 00-0928	LF		21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	64.01 74.64	10.19
33 42 11 00-0929	LF		24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	74.64 84.64	11.04
33 42 11 00-0930	LF		28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	84.64 109.39	11.88
33 42 11 00-0931	LF		35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	109.39 143.52	15.28
33 42 11 00-0932	LF		42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	143.52 166.80	20.02
33 42 11 00-0933			14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0925)</small>		
33 42 11 00-0934	LF		17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	63.57 73.11	9.34
33 42 11 00-0935	LF		21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	73.11 84.81	10.19
33 42 11 00-0936	LF		24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	84.81 96.46	11.04
33 42 11 00-0937	LF		28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	96.46 124.08	11.88
33 42 11 00-0938	LF		35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	124.08 160.99	15.28
33 42 11 00-0939	LF		42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	160.99 187.69	20.02
33 42 11 00-0940	LF		49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	187.69 211.25	23.66
33 42 11 00-0941			12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0925)</small>		
33 42 11 00-0942	LF		21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	95.44 111.25	10.19
33 42 11 00-0943	LF		24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	111.25 126.40	11.04
33 42 11 00-0944	LF		28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	126.40 161.45	11.88
33 42 11 00-0945	LF		35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	161.45 206.13	15.28
33 42 11 00-0946	LF		42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	206.13 240.26	20.02
33 42 11 00-0947	LF		49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	240.26 283.18	23.66
33 42 11 00-0948	LF		57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	283.18 314.54	27.30
33 42 11 00-0949	LF		64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	314.54 340.26	30.93
33 42 11 00-0950			10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0925)</small>		
33 42 11 00-0951	LF		42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	241.53 281.56	20.02
33 42 11 00-0952	LF		49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	281.56 330.01	23.66
33 42 11 00-0953	LF		57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	330.01 367.49	27.30
33 42 11 00-0954	LF		64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	367.49 402.56	30.93
33 42 11 00-0955	LF		64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	402.56 426.18	32.75



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0956 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0842)</small>		
33 42 11 00-0957 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0956)</small>		
33 42 11 00-0958 LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	317.62	30.93
33 42 11 00-0959 LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	346.99	32.75
33 42 11 00-0960 LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	433.95	40.04
33 42 11 00-0961 LF 81" x 59" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	496.68	58.23
33 42 11 00-0962 LF 81" x 53" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	534.86	63.70
33 42 11 00-0963 LF 95" x 67" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	570.69	68.24
33 42 11 00-0964 LF 103" x 71" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	606.37	72.79
33 42 11 00-0965 LF 112" x 75" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	642.78	77.34
33 42 11 00-0966 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0956)</small>		
33 42 11 00-0967 LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	432.36	32.75
33 42 11 00-0968 LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	528.98	40.04
33 42 11 00-0969 LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	600.11	58.23
33 42 11 00-0970 LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	646.54	63.70
33 42 11 00-0971 LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	690.65	68.24
33 42 11 00-0972 LF 103" x 71" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	734.71	72.79
33 42 11 00-0973 LF 112" x 75" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	779.33	77.34
33 42 11 00-0974 LF 117" x 79" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	826.72	81.89
33 42 11 00-0975 LF 128" x 83" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	876.05	90.99
33 42 11 00-0976 LF 137" x 87" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	928.49	100.09
33 42 11 00-0977 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0956)</small>		
33 42 11 00-0978 LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	693.94	58.23
33 42 11 00-0979 LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	748.13	63.70
33 42 11 00-0980 LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	799.99	68.24
33 42 11 00-0981 LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	851.59	72.79
33 42 11 00-0982 LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	903.93	77.34
33 42 11 00-0983 LF 117" x 79" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	959.00	81.89
33 42 11 00-0984 LF 128" x 83" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	1,016.06	90.99
33 42 11 00-0985 LF 137" x 87" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	1,075.54	100.09
33 42 11 00-0986 LF 142" x 91" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	1,143.04	109.19
33 42 11 00-0987 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0842)</small>		
33 42 11 00-0988 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0987)</small>		
33 42 11 00-0989 LF 81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	591.67	58.23
33 42 11 00-0990 LF 87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	635.99	63.70
33 42 11 00-0991 LF 95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	677.47	68.24
33 42 11 00-0992 LF 103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	718.90	72.79
33 42 11 00-0993 LF 112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	761.24	77.34
33 42 11 00-0994 LF 117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	806.67	81.89
33 42 11 00-0995 LF 128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	853.97	90.99
33 42 11 00-0996 LF 137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	909.26	100.09
33 42 11 00-0997 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0987)</small>		
33 42 11 00-0998 LF 81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	691.75	58.23
33 42 11 00-0999 LF 87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	744.01	63.70
33 42 11 00-1000 LF 95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	793.62	68.24
33 42 11 00-1001 LF 103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	843.44	72.79
33 42 11 00-1002 LF 112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	892.61	77.34
33 42 11 00-1003 LF 117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	947.21	81.89
33 42 11 00-1004 LF 128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	1,002.84	90.99
33 42 11 00-1005 LF 137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	1,066.45	100.09
33 42 11 00-1006 LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	1,125.92	109.19
33 42 11 00-1007 Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-0498)</small>		
33 42 11 00-1008 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1007)</small>		
33 42 11 00-1009 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1008)</small>		
33 42 11 00-1010 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	33.24	8.91
For 1/2 Bituminous Coated And 25% Paved, Add	5.95	
33 42 11 00-1011 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	37.72	9.34
For 1/2 Bituminous Coated And 25% Paved, Add	7.49	
33 42 11 00-1012 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	42.35	10.19
For 1/2 Bituminous Coated And 25% Paved, Add	9.08	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1013	LF		21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	48.31 10.85	11.04
33 42 11 00-1014	LF		24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	53.56 12.23	11.88
33 42 11 00-1015	LF		30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	70.60 15.86	15.28
33 42 11 00-1016	LF		36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	91.98 20.01	20.02
33 42 11 00-1017	LF		42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	104.89 23.66	23.66
33 42 11 00-1018	LF		48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	117.89 26.51	27.30
33 42 11 00-1019			14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1008)</small>		
33 42 11 00-1020	LF		12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	36.45 5.65	8.91
33 42 11 00-1021	LF		15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	41.68 7.09	9.34
33 42 11 00-1022	LF		18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	47.08 8.57	10.19
33 42 11 00-1023	LF		21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	53.80 10.19	11.04
33 42 11 00-1024	LF		24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	59.92 11.54	11.88
33 42 11 00-1025	LF		30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	78.38 14.81	15.28
33 42 11 00-1026	LF		36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	101.40 18.57	20.02
33 42 11 00-1027	LF		42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	115.74 21.87	23.66
33 42 11 00-1028	LF		48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	130.25 24.57	27.30
33 42 11 00-1029	LF		54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	155.83 30.21	30.93
33 42 11 00-1030			12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1008)</small>		
33 42 11 00-1031	LF		18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	57.01 7.98	10.19
33 42 11 00-1032	LF		21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	65.39 9.45	11.04
33 42 11 00-1033	LF		24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	73.09 10.70	11.88
33 42 11 00-1034	LF		30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	94.83 13.65	15.28
33 42 11 00-1035	LF		36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	121.23 16.94	20.02
33 42 11 00-1036	LF		42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	138.72 19.87	23.66
33 42 11 00-1037	LF		48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	156.47 22.41	27.30
33 42 11 00-1038	LF		54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	185.78 27.06	30.93
33 42 11 00-1039	LF		60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	202.92 29.58	32.75
33 42 11 00-1040	LF		66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	247.60 36.38	40.04
33 42 11 00-1041			10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1008)</small>		
33 42 11 00-1042	LF		36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	139.07 18.55	20.02
33 42 11 00-1043	LF		42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	159.59 21.75	23.66
33 42 11 00-1044	LF		48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	180.16 24.56	27.30
33 42 11 00-1045	LF		54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	212.34 29.26	30.93
33 42 11 00-1046	LF		60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	232.48 32.09	32.75
33 42 11 00-1047	LF		66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	280.06 38.72	40.04
33 42 11 00-1048	LF		72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	332.02 41.51	58.23
33 42 11 00-1049			3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1007)</small>		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1050		16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping		
		<small>(33 42 11 00-1049)</small>		
33 42 11 00-1051	LF	36" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	106.00 22.24	20.02
33 42 11 00-1052	LF	42" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	120.94 26.12	23.66
33 42 11 00-1053	LF	48" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	135.94 29.29	27.30
33 42 11 00-1054	LF	54" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	162.16 35.78	30.93
33 42 11 00-1055	LF	60" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	176.69 38.98	32.75
33 42 11 00-1056	LF	66" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	221.43 50.06	40.04
33 42 11 00-1057	LF	72" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	268.27 53.36	58.23
33 42 11 00-1058	LF	78" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	289.29 56.67	63.70
33 42 11 00-1059	LF	84" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	307.87 59.99	68.24
33 42 11 00-1060	LF	90" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	326.45 63.30	72.79
33 42 11 00-1061	LF	96" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	345.67 66.61	77.34
33 42 11 00-1062	LF	102" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	367.47 69.95	81.89
33 42 11 00-1063		14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping		
		<small>(33 42 11 00-1049)</small>		
33 42 11 00-1064	LF	54" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	178.27 31.00	30.93
33 42 11 00-1065	LF	60" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	194.50 33.84	32.75
33 42 11 00-1066	LF	66" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	241.03 42.61	40.04
33 42 11 00-1067	LF	72" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	289.62 45.54	58.23
33 42 11 00-1068	LF	78" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	312.37 48.47	63.70
33 42 11 00-1069	LF	84" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	332.76 51.43	68.24
33 42 11 00-1070	LF	90" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	353.04 54.35	72.79
33 42 11 00-1071	LF	96" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	373.98 57.28	77.34
33 42 11 00-1072	LF	102" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	397.51 60.23	81.89
33 42 11 00-1073	LF	108" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	423.12 63.18	90.99
33 42 11 00-1074	LF	114" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	448.16 66.07	100.09
33 42 11 00-1075		12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping		
		<small>(33 42 11 00-1049)</small>		
33 42 11 00-1076	LF	60" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	234.08 45.39	32.75
33 42 11 00-1077	LF	66" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	284.85 55.54	40.04
33 42 11 00-1078	LF	72" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	337.26 59.57	58.23
33 42 11 00-1079	LF	78" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	363.88 63.62	63.70
33 42 11 00-1080	LF	84" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	388.10 67.69	68.24
33 42 11 00-1081	LF	90" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	412.25 71.73	72.79
33 42 11 00-1082	LF	96" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	437.04 75.77	77.34
33 42 11 00-1083	LF	102" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	464.41 79.84	81.89
33 42 11 00-1084	LF	108" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	493.83 83.89	90.99
33 42 11 00-1085	LF	114" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	522.76 87.91	100.09
33 42 11 00-1086	LF	120" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	550.73 91.97	109.19
33 42 11 00-1087		10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping		
		<small>(33 42 11 00-1049)</small>		
33 42 11 00-1088	LF	72" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	381.69 73.12	58.23



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	Stormwater Utilities	33 40	CS
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1089 LF 78" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	411.89	63.70
For 1/2 Bituminous Coated And 25% Paved, Add	78.24	
33 42 11 00-1090 LF 84" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	439.76	68.24
For 1/2 Bituminous Coated And 25% Paved, Add	83.40	
33 42 11 00-1091 LF 90" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	467.52	72.79
For 1/2 Bituminous Coated And 25% Paved, Add	88.53	
33 42 11 00-1092 LF 96" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	496.01	77.34
For 1/2 Bituminous Coated And 25% Paved, Add	93.68	
33 42 11 00-1093 LF 102" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	527.04	81.89
For 1/2 Bituminous Coated And 25% Paved, Add	98.84	
33 42 11 00-1094 LF 108" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	560.07	90.99
For 1/2 Bituminous Coated And 25% Paved, Add	103.97	
33 42 11 00-1095 LF 114" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	592.63	100.09
For 1/2 Bituminous Coated And 25% Paved, Add	109.08	
33 42 11 00-1096 LF 120" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	624.26	109.19
For 1/2 Bituminous Coated And 25% Paved, Add	114.24	
33 42 11 00-1097 LF 126" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	657.54	118.29
For 1/2 Bituminous Coated And 25% Paved, Add	119.37	
33 42 11 00-1098 LF 132" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	693.16	127.38
For 1/2 Bituminous Coated And 25% Paved, Add	124.52	
33 42 11 00-1099 LF 138" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	731.55	136.49
For 1/2 Bituminous Coated And 25% Paved, Add	129.68	
33 42 11 00-1100 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping		
<small>(33 42 11 00-1007)</small>		
33 42 11 00-1101 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping		
<small>(33 42 11 00-1100)</small>		
33 42 11 00-1102 LF 48" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	136.46	27.30
For 1/2 Bituminous Coated And 25% Paved, Add	36.29	
33 42 11 00-1103 LF 54" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	163.09	30.93
For 1/2 Bituminous Coated And 25% Paved, Add	44.46	
33 42 11 00-1104 LF 60" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	177.51	32.75
For 1/2 Bituminous Coated And 25% Paved, Add	48.35	
33 42 11 00-1105 LF 66" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	219.61	40.04
For 1/2 Bituminous Coated And 25% Paved, Add	60.87	
33 42 11 00-1106 LF 72" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	266.24	58.23
For 1/2 Bituminous Coated And 25% Paved, Add	64.84	
33 42 11 00-1107 LF 78" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	287.02	63.70
For 1/2 Bituminous Coated And 25% Paved, Add	68.80	
33 42 11 00-1108 LF 84" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	305.26	68.24
For 1/2 Bituminous Coated And 25% Paved, Add	72.74	
33 42 11 00-1109 LF 90" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	323.45	72.79
For 1/2 Bituminous Coated And 25% Paved, Add	76.66	
33 42 11 00-1110 LF 96" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	342.49	77.34
For 1/2 Bituminous Coated And 25% Paved, Add	80.66	
33 42 11 00-1111 LF 102" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	364.23	81.89
For 1/2 Bituminous Coated And 25% Paved, Add	84.74	
33 42 11 00-1112 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping		
<small>(33 42 11 00-1100)</small>		
33 42 11 00-1113 LF 54" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	183.23	30.93
For 1/2 Bituminous Coated And 25% Paved, Add	41.92	
33 42 11 00-1114 LF 60" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	199.95	32.75
For 1/2 Bituminous Coated And 25% Paved, Add	45.77	
33 42 11 00-1115 LF 66" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	244.05	40.04
For 1/2 Bituminous Coated And 25% Paved, Add	56.32	
33 42 11 00-1116 LF 72" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	292.68	58.23
For 1/2 Bituminous Coated And 25% Paved, Add	60.14	
33 42 11 00-1117 LF 78" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	315.82	63.70
For 1/2 Bituminous Coated And 25% Paved, Add	64.07	
33 42 11 00-1118 LF 84" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	336.31	68.24
For 1/2 Bituminous Coated And 25% Paved, Add	67.94	
33 42 11 00-1119 LF 90" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	355.64	72.79
For 1/2 Bituminous Coated And 25% Paved, Add	71.42	
33 42 11 00-1120 LF 96" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	377.89	77.34
For 1/2 Bituminous Coated And 25% Paved, Add	75.66	
33 42 11 00-1121 LF 102" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	401.54	81.89
For 1/2 Bituminous Coated And 25% Paved, Add	79.54	
33 42 11 00-1122 LF 108" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	427.18	90.99
For 1/2 Bituminous Coated And 25% Paved, Add	83.37	
33 42 11 00-1123 LF 114" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	452.70	100.09
For 1/2 Bituminous Coated And 25% Paved, Add	87.29	
33 42 11 00-1124 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping		
<small>(33 42 11 00-1100)</small>		
33 42 11 00-1125 LF 60" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	241.90	32.75
For 1/2 Bituminous Coated And 25% Paved, Add	50.50	
33 42 11 00-1126 LF 66" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	290.30	40.04
For 1/2 Bituminous Coated And 25% Paved, Add	60.61	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1127 LF 72" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	343.32 65.07	58.23
33 42 11 00-1128 LF 78" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	370.33 69.48	63.70
33 42 11 00-1129 LF 84" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	394.79 73.88	68.24
33 42 11 00-1130 LF 90" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	419.46 78.33	72.79
33 42 11 00-1131 LF 96" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	444.64 82.74	77.34
33 42 11 00-1132 LF 102" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	472.32 87.15	81.89
33 42 11 00-1133 LF 108" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	502.22 91.59	90.99
33 42 11 00-1134 LF 114" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	531.66 96.01	100.09
33 42 11 00-1135 LF 120" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	559.97 100.43	109.19
33 42 11 00-1136 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1100)</small>		
33 42 11 00-1137 LF 72" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	391.81 78.94	58.23
33 42 11 00-1138 LF 78" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	423.33 84.64	63.70
33 42 11 00-1139 LF 84" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	452.00 90.24	68.24
33 42 11 00-1140 LF 90" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	480.48 95.78	72.79
33 42 11 00-1141 LF 96" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	509.79 101.37	77.34
33 42 11 00-1142 LF 102" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	541.49 106.93	81.89
33 42 11 00-1143 LF 108" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	575.40 112.52	90.99
33 42 11 00-1144 LF 114" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	608.89 118.10	100.09
33 42 11 00-1145 LF 120" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	641.16 123.65	109.19
33 42 11 00-1146 LF 126" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	681.46 130.98	118.29
33 42 11 00-1147 LF 132" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	719.44 137.02	127.38
33 42 11 00-1148 LF 138" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	760.99 143.29	136.49
33 42 11 00-1149 Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1007)</small>		
33 42 11 00-1150 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1149)</small>		
33 42 11 00-1151 LF 18" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	47.77	10.19
33 42 11 00-1152 LF 21" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	54.58	11.04
33 42 11 00-1153 LF 24" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	60.98	11.88
33 42 11 00-1154 LF 30" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	79.66	15.28
33 42 11 00-1155 LF 36" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	102.61	20.02
33 42 11 00-1156 LF 42" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	117.16	23.66
33 42 11 00-1157 LF 48" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	132.15	27.30
33 42 11 00-1158 LF 54" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	156.67	30.93
33 42 11 00-1159 LF 60" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	171.18	32.75
33 42 11 00-1160 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1149)</small>		
33 42 11 00-1161 LF 18" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	52.44	10.19
33 42 11 00-1162 LF 21" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	60.03	11.04
33 42 11 00-1163 LF 24" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	67.15	11.88
33 42 11 00-1164 LF 30" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	87.38	15.28
33 42 11 00-1165 LF 36" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	111.91	20.02
33 42 11 00-1166 LF 42" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	128.03	23.66
33 42 11 00-1167 LF 48" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	144.57	27.30
33 42 11 00-1168 LF 54" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	170.64	30.93
33 42 11 00-1169 LF 60" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	186.75	32.75
33 42 11 00-1170 LF 66" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	227.00	40.04
33 42 11 00-1171 LF 72" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	274.99	58.23
33 42 11 00-1172 LF 78" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	297.28	63.70
33 42 11 00-1173 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1149)</small>		
33 42 11 00-1174 LF 30" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	103.04	15.28
33 42 11 00-1175 LF 36" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	130.65	20.02
33 42 11 00-1176 LF 42" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	149.99	23.66



	Utilities	33	
	Stormwater Utilities	33 40	33
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1177 LF 48" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	169.62	27.30
33 42 11 00-1178 LF 54" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	198.80	30.93
33 42 11 00-1179 LF 60" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	218.09	32.75
33 42 11 00-1180 LF 66" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	261.41	40.04
33 42 11 00-1181 LF 72" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	312.49	58.23
33 42 11 00-1182 LF 78" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	337.90	63.70
33 42 11 00-1183 LF 84" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	360.75	68.24
33 42 11 00-1184 LF 90" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	383.63	72.79
33 42 11 00-1185 LF 96" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	407.09	77.34
33 42 11 00-1186 LF 102" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	431.58	81.89
33 42 11 00-1187 Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-0498)		
33 42 11 00-1188 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1187)		
33 42 11 00-1189 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1188)		
33 42 11 00-1190 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	38.81	9.34
For 1/2 Bituminous Coated And 40% Paved, Add	9.68	
33 42 11 00-1191 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	43.32	10.19
For 1/2 Bituminous Coated And 40% Paved, Add	11.56	
33 42 11 00-1192 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	49.65	11.04
For 1/2 Bituminous Coated And 40% Paved, Add	13.90	
33 42 11 00-1193 LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	55.80	11.88
For 1/2 Bituminous Coated And 40% Paved, Add	16.02	
33 42 11 00-1194 LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	72.63	15.28
For 1/2 Bituminous Coated And 40% Paved, Add	20.35	
33 42 11 00-1195 LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	95.70	20.02
For 1/2 Bituminous Coated And 40% Paved, Add	26.25	
33 42 11 00-1196 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1188)		
33 42 11 00-1197 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	42.77	9.34
For 1/2 Bituminous Coated And 40% Paved, Add	10.03	
33 42 11 00-1198 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	48.14	10.19
For 1/2 Bituminous Coated And 40% Paved, Add	12.01	
33 42 11 00-1199 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	55.07	11.04
For 1/2 Bituminous Coated And 40% Paved, Add	14.29	
33 42 11 00-1200 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	62.07	11.88
For 1/2 Bituminous Coated And 40% Paved, Add	16.48	
33 42 11 00-1201 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	80.44	15.28
For 1/2 Bituminous Coated And 40% Paved, Add	20.86	
33 42 11 00-1202 LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	105.00	20.02
For 1/2 Bituminous Coated And 40% Paved, Add	26.58	
33 42 11 00-1203 LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	120.82	23.66
For 1/2 Bituminous Coated And 40% Paved, Add	31.66	
33 42 11 00-1204 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1188)		
33 42 11 00-1205 LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	57.95	10.19
For 1/2 Bituminous Coated And 40% Paved, Add	11.00	
33 42 11 00-1206 LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	66.70	11.04
For 1/2 Bituminous Coated And 40% Paved, Add	13.08	
33 42 11 00-1207 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	75.24	11.88
For 1/2 Bituminous Coated And 40% Paved, Add	15.01	
33 42 11 00-1208 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	96.89	15.28
For 1/2 Bituminous Coated And 40% Paved, Add	18.94	
33 42 11 00-1209 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	124.87	20.02
For 1/2 Bituminous Coated And 40% Paved, Add	23.82	
33 42 11 00-1210 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	143.99	23.66
For 1/2 Bituminous Coated And 40% Paved, Add	28.23	
33 42 11 00-1211 LF 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	168.56	27.30
For 1/2 Bituminous Coated And 40% Paved, Add	33.61	
33 42 11 00-1212 LF 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	188.14	30.93
For 1/2 Bituminous Coated And 40% Paved, Add	37.05	
33 42 11 00-1213 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1188)		
33 42 11 00-1214 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	142.71	20.02
For 1/2 Bituminous Coated And 40% Paved, Add	25.06	
33 42 11 00-1215 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	164.80	23.66
For 1/2 Bituminous Coated And 40% Paved, Add	29.62	
33 42 11 00-1216 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	192.15	27.30
For 1/2 Bituminous Coated And 40% Paved, Add	34.97	
33 42 11 00-1217 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	214.82	30.93
For 1/2 Bituminous Coated And 40% Paved, Add	38.72	
33 42 11 00-1218 LF 71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	235.17	32.75
For 1/2 Bituminous Coated And 40% Paved, Add	42.46	

33	33 Utilities
	33 40 Stormwater Utilities
	33 42 Stormwater Conveyance



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1219 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1187)</small>		
33 42 11 00-1220 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1219)</small>		
33 42 11 00-1221 LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....181.45		30.93
For 1/2 Bituminous Coated And 40% Paved, Add	55.65	
33 42 11 00-1222 LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....198.29		32.75
For 1/2 Bituminous Coated And 40% Paved, Add	60.90	
33 42 11 00-1223 LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....245.39		40.04
For 1/2 Bituminous Coated And 40% Paved, Add	76.49	
33 42 11 00-1224 LF 81" x 59" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....294.83		58.23
For 1/2 Bituminous Coated And 40% Paved, Add	81.99	
33 42 11 00-1225 LF 87" x 63" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....319.06		63.70
For 1/2 Bituminous Coated And 40% Paved, Add	87.79	
33 42 11 00-1226 LF 95" x 67" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....340.85		68.24
For 1/2 Bituminous Coated And 40% Paved, Add	93.60	
33 42 11 00-1227 LF 103" x 71" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....362.58		72.79
For 1/2 Bituminous Coated And 40% Paved, Add	99.39	
33 42 11 00-1228 LF 112" x 75" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....385.01		77.34
For 1/2 Bituminous Coated And 40% Paved, Add	105.18	
33 42 11 00-1229 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1219)</small>		
33 42 11 00-1230 LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....237.90		32.75
For 1/2 Bituminous Coated And 40% Paved, Add	69.20	
33 42 11 00-1231 LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....289.30		40.04
For 1/2 Bituminous Coated And 40% Paved, Add	84.57	
33 42 11 00-1232 LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....342.65		58.23
For 1/2 Bituminous Coated And 40% Paved, Add	90.96	
33 42 11 00-1233 LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....370.70		63.70
For 1/2 Bituminous Coated And 40% Paved, Add	97.57	
33 42 11 00-1234 LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....396.39		68.24
For 1/2 Bituminous Coated And 40% Paved, Add	104.22	
33 42 11 00-1235 LF 103" x 71" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....422.03		72.79
For 1/2 Bituminous Coated And 40% Paved, Add	110.86	
33 42 11 00-1236 LF 112" x 75" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....448.28		77.34
For 1/2 Bituminous Coated And 40% Paved, Add	117.46	
33 42 11 00-1237 LF 117" x 79" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....477.16		81.89
For 1/2 Bituminous Coated And 40% Paved, Add	124.13	
33 42 11 00-1238 LF 128" x 83" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....508.07		90.99
For 1/2 Bituminous Coated And 40% Paved, Add	130.76	
33 42 11 00-1239 LF 137" x 87" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....540.26		100.09
For 1/2 Bituminous Coated And 40% Paved, Add	138.06	
33 42 11 00-1240 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1219)</small>		
33 42 11 00-1241 LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....387.05		58.23
For 1/2 Bituminous Coated And 40% Paved, Add	98.46	
33 42 11 00-1242 LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....418.79		63.70
For 1/2 Bituminous Coated And 40% Paved, Add	105.78	
33 42 11 00-1243 LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....448.12		68.24
For 1/2 Bituminous Coated And 40% Paved, Add	113.13	
33 42 11 00-1244 LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....477.33		72.79
For 1/2 Bituminous Coated And 40% Paved, Add	120.43	
33 42 11 00-1245 LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....509.70		77.34
For 1/2 Bituminous Coated And 40% Paved, Add	128.63	
33 42 11 00-1246 LF 117" x 79" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....539.76		81.89
For 1/2 Bituminous Coated And 40% Paved, Add	135.09	
33 42 11 00-1247 LF 128" x 83" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....574.34		90.99
For 1/2 Bituminous Coated And 40% Paved, Add	142.43	
33 42 11 00-1248 LF 137" x 87" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....609.83		100.09
For 1/2 Bituminous Coated And 40% Paved, Add	150.23	
33 42 11 00-1249 LF 142" x 91" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....648.55		109.19
For 1/2 Bituminous Coated And 40% Paved, Add	159.62	
33 42 11 00-1250 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1187)</small>		
33 42 11 00-1251 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1250)</small>		
33 42 11 00-1252 LF 81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....347.13		58.23
For 1/2 Bituminous Coated And 40% Paved, Add	89.52	
33 42 11 00-1253 LF 87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch .....374.79		63.70
For 1/2 Bituminous Coated And 40% Paved, Add	95.75	
33 42 11 00-1254 LF 95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch399.82		68.24
For 1/2 Bituminous Coated And 40% Paved, Add	101.91	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1255	LF		103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	424.82	72.79
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	108.07	
33 42 11 00-1256	LF		112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	450.58	77.34
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	114.25	
33 42 11 00-1257	LF		117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	479.13	81.89
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	120.56	
33 42 11 00-1258	LF		128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	509.70	90.99
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	126.83	
33 42 11 00-1259	LF		137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	543.99	100.09
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	134.68	
33 42 11 00-1260			10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1250)</small>		
33 42 11 00-1261	LF		81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	396.32	58.23
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	99.30	
33 42 11 00-1262	LF		87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	427.91	63.70
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	106.39	
33 42 11 00-1263	LF		95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	456.91	68.24
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	113.43	
33 42 11 00-1264	LF		103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	486.02	72.79
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	120.52	
33 42 11 00-1265	LF		112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	515.15	77.34
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	127.37	
33 42 11 00-1266	LF		117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	548.21	81.89
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	134.73	
33 42 11 00-1267	LF		128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	582.88	90.99
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	141.92	
33 42 11 00-1268	LF		137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	621.19	100.09
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	150.53	
33 42 11 00-1269	LF		142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	657.03	109.19
			<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	158.66	
33 42 11 00-1270			Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-0498)</small>		
33 42 11 00-1271			1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1270)</small>		
33 42 11 00-1272			18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1271)</small>		
33 42 11 00-1273	LF		6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	19.77	5.09
			<i>For Bituminous Coated Pipe, Add</i>	1.84	
33 42 11 00-1274	LF		8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	25.38	6.37
			<i>For Bituminous Coated Pipe, Add</i>	2.50	
33 42 11 00-1275	LF		10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	32.82	7.65
			<i>For Bituminous Coated Pipe, Add</i>	3.29	
33 42 11 00-1276			16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1271)</small>		
33 42 11 00-1277	LF		6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	21.88	5.09
			<i>For Bituminous Coated Pipe, Add</i>	1.82	
33 42 11 00-1278	LF		8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	28.36	6.37
			<i>For Bituminous Coated Pipe, Add</i>	2.50	
33 42 11 00-1279	LF		10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	36.80	7.65
			<i>For Bituminous Coated Pipe, Add</i>	3.29	
33 42 11 00-1280			2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1270)</small>		
33 42 11 00-1281			16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1280)</small>		
33 42 11 00-1282	LF		12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	38.09	8.91
			<i>For Bituminous Coated Pipe, Add</i>	3.62	
33 42 11 00-1283	LF		15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	43.74	9.34
			<i>For Bituminous Coated Pipe, Add</i>	4.54	
33 42 11 00-1284	LF		18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	49.73	10.19
			<i>For Bituminous Coated Pipe, Add</i>	5.52	
33 42 11 00-1285	LF		21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	57.08	11.04
			<i>For Bituminous Coated Pipe, Add</i>	6.59	
33 42 11 00-1286	LF		24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	63.70	11.88
			<i>For Bituminous Coated Pipe, Add</i>	7.47	
33 42 11 00-1287			14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1280)</small>		
33 42 11 00-1288	LF		12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	42.62	8.91
			<i>For Bituminous Coated Pipe, Add</i>	3.54	
33 42 11 00-1289	LF		15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	49.50	9.34
			<i>For Bituminous Coated Pipe, Add</i>	4.46	

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33 40 Stormwater Utilities

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33 42 11 00-1290 LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	56.64 5.40	10.19
33 42 11 00-1291 LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	65.09 6.42	11.04
33 42 11 00-1292 LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	72.89 7.29	11.88
33 42 11 00-1293 LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	94.91 9.34	15.28
33 42 11 00-1294 LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	121.49 11.62	20.02
33 42 11 00-1295 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1280)</small>		
33 42 11 00-1296 LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	90.48 6.92	11.88
33 42 11 00-1297 LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	116.80 8.80	15.28
33 42 11 00-1298 LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	147.78 10.85	20.02
33 42 11 00-1299 LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	170.19 12.76	23.66
33 42 11 00-1300 LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	192.47 14.44	27.30
33 42 11 00-1301 LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	226.28 17.13	30.93
33 42 11 00-1302 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1280)</small>		
33 42 11 00-1303 LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	175.80 10.67	20.02
33 42 11 00-1304 LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	202.83 12.52	23.66
33 42 11 00-1305 LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	229.88 14.21	27.30
33 42 11 00-1306 LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	268.36 16.67	30.93
33 42 11 00-1307 LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	295.00 18.37	32.75
33 42 11 00-1308 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1270)</small>		
33 42 11 00-1309 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1308)</small>		
33 42 11 00-1310 LF 30" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	93.48	15.28
33 42 11 00-1311 LF 36" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	119.71	20.02
33 42 11 00-1312 LF 42" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	136.86	23.66
33 42 11 00-1313 LF 48" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	154.97	27.30
33 42 11 00-1314 LF 54" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	182.83	30.93
33 42 11 00-1315 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1308)</small>		
33 42 11 00-1316 LF 30" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	105.01	15.28
33 42 11 00-1317 LF 36" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	136.16	20.02
33 42 11 00-1318 LF 42" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	155.95	23.66
33 42 11 00-1319 LF 48" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	175.80	27.30
33 42 11 00-1320 LF 54" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	207.24	30.93
33 42 11 00-1321 LF 60" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	226.58	32.75
33 42 11 00-1322 LF 66" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	275.52	40.04
33 42 11 00-1323 LF 72" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	327.04	58.23
33 42 11 00-1324 LF 78" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	352.76	63.70
33 42 11 00-1325 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1308)</small>		
33 42 11 00-1326 LF 30" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	131.93	15.28
33 42 11 00-1327 LF 36" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	166.43	20.02
33 42 11 00-1328 LF 42" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	192.12	23.66
33 42 11 00-1329 LF 48" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	217.29	27.30
33 42 11 00-1330 LF 54" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	253.81	30.93
33 42 11 00-1331 LF 60" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	278.16	32.75
33 42 11 00-1332 LF 66" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	332.07	40.04
33 42 11 00-1333 LF 72" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	388.72	58.23
33 42 11 00-1334 LF 78" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	419.48	63.70
33 42 11 00-1335 LF 84" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	447.85	68.24
33 42 11 00-1336 LF 90" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	476.14	72.79
33 42 11 00-1337 LF 96" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	505.10	77.34



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1338 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1308)</small>		
33 42 11 00-1339 LF 60" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	332.40	32.75
33 42 11 00-1340 LF 66" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	389.45	40.04
33 42 11 00-1341 LF 72" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	451.25	58.23
33 42 11 00-1342 LF 78" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	487.16	63.70
33 42 11 00-1343 LF 84" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	520.60	68.24
33 42 11 00-1344 LF 90" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	554.03	72.79
33 42 11 00-1345 LF 96" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	588.10	77.34
33 42 11 00-1346 LF 102" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	624.78	81.89
33 42 11 00-1347 LF 108" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	663.50	90.99
33 42 11 00-1348 Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1270)</small>		
Note: Contech ULTRA FLO. HS 20 and HS 25 vehicular loading.		
33 42 11 00-1349 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1348)</small>		
33 42 11 00-1350 LF 18" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	65.25	10.19
33 42 11 00-1351 LF 21" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	70.18	11.04
33 42 11 00-1352 LF 24" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	84.33	11.88
33 42 11 00-1353 LF 27" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	97.35	13.59
33 42 11 00-1354 LF 30" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	109.28	15.28
33 42 11 00-1355 LF 33" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	121.68	16.98
33 42 11 00-1356 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1348)</small>		
33 42 11 00-1357 LF 18" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	75.00	10.19
33 42 11 00-1358 LF 21" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	86.53	11.04
33 42 11 00-1359 LF 24" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	97.44	11.88
33 42 11 00-1360 LF 27" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	112.07	13.59
33 42 11 00-1361 LF 30" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	125.60	15.28
33 42 11 00-1362 LF 33" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	139.67	16.98
33 42 11 00-1363 LF 36" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	158.55	20.02
33 42 11 00-1364 LF 42" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	182.73	23.66
33 42 11 00-1365 LF 48" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	206.75	27.30
33 42 11 00-1366 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1348)</small>		
33 42 11 00-1367 LF 30" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	157.52	15.28
33 42 11 00-1368 LF 33" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	174.71	16.98
33 42 11 00-1369 LF 36" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	196.83	20.02
33 42 11 00-1370 LF 42" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	227.43	23.66
33 42 11 00-1371 LF 48" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	257.84	27.30
33 42 11 00-1372 LF 54" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	355.29	30.93
33 42 11 00-1373 LF 60" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	390.97	32.75
33 42 11 00-1374 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1348)</small>		
33 42 11 00-1375 LF 48" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	361.93	27.30
33 42 11 00-1376 LF 54" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	419.47	30.93
33 42 11 00-1377 LF 60" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	462.35	32.75
33 42 11 00-1378 LF 66" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	537.43	40.04
33 42 11 00-1379 LF 72" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	611.53	58.23
33 42 11 00-1380 LF 78" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	660.32	63.70
33 42 11 00-1381 LF 84" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	706.25	68.24
33 42 11 00-1382 Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-0498)</small>		
33 42 11 00-1383 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1382)</small>		
33 42 11 00-1384 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1383)</small>		
33 42 11 00-1385 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	45.80	9.34
For Bituminous Coated Pipe, Add	4.55	
33 42 11 00-1386 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	51.68	10.19
For Bituminous Coated Pipe, Add	5.44	
33 42 11 00-1387 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	59.30	11.04
For Bituminous Coated Pipe, Add	6.47	
33 42 11 00-1388 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1383)</small>		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1389	LF		17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	51.58 4.54	9.34
33 42 11 00-1390	LF		21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	57.22 5.23	10.19
33 42 11 00-1391	LF		24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	67.31 6.42	11.04
33 42 11 00-1392	LF		28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	75.91 7.37	11.88
33 42 11 00-1393	LF		35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	97.91 9.32	15.28
33 42 11 00-1394			12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch		
			<small>(33 42 11 00-1383)</small>		
33 42 11 00-1395	LF		28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	93.50 7.02	11.88
33 42 11 00-1396	LF		35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	119.85 8.85	15.28
33 42 11 00-1397	LF		42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	152.95 11.05	20.02
33 42 11 00-1398	LF		49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	176.99 13.07	23.66
33 42 11 00-1399			10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch		
			<small>(33 42 11 00-1383)</small>		
33 42 11 00-1400	LF		42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	180.93 10.66	20.02
33 42 11 00-1401	LF		49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	209.69 12.58	23.66
33 42 11 00-1402	LF		57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	243.65 14.74	27.30
33 42 11 00-1403	LF		64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <i>For Bituminous Coated Pipe, Add</i>	272.89 16.40	30.93
33 42 11 00-1404			3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1382)</small>		
33 42 11 00-1405			14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1404)</small>		
33 42 11 00-1406	LF		60" x 46" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	211.76	30.93
33 42 11 00-1407	LF		66" x 51" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	231.85	32.75
33 42 11 00-1408	LF		73" x 55" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	282.02	40.04
33 42 11 00-1409			12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1404)</small>		
33 42 11 00-1410	LF		60" x 46" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	258.33	30.93
33 42 11 00-1411	LF		66" x 51" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	283.42	32.75
33 42 11 00-1412	LF		73" x 55" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	338.34	40.04
33 42 11 00-1413	LF		81" x 59" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	395.47	58.23
33 42 11 00-1414	LF		87" x 63" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	426.71	63.70
33 42 11 00-1415	LF		95" x 67" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	455.56	68.24
33 42 11 00-1416			10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1404)</small>		
33 42 11 00-1417	LF		66" x 51" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	337.58	32.75
33 42 11 00-1418	LF		73" x 55" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	395.49	40.04
33 42 11 00-1419	LF		81" x 59" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	457.75	58.23
33 42 11 00-1420	LF		87" x 63" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	494.14	63.70
33 42 11 00-1421	LF		95" x 67" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	528.06	68.24
33 42 11 00-1422	LF		103" x 71" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	561.95	72.79
33 42 11 00-1423			Corrugated Steel Pipe Fittings <small>(33 42 11 00-0498)</small>		
			Note: Equivalent pipe-arch sizes are approximate.		
33 42 11 00-1424			Fabricate 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fittings <small>(33 42 11 00-1423)</small>		
			Note: Excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.		
33 42 11 00-1425	EA		Fabricate 6" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe).....	76.66	
33 42 11 00-1426	EA		Fabricate 8" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe).....	96.12	
33 42 11 00-1427	EA		Fabricate 10" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe).....	115.60	
33 42 11 00-1428	EA		Fabricate 12" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	136.30	
33 42 11 00-1429	EA		Fabricate 15" (Or 17" x 13" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	165.49	
33 42 11 00-1430	EA		Fabricate 18" (Or 21" x 15" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	194.69	
33 42 11 00-1431	EA		Fabricate 21" (Or 24" x 18" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	223.89	
33 42 11 00-1432	EA		Fabricate 24" (Or 28" x 20" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	253.09	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT	DEMOLITION
				UNIT COST	UNIT COST
33 42 11 00-1433	EA		Fabricate 30" (Or 35" x 24" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	329.76	
33 42 11 00-1434	EA		Fabricate 36" (Or 42" x 29" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	393.03	
33 42 11 00-1435	EA		Fabricate 42" (Or 49" x 33" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	456.31	
33 42 11 00-1436	EA		Fabricate 48" (Or 57" x 38" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	590.15	
33 42 11 00-1437	EA		Fabricate 54" (Or 64" x 43" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	665.60	
33 42 11 00-1438	EA		Fabricate 60" (Or 71" x 47" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	743.48	
33 42 11 00-1439	EA		Fabricate 66" (Or 77" x 52" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	823.79	
33 42 11 00-1440	EA		Fabricate 72" (Or 83" x 57" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,003.88	
33 42 11 00-1441	EA		Fabricate 78" (Or 87" x 63" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,095.12	
33 42 11 00-1442	EA		Fabricate 84" (Or 95" x 67" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,188.82	
33 42 11 00-1443	EA		Fabricate 90" (Or 103" x 71" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,458.95	
33 42 11 00-1444	EA		Fabricate 96" (Or 112" x 75" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,566.05	
33 42 11 00-1445	EA		Fabricate 102" (Or 117" x 79" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,674.34	
33 42 11 00-1446	EA		Fabricate 108" (Or 128" x 83" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,782.63	
33 42 11 00-1447	EA		Fabricate 114" (Or 137" x 87" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,889.70	
33 42 11 00-1448	EA		Fabricate 120" (Or 142" x 91" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,998.01	
33 42 11 00-1449	EA		Fabricate 126" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	2,112.19	
33 42 11 00-1450	EA		Fabricate 132" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	2,232.90	
33 42 11 00-1451	EA		Fabricate 138" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	2,360.48	

33 42 11 00-1452 Fabricate Corrugated Steel Pipe Tees Or Laterals (33 42 11 00-1423)

Note: Fabrication charge excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.

33 42 11 00-1453	EA		Fabricate 6" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	99.78	
33 42 11 00-1454	EA		Fabricate 8" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	127.77	
33 42 11 00-1455	EA		Fabricate 10" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	155.73	
33 42 11 00-1456	EA		Fabricate 12" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	183.74	
33 42 11 00-1457	EA		Fabricate 15" (Or 17" x 13" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	223.89	
33 42 11 00-1458	EA		Fabricate 18" (Or 21" x 15" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	265.26	
33 42 11 00-1459	EA		Fabricate 21" (Or 24" x 18" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	306.65	
33 42 11 00-1460	EA		Fabricate 24" (Or 28" x 20" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	347.99	
33 42 11 00-1461	EA		Fabricate 30" (Or 35" x 24" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	456.31	
33 42 11 00-1462	EA		Fabricate 36" (Or 42" x 29" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	543.92	
33 42 11 00-1463	EA		Fabricate 42" (Or 49" x 33" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	632.74	
33 42 11 00-1464	EA		Fabricate 48" (Or 57" x 38" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	821.34	
33 42 11 00-1465	EA		Fabricate 54" (Or 64" x 43" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	924.77	
33 42 11 00-1466	EA		Fabricate 60" (Or 71" x 47" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,031.84	
33 42 11 00-1467	EA		Fabricate 66" (Or 77" x 52" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,141.36	
33 42 11 00-1468	EA		Fabricate 72" (Or 83" x 57" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,392.01	
33 42 11 00-1469	EA		Fabricate 78" (Or 87" x 63" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	1,516.15	
33 42 11 00-1470	EA		Fabricate 84" (Or 95" x 67" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	1,642.69	
33 42 11 00-1471	EA		Fabricate 90" (Or 103" x 71" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....	2,021.10	
33 42 11 00-1472	EA		Fabricate 96" (Or 112" x 75" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....	2,165.92	
33 42 11 00-1473	EA		Fabricate 102" (Or 117" x 79" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....	2,310.71	
33 42 11 00-1474	EA		Fabricate 108" (Or 128" x 83" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....	2,456.72	
33 42 11 00-1475	EA		Fabricate 114" (Or 137" x 87" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....	2,602.75	
33 42 11 00-1476	EA		Fabricate 120" (Or 142" x 91" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....	2,747.53	

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33 42 Stormwater Conveyance



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1477 EA Fabricate 126" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 23' Of Appropriate Pipe)	2,900.39	
33 42 11 00-1478 EA Fabricate 132" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe)	3,061.73	
33 42 11 00-1479 EA Fabricate 138" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe)	3,232.04	
33 42 11 00-1480 Fabricate Skew Or Bevel Ends, Corrugated Steel Pipe Fitting (33 42 11 00-1423)		
Note: Applied to pipe tasks.		
33 42 11 00-1481 EA Fabricate 6" Skew Or Bevel End, Corrugated Steel Pipe Fitting	38.42	
33 42 11 00-1482 EA Fabricate 8" Skew Or Bevel End, Corrugated Steel Pipe Fitting	48.33	
33 42 11 00-1483 EA Fabricate 10" Skew Or Bevel End, Corrugated Steel Pipe Fitting	60.80	
33 42 11 00-1484 EA Fabricate 12" Skew Or Bevel End, Corrugated Steel Pipe Fitting	74.45	
33 42 11 00-1485 EA Fabricate 15" (Or 17" x 13" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	94.20	
33 42 11 00-1486 EA Fabricate 18" (Or 21" x 15" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	115.35	
33 42 11 00-1487 EA Fabricate 21" (Or 24" x 18" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	135.12	
33 42 11 00-1488 EA Fabricate 24" (Or 28" x 20" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	156.98	
33 42 11 00-1489 EA Fabricate 30" (Or 35" x 24" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	192.81	
33 42 11 00-1490 EA Fabricate 36" (Or 42" x 29" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	229.88	
33 42 11 00-1491 EA Fabricate 42" (Or 49" x 33" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	274.30	
33 42 11 00-1492 EA Fabricate 48" (Or 57" x 38" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	337.42	
33 42 11 00-1493 EA Fabricate 54" (Or 64" x 43" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	381.91	
33 42 11 00-1494 EA Fabricate 60" (Or 71" x 47" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	430.10	
33 42 11 00-1495 EA Fabricate 66" (Or 77" x 52" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	521.57	
33 42 11 00-1496 EA Fabricate 72" (Or 83" x 57" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	578.41	
33 42 11 00-1497 EA Fabricate 78" (Or 87" x 63" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	705.72	
33 42 11 00-1498 EA Fabricate 84" (Or 95" x 67" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	768.78	
33 42 11 00-1499 EA Fabricate 90" (Or 103" x 71" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	835.54	
33 42 11 00-1500 EA Fabricate 96" (Or 112" x 75" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	901.00	
33 42 11 00-1501 EA Fabricate 102" (Or 117" x 79" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	967.74	
33 42 11 00-1502 EA Fabricate 108" (Or 128" x 83" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,035.70	
33 42 11 00-1503 EA Fabricate 114" (Or 137" x 87" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,102.47	
33 42 11 00-1504 EA Fabricate 120" (Or 142" x 91" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,169.20	
33 42 11 00-1505 EA Fabricate 126" Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,239.96	
33 42 11 00-1506 EA Fabricate 132" Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,315.00	
33 42 11 00-1507 EA Fabricate 138" Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,394.59	
33 42 11 00-1508 Coupling Bands, Corrugated Metal Pipe Fitting (33 42 11 00-1423)		
33 42 11 00-1509 EA 6" Coupling Band, Corrugated Metal Pipe Fitting	10.54	
For Bituminous Coated, Add	3.06	
33 42 11 00-1510 EA 8" Coupling Band, Corrugated Metal Pipe Fitting	13.99	
For Bituminous Coated, Add	4.06	
33 42 11 00-1511 EA 10" Coupling Band, Corrugated Metal Pipe Fitting	17.63	
For Bituminous Coated, Add	5.11	
33 42 11 00-1512 EA 12" Coupling Band, Corrugated Metal Pipe Fitting	29.26	
For Bituminous Coated, Add	8.49	
33 42 11 00-1513 EA 15" Coupling Band, Corrugated Metal Pipe Fitting	36.89	
For Bituminous Coated, Add	10.70	
33 42 11 00-1514 EA 18" Coupling Band, Corrugated Metal Pipe Fitting	54.12	
For Bituminous Coated, Add	15.69	
33 42 11 00-1515 EA 21" Coupling Band, Corrugated Metal Pipe Fitting	64.24	
For Bituminous Coated, Add	18.63	
33 42 11 00-1516 EA 24" Coupling Band, Corrugated Metal Pipe Fitting	72.84	
For Bituminous Coated, Add	21.12	
33 42 11 00-1517 EA 30" Coupling Band, Corrugated Metal Pipe Fitting	126.05	
For Bituminous Coated, Add	36.55	
33 42 11 00-1518 EA 36" Coupling Band, Corrugated Metal Pipe Fitting	201.67	
For Bituminous Coated, Add	48.40	
33 42 11 00-1519 EA 42" Coupling Band, Corrugated Metal Pipe Fitting	236.96	
For Bituminous Coated, Add	56.87	
33 42 11 00-1520 EA 48" Coupling Band, Corrugated Metal Pipe Fitting	265.52	
For Bituminous Coated, Add	63.72	
33 42 11 00-1521 EA 54" Coupling Band, Corrugated Metal Pipe Fitting	376.55	
For Bituminous Coated, Add	90.37	
33 42 11 00-1522 EA 60" Coupling Band, Corrugated Metal Pipe Fitting	538.58	
For Bituminous Coated, Add	96.94	
33 42 11 00-1523 EA 66" Coupling Band, Corrugated Metal Pipe Fitting	661.90	
For Bituminous Coated, Add	119.14	
33 42 11 00-1524 EA 72" Coupling Band, Corrugated Metal Pipe Fitting	850.25	
For Bituminous Coated, Add	119.04	
33 42 11 00-1525 EA 78" Coupling Band, Corrugated Metal Pipe Fitting	909.40	
For Bituminous Coated, Add	127.32	
33 42 11 00-1526 EA 84" Coupling Band, Corrugated Metal Pipe Fitting	968.88	
For Bituminous Coated, Add	135.64	
33 42 11 00-1527 EA 90" Coupling Band, Corrugated Metal Pipe Fitting	1,028.06	
For Bituminous Coated, Add	143.93	
33 42 11 00-1528 EA 96" Coupling Band, Corrugated Metal Pipe Fitting	1,087.39	
For Bituminous Coated, Add	152.23	
33 42 11 00-1529 EA 102" Coupling Band, Corrugated Metal Pipe Fitting	1,146.87	
For Bituminous Coated, Add	160.56	
33 42 11 00-1530 EA 108" Coupling Band, Corrugated Metal Pipe Fitting	1,206.08	
For Bituminous Coated, Add	168.85	
33 42 11 00-1531 EA 114" Coupling Band, Corrugated Metal Pipe Fitting	1,428.47	
For Bituminous Coated, Add	171.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1532 EA 120" Coupling Band, Corrugated Metal Pipe Fitting.....	1,324.41	
<i>For Bituminous Coated, Add</i>	158.93	
33 42 11 00-1533 EA 126" Coupling Band, Corrugated Metal Pipe Fitting.....	1,383.43	
<i>For Bituminous Coated, Add</i>	166.01	
33 42 11 00-1534 EA 132" Coupling Band, Corrugated Metal Pipe Fitting.....	1,442.89	
<i>For Bituminous Coated, Add</i>	173.15	
33 42 11 00-1535 EA 138" Coupling Band, Corrugated Metal Pipe Fitting.....	1,502.40	
<i>For Bituminous Coated, Add</i>	180.29	
 33 42 13 Stormwater Culverts (33 42)		
33 42 13 13 Precast Concrete Stormwater Culverts (33 42 13)		
33 42 13 13-0001 Precast Reinforced Concrete Box Culvert (33 42 13 13)		
Note: The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-0844 for crane lifting equipment.		
33 42 13 13-0002 LF 3' x 3' Precast Reinforced Concrete Box Culvert	522.42	45.50
<i>For Each LF Of Cut-Off Section, Add</i>	20.90	
33 42 13 13-0003 LF 4' x 2' Precast Reinforced Concrete Box Culvert	595.32	45.50
<i>For Each LF Of Cut-Off Section, Add</i>	23.81	
33 42 13 13-0004 LF 4' x 3' Precast Reinforced Concrete Box Culvert	713.07	45.50
<i>For Each LF Of Cut-Off Section, Add</i>	28.52	
33 42 13 13-0005 LF 5' x 3' Precast Reinforced Concrete Box Culvert	853.49	56.86
<i>For Each LF Of Cut-Off Section, Add</i>	34.14	
33 42 13 13-0006 LF 5' x 4' Precast Reinforced Concrete Box Culvert	875.92	56.86
<i>For Each LF Of Cut-Off Section, Add</i>	35.04	
33 42 13 13-0007 LF 5' x 5' Precast Reinforced Concrete Box Culvert	887.14	56.86
<i>For Each LF Of Cut-Off Section, Add</i>	35.49	
33 42 13 13-0008 LF 6' x 3' Precast Reinforced Concrete Box Culvert	914.10	59.14
<i>For Each LF Of Cut-Off Section, Add</i>	36.56	
33 42 13 13-0009 LF 6' x 4' Precast Reinforced Concrete Box Culvert	919.71	59.14
<i>For Each LF Of Cut-Off Section, Add</i>	36.79	
33 42 13 13-0010 LF 6' x 6' Precast Reinforced Concrete Box Culvert	1,020.65	59.14
<i>For Each LF Of Cut-Off Section, Add</i>	40.83	
33 42 13 13-0011 LF 7' x 4' Precast Reinforced Concrete Box Culvert	1,038.78	68.24
<i>For Each LF Of Cut-Off Section, Add</i>	41.55	
33 42 13 13-0012 LF 7' x 6' Precast Reinforced Concrete Box Culvert	1,087.72	92.81
<i>For Each LF Of Cut-Off Section, Add</i>	43.51	
33 42 13 13-0013 LF 8' x 2' Precast Reinforced Concrete Box Culvert	1,026.26	59.14
<i>For Each LF Of Cut-Off Section, Add</i>	41.05	
33 42 13 13-0014 LF 8' x 3' Precast Reinforced Concrete Box Culvert	1,044.39	68.24
<i>For Each LF Of Cut-Off Section, Add</i>	41.78	
33 42 13 13-0015 LF 8' x 4' Precast Reinforced Concrete Box Culvert	1,061.21	68.24
<i>For Each LF Of Cut-Off Section, Add</i>	42.45	
33 42 13 13-0016 LF 8' x 5' Precast Reinforced Concrete Box Culvert	1,270.26	90.99
<i>For Each LF Of Cut-Off Section, Add</i>	50.81	
33 42 13 13-0017 LF 8' x 6' Precast Reinforced Concrete Box Culvert	1,274.74	90.99
<i>For Each LF Of Cut-Off Section, Add</i>	50.99	
33 42 13 13-0018 LF 8' x 8' Precast Reinforced Concrete Box Culvert	1,395.21	113.74
<i>For Each LF Of Cut-Off Section, Add</i>	55.81	
33 42 13 13-0019 LF 9' x 4' Precast Reinforced Concrete Box Culvert	1,414.93	90.99
<i>For Each LF Of Cut-Off Section, Add</i>	56.60	
33 42 13 13-0020 LF 9' x 6' Precast Reinforced Concrete Box Culvert	1,477.08	113.74
<i>For Each LF Of Cut-Off Section, Add</i>	59.08	
33 42 13 13-0021 LF 10' x 3' Precast Reinforced Concrete Box Culvert	1,482.69	113.74
<i>For Each LF Of Cut-Off Section, Add</i>	59.31	
33 42 13 13-0022 LF 10' x 4' Precast Reinforced Concrete Box Culvert	1,830.35	113.74
<i>For Each LF Of Cut-Off Section, Add</i>	73.21	
33 42 13 13-0023 LF 10' x 5' Precast Reinforced Concrete Box Culvert	1,898.11	136.49
<i>For Each LF Of Cut-Off Section, Add</i>	75.92	
33 42 13 13-0024 LF 10' x 6' Precast Reinforced Concrete Box Culvert	1,920.53	136.49
<i>For Each LF Of Cut-Off Section, Add</i>	76.82	
33 42 13 13-0025 LF 10' x 7' Precast Reinforced Concrete Box Culvert	1,926.14	136.49
<i>For Each LF Of Cut-Off Section, Add</i>	77.05	
33 42 13 13-0026 LF 10' x 8' Precast Reinforced Concrete Box Culvert	1,933.99	136.49
<i>For Each LF Of Cut-Off Section, Add</i>	77.36	
33 42 13 13-0027 LF 12' x 3' Precast Reinforced Concrete Box Culvert	1,988.29	159.23
<i>For Each LF Of Cut-Off Section, Add</i>	79.53	
33 42 13 13-0028 LF 12' x 4' Precast Reinforced Concrete Box Culvert	1,988.29	159.23
<i>For Each LF Of Cut-Off Section, Add</i>	79.53	
33 42 13 13-0029 LF 12' x 6' Precast Reinforced Concrete Box Culvert	1,988.29	159.23
<i>For Each LF Of Cut-Off Section, Add</i>	79.53	
33 42 13 13-0030 LF 12' x 8' Precast Reinforced Concrete Box Culvert	1,988.29	159.23
<i>For Each LF Of Cut-Off Section, Add</i>	79.53	
33 42 13 13-0031 LF 16' x 10' Precast Reinforced Concrete Box Culvert	2,953.23	181.98
<i>For Each LF Of Cut-Off Section, Add</i>	118.13	
33 42 13 13-0032 LF 24' x 10' Precast Reinforced Concrete Box Culvert	4,186.89	181.98
<i>For Each LF Of Cut-Off Section, Add</i>	167.48	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 13 13-0033 Precast Reinforced Concrete Box Culvert For Roadways <small>(33 42 13 13)</small>		
Note: AASHTO HL-93 Rated. The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-0844 for crane lifting equipment.		
33 42 13 13-0034 LF 3' x 3' Precast Reinforced Concrete Box Culvert For Roadways.....	1,380.93	45.50
For Each LF Of Cut-Off Section, Add	55.24	
33 42 13 13-0035 LF 4' x 2' Precast Reinforced Concrete Box Culvert For Roadways.....	1,488.65	45.50
For Each LF Of Cut-Off Section, Add	59.55	
33 42 13 13-0036 LF 4' x 3' Precast Reinforced Concrete Box Culvert For Roadways.....	1,679.29	45.50
For Each LF Of Cut-Off Section, Add	67.17	
33 42 13 13-0037 LF 5' x 3' Precast Reinforced Concrete Box Culvert For Roadways.....	2,892.55	56.86
For Each LF Of Cut-Off Section, Add	75.70	
33 42 13 13-0038 LF 5' x 4' Precast Reinforced Concrete Box Culvert For Roadways.....	2,083.19	56.86
For Each LF Of Cut-Off Section, Add	83.33	
33 42 13 13-0039 LF 5' x 5' Precast Reinforced Concrete Box Culvert For Roadways.....	2,273.84	56.86
For Each LF Of Cut-Off Section, Add	90.95	
33 42 13 13-0040 LF 6' x 3' Precast Reinforced Concrete Box Culvert For Roadways.....	2,087.73	59.14
For Each LF Of Cut-Off Section, Add	83.51	
33 42 13 13-0041 LF 6' x 4' Precast Reinforced Concrete Box Culvert For Roadways.....	2,278.38	59.14
For Each LF Of Cut-Off Section, Add	91.14	
33 42 13 13-0042 LF 6' x 6' Precast Reinforced Concrete Box Culvert For Roadways.....	2,659.66	59.14
For Each LF Of Cut-Off Section, Add	106.39	
33 42 13 13-0043 LF 7' x 4' Precast Reinforced Concrete Box Culvert For Roadways.....	2,487.15	68.24
For Each LF Of Cut-Off Section, Add	99.49	
33 42 13 13-0044 LF 7' x 6' Precast Reinforced Concrete Box Culvert For Roadways.....	2,917.33	92.81
For Each LF Of Cut-Off Section, Add	116.69	
33 42 13 13-0045 LF 8' x 2' Precast Reinforced Concrete Box Culvert For Roadways.....	2,278.38	59.14
For Each LF Of Cut-Off Section, Add	91.14	
33 42 13 13-0046 LF 8' x 3' Precast Reinforced Concrete Box Culvert For Roadways.....	2,487.15	68.24
For Each LF Of Cut-Off Section, Add	99.49	
33 42 13 13-0047 LF 8' x 4' Precast Reinforced Concrete Box Culvert For Roadways.....	2,677.79	68.24
For Each LF Of Cut-Off Section, Add	107.11	
33 42 13 13-0048 LF 8' x 5' Precast Reinforced Concrete Box Culvert For Roadways.....	2,913.70	90.99
For Each LF Of Cut-Off Section, Add	116.55	
33 42 13 13-0049 LF 8' x 6' Precast Reinforced Concrete Box Culvert For Roadways.....	3,104.35	90.99
For Each LF Of Cut-Off Section, Add	124.17	
33 42 13 13-0050 LF 8' x 8' Precast Reinforced Concrete Box Culvert For Roadways.....	3,530.96	113.74
For Each LF Of Cut-Off Section, Add	141.24	
33 42 13 13-0051 LF 9' x 4' Precast Reinforced Concrete Box Culvert For Roadways.....	3,135.55	90.99
For Each LF Of Cut-Off Section, Add	125.42	
33 42 13 13-0052 LF 9' x 6' Precast Reinforced Concrete Box Culvert For Roadways.....	3,588.34	113.74
For Each LF Of Cut-Off Section, Add	143.53	
33 42 13 13-0053 LF 10' x 3' Precast Reinforced Concrete Box Culvert For Roadways.....	3,546.86	113.74
For Each LF Of Cut-Off Section, Add	141.87	
33 42 13 13-0054 LF 10' x 4' Precast Reinforced Concrete Box Culvert For Roadways.....	3,773.23	113.74
For Each LF Of Cut-Off Section, Add	150.93	
33 42 13 13-0055 LF 10' x 5' Precast Reinforced Concrete Box Culvert For Roadways.....	4,044.91	136.49
For Each LF Of Cut-Off Section, Add	161.80	
33 42 13 13-0056 LF 10' x 6' Precast Reinforced Concrete Box Culvert For Roadways.....	4,271.29	136.49
For Each LF Of Cut-Off Section, Add	170.85	
33 42 13 13-0057 LF 10' x 7' Precast Reinforced Concrete Box Culvert For Roadways.....	4,497.70	136.49
For Each LF Of Cut-Off Section, Add	179.91	
33 42 13 13-0058 LF 10' x 8' Precast Reinforced Concrete Box Culvert For Roadways.....	4,724.07	136.49
For Each LF Of Cut-Off Section, Add	188.96	
33 42 13 13-0059 LF 12' x 3' Precast Reinforced Concrete Box Culvert For Roadways.....	4,692.36	159.23
For Each LF Of Cut-Off Section, Add	187.69	
33 42 13 13-0060 LF 12' x 4' Precast Reinforced Concrete Box Culvert For Roadways.....	4,949.67	159.23
For Each LF Of Cut-Off Section, Add	197.99	
33 42 13 13-0061 LF 12' x 6' Precast Reinforced Concrete Box Culvert For Roadways.....	5,464.40	159.23
For Each LF Of Cut-Off Section, Add	218.58	
33 42 13 13-0062 LF 12' x 8' Precast Reinforced Concrete Box Culvert For Roadways.....	5,979.12	159.23
For Each LF Of Cut-Off Section, Add	239.16	
33 42 13 13-0063 LF 16' x 10' Precast Reinforced Concrete Box Culvert For Roadways.....	7,168.26	181.98
For Each LF Of Cut-Off Section, Add	286.73	
33 42 13 13-0064 LF 24' x 10' Precast Reinforced Concrete Box Culvert For Roadways.....	9,112.74	181.98
For Each LF Of Cut-Off Section, Add	364.51	

33 42 23 Headwalls and Endwalls for Stormwater Piping (33 42)**33 42 23 00-0001 Headwalls** (33 42 23)

Note: Excludes excavation and backfill. Select pipe with closest opening area for square or round culverts.

33 42 23 00-0002 Cast In Place Concrete Headwalls (33 42 23 00-0001)

Note: Includes concrete, forms, rebar (where required), finish and curing.

33 42 23 00-0003 Skewed Wingwall, Cast In Place Concrete Headwall (33 42 23 00-0002)

Note: Sized by pipe diameter.

33 42 23 00-0004 EA 12" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	1,248.47	591.32
33 42 23 00-0005 EA 15" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	1,575.16	630.74
33 42 23 00-0006 EA 18" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	2,052.92	826.18
33 42 23 00-0007 EA 24" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	3,189.94	1,182.64
33 42 23 00-0008 EA 30" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	4,424.50	1,576.85
33 42 23 00-0009 EA 36" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	5,469.30	2,078.46



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 23 00-0010 EA 42" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	7,574.19	2,866.98
33 42 23 00-0011 EA 48" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	9,001.35	3,378.93
33 42 23 00-0012 EA 54" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	10,833.88	4,113.56
33 42 23 00-0013 EA 60" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	13,014.79	4,979.52
33 42 23 00-0014 Precast Concrete Headwalls (33 42 23 00-0001)		
33 42 23 00-0015 EA 12" Pipe, Precast Concrete Headwall	650.74	152.85
33 42 23 00-0016 EA 15" Pipe, Precast Concrete Headwall	676.21	161.33
33 42 23 00-0017 EA 18" Pipe, Precast Concrete Headwall	745.55	183.42
33 42 23 00-0018 EA 24" Pipe, Precast Concrete Headwall	821.77	195.30
33 42 23 00-0019 EA 30" Pipe, Precast Concrete Headwall	1,085.56	229.27
33 42 23 00-0020 EA 36" Pipe, Precast Concrete Headwall	1,224.22	237.76
33 42 23 00-0021 EA 42" Pipe, Precast Concrete Headwall	1,599.73	280.79
33 42 23 00-0022 EA 48" Pipe, Precast Concrete Headwall	1,761.83	309.36
33 42 23 00-0023 EA 54" Pipe, Precast Concrete Headwall	1,940.73	327.56
33 42 23 00-0024 EA 60" Pipe, Precast Concrete Headwall	2,195.45	327.56
33 42 23 00-0025 EA 72" Pipe, Precast Concrete Headwall	2,632.08	409.45
33 42 23 00-0026 EA 84" Pipe, Precast Concrete Headwall	3,693.36	491.34
33 42 23 00-0027 Precast Concrete Wingwalls (33 42 23 00-0001)		
33 42 23 00-0028 EA 18" ID Pipe (26" Hole) Precast Concrete Wingwall	4,136.38	1,621.42
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0029 EA 24" ID Pipe (32" Hole) Precast Concrete Wingwall	4,409.34	1,801.57
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0030 EA 30" ID Pipe (42" Hole) Precast Concrete Wingwall	4,864.28	2,101.83
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0031 EA 33" ID Pipe (46" Hole) Precast Concrete Wingwall	5,319.22	2,402.09
Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.		
33 42 23 00-0032 EA 36" ID Pipe (50" Hole) Precast Concrete Wingwall	5,319.22	2,402.09
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0033 EA 44" ID Pipe (58" Hole) Precast Concrete Wingwall	5,501.21	2,522.19
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0034 EA 48" ID Pipe (62" Hole) Precast Concrete Wingwall	8,916.62	2,582.25
Note: 12" thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0035 EA 52" ID Pipe (66" Hole) Precast Concrete Wingwall	9,189.59	2,762.40
Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.		
33 42 23 00-0036 Precast Concrete Transverse Drainage Interceptor (33 42 23 00-0001)		
33 42 23 00-0037 EA 34" x 48" x 28" Precast Concrete Transverse Drainage Interceptor With Frame And Grate	3,585.09	636.92
33 42 26 End Sections for Stormwater Piping (33 42)		
33 42 26 16 Corrugated Metal End Sections for Stormwater Piping (33 42 26)		
33 42 26 16-0001 Corrugated Metal Pipe End Sections (33 42 26 16)		
33 42 26 16-0002 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0001)		
33 42 26 16-0003 Type 1 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)		
Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.		
33 42 26 16-0004 EA 12" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	225.67	59.44
33 42 26 16-0005 EA 15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	260.94	63.69
33 42 26 16-0006 EA 18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	303.46	67.94
33 42 26 16-0007 EA 21" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	366.05	74.30
33 42 26 16-0008 EA 24" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	405.19	80.67
33 42 26 16-0009 Type 2 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)		
Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.		
33 42 26 16-0010 EA 30" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	646.25	91.28
33 42 26 16-0011 EA 36" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	839.09	109.19
33 42 26 16-0012 EA 42" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	1,278.89	127.38
33 42 26 16-0013 EA 48" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	1,560.36	145.58
33 42 26 16-0014 EA 54" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	1,860.44	181.98
33 42 26 16-0015 EA 60" 10 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	2,173.83	218.37
33 42 26 16-0016 Type 3 Or 5 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)		
Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.		
33 42 26 16-0017 EA 12" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	235.21	59.44
33 42 26 16-0018 EA 15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	270.75	63.69
33 42 26 16-0019 EA 18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	318.55	67.94
33 42 26 16-0020 EA 21" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	384.16	74.30
33 42 26 16-0021 EA 24" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	425.73	80.67
33 42 26 16-0022 EA 30" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	709.30	91.28
33 42 26 16-0023 EA 36" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	916.25	109.19
33 42 26 16-0024 EA 42" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	1,449.86	127.38
33 42 26 16-0025 EA 48" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	1,780.99	145.58

33 Utilities
33 40 Stormwater Utilities
33 42 Stormwater Conveyance



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0026 EA 54" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	2,083.56	181.98
33 42 26 16-0027 EA 60" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	2,880.50	218.37
33 42 26 16-0028 EA 66" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,285.12	327.56
33 42 26 16-0029 EA 72" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,854.96	436.74
33 42 26 16-0030 EA 78" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	4,197.66	468.59
33 42 26 16-0031 EA 84" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	4,548.51	500.44
33 42 26 16-0032 Toe Plate Extensions For Galvanized Corrugated Steel Pipe End Section ⁽³³⁾		
<small>42 26 16-0002</small>		
33 42 26 16-0033 EA Toe Plate Extension For 12" Diameter Galvanized Corrugated Steel Pipe End Section.....	28.85	
33 42 26 16-0034 EA Toe Plate Extension For 15" Diameter Galvanized Corrugated Steel Pipe End Section.....	32.09	
33 42 26 16-0035 EA Toe Plate Extension For 18" Diameter Galvanized Corrugated Steel Pipe End Section.....	36.06	
33 42 26 16-0036 EA Toe Plate Extension For 21" Diameter Galvanized Corrugated Steel Pipe End Section.....	39.21	
33 42 26 16-0037 EA Toe Plate Extension For 24" Diameter Galvanized Corrugated Steel Pipe End Section.....	43.85	
33 42 26 16-0038 EA Toe Plate Extension For 30" Diameter Galvanized Corrugated Steel Pipe End Section.....	76.20	
33 42 26 16-0039 EA Toe Plate Extension For 36" Diameter Galvanized Corrugated Steel Pipe End Section.....	82.00	
33 42 26 16-0040 EA Toe Plate Extension For 42" Diameter Galvanized Corrugated Steel Pipe End Section.....	111.91	
33 42 26 16-0041 EA Toe Plate Extension For 48" Diameter Galvanized Corrugated Steel Pipe End Section.....	119.89	
33 42 26 16-0042 EA Toe Plate Extension For 54" Diameter Galvanized Corrugated Steel Pipe End Section.....	146.27	
33 42 26 16-0043 EA Toe Plate Extension For 60" Diameter Galvanized Corrugated Steel Pipe End Section.....	149.98	
33 42 26 16-0044 EA Toe Plate Extension For 66" Diameter Galvanized Corrugated Steel Pipe End Section.....	160.41	
33 42 26 16-0045 EA Toe Plate Extension For 72" Diameter Galvanized Corrugated Steel Pipe End Section.....	183.44	
33 42 26 16-0046 EA Toe Plate Extension For 78" Diameter Galvanized Corrugated Steel Pipe End Section.....	205.11	
33 42 26 16-0047 EA 84" Diameter Galvanized Corrugated Steel Pipe End Section Toe Plate Extension.....	210.36	
33 42 26 16-0048 Galvanized Corrugated Steel Pipe-Arch End Sections ^(33 42 26 16-0001)		
33 42 26 16-0049 Type 1 Galvanized Corrugated Steel Pipe-Arch End Sections ^(33 42 26 16-0048)		
Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.		
33 42 26 16-0050 EA 17" x 13" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section.....	260.94	63.69
33 42 26 16-0051 EA 21" x 15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section.....	303.46	67.94
33 42 26 16-0052 EA 24" x 18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section.....	366.05	74.30
33 42 26 16-0053 EA 28" x 20" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section.....	405.19	80.67
33 42 26 16-0054 Type 2 Galvanized Corrugated Steel Pipe-Arch End Sections ^(33 42 26 16-0048)		
Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.		
33 42 26 16-0055 EA 17" x 13" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....	252.70	63.69
33 42 26 16-0056 EA 21" x 15" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....	288.23	67.94
33 42 26 16-0057 EA 24" x 18" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....	322.44	74.30
33 42 26 16-0058 EA 28" x 20" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....	363.55	80.67
33 42 26 16-0059 EA 35" x 24" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....	527.53	91.28
33 42 26 16-0060 EA 42" x 29" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....	766.61	109.19
33 42 26 16-0061 EA 49" x 33" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....	1,185.03	127.38
33 42 26 16-0062 EA 57" x 38" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section.....	1,497.81	145.58
33 42 26 16-0063 Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Sections ^(33 42 26 16-0048)		
Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.		
33 42 26 16-0064 EA 17" x 13" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....	256.88	63.69
33 42 26 16-0065 EA 21" x 15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....	297.31	67.94
33 42 26 16-0066 EA 24" x 18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....	336.65	74.30
33 42 26 16-0067 EA 28" x 20" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....	380.39	80.67
33 42 26 16-0068 EA 35" x 24" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....	556.15	91.28
33 42 26 16-0069 EA 42" x 29" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....	805.65	109.19
33 42 26 16-0070 EA 49" x 33" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....	1,247.48	127.38
33 42 26 16-0071 EA 57" x 38" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....	1,569.68	145.58
33 42 26 16-0072 EA 64" x 43" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....	1,889.97	181.98
33 42 26 16-0073 EA 71" x 47" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....	2,480.44	218.37
33 42 26 16-0074 EA 77" x 52" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....	3,466.44	327.56
33 42 26 16-0075 EA 83" x 57" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section.....	3,852.53	436.74
33 42 26 16-0076 Toe Plate Extensions For Galvanized Corrugated Steel Pipe-Arch End Section ^(33 42 26 16-0048)		
33 42 26 16-0077 EA Toe Plate Extension For 17" x 13" Galvanized Corrugated Steel Pipe-Arch End Section.....	32.09	
33 42 26 16-0078 EA Toe Plate Extension For 21" x 15" Galvanized Corrugated Steel Pipe-Arch End Section.....	36.06	
33 42 26 16-0079 EA Toe Plate Extension For 24" x 18" Galvanized Corrugated Steel Pipe-Arch End Section.....	39.21	
33 42 26 16-0080 EA Toe Plate Extension For 28" x 20" Galvanized Corrugated Steel Pipe-Arch End Section.....	43.85	
33 42 26 16-0081 EA Toe Plate Extension For 35" x 24" Galvanized Corrugated Steel Pipe-Arch End Section.....	76.20	
33 42 26 16-0082 EA Toe Plate Extension For 42" x 29" Galvanized Corrugated Steel Pipe-Arch End Section.....	82.00	
33 42 26 16-0083 EA Toe Plate Extension For 49" x 33" Galvanized Corrugated Steel Pipe-Arch End Section.....	111.91	
33 42 26 16-0084 EA Toe Plate Extension For 57" x 38" Galvanized Corrugated Steel Pipe-Arch End Section.....	124.61	
33 42 26 16-0085 EA Toe Plate Extension For 64" x 43" Galvanized Corrugated Steel Pipe-Arch End Section.....	146.27	
33 42 26 16-0086 EA Toe Plate Extension For 71" x 47" Galvanized Corrugated Steel Pipe-Arch End Section.....	151.86	
33 42 26 16-0087 EA Toe Plate Extension For 77" x 52" Galvanized Corrugated Steel Pipe-Arch End Section.....	175.73	
33 42 26 16-0088 EA Toe Plate Extension For 83" x 57" Galvanized Corrugated Steel Pipe-Arch End Section.....	200.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0089	Corrugated Aluminum Pipe End Sections (33 42 26 16-0001)	
33 42 26 16-0090	Corrugated Aluminum Pipe End Sections (33 42 26 16-0089)	
33 42 26 16-0091 EA 12" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	336.56	59.44
33 42 26 16-0092 EA 15" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	387.20	63.69
33 42 26 16-0093 EA 18" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	457.98	67.94
33 42 26 16-0094 EA 21" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	566.37	74.30
33 42 26 16-0095 EA 24" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	737.41	80.67
33 42 26 16-0096 EA 30" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	1,101.65	91.28
33 42 26 16-0097 EA 36" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	1,496.95	109.19
33 42 26 16-0098 EA 36" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	1,859.75	109.19
33 42 26 16-0099 EA 42" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	2,370.38	127.38
33 42 26 16-0100 EA 48" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	3,378.22	145.58
33 42 26 16-0101 EA 54" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	3,744.85	181.98
33 42 26 16-0102 EA 60" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	5,043.75	218.37
33 42 26 16-0103 EA 66" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	5,723.89	327.56
33 42 26 16-0104 EA 72" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	6,702.20	436.74
33 42 26 16-0105 EA 78" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	7,318.79	468.59
33 42 26 16-0106 EA 84" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	7,723.49	500.44
33 42 26 16-0107 EA 90" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	10,547.34	545.93
33 42 26 16-0108 EA 96" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	11,674.54	591.43
33 42 26 16-0109	Toe Plate Extensions For Corrugated Aluminum Pipe End Section (33 42 26 16-0089)	
33 42 26 16-0110 EA Toe Plate Extension For 12" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	52.67	
33 42 26 16-0111 EA Toe Plate Extension For 15" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	55.83	
33 42 26 16-0112 EA Toe Plate Extension For 18" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	60.52	
33 42 26 16-0113 EA Toe Plate Extension For 21" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	68.09	
33 42 26 16-0114 EA Toe Plate Extension For 24" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	72.27	
33 42 26 16-0115 EA Toe Plate Extension For 30" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	93.65	
33 42 26 16-0116 EA Toe Plate Extension For 36" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	112.42	
33 42 26 16-0117 EA Toe Plate Extension For 36" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	118.48	
33 42 26 16-0118 EA Toe Plate Extension For 42" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	129.94	
33 42 26 16-0119 EA Toe Plate Extension For 48" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	146.87	
33 42 26 16-0120 EA Toe Plate Extension For 54" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	173.54	
33 42 26 16-0121 EA Toe Plate Extension For 60" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	241.56	
33 42 26 16-0122 EA Toe Plate Extension For 66" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	260.79	
33 42 26 16-0123 EA Toe Plate Extension For 72" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	331.69	
33 42 26 16-0124 EA Toe Plate Extension For 78" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	359.08	
33 42 26 16-0125 EA Toe Plate Extension For 84" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	382.67	
33 42 26 16-0126 EA Toe Plate Extension For 90" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	407.43	
33 42 26 16-0127 EA Toe Plate Extension For 96" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	432.53	
33 42 26 16-0128	Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0001)	
33 42 26 16-0129	Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0128)	
33 42 26 16-0130 EA 17" x 13" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	398.93	63.69
33 42 26 16-0131 EA 21" x 15" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	486.56	67.94
33 42 26 16-0132 EA 24" x 18" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	528.45	74.30
33 42 26 16-0133 EA 28" x 20" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	570.30	80.67
33 42 26 16-0134 EA 35" x 24" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	850.99	91.28
33 42 26 16-0135 EA 42" x 29" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	1,513.63	109.19
33 42 26 16-0136 EA 42" x 29" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	1,605.61	109.19
33 42 26 16-0137 EA 49" x 33" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	2,143.51	127.38
33 42 26 16-0138 EA 57" x 38" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	3,289.87	145.58
33 42 26 16-0139 EA 64" x 43" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	3,768.84	181.98
33 42 26 16-0140 EA 71" x 47" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	4,566.62	218.37
33 42 26 16-0141 EA 77" x 52" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	7,627.99	327.56
33 42 26 16-0142 EA 83" x 57" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	8,019.06	436.74
33 42 26 16-0143 EA 87" x 63" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	8,730.40	468.59
33 42 26 16-0144 EA 95" x 67" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	9,113.91	500.44
33 42 26 16-0145 EA 103" x 71" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	9,934.29	545.93
33 42 26 16-0146 EA 112" x 75" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	10,525.99	591.43
33 42 26 16-0147	Toe Plate Extensions For Corrugated Aluminum Pipe-Arch End Section (33 42 26 16-0128)	
33 42 26 16-0148 EA Toe Plate Extension For 17" x 13", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	55.83	
33 42 26 16-0149 EA Toe Plate Extension For 21" x 15", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	60.52	
33 42 26 16-0150 EA Toe Plate Extension For 24" x 18", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	63.85	
33 42 26 16-0151 EA Toe Plate Extension For 28" x 20", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	69.94	
33 42 26 16-0152 EA Toe Plate Extension For 35" x 24", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	80.32	
33 42 26 16-0153 EA Toe Plate Extension For 42" x 29", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	104.76	
33 42 26 16-0154 EA Toe Plate Extension For 42" x 29", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	114.42	
33 42 26 16-0155 EA Toe Plate Extension For 49" x 33", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	129.94	
33 42 26 16-0156 EA Toe Plate Extension For 57" x 38", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	146.87	
33 42 26 16-0157 EA Toe Plate Extension For 64" x 43", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	173.54	
33 42 26 16-0158 EA Toe Plate Extension For 71" x 47", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	220.08	
33 42 26 16-0159 EA Toe Plate Extension For 77" x 52", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	278.78	
33 42 26 16-0160 EA Toe Plate Extension For 83" x 57", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	376.66	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0161 EA Toe Plate Extension For 87" x 63", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	427.54	
33 42 26 16-0162 EA Toe Plate Extension For 95" x 67", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	447.97	
33 42 26 16-0163 EA Toe Plate Extension For 103" x 71", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	464.73	
33 42 26 16-0164 EA Toe Plate Extension For 112" x 75", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	485.16	
33 42 26 16-0165 Low Slope Corrugated Steel Pipe End Sections And Accessories (33 42 26 16-0001)		
33 42 26 16-0166 4:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
33 42 26 16-0167 EA 15" 16 Gauge, 4:1 Corrugated Steel Pipe End Section.....	511.55	63.69
33 42 26 16-0168 EA 18" 16 Gauge, 4:1 Corrugated Steel Pipe End Section.....	657.29	67.94
33 42 26 16-0169 EA 21" 16 Gauge, 4:1 Corrugated Steel Pipe End Section.....	803.90	74.30
33 42 26 16-0170 EA 24" 16 Gauge, 4:1 Corrugated Steel Pipe End Section.....	960.84	80.67
33 42 26 16-0171 EA 30" 16 Gauge, 4:1 Corrugated Steel Pipe End Section.....	1,017.19	91.28
33 42 26 16-0172 EA 36" 16 Gauge, 4:1 Corrugated Steel Pipe End Section.....	1,330.21	109.19
33 42 26 16-0173 EA 42" 16 Gauge, 4:1 Corrugated Steel Pipe End Section.....	2,098.19	127.38
33 42 26 16-0174 3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
Note: Includes nut and bolt set.		
33 42 26 16-0175 EA 3" Diameter Parallel Safety Bar For 15" 4:1 Corrugated Steel Pipe End Section.....	363.19	
33 42 26 16-0176 EA 3" Diameter Parallel Safety Bar For 18" 4:1 Corrugated Steel Pipe End Section.....	725.25	
33 42 26 16-0177 EA 3" Diameter Parallel Safety Bar For 21" 4:1 Corrugated Steel Pipe End Section.....	795.86	
33 42 26 16-0178 EA 3" Diameter Parallel Safety Bar For 24" 4:1 Corrugated Steel Pipe End Section.....	827.58	
33 42 26 16-0179 6:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
33 42 26 16-0180 EA 15" 16 Gauge, 6:1 Corrugated Steel Pipe End Section.....	535.37	63.69
33 42 26 16-0181 EA 18" 16 Gauge, 6:1 Corrugated Steel Pipe End Section.....	700.14	67.94
33 42 26 16-0182 EA 21" 16 Gauge, 6:1 Corrugated Steel Pipe End Section.....	929.99	74.30
33 42 26 16-0183 EA 24" 16 Gauge, 6:1 Corrugated Steel Pipe End Section.....	1,091.90	80.67
33 42 26 16-0184 EA 30" 16 Gauge, 6:1 Corrugated Steel Pipe End Section.....	1,295.40	91.28
33 42 26 16-0185 EA 36" 16 Gauge, 6:1 Corrugated Steel Pipe End Section.....	1,575.76	109.19
33 42 26 16-0186 EA 42" 16 Gauge, 6:1 Corrugated Steel Pipe End Section.....	2,405.42	127.38
33 42 26 16-0187 3" Diameter Parallel Safety Bar For 6:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
Note: Includes nut and bolt set.		
33 42 26 16-0188 EA 3" Diameter Parallel Safety Bar For 15" 6:1 Corrugated Steel Pipe End Section.....	705.03	
33 42 26 16-0189 EA 3" Diameter Parallel Safety Bar For 18" 6:1 Corrugated Steel Pipe End Section.....	748.59	
33 42 26 16-0190 EA 3" Diameter Parallel Safety Bar For 21" 6:1 Corrugated Steel Pipe End Section.....	823.45	
33 42 26 16-0191 EA 3" Diameter Parallel Safety Bar For 24" 6:1 Corrugated Steel Pipe End Section.....	865.79	
33 42 26 16-0192 Toe Plate Extensions For Low Slope Corrugated Steel Pipe End Section (33 42 26 16-0165)		
33 42 26 16-0193 EA Toe Plate Extension For 15" Low Slope Corrugated Steel Pipe End Section.....	62.14	
33 42 26 16-0194 EA Toe Plate Extension For 18" Low Slope Corrugated Steel Pipe End Section.....	69.68	
33 42 26 16-0195 EA Toe Plate Extension For 21" Low Slope Corrugated Steel Pipe End Section.....	75.83	
33 42 26 16-0196 EA Toe Plate Extension For 24" Low Slope Corrugated Steel Pipe End Section.....	84.66	
33 42 26 16-0197 EA Toe Plate Extension For 30" Low Slope Corrugated Steel Pipe End Section.....	126.79	
33 42 26 16-0198 EA Toe Plate Extension For 36" Low Slope Corrugated Steel Pipe End Section.....	136.08	
33 42 26 16-0199 EA Toe Plate Extension For 42" Low Slope Corrugated Steel Pipe End Section.....	182.51	
33 42 26 16-0200 Low Slope Corrugated Steel Pipe-Arch End Sections And Accessories (33 42 26 16-0001)		
33 42 26 16-0201 4:1 Corrugated Steel Pipe-Arch End Section (33 42 26 16-0200)		
33 42 26 16-0202 EA 21" x 15" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	607.11	67.94
33 42 26 16-0203 EA 24" x 18" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	760.66	74.30
33 42 26 16-0204 EA 28" x 20" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	899.62	80.67
33 42 26 16-0205 EA 35" x 24" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	1,689.33	91.28
33 42 26 16-0206 3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0200)		
Note: Includes nut and bolt set.		
33 42 26 16-0207 EA 3" Diameter Parallel Safety Bar For 21" x 15" 4:1 Corrugated Steel Pipe-Arch End Section.....	432.34	
33 42 26 16-0208 EA 3" Diameter Parallel Safety Bar For 24" x 18" 4:1 Corrugated Steel Pipe-Arch End Section.....	785.36	
33 42 26 16-0209 EA 3" Diameter Parallel Safety Bar For 28" x 20" 4:1 Corrugated Steel Pipe-Arch End Section.....	827.58	
33 42 26 16-0210 EA 3" Diameter Parallel Safety Bar For 35" x 24" 4:1 Corrugated Steel Pipe-Arch End Section.....	1,216.79	
33 42 26 16-0211 Toe Plate Extensions For Low Slope Corrugated Steel Pipe-Arch End Section (33 42 26 16-0200)		
33 42 26 16-0212 EA Toe Plate Extension For 21" x 15" Low Slope Corrugated Steel Pipe-Arch End Section.....	62.84	
33 42 26 16-0213 EA Toe Plate Extension For 24" x 18" Low Slope Corrugated Steel Pipe-Arch End Section.....	71.25	



	Utilities	33
	Stormwater Utilities	33 40
	Stormwater Conveyance	33 42

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 42 26 16-0214	EA		Toe Plate Extension For 28" x 20" Low Slope Corrugated Steel Pipe-Arch End Section.....	77.68	
33 42 26 16-0215	EA		Toe Plate Extension For 35" x 24" Low Slope Corrugated Steel Pipe-Arch End Section.....	92.71	

33 42 26 19 Corrugated High-Density Polyethylene (HDPE) End Sections for Stormwater Piping (33 42 26)

33 42 26 19-0001 Corrugated High Density Polyethylene (HDPE) Pipe End Sections (33 42 26 19)

33 42 26 19-0002	EA	4" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	51.12	17.56
33 42 26 19-0003	EA	6" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	94.26	26.35
33 42 26 19-0004	EA	8" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	127.55	32.93
33 42 26 19-0005	EA	10" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	201.02	52.69
33 42 26 19-0006	EA	12" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	238.22	59.28
33 42 26 19-0007	EA	15" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	252.98	63.67
33 42 26 19-0008	EA	18" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	300.55	70.26
33 42 26 19-0009	EA	24" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	387.23	83.42
33 42 26 19-0010	EA	30" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	786.90	94.41
33 42 26 19-0011	EA	36" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	958.38	105.38

33 42 26 23 Concrete End Sections for Stormwater Piping (33 42 26)

33 42 26 23-0001 Precast Concrete End Sections (33 42 26 23)

33 42 26 23-0002 Precast Concrete End Sections (33 42 26 23-0001)

33 42 26 23-0003	EA	12" Diameter Pipe, Precast Concrete End Section	454.59	99.61
33 42 26 23-0004	EA	15" Diameter Pipe, Precast Concrete End Section	605.37	123.30
33 42 26 23-0005	EA	18" Diameter Pipe, Precast Concrete End Section	751.17	156.08
33 42 26 23-0006	EA	21" Diameter Pipe, Precast Concrete End Section	865.55	186.64
33 42 26 23-0007	EA	24" Diameter Pipe, Precast Concrete End Section	928.25	216.02
33 42 26 23-0008	EA	27" Diameter Pipe, Precast Concrete End Section	1,180.07	271.14
33 42 26 23-0009	EA	30" Diameter Pipe, Precast Concrete End Section	1,482.27	407.26
33 42 26 23-0010	EA	36" Diameter Pipe, Precast Concrete End Section	1,835.41	513.90
33 42 26 23-0011	EA	42" Diameter Pipe, Precast Concrete End Section	2,231.51	644.65
33 42 26 23-0012	EA	48" Diameter Pipe, Precast Concrete End Section	2,455.52	726.99
33 42 26 23-0013	EA	54" Diameter Pipe, Precast Concrete End Section	2,688.47	814.35
33 42 26 23-0014	EA	60" Diameter Pipe, Precast Concrete End Section	2,927.74	905.34
33 42 26 23-0015	EA	66" Diameter Pipe Precast Concrete End Section	2,829.68	723.90
33 42 26 23-0016	EA	72" Diameter Pipe Precast Concrete End Section	3,276.63	904.85
33 42 26 23-0017	EA	78" Diameter Pipe Precast Concrete End Section	3,921.80	1,131.06
33 42 26 23-0018	EA	84" Diameter Pipe Precast Concrete End Section	4,649.45	1,357.27

33 42 26 23-0019 Flared Precast Concrete End Sections (33 42 26 23-0001)

33 42 26 23-0020	EA	12" Diameter Pipe, Flared Precast Concrete End Section	563.40	106.00
33 42 26 23-0021	EA	15" Diameter Pipe, Flared Precast Concrete End Section	680.20	132.12
33 42 26 23-0022	EA	18" Diameter Pipe, Flared Precast Concrete End Section	829.09	167.24
33 42 26 23-0023	EA	21" Diameter Pipe, Flared Precast Concrete End Section	951.60	199.99
33 42 26 23-0024	EA	24" Diameter Pipe, Flared Precast Concrete End Section	1,155.17	231.48
33 42 26 23-0025	EA	27" Diameter Pipe, Flared Precast Concrete End Section	1,436.32	369.68
33 42 26 23-0026	EA	30" Diameter Pipe, Flared Precast Concrete End Section	1,553.80	508.99
33 42 26 23-0027	EA	36" Diameter Pipe, Flared Precast Concrete End Section	2,077.65	642.38
33 42 26 23-0028	EA	42" Diameter Pipe, Flared Precast Concrete End Section	2,509.90	805.98
33 42 26 23-0029	EA	48" Diameter Pipe, Flared Precast Concrete End Section	2,733.49	908.97
33 42 26 23-0030	EA	54" Diameter Pipe, Flared Precast Concrete End Section	3,058.08	1,018.07
33 42 26 23-0031	EA	60" Diameter Pipe, Flared Precast Concrete End Section	3,389.78	1,130.80
33 42 26 23-0032	EA	66" Diameter Pipe, Flared Precast Concrete End Section	3,945.85	1,302.86
33 42 26 23-0033	EA	72" Diameter Pipe, Flared Precast Concrete End Section	4,571.13	1,454.18
33 42 26 23-0034	EA	78" Diameter Pipe, Flared Precast Concrete End Section	5,177.24	1,635.88
33 42 26 23-0035	EA	84" Diameter Pipe, Flared Precast Concrete End Section	5,938.95	1,817.40

33 42 31 Stormwater Area Drains and Inlets (33 42)

33 42 31 00-0001 Storm Drains (33 42 31)

See CSI section 33 05 61 00-0001 for manhole structures.

33 42 31 00-0002 Catch Basins And Inlet Basins (33 42 31 00-0001)

Note: Includes base slab, opening and grout. Excludes frame, grate, excavation and backfill.

33 42 31 00-0003 Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0002)

Note: Inside dimensions.

33 42 31 00-0004 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)

33 42 31 00-0005	EA	2' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	1,669.26	290.84
33 42 31 00-0006	EA	3' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	2,000.30	340.77
33 42 31 00-0007	EA	4' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	2,331.34	390.63
33 42 31 00-0008	EA	5' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	2,662.36	440.55
33 42 31 00-0009	EA	6' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	2,993.39	490.40

33 42 31 00-0010 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)

33 42 31 00-0011	EA	2' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	2,219.68	289.09
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33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0012 EA 3' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	2,729.10	385.45
33 42 31 00-0013 EA 4' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	3,455.51	525.61
33 42 31 00-0014 EA 5' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	4,231.06	613.22
33 42 31 00-0015 EA 6' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	4,810.16	700.82
33 42 31 00-0016 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)		
33 42 31 00-0017 EA 2' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	2,390.13	315.37
33 42 31 00-0018 EA 3' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	3,314.33	438.01
33 42 31 00-0019 EA 4' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	4,016.05	569.42
33 42 31 00-0020 EA 5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	4,636.73	657.02
33 42 31 00-0021 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	5,873.68	840.99
33 42 31 00-0022 Cast In Place, Catch Basin (33 42 31 00-0002)		
Note: Inside span, overall depth. Includes concrete, forms, rebar (where required), finish and curing.		
33 42 31 00-0023 3' x 3', Cast In Place, Catch Basins (33 42 31 00-0002)		
33 42 31 00-0024 EA 3' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin.....	2,135.86	351.64
33 42 31 00-0025 EA 3'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin.....	2,267.81	373.89
33 42 31 00-0026 EA 4' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin.....	2,472.68	401.57
33 42 31 00-0027 EA 4'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin.....	2,792.84	444.49
33 42 31 00-0028 EA 5' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin.....	3,007.73	473.14
33 42 31 00-0029 EA 5'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin.....	3,152.32	496.18
33 42 31 00-0030 EA 6' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin.....	3,367.40	524.83
33 42 31 00-0031 EA 6'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin.....	3,508.75	547.95
33 42 31 00-0032 EA 7' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin.....	3,725.04	576.51
33 42 31 00-0033 EA 7'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin.....	3,868.41	599.64
33 42 31 00-0034 EA 8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin.....	4,083.39	628.29
33 42 31 00-0035 VLF >8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin.....	510.45	78.50
33 42 31 00-0036 3'-6" x 3'-6", Cast In Place, Catch Basins (33 42 31 00-0002)		
33 42 31 00-0037 EA 3' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	2,465.33	406.48
33 42 31 00-0038 EA 3'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	2,630.98	435.03
33 42 31 00-0039 EA 4' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	2,846.43	463.68
33 42 31 00-0040 EA 4'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	3,220.46	513.53
33 42 31 00-0041 EA 5' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	3,457.67	545.94
33 42 31 00-0042 EA 5'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	3,624.40	572.83
33 42 31 00-0043 EA 6' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	3,864.69	605.24
33 42 31 00-0044 EA 6'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	4,031.42	632.14
33 42 31 00-0045 EA 7' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	4,269.76	664.55
33 42 31 00-0046 EA 7'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	4,437.20	691.45
33 42 31 00-0047 EA 8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	4,675.64	723.86
33 42 31 00-0048 VLF >8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	584.48	90.49
33 42 31 00-0049 4' x 4', Cast In Place, Catch Basins (33 42 31 00-0002)		
33 42 31 00-0050 EA 3' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin.....	2,817.82	465.00
33 42 31 00-0051 EA 3'-6" Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin.....	2,994.04	494.52
33 42 31 00-0052 EA 4' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin.....	3,241.98	529.47
33 42 31 00-0053 EA 4'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin.....	3,670.41	586.33
33 42 31 00-0054 EA 5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin.....	3,932.93	622.51
33 42 31 00-0055 EA 5'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin.....	4,123.65	653.26
33 42 31 00-0056 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin.....	4,386.17	689.43
33 42 31 00-0057 EA 6'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin.....	4,576.17	720.18
33 42 31 00-0058 EA 7' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin.....	4,838.68	756.36
33 42 31 00-0059 EA 7'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin.....	5,029.39	787.11
33 42 31 00-0060 EA 8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin.....	5,291.91	823.38
33 42 31 00-0061 VLF >8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin.....	661.46	102.93
33 42 31 00-0062 4'-6" x 4'-6", Cast In Place, Catch Basins (33 42 31 00-0002)		
33 42 31 00-0063 EA 3' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	3,253.39	539.20
33 42 31 00-0064 EA 3'-6" Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	3,457.97	569.68
33 42 31 00-0065 EA 4' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	3,732.40	609.10
33 42 31 00-0066 EA 4'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	4,220.68	673.75
33 42 31 00-0067 EA 5' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	4,512.15	714.58
33 42 31 00-0068 EA 5'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	4,731.91	749.88
33 42 31 00-0069 EA 6' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	5,024.10	790.70
33 42 31 00-0070 EA 6'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	5,243.86	826.09
33 42 31 00-0071 EA 7' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	5,535.32	866.92
33 42 31 00-0072 EA 7'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	5,753.87	902.22
33 42 31 00-0073 EA 8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	6,047.27	943.05
33 42 31 00-0074 VLF >8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	755.95	117.92
33 42 31 00-0075 5' x 5', Cast In Place, Catch Basins (33 42 31 00-0002)		
33 42 31 00-0076 EA 4' Deep, 5' x 5' x 6" Thick Wall, Cast In Place, Catch Basin.....	4,185.87	683.91
33 42 31 00-0077 EA 4'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....	4,729.51	755.75



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 42 31 00-0078	EA	5' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....		5,046.63	800.51
33 42 31 00-0079	EA	5'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin		5,290.81	839.76
33 42 31 00-0080	EA	6' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....		5,604.77	884.44
33 42 31 00-0081	EA	6'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin		5,850.17	923.69
33 42 31 00-0082	EA	7' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....		6,166.07	968.45
33 42 31 00-0083	EA	7'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin		6,408.32	1,007.69
33 42 31 00-0084	EA	8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....		6,725.44	1,052.37
33 42 31 00-0085	VLF	>8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....		1,145.76	131.58
33 42 31 00-0086		5'-6" x 5'-6", Cast In Place, Catch Basins (33 42 31 00-0022)			
33 42 31 00-0087	EA	4' Deep, 5'-6" x 5'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....		4,660.85	762.67
33 42 31 00-0088	EA	4'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin		5,413.73	863.33
33 42 31 00-0089	EA	5' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....		5,764.08	913.09
33 42 31 00-0090	EA	5'-6" Deep, 5'-6" x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....		6,041.52	957.68
33 42 31 00-0091	EA	6' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....		6,393.82	1,007.78
33 42 31 00-0092	EA	6'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin		6,672.46	1,052.37
33 42 31 00-0093	EA	7' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin		7,022.82	1,102.48
33 42 31 00-0094	EA	7'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin		7,300.25	1,147.07
33 42 31 00-0095	EA	8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....		7,650.61	1,197.18
33 42 31 00-0096	VLF	>8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....		956.33	149.63
33 42 31 00-0097		6' x 6', Cast In Place, Catch Basins (33 42 31 00-0022)			
33 42 31 00-0098	EA	4' Deep, 6' x 6' x 6" Thick Wall, Cast In Place, Catch Basin.....		5,161.16	845.11
33 42 31 00-0099	EA	4'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin		5,990.22	955.57
33 42 31 00-0100	EA	5' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....		6,366.75	1,009.71
33 42 31 00-0101	EA	5'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin		6,669.64	1,058.33
33 42 31 00-0102	EA	6' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....		7,044.95	1,112.47
33 42 31 00-0103	EA	6'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin		7,349.78	1,161.09
33 42 31 00-0104	EA	7' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....		7,724.37	1,215.23
33 42 31 00-0105	EA	7'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin		8,027.98	1,263.85
33 42 31 00-0106	EA	8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....		8,404.50	1,317.99
33 42 31 00-0107	VLF	>8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....		1,050.61	164.78
33 42 31 00-0108		6'-6" x 6'-6", Cast In Place, Catch Basins (33 42 31 00-0022)			
33 42 31 00-0109	EA	4' Deep, 6'-6" x 6'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....		5,683.58	931.48
33 42 31 00-0110	EA	4'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin		6,783.64	1,079.18
33 42 31 00-0111	EA	5' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....		7,196.31	1,139.10
33 42 31 00-0112	EA	5'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....		7,537.17	1,193.50
33 42 31 00-0113	EA	6' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....		7,949.82	1,253.33
33 42 31 00-0114	EA	6'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin		8,290.69	1,307.83
33 42 31 00-0115	EA	7' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin		8,703.35	1,367.65
33 42 31 00-0116	EA	7'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin		9,044.21	1,422.06
33 42 31 00-0117	EA	8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....		9,458.80	1,481.98
33 42 31 00-0118	VLF	>8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....		1,182.30	185.28
33 42 31 00-0119		7' x 7', Cast In Place, Catch Basins (33 42 31 00-0022)			
33 42 31 00-0120	EA	4' Deep, 7' x 7' x 6" Thick Wall, Cast In Place, Catch Basin.....		6,229.52	1,021.62
33 42 31 00-0121	EA	4'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin		7,432.30	1,182.81
33 42 31 00-0122	EA	5' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....		7,871.66	1,246.94
33 42 31 00-0123	EA	5'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin		8,237.38	1,305.46
33 42 31 00-0124	EA	6' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....		8,677.86	1,369.50
33 42 31 00-0125	EA	6'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin		9,043.58	1,428.10
33 42 31 00-0126	EA	7' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....		9,482.94	1,492.14
33 42 31 00-0127	EA	7'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin		9,849.87	1,550.74
33 42 31 00-0128	EA	8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....		10,289.13	1,614.78
33 42 31 00-0129	VLF	>8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....		1,286.18	201.83
33 42 31 00-0130		7'-6" x 7'-6", Cast In Place, Catch Basins (33 42 31 00-0022)			
33 42 31 00-0131	EA	4' Deep, 7'-6" x 7'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....		7,018.81	1,146.63
33 42 31 00-0132	EA	4'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin		8,107.75	1,290.66
33 42 31 00-0133	EA	5' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....		8,571.88	1,358.90
33 42 31 00-0134	EA	5'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin		8,965.50	1,421.62
33 42 31 00-0135	EA	6' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....		9,430.75	1,489.86
33 42 31 00-0136	EA	6'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin		9,824.39	1,552.59
33 42 31 00-0137	EA	7' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin		10,288.51	1,620.83
33 42 31 00-0138	EA	7'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin		10,682.14	1,683.55
33 42 31 00-0139	EA	8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....		11,147.48	1,751.79
33 42 31 00-0140	VLF	>8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....		1,393.41	219.00
33 42 31 00-0141		8' x 8', Cast In Place, Catch Basins (33 42 31 00-0022)			
33 42 31 00-0142	EA	4' Deep, 8' x 8' x 6" Thick Wall, Cast In Place, Catch Basin.....		7,632.56	1,247.55
33 42 31 00-0143	EA	4'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin		8,807.84	1,402.70
33 42 31 00-0144	EA	5' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....		9,298.03	1,475.05
33 42 31 00-0145	EA	5'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin		9,718.36	1,541.99

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0146 EA 6' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	10,208.46	1,614.35
33 42 31 00-0147 EA 6'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	10,626.36	1,681.27
33 42 31 00-0148 EA 7' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	11,118.89	1,753.64
33 42 31 00-0149 EA 7'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	11,539.24	1,820.56
33 42 31 00-0150 EA 8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	12,021.55	1,892.92
33 42 31 00-0151 VLF >8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	1,503.67	236.61
33 42 31 00-0152 Precast Concrete Catch Basins (33 42 31 00-0002)		
Note: Inside dimensions.		
33 42 31 00-0153 1'-6" Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0154 EA 4' Deep, 1'-6" Diameter Precast Catch Basins.....	666.67	185.64
33 42 31 00-0155 EA 6' Deep, 1'-6" Diameter Precast Catch Basins.....	916.98	278.45
33 42 31 00-0156 EA 8' Deep, 1'-6" Diameter Precast Catch Basins.....	1,153.26	361.99
33 42 31 00-0157 EA 10' Deep, 1'-6" Diameter Precast Catch Basins.....	1,385.95	427.89
33 42 31 00-0158 EA 12' Deep, 1'-6" Diameter Precast Catch Basins.....	1,697.85	542.99
33 42 31 00-0159 EA 14' Deep, 1'-6" Diameter Precast Catch Basins.....	1,939.29	626.52
33 42 31 00-0160 VLF Vertical Linear Foot Over 14' Deep, 1'-6" Diameter Precast Catch Basins.....	134.23	41.77
33 42 31 00-0161 2' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0162 EA 4' Deep, 2' Diameter Precast Catch Basin.....	762.30	206.52
33 42 31 00-0163 EA 6' Deep, 2' Diameter Precast Catch Basin.....	1,042.61	306.30
33 42 31 00-0164 EA 8' Deep, 2' Diameter Precast Catch Basin.....	1,306.45	403.75
33 42 31 00-0165 EA 10' Deep, 2' Diameter Precast Catch Basin.....	1,565.65	471.05
33 42 31 00-0166 EA 12' Deep, 2' Diameter Precast Catch Basin.....	1,928.29	603.32
33 42 31 00-0167 EA 14' Deep, 2' Diameter Precast Catch Basin.....	2,199.79	696.14
33 42 31 00-0168 VLF Vertical Linear Foot Over 14' Deep, 2' Diameter Precast Catch Basin.....	152.26	50.12
33 42 31 00-0169 3' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0170 EA 4' Deep, 3' Diameter Precast Catch Basin.....	1,023.49	243.64
33 42 31 00-0171 EA 6' Deep, 3' Diameter Precast Catch Basin.....	1,380.68	360.14
33 42 31 00-0172 EA 8' Deep, 3' Diameter Precast Catch Basin.....	1,720.65	475.69
33 42 31 00-0173 EA 10' Deep, 3' Diameter Precast Catch Basin.....	2,143.10	594.04
33 42 31 00-0174 EA 12' Deep, 3' Diameter Precast Catch Basin.....	2,526.46	708.21
33 42 31 00-0175 EA 14' Deep, 3' Diameter Precast Catch Basin.....	2,894.02	824.22
33 42 31 00-0176 VLF Vertical Linear Foot Over 14' Deep, 3' Diameter Precast Catch Basin.....	197.80	58.87
33 42 31 00-0177 4' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0178 EA 4' Deep, 4' Diameter Precast Catch Basin.....	1,252.04	271.03
33 42 31 00-0179 EA 6' Deep, 4' Diameter Precast Catch Basin.....	1,617.32	371.27
33 42 31 00-0180 EA 8' Deep, 4' Diameter Precast Catch Basin.....	2,130.78	556.91
33 42 31 00-0181 EA 10' Deep, 4' Diameter Precast Catch Basin.....	2,658.61	696.14
33 42 31 00-0182 EA 12' Deep, 4' Diameter Precast Catch Basin.....	3,135.76	835.36
33 42 31 00-0183 EA 14' Deep, 4' Diameter Precast Catch Basin.....	3,594.50	974.59
33 42 31 00-0184 VLF Vertical Linear Foot Over 14' Deep, 4' Diameter Precast Catch Basin.....	245.04	69.62
33 42 31 00-0185 5' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0186 EA 4' Deep, 5' Diameter Precast Catch Basin.....	1,681.82	371.27
33 42 31 00-0187 EA 6' Deep, 5' Diameter Precast Catch Basin.....	2,274.11	556.91
33 42 31 00-0188 EA 8' Deep, 5' Diameter Precast Catch Basin.....	2,869.14	742.54
33 42 31 00-0189 EA 10' Deep, 5' Diameter Precast Catch Basin.....	3,498.98	928.18
33 42 31 00-0190 EA 12' Deep, 5' Diameter Precast Catch Basin.....	4,117.21	1,113.82
33 42 31 00-0191 EA 14' Deep, 5' Diameter Precast Catch Basin.....	4,786.30	1,299.46
33 42 31 00-0192 VLF Vertical Linear Foot Over 14' Deep, 5' Diameter Precast Catch Basin.....	325.93	92.82
33 42 31 00-0193 6' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0194 EA 4' Deep, 6' Diameter Precast Catch Basin.....	2,453.27	556.91
33 42 31 00-0195 EA 6' Deep, 6' Diameter Precast Catch Basin.....	3,279.09	835.36
33 42 31 00-0196 EA 8' Deep, 6' Diameter Precast Catch Basin.....	4,169.47	1,113.82
33 42 31 00-0197 EA 10' Deep, 6' Diameter Precast Catch Basin.....	5,193.93	1,392.27
33 42 31 00-0198 EA 12' Deep, 6' Diameter Precast Catch Basin.....	6,182.55	1,670.73
33 42 31 00-0199 EA 14' Deep, 6' Diameter Precast Catch Basin.....	7,142.60	1,949.18
33 42 31 00-0200 VLF Vertical Linear Foot Over 14' Deep, 6' Diameter Precast Catch Basin.....	485.34	139.23
33 42 31 00-0201 Precast Catch Basins Accessories (33 42 31 00-0152)		
33 42 31 00-0202 EA Single Or Double Wing Slab Top With Throat.....	1,321.82	603.32
33 42 31 00-0203 EA 4' x 4' Weir Box, Precast Catch Basin.....	726.71	74.25
33 42 31 00-0204 EA 4' Diameter Inlet Round To Square Adapter, Precast Catch Basin.....	386.12	78.90
33 42 31 00-0205 EA 3' Diameter, Up To 6" High, Precast Extension Ring.....	472.07	116.02
For Each Additional Inch In Height, Add	59.33	
33 42 31 00-0206 EA 4' Diameter, Up To 6" High, Precast Extension Ring.....	555.42	139.23
For Each Additional Inch In Height, Add	69.35	



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0207 EA 5' Diameter, Up To 6" High, Precast Extension Ring <i>For Each Additional Inch In Height, Add</i>	648.02 80.96	162.43
33 42 31 00-0208 EA 6' Diameter, Up To 6" High, Precast Extension Ring <i>For Each Additional Inch In Height, Add</i>	794.26 93.74	232.05
33 42 31 00-0209 EA Adjust Existing Catch Basin Inlet Grate To Match Grade.....	556.87	
33 42 31 00-0210 Catch Basin Risers (33 42 31 00-0152)		
33 42 31 00-0211 EA Up To 860 Square Inch, Up To 2" Rise, Catch Basin Riser	309.55	
33 42 31 00-0212 EA >860 To 1140 Square Inch, Up To 2" Rise, Catch Basin Riser	343.43	
33 42 31 00-0213 EA >1140 Square Inch, Up To 2" Rise, Catch Basin Riser	383.65	
33 42 31 00-0214 EA Up To 860 Square Inch, >2" To 3" Rise, Catch Basin Riser	332.96	
33 42 31 00-0215 EA >860 To 1140 Square Inch, >2" To 3" Rise, Catch Basin Riser	369.12	
33 42 31 00-0216 EA >1140 Square Inch, >2" To 3" Rise, Catch Basin Riser	413.67	
33 42 31 00-0217 EA Up To 860 Square Inch, >3" To 4" Rise, Catch Basin Riser	367.31	
33 42 31 00-0218 EA >860 To 1140 Square Inch, >3" To 4" Rise, Catch Basin Riser	399.52	
33 42 31 00-0219 EA >1140 Square Inch, >3" To 4" Rise, Catch Basin Riser	444.26	
33 42 31 00-0220 Cast In Place, Storm Drain Cleanout (33 42 31 00-0002)		
Note: Inside span.		
33 42 31 00-0221 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	4,524.86	693.64
33 42 31 00-0222 EA 6' Deep, 4' x 5' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	5,156.35	791.58
33 42 31 00-0223 EA 6' Deep, 4' x 6' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	5,852.60	898.37
33 42 31 00-0224 EA 7' Deep, 4' x 7' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	7,036.05	1,077.69
33 42 31 00-0225 EA 8' Deep, 4' x 8' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	8,519.52	1,301.08
33 42 31 00-0226 Precast Concrete Inlet Boxes (33 42 31 00-0002)		
Note: Inside dimensions.		
33 42 31 00-0227 Precast Concrete Inlet Boxes (33 42 31 00-0226)		
33 42 31 00-0228 24" x 24" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
Note: Yard inlet.		
33 42 31 00-0229 24" x 24" ID, Precast Concrete Inlet Boxes (33 42 31 00-0228)		
33 42 31 00-0230 EA 24" Height, 24" x 24" ID, Precast Concrete Inlet Box	650.25	64.97
33 42 31 00-0231 EA 30" Height, 24" x 24" ID, Precast Concrete Inlet Box	764.81	78.90
33 42 31 00-0232 EA 36" Height, 24" x 24" ID, Precast Concrete Inlet Box	879.38	92.82
33 42 31 00-0233 EA 42" Height, 24" x 24" ID, Precast Concrete Inlet Box	995.10	107.32
33 42 31 00-0234 24" x 24" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0228)		
33 42 31 00-0235 EA 6" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	165.62	
33 42 31 00-0236 EA 12" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	266.25	
33 42 31 00-0237 EA 18" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	376.17	
33 42 31 00-0238 EA 24" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	486.10	
33 42 31 00-0239 EA 30" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	596.02	
33 42 31 00-0240 EA 36" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	705.94	
33 42 31 00-0241 22" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0242 22" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0241)		
33 42 31 00-0243 EA 36" Height, 22" x 48" ID, Precast Concrete Inlet Box	1,339.02	181.98
33 42 31 00-0244 EA 42" Height, 22" x 48" ID, Precast Concrete Inlet Box	1,507.03	210.41
33 42 31 00-0245 EA 48" Height, 22" x 48" ID, Precast Concrete Inlet Box	1,675.02	238.84
33 42 31 00-0246 EA 54" Height, 22" x 48" ID, Precast Concrete Inlet Box	1,843.14	267.34
33 42 31 00-0247 EA 60" Height, 22" x 48" ID, Precast Concrete Inlet Box	2,011.28	295.85
33 42 31 00-0248 EA 66" Height, 22" x 48" ID, Precast Concrete Inlet Box	2,179.42	324.35
33 42 31 00-0249 EA 72" Height, 22" x 48" ID, Precast Concrete Inlet Box	2,347.54	352.86
33 42 31 00-0250 22" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0241)		
33 42 31 00-0251 EA 6" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	324.47	
33 42 31 00-0252 EA 12" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	518.99	
33 42 31 00-0253 EA 18" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	565.44	
33 42 31 00-0254 EA 24" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	722.96	
33 42 31 00-0255 EA 30" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	880.51	
33 42 31 00-0256 EA 36" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,030.72	
33 42 31 00-0257 EA 42" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,198.73	
33 42 31 00-0258 EA 48" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,366.72	
33 42 31 00-0259 EA 54" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,534.85	
33 42 31 00-0260 EA 60" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,702.98	
33 42 31 00-0261 EA 66" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,871.12	
33 42 31 00-0262 EA 72" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	2,039.24	
33 42 31 00-0263 30" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0264 30" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0263)		

33	Utilities
33 40	Stormwater Utilities
33 42	Stormwater Conveyance



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0265 EA 36" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,294.23	200.17
33 42 31 00-0266 EA 42" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,462.86	231.45
33 42 31 00-0267 EA 48" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,631.48	262.72
33 42 31 00-0268 EA 54" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,800.26	294.08
33 42 31 00-0269 EA 60" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,969.03	325.43
33 42 31 00-0270 EA 66" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,137.81	356.78
33 42 31 00-0271 EA 72" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,306.59	388.14
33 42 31 00-0272 30" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0263)		
33 42 31 00-0273 EA 6" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	321.97	
33 42 31 00-0274 EA 12" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	509.28	
33 42 31 00-0275 EA 18" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	556.61	
33 42 31 00-0276 EA 24" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	710.90	
33 42 31 00-0277 EA 30" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	865.20	
33 42 31 00-0278 EA 36" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,018.58	
33 42 31 00-0279 EA 42" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,184.70	
33 42 31 00-0280 EA 48" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,349.93	
33 42 31 00-0281 EA 54" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,516.04	
33 42 31 00-0282 EA 60" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,681.26	
33 42 31 00-0283 EA 66" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,847.38	
33 42 31 00-0284 EA 72" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	2,013.51	
33 42 31 00-0285 42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0286 42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0285)		
33 42 31 00-0287 EA 36" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,536.95	218.37
33 42 31 00-0288 EA 42" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,734.90	253.86
33 42 31 00-0289 EA 48" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,932.86	290.25
33 42 31 00-0290 EA 54" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,129.90	325.74
33 42 31 00-0291 EA 60" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,327.87	362.13
33 42 31 00-0292 EA 66" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,525.82	397.62
33 42 31 00-0293 EA 72" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,722.86	433.10
33 42 31 00-0294 42" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0285)		
33 42 31 00-0295 EA 6" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	354.71	
33 42 31 00-0296 EA 12" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	572.93	
33 42 31 00-0297 EA 18" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	621.61	
33 42 31 00-0298 EA 24" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	796.37	
33 42 31 00-0299 EA 30" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	971.12	
33 42 31 00-0300 EA 36" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,145.88	
33 42 31 00-0301 EA 42" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,332.91	
33 42 31 00-0302 EA 48" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,519.95	
33 42 31 00-0303 EA 54" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,706.99	
33 42 31 00-0304 EA 60" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,894.01	
33 42 31 00-0305 EA 66" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	2,081.06	
33 42 31 00-0306 EA 72" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	2,268.10	
33 42 31 00-0307 42" x 48" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0285)		
33 42 31 00-0308 EA 42" x 48" ID, Precast Concrete Inlet Box Top Slab.....	873.39	136.49
33 42 31 00-0309 48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0310 48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0309)		
33 42 31 00-0311 EA 36" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,172.67	242.64
33 42 31 00-0312 EA 42" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,436.27	282.52
33 42 31 00-0313 EA 48" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,699.87	322.40
33 42 31 00-0314 EA 54" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,963.18	362.13
33 42 31 00-0315 EA 60" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,226.50	401.88
33 42 31 00-0316 EA 66" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,489.81	441.61
33 42 31 00-0317 EA 72" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,753.13	481.34
33 42 31 00-0318 48" x 54" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0309)		
33 42 31 00-0319 EA 6" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	356.72	
33 42 31 00-0320 EA 12" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	564.82	
33 42 31 00-0321 EA 18" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	824.48	
33 42 31 00-0322 EA 24" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,084.15	
33 42 31 00-0323 EA 30" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,328.65	
33 42 31 00-0324 EA 36" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,588.32	
33 42 31 00-0325 EA 42" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,851.92	
33 42 31 00-0326 EA 48" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,115.52	
33 42 31 00-0327 EA 54" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,378.83	
33 42 31 00-0328 EA 60" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,642.15	
33 42 31 00-0329 EA 66" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,905.46	
33 42 31 00-0330 EA 72" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	3,168.78	



Utilities	33	
Stormwater Utilities	33 40	33
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0331 48" x 54" ID, Precast Concrete Inlet Box Tops <small>(33 42 31 00-0309)</small>		
33 42 31 00-0332 EA 48" x 54" ID, Precast Concrete Inlet Box Top Slab	949.18	147.85
33 42 31 00-0333 48" x 66" ID, Precast Concrete Inlet Boxes <small>(33 42 31 00-0227)</small>		
33 42 31 00-0334 48" x 66" ID, Precast Concrete Inlet Boxes <small>(33 42 31 00-0333)</small>		
33 42 31 00-0335 EA 36" Height, 48" x 66" ID, Precast Concrete Inlet Box	2,507.75	305.72
33 42 31 00-0336 EA 42" Height, 48" x 66" ID, Precast Concrete Inlet Box	2,798.44	356.80
33 42 31 00-0337 EA 48" Height, 48" x 66" ID, Precast Concrete Inlet Box	3,089.14	407.88
33 42 31 00-0338 EA 54" Height, 48" x 66" ID, Precast Concrete Inlet Box	3,379.26	458.67
33 42 31 00-0339 EA 60" Height, 48" x 66" ID, Precast Concrete Inlet Box	3,669.39	509.48
33 42 31 00-0340 EA 66" Height, 48" x 66" ID, Precast Concrete Inlet Box	3,959.52	560.27
33 42 31 00-0341 EA 72" Height, 48" x 66" ID, Precast Concrete Inlet Box	4,249.65	611.06
33 42 31 00-0342 48" x 66" ID, Precast Concrete Inlet Box Risers <small>(33 42 31 00-0333)</small>		
33 42 31 00-0343 EA 6" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	392.36	
33 42 31 00-0344 EA 12" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	606.36	
33 42 31 00-0345 EA 18" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	896.81	
33 42 31 00-0346 EA 24" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	1,187.24	
33 42 31 00-0347 EA 30" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	1,452.21	
33 42 31 00-0348 EA 36" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	1,742.66	
33 42 31 00-0349 EA 42" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	2,033.35	
33 42 31 00-0350 EA 48" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	2,324.04	
33 42 31 00-0351 EA 54" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	2,614.17	
33 42 31 00-0352 EA 60" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	2,904.29	
33 42 31 00-0353 EA 66" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	3,194.43	
33 42 31 00-0354 EA 72" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	3,484.56	
33 42 31 00-0355 48" x 66" ID, Precast Concrete Inlet Box Tops <small>(33 42 31 00-0333)</small>		
33 42 31 00-0356 EA 48" x 66" ID, Precast Concrete Inlet Box Top Slab	1,055.42	165.60
33 42 31 00-0357 42" x 102" ID, Precast Concrete Inlet Boxes <small>(33 42 31 00-0227)</small>		
33 42 31 00-0358 42" x 102" ID, Precast Concrete Inlet Boxes <small>(33 42 31 00-0357)</small>		
33 42 31 00-0359 EA 36" Height, 42" x 102" ID, Precast Concrete Inlet Box	3,144.27	412.18
33 42 31 00-0360 EA 42" Height, 42" x 102" ID, Precast Concrete Inlet Box	3,512.47	480.42
33 42 31 00-0361 EA 48" Height, 42" x 102" ID, Precast Concrete Inlet Box	3,880.66	547.75
33 42 31 00-0362 EA 54" Height, 42" x 102" ID, Precast Concrete Inlet Box	4,247.95	615.99
33 42 31 00-0363 EA 60" Height, 42" x 102" ID, Precast Concrete Inlet Box	4,616.14	683.33
33 42 31 00-0364 EA 66" Height, 42" x 102" ID, Precast Concrete Inlet Box	4,983.43	750.65
33 42 31 00-0365 EA 72" Height, 42" x 102" ID, Precast Concrete Inlet Box	5,352.53	818.89
33 42 31 00-0366 42" x 102" ID, Precast Concrete Inlet Box Risers <small>(33 42 31 00-0357)</small>		
33 42 31 00-0367 EA 6" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	526.51	
33 42 31 00-0368 EA 12" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	800.08	
33 42 31 00-0369 EA 18" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	1,161.91	
33 42 31 00-0370 EA 24" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	1,523.74	
33 42 31 00-0371 EA 30" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	1,859.17	
33 42 31 00-0372 EA 36" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	2,220.99	
33 42 31 00-0373 EA 42" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	2,589.20	
33 42 31 00-0374 EA 48" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	2,957.39	
33 42 31 00-0375 EA 54" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	3,324.67	
33 42 31 00-0376 EA 60" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	3,692.86	
33 42 31 00-0377 EA 66" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	4,060.15	
33 42 31 00-0378 EA 72" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	4,428.35	
33 42 31 00-0379 42" x 102" ID, Precast Concrete Inlet Box Tops <small>(33 42 31 00-0357)</small>		
33 42 31 00-0380 EA 42" x 102" ID, Precast Concrete Inlet Box Top Slab	1,434.22	181.98
33 42 31 00-0381 Frames And Grates For Inlets <small>(33 42 31 00-0226)</small>		
33 42 31 00-0382 Inlet Frames And Grates <small>(33 42 31 00-0381)</small>		
33 42 31 00-0383 EA 24" x 24", Heavy Duty Inlet Grate	299.29	42.46
Note: For type A, B, D, or E inlets.		
33 42 31 00-0384 EA 47-3/4" x 21-3/4", Bicycle Safe Inlet Grate (US Foundry 6352 GRT)	384.91	42.46
Note: For type A, B, D, or E inlets.		
33 42 31 00-0385 EA 47-3/4" x 21-3/4", Phase II Stormwater Compliant Inlet Grate (US Foundry 6352 GRT)	384.91	42.46
Note: Includes legend: Dump No Waste "Drains To Waterways".		
33 42 31 00-0386 EA Phase II Storm Water Compliant Grate, Echo Grate, Type "B" And "D" Inlet Covers (US Foundry 6352 GRT)	384.91	42.46
Note: Legend: Dump No Waste "Drains to Waterways"		
33 42 31 00-0387 EA Parallel Bar Grates For Type A, B, D And E Inlets (Campbell Foundry 2617-0362)	420.62	42.46
33 42 31 00-0388 EA Type B Inlet Dirt Plate (US Foundry 5217 BK)	326.97	84.91

33 Utilities

33 40 Stormwater Utilities

33 42 Stormwater Conveyance



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0389	EA		Back Plate For Type B Inlets (Campbell Foundry 2548-1942)	376.97	84.91
33 42 31 00-0390	EA		Phase II Echo-Safe Bar For Series 2500/2600 Curb Inlets (Campbell Foundry 25419EC4) Note: Includes cam action clamping system, stainless steel badge labeled to center of plate, steel plate welded to bar with legend: Dump No Waste "Drains to Waterways".	469.43	106.14
33 42 31 00-0391	EA		1-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT)	405.15	106.14
33 42 31 00-0392	EA		2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT)	412.29	106.14
33 42 31 00-0393	EA		2-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT)	426.58	106.14
33 42 31 00-0394	EA		3" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT)	440.86	106.14
33 42 31 00-0395	EA		2" Extension Frame For Type A Inlet (General Foundries 6352 EXT)	426.58	106.14
33 42 31 00-0396	EA		2-1/2" Extension Frame For Type A Inlet (General Foundries 6352 EXT)	440.86	106.14
33 42 31 00-0397	EA		3" Extension Frame For Type A Inlet (General Foundries 6352 EXT)	455.15	106.14
33 42 31 00-0398	EA		2" Extension Frame For Type E Inlet (General Foundries 6352 EXT)	440.86	106.14
33 42 31 00-0399	EA		2-1/2" Extension Frame For Type E Inlet (General Foundries 6352 EXT)	469.43	106.14
33 42 31 00-0400	EA		3" Extension Frame For Type E Inlet (General Foundries 6352 EXT)	498.00	106.14
33 42 31 00-0401	EA		2", 3 Sided Extension Frame For Type A, B, D, And E Inlet (Campbell Foundry 2701)	483.72	106.14
33 42 31 00-0402	EA		6" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N6)	440.86	106.14
33 42 31 00-0403	EA		8" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N8)	440.86	106.14
33 42 31 00-0404	EA		6" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-6)	869.36	106.14
33 42 31 00-0405	EA		8" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-8)	869.36	106.14
33 42 31 00-0406	EA		Safety Bars For Type B And D Inlets (General Foundries 5218 SB)	376.38	116.76
33 42 31 00-0407	EA		6", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 648) Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.	512.09	116.76
33 42 31 00-0408	EA		8", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 848) Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.	512.09	116.76
33 42 31 00-0409	EA		10", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 1048) Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.	562.09	116.76
33 42 31 00-0410	EA		Type B Inlet Frame (US Foundry 5216 FRM)	640.66	116.76
33 42 31 00-0411	EA		Type D Inlet Frame (US Foundry 2999 FRM)	554.95	116.76
33 42 31 00-0412	EA		Type B Inlet Frame (Campbell Foundry 2618-0202)	776.38	116.76
33 42 31 00-0413	EA		Type D Inlet Frame (Campbell Foundry 2617-0002)	690.66	116.76
33 42 31 00-0414	EA		Type A Inlet, Single Frame And Grate (US Foundry 52340)	896.80	169.83
33 42 31 00-0415	EA		Type E Inlet, Single Frame And Grate (US Foundry 52342)	1,411.09	169.83
33 42 31 00-0416	EA		Type A Inlet, Single Frame And Grate (General Foundries 52340)	875.37	169.83
33 42 31 00-0417	EA		Type E Inlet, Double Frame And Grate (General Foundries 52342)	1,343.94	169.83
33 42 31 00-0418	EA		Oversized Type A Inlet, Single Frame And Reticuline Grate (US Foundry 82340)	1,459.48	254.74
33 42 31 00-0419	EA		Heavy Duty Rectangular Frame And Grate (Campbell Foundry 3084)	1,519.75	339.66
33 42 31 00-0420	EA		6" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52186)	1,657.88	339.66
33 42 31 00-0421	EA		8" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52198)	1,657.88	339.66
33 42 31 00-0422	EA		6" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72266)	1,479.31	339.66
33 42 31 00-0423	EA		8" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72268)	1,479.31	339.66
33 42 31 00-0424	EA		Type B And C Inlet Frame And Grate With Type N Curb And Back Plate (Campbell Foundry GFI 52198)	1,715.02	339.66
33 42 31 00-0425			Concrete Drainage Inlet Structures (CALTRANS) (33 42 31 00-0001)		
33 42 31 00-0426			Type OS Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0427	EA		3' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	2,819.73	
33 42 31 00-0428	EA		4' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	3,279.30	
33 42 31 00-0429	EA		5' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	3,707.33	
33 42 31 00-0430	EA		6' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	4,103.80	
33 42 31 00-0431	EA		7' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	4,468.71	
33 42 31 00-0432	EA		8' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	4,802.06	
33 42 31 00-0433	EA		8' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	6,534.24	
33 42 31 00-0434	EA		10' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	7,622.00	
33 42 31 00-0435	EA		12' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	8,628.06	
33 42 31 00-0436	EA		14' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	9,554.25	
33 42 31 00-0437	EA		16' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	10,451.77	
33 42 31 00-0438	EA		18' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	11,280.40	
33 42 31 00-0439	EA		20' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	12,040.13	
33 42 31 00-0440			Type OL-7 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0441	EA		3' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,839.62	
33 42 31 00-0442	EA		4' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,270.34	
33 42 31 00-0443	EA		5' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,669.51	
33 42 31 00-0444	EA		6' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,037.11	
33 42 31 00-0445	EA		7' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,372.24	
33 42 31 00-0446	EA		8' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,676.72	
33 42 31 00-0447	EA		8' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,357.44	
33 42 31 00-0448	EA		10' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,420.28	
33 42 31 00-0449	EA		12' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,401.41	
33 42 31 00-0450	EA		14' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,301.75	
33 42 31 00-0451	EA		16' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,178.03	
33 42 31 00-0452	EA		18' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,985.42	
33 42 31 00-0453	EA		20' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,723.90	
33 42 31 00-0454			Type OL-10 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0455	EA		3' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,779.53	
33 42 31 00-0456	EA		4' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,183.85	
33 42 31 00-0457	EA		5' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,555.69	



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Stormwater Utilities	33 40
Stormwater Conveyance	33 42

MINOR	CS	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
			33 42 31 00-0458 EA 6' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,896.90	
			33 42 31 00-0459 EA 7' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,205.61	
			33 42 31 00-0460 EA 8' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,482.79	
			33 42 31 00-0461 EA 8' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,180.66	
			33 42 31 00-0462 EA 10' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,217.64	
			33 42 31 00-0463 EA 12' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,174.76	
			33 42 31 00-0464 EA 14' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,050.18	
			33 42 31 00-0465 EA 16' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,904.30	
			33 42 31 00-0466 EA 18' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,690.44	
			33 42 31 00-0467 EA 20' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,406.76	
33 42 31 00-0468			Type OL-14 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
			33 42 31 00-0469 EA 3' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,119.40	
			33 42 31 00-0470 EA 4' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,485.00	
			33 42 31 00-0471 EA 5' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,819.05	
			33 42 31 00-0472 EA 6' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,121.55	
			33 42 31 00-0473 EA 7' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,392.47	
			33 42 31 00-0474 EA 8' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,631.85	
			33 42 31 00-0475 EA 8' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,346.87	
			33 42 31 00-0476 EA 10' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,348.46	
			33 42 31 00-0477 EA 12' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,269.28	
			33 42 31 00-0478 EA 14' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,109.31	
			33 42 31 00-0479 EA 16' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,934.18	
			33 42 31 00-0480 EA 18' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,689.23	
			33 42 31 00-0481 EA 20' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,375.39	
33 42 31 00-0482			Type OL-21 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
			33 42 31 00-0483 EA 3' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,839.14	
			33 42 31 00-0484 EA 4' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	9,127.47	
			33 42 31 00-0485 EA 5' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	9,384.24	
			33 42 31 00-0486 EA 6' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	9,609.45	
			33 42 31 00-0487 EA 7' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	9,802.18	
			33 42 31 00-0488 EA 8' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	9,964.28	
			33 42 31 00-0489 EA 8' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,627.86	
			33 42 31 00-0490 EA 10' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,559.82	
			33 42 31 00-0491 EA 12' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,411.00	
			33 42 31 00-0492 EA 14' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,181.41	
			33 42 31 00-0493 EA 16' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,946.87	
			33 42 31 00-0494 EA 18' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,642.50	
			33 42 31 00-0495 EA 20' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,269.24	
33 42 31 00-0496			Type GOL-7 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
			33 42 31 00-0497 EA 3' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,659.54	
			33 42 31 00-0498 EA 4' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,135.28	
			33 42 31 00-0499 EA 5' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,574.91	
			33 42 31 00-0500 EA 6' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,978.46	
			33 42 31 00-0501 EA 7' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,346.82	
			33 42 31 00-0502 EA 8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,680.01	
			33 42 31 00-0503 EA 8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,550.51	
			33 42 31 00-0504 EA 10' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,690.46	
			33 42 31 00-0505 EA 12' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,783.62	
			33 42 31 00-0506 EA 14' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,785.08	
			33 42 31 00-0507 EA 16' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,761.43	
			33 42 31 00-0508 EA 18' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,660.32	
			33 42 31 00-0509 EA 20' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,480.83	
33 42 31 00-0510			Type GOL-10 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
			33 42 31 00-0511 EA 3' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,679.44	
			33 42 31 00-0512 EA 4' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,125.38	
			33 42 31 00-0513 EA 5' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,536.17	
			33 42 31 00-0514 EA 6' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,911.76	
			33 42 31 00-0515 EA 7' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,251.27	
			33 42 31 00-0516 EA 8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,554.68	
			33 42 31 00-0517 EA 8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,381.16	
			33 42 31 00-0518 EA 10' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,538.11	
			33 42 31 00-0519 EA 12' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,604.27	
			33 42 31 00-0520 EA 14' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,579.65	
			33 42 31 00-0521 EA 16' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,532.91	
			33 42 31 00-0522 EA 18' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,408.71	
			33 42 31 00-0523 EA 20' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,207.05	
33 42 31 00-0524			Type G-1 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
			33 42 31 00-0525 EA 3' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,899.82	
			33 42 31 00-0526 EA 4' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,273.50	
			33 42 31 00-0527 EA 5' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,621.02	

33 Utilities

33 40 Stormwater Utilities

33 42 Stormwater Conveyance



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 42 31 00-0528	EA	6' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,944.22	
	33 42 31 00-0529	EA	7' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,243.09	
	33 42 31 00-0530	EA	8' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,515.80	
33 42 31 00-0531	Type G-2 Concrete Drainage Inlet Structure <small>(33 42 31 00-0425)</small>				
	33 42 31 00-0532	EA	3' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,619.75	
	33 42 31 00-0533	EA	4' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,040.37	
	33 42 31 00-0534	EA	5' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,432.14	
	33 42 31 00-0535	EA	6' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,795.04	
	33 42 31 00-0536	EA	7' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,129.07	
	33 42 31 00-0537	EA	8' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,433.33	
	33 42 31 00-0538	EA	8' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,002.59	
	33 42 31 00-0539	EA	10' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,006.29	
	33 42 31 00-0540	EA	12' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,935.67	
	33 42 31 00-0541	EA	14' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,790.75	
	33 42 31 00-0542	EA	16' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,619.38	
	33 42 31 00-0543	EA	18' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,384.65	
	33 42 31 00-0544	EA	20' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,085.66	
33 42 31 00-0545	Type G-3 Concrete Drainage Inlet Structure <small>(33 42 31 00-0425)</small>				
	33 42 31 00-0546	EA	3' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,059.81	
	33 42 31 00-0547	EA	4' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,428.56	
	33 42 31 00-0548	EA	5' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,772.08	
	33 42 31 00-0549	EA	6' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,091.28	
	33 42 31 00-0550	EA	7' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,384.29	
	33 42 31 00-0551	EA	8' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,652.99	
33 42 31 00-0552	Type G-4_24 Concrete Drainage Inlet Structure <small>(33 42 31 00-0425)</small>				
	33 42 31 00-0553	EA	3' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,539.75	
	33 42 31 00-0554	EA	4' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,962.85	
	33 42 31 00-0555	EA	5' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,357.07	
	33 42 31 00-0556	EA	6' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,721.51	
	33 42 31 00-0557	EA	7' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,058.02	
	33 42 31 00-0558	EA	8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,364.73	
	33 42 31 00-0559	EA	8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,968.27	
	33 42 31 00-0560	EA	10' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,973.68	
	33 42 31 00-0561	EA	12' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,903.83	
	33 42 31 00-0562	EA	14' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,759.68	
	33 42 31 00-0563	EA	16' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,588.92	
	33 42 31 00-0564	EA	18' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,354.82	
	33 42 31 00-0565	EA	20' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,057.36	
33 42 31 00-0566	Type G-4_18 Concrete Drainage Inlet Structure <small>(33 42 31 00-0425)</small>				
	33 42 31 00-0567	EA	3' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,619.75	
	33 42 31 00-0568	EA	4' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,040.37	
	33 42 31 00-0569	EA	5' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,432.14	
	33 42 31 00-0570	EA	6' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,795.04	
	33 42 31 00-0571	EA	7' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,129.07	
	33 42 31 00-0572	EA	8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,433.33	
	33 42 31 00-0573	EA	8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,002.59	
	33 42 31 00-0574	EA	10' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,006.29	
	33 42 31 00-0575	EA	12' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,935.67	
	33 42 31 00-0576	EA	14' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,790.75	
	33 42 31 00-0577	EA	16' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,619.38	
	33 42 31 00-0578	EA	18' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,384.65	
	33 42 31 00-0579	EA	20' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,085.66	
33 42 31 00-0580	Type G-5 Concrete Drainage Inlet Structure <small>(33 42 31 00-0425)</small>				
	33 42 31 00-0581	EA	3' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,039.80	
	33 42 31 00-0582	EA	4' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,408.95	
	33 42 31 00-0583	EA	5' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,753.78	
	33 42 31 00-0584	EA	6' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,072.43	
	33 42 31 00-0585	EA	7' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,366.76	
	33 42 31 00-0586	EA	8' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,635.84	
33 42 31 00-0587	Type G-6 Concrete Drainage Inlet Structure <small>(33 42 31 00-0425)</small>				
	33 42 31 00-0588	EA	3' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,079.79	
	33 42 31 00-0589	EA	4' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,448.18	
	33 42 31 00-0590	EA	5' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,791.30	
	33 42 31 00-0591	EA	6' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,109.19	
	33 42 31 00-0592	EA	7' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,401.82	
	33 42 31 00-0593	EA	8' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,670.16	



Utilities	33	CS
Stormwater Utilities	33 40	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0594 Type GT1 Concrete Drainage Inlet Structure <small>(33 42 31 00-0425)</small>		
33 42 31 00-0595 EA 3' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,479.66	
33 42 31 00-0596 EA 4' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,056.45	
33 42 31 00-0597 EA 5' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,635.90	
33 42 31 00-0598 EA 6' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,091.79	
33 42 31 00-0599 EA 7' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,549.43	
33 42 31 00-0600 EA 8' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,968.27	
33 42 31 00-0601 Type GT2 Concrete Drainage Inlet Structure <small>(33 42 31 00-0425)</small>		
33 42 31 00-0602 EA 3' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,219.59	
33 42 31 00-0603 EA 4' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,847.78	
33 42 31 00-0604 EA 5' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,431.55	
33 42 31 00-0605 EA 6' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,971.84	
33 42 31 00-0606 EA 7' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,467.72	
33 42 31 00-0607 EA 8' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,920.12	
33 42 31 00-0608 EA 8' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,261.12	
33 42 31 00-0609 EA 10' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,740.99	
33 42 31 00-0610 EA 12' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,109.77	
33 42 31 00-0611 EA 14' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,368.38	
33 42 31 00-0612 EA 16' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,589.91	
33 42 31 00-0613 EA 18' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,716.64	
33 42 31 00-0614 EA 20' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,748.55	
33 42 31 00-0615 Type GT3 Concrete Drainage Inlet Structure <small>(33 42 31 00-0425)</small>		
33 42 31 00-0616 EA 3' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,459.66	
33 42 31 00-0617 EA 4' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,036.83	
33 42 31 00-0618 EA 5' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,575.21	
33 42 31 00-0619 EA 6' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,073.88	
33 42 31 00-0620 EA 7' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,531.90	
33 42 31 00-0621 EA 8' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,951.12	
33 42 31 00-0622 Type GT4 Concrete Drainage Inlet Structure <small>(33 42 31 00-0425)</small>		
33 42 31 00-0623 EA 3' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,359.58	
33 42 31 00-0624 EA 4' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,983.22	
33 42 31 00-0625 EA 5' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,563.38	
33 42 31 00-0626 EA 6' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,099.13	
33 42 31 00-0627 EA 7' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,591.39	
33 42 31 00-0628 EA 8' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,040.16	
33 42 31 00-0629 EA 8' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,278.27	
33 42 31 00-0630 EA 10' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,757.75	
33 42 31 00-0631 EA 12' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,126.15	
33 42 31 00-0632 EA 14' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,383.46	
33 42 31 00-0633 EA 16' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,604.68	
33 42 31 00-0634 EA 18' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,731.09	
33 42 31 00-0635 EA 20' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,762.69	
33 42 31 00-0636 Type GO Concrete Drainage Inlet Structure <small>(33 42 31 00-0425)</small>		
33 42 31 00-0637 EA 3' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,479.76	
33 42 31 00-0638 EA 4' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,885.31	
33 42 31 00-0639 EA 5' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,262.78	
33 42 31 00-0640 EA 6' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,612.14	
33 42 31 00-0641 EA 7' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,933.43	
33 42 31 00-0642 EA 8' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,227.52	
33 42 31 00-0643 EA 8' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	5,813.92	
33 42 31 00-0644 EA 10' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	6,787.57	
33 42 31 00-0645 EA 12' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	7,687.66	
33 42 31 00-0646 EA 14' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,516.03	
33 42 31 00-0647 EA 16' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	9,320.01	
33 42 31 00-0648 EA 18' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	10,061.05	
33 42 31 00-0649 EA 20' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	10,741.02	
33 42 31 00-0650 Type GDO Concrete Drainage Inlet Structure <small>(33 42 31 00-0425)</small>		
33 42 31 00-0651 EA 3' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,239.68	
33 42 31 00-0652 EA 4' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,772.87	
33 42 31 00-0653 EA 5' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,269.24	
33 42 31 00-0654 EA 6' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,729.78	
33 42 31 00-0655 EA 7' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	5,152.58	
33 42 31 00-0656 EA 8' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	5,539.52	
33 42 31 00-0657 EA 8' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	7,477.50	
33 42 31 00-0658 EA 10' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,732.52	
33 42 31 00-0659 EA 12' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	9,893.98	
33 42 31 00-0660 EA 14' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	10,962.83	
33 42 31 00-0661 EA 16' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	11,998.98	
33 42 31 00-0662 EA 18' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	12,955.30	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0663 EA 20' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	13,831.74	
33 42 31 00-0664 Catch Basin Frames And Covers (33 42 31 00-0001)		
33 42 31 00-0665 Cast Iron Frames And Covers (33 42 31 00-0664)		
33 42 31 00-0666 EA 18" Diameter Cast Iron Catch Basin Frame And Cover	397.31	92.82
33 42 31 00-0667 EA 22" Diameter Cast Iron Catch Basin Frame And Cover	489.65	104.89
33 42 31 00-0668 EA 24" Diameter Cast Iron Catch Basin Frame And Cover	543.22	108.60
33 42 31 00-0669 EA 26" Diameter Cast Iron Catch Basin Frame And Cover	607.81	126.24
33 42 31 00-0670 EA 28" Diameter Cast Iron Catch Basin Frame And Cover	698.15	143.87
33 42 31 00-0671 EA 32" Diameter Cast Iron Catch Basin Frame And Cover	1,060.75	150.36
33 42 31 00-0672 EA 16" x 16" Cast Iron Catch Basin Frame And Cover	594.98	114.17
33 42 31 00-0673 EA 18" x 24" Cast Iron Catch Basin Frame And Cover	759.27	131.80
33 42 31 00-0674 EA 20" x 27" Cast Iron Catch Basin Frame And Cover	847.84	137.37
33 42 31 00-0675 EA 23" x 23" Cast Iron Catch Basin Frame And Cover	808.18	137.37
33 42 31 00-0676 EA 24" x 24" Cast Iron Catch Basin Frame And Cover	836.35	142.94
33 42 31 00-0677 EA 26" x 26" Cast Iron Catch Basin Frame And Cover	893.59	148.50
33 42 31 00-0678 EA 24" x 36" Cast Iron Catch Basin Frame And Cover	1,056.81	159.65
33 42 31 00-0679 Area Yard Drain (33 42 31 00-0001)		
33 42 31 00-0680 Ductile Iron Grates (33 42 31 00-0679)		
Note: Not for traffic loading.		
33 42 31 00-0681 EA 8" Diameter Ductile Iron Grate Adapter Necks Down To 4" and 6" Diameter Pipe	151.28	32.93
33 42 31 00-0682 EA 10" Diameter Ductile Iron Grate Adapters To 4", 6", or 8" Diameter Pipe	187.12	35.13
33 42 31 00-0683 EA 12" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe	447.32	43.91
33 42 31 00-0684 EA 15" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe	534.43	52.69
33 42 33 Stormwater Curbside Drains and Inlets (33 42)		
33 42 33 00-0001 Curb Inlet Frames And Covers (33 42 33)		
33 42 33 00-0002 Cast Iron Curb Inlet Frames And Covers (33 42 33 00-0001)		
33 42 33 00-0003 EA 20" x 22" Cast Iron Curb Inlet Frame And Cover	725.08	108.60
33 42 33 00-0004 EA 22" x 24" Cast Iron Curb Inlet Frame And Cover	777.81	126.24
33 42 33 00-0005 EA 24" x 24" Cast Iron Curb Inlet Frame And Cover	803.79	126.24
33 42 33 00-0006 EA 27" x 27" Cast Iron Curb Inlet Frame And Cover	880.83	148.50
33 42 33 00-0007 EA 36" x 24" Cast Iron Curb Inlet Frame And Cover	878.20	158.72
33 42 36 Stormwater Trench Drains (33 42)		
33 42 36 00-0001 Modular Trench Drains (33 42 36)		
See CSI section 03 31 13 00-0011 for concrete.		
33 42 36 00-0002 Modular Trench Drains (33 42 36 00-0001)		
Note: Excludes grates. See CSI section 33 42 36 00-0118 for grates.		
33 42 36 00-0003 4" Wide, Modular Trench Drains (33 42 36 00-0002)		
33 42 36 00-0004 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0003)		
33 42 36 00-0005 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0004)		
33 42 36 00-0006 LF 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain (Zurn Z844-C)	52.84	14.85
For Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	54.20	
For Galvanized Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	108.40	
For Stainless Steel Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	173.43	
For Type 304 Stainless Steel Top Veneer Frame, Add	43.36	
For Aluminum Veneer Bronze Anodized Frame, Add	21.68	
33 42 36 00-0007 Outlet Adapters For 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0004)		
33 42 36 00-0008 EA Closed End Cap For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain	39.35	
33 42 36 00-0009 EA No-Hub End Outlet For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain	48.63	
33 42 36 00-0010 EA No-Hub Bottom Outlet For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain	48.63	
33 42 36 00-0011 6" Wide, Modular Trench Drains (33 42 36 00-0002)		
33 42 36 00-0012 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0011)		
33 42 36 00-0013 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0012)		
33 42 36 00-0014 LF 6" Wide, High Density Polyethylene, Modular Trench Drain	122.77	14.85
For Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	54.20	
For Galvanized Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	108.40	
For Stainless Steel Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	173.43	
For Type 304 Stainless Steel Top Veneer Frame, Add	43.36	
For Aluminum Veneer Bronze Anodized Frame, Add	21.68	



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	Stormwater Utilities	33 40	CS
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MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0015	Outlet Adapters For 6" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0012)</small>		
33 42 36 00-0016	EA Closed End Cap For 6" Wide, High Density Polyethylene, Modular Trench Drains	57.59	
33 42 36 00-0017	EA No-Hub End Outlet For 6" Wide, High Density Polyethylene, Modular Trench Drains	66.87	
33 42 36 00-0018	EA No-Hub Bottom Outlet For 6" Wide, High Density Polyethylene, Modular Trench Drains	66.87	
33 42 36 00-0019	Other Fittings For 6" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0012)</small>		
33 42 36 00-0020	EA Bottom Dome Strainer For 6" Wide, High Density Polyethylene, Modular Trench Drains	102.80	
33 42 36 00-0021	EA Joint Connector For 6" Wide, High Density Polyethylene, Modular Trench Drains	102.80	
33 42 36 00-0022	EA 90 Degree, 45 Degree, Tee Or Side Outlet Charge For 6" Wide, High Density Polyethylene, Modular Trench Drains	479.99	
33 42 36 00-0023	EA Cross For 6" Wide, High Density Polyethylene, Modular Trench Drains	913.57	
33 42 36 00-0024	EA Cutting Charge For 6" Wide, High Density Polyethylene, Modular Trench Drains	108.40	
33 42 36 00-0025	6" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0011)</small>		
33 42 36 00-0026	6" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0025)</small>		
33 42 36 00-0027	LF 6" Wide, Fiber Reinforced Polyester, Modular Trench Drain	173.71	14.85
	<i>For Black Acid Resistant Coated Frame, Add</i>	41.19	
	<i>For Galvanized Top Frame Assembly, Add</i>	41.19	
	<i>For Type 304 Stainless Steel Top Frame Assembly, Add</i>	151.75	
33 42 36 00-0028	Outlet Adapters For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0025)</small>		
33 42 36 00-0029	EA Closed End Cap For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	61.93	
33 42 36 00-0030	EA No-Hub End Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	71.21	
33 42 36 00-0031	EA No-Hub Bottom Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	71.21	
33 42 36 00-0032	Other Fittings For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0025)</small>		
33 42 36 00-0033	EA Bottom Dome Strainer For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	102.80	
33 42 36 00-0034	EA Joint Connector For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	102.80	
33 42 36 00-0035	EA 90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	479.99	
33 42 36 00-0036	EA Cross For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	913.57	
33 42 36 00-0037	EA Cutting Charge For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	108.40	
33 42 36 00-0038	6" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0011)</small>		
33 42 36 00-0039	6" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0038)</small>		
33 42 36 00-0040	LF 6" Wide, Vinylester Fiberglass, Modular Trench Drain	221.41	14.85
	<i>For Black Acid Resistant Coated Frame, Add</i>	41.19	
	<i>For Galvanized Top Frame Assembly, Add</i>	41.19	
	<i>For Type 304 Stainless Steel Top Frame Assembly, Add</i>	151.75	
33 42 36 00-0041	Outlet Adapters For 6" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0038)</small>		
33 42 36 00-0042	EA Closed End Cap For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	96.61	
33 42 36 00-0043	EA No-Hub End Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	105.89	
33 42 36 00-0044	EA No-Hub Bottom Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	105.89	
33 42 36 00-0045	Other Fittings For 6" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0038)</small>		
33 42 36 00-0046	EA Bottom Dome Strainer For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	102.80	
33 42 36 00-0047	EA Joint Connector For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	102.80	
33 42 36 00-0048	EA 90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	479.99	
33 42 36 00-0049	EA Cross For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	913.57	
33 42 36 00-0050	EA Cutting Charge For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	108.40	
33 42 36 00-0051	6" Wide, Polymer Concrete, Modular Trench Drains <small>(33 42 36 00-0011)</small>		
33 42 36 00-0052	6" Wide, Polymer Concrete, Modular Trench Drains <small>(33 42 36 00-0051)</small>		
33 42 36 00-0053	LF 6" Wide, Polymer Concrete, Modular Trench Drain	335.76	
33 42 36 00-0054	Outlet Adapters For 6" Wide, Polymer Concrete, Modular Trench Drains <small>(33 42 36 00-0051)</small>		
33 42 36 00-0055	EA Closed End Cap For 6" Wide, Polymer Concrete, Modular Trench Drain	134.19	
33 42 36 00-0056	EA No-Hub End Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain	164.34	
33 42 36 00-0057	EA No-Hub Bottom Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain	55.15	

33	33 Utilities
	33 40 Stormwater Utilities
	33 42 Stormwater Conveyance



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0058 12" Wide, Modular Trench Drains <small>(33 42 36 00-0002)</small>		
33 42 36 00-0059 12" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0058)</small>		
33 42 36 00-0060 12" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0059)</small>		
33 42 36 00-0061 LF 12" Wide, High Density Polyethylene, Modular Trench Drain <i>For Acid Resistant Coated Top Frame, Add</i> <i>For Galvanized Welded Frame Assembly, Add</i> <i>For Type 304 Stainless Steel Top Frame, Add</i>	225.11 56.37 59.08 338.19	20.42
33 42 36 00-0062 Outlet Adapters For 12" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0059)</small>		
33 42 36 00-0063 EA End Cap For 12" Wide, High Density Polyethylene, Modular Trench Drains	113.63	
33 42 36 00-0064 EA No-Hub End Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains	126.01	
33 42 36 00-0065 EA No-Hub Bottom Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains	126.01	
33 42 36 00-0066 Other Fittings For 12" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0059)</small>		
33 42 36 00-0067 EA Bottom Dome Strainer For 12" Wide, High Density Polyethylene, Modular Trench Drains	181.63	
33 42 36 00-0068 EA Joint Connector For 12" Wide, High Density Polyethylene, Modular Trench Drains	235.83	
33 42 36 00-0069 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains	938.56	
33 42 36 00-0070 EA Cross For 12" Wide, High Density Polyethylene, Modular Trench Drains	1,805.72	
33 42 36 00-0071 EA Cutting Charges For 12" Wide, High Density Polyethylene, Modular Trench Drains	216.79	
33 42 36 00-0072 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0058)</small>		
33 42 36 00-0073 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0072)</small>		
33 42 36 00-0074 LF 12" Wide, Fiber Reinforced Polyester, Modular Trench Drain <i>For Acid Resistant Coated Top Frame, Add</i> <i>For Galvanized Welded Frame Assembly, Add</i> <i>For Type 304 Stainless Steel Top Frame, Add</i>	279.31 56.37 59.08 338.19	20.42
33 42 36 00-0075 Outlet Adapters For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0072)</small>		
33 42 36 00-0076 EA End Cap For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	117.97	
33 42 36 00-0077 EA No-Hub End Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	130.35	
33 42 36 00-0078 EA No-Hub Bottom Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	130.35	
33 42 36 00-0079 Other Fittings For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0072)</small>		
33 42 36 00-0080 EA Bottom Dome Strainer For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	181.63	
33 42 36 00-0081 EA Joint Connector For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	235.83	
33 42 36 00-0082 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	938.56	
33 42 36 00-0083 EA Cross For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	1,805.72	
33 42 36 00-0084 EA Cutting Charges For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	216.79	
33 42 36 00-0085 12" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0058)</small>		
33 42 36 00-0086 12" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0085)</small>		
33 42 36 00-0087 LF 12" Wide, Vinylester Fiberglass, Modular Trench Drain <i>For Acid Resistant Coated Top Frame, Add</i> <i>For Galvanized Welded Frame Assembly, Add</i> <i>For Type 304 Stainless Steel Top Frame, Add</i>	387.70 56.37 59.08 338.19	20.42
33 42 36 00-0088 Outlet Adapters For 12" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0085)</small>		
33 42 36 00-0089 EA End Cap For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	280.56	
33 42 36 00-0090 EA No-Hub End Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	292.94	
33 42 36 00-0091 EA No-Hub Bottom Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	292.94	
33 42 36 00-0092 Other Fittings For 12" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0085)</small>		
33 42 36 00-0093 EA Bottom Dome Strainer For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	181.63	
33 42 36 00-0094 EA Joint Connector For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	235.83	
33 42 36 00-0095 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	938.56	
33 42 36 00-0096 EA Cross For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	1,805.72	
33 42 36 00-0097 EA Cutting Charges For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	216.79	
33 42 36 00-0098 12" Wide, Polymer Concrete, Modular Trench Drains <small>(33 42 36 00-0058)</small>		
33 42 36 00-0099 12" Wide, Polymer Concrete, Modular Trench Drains <small>(33 42 36 00-0098)</small>		



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0100 LF 12" Wide, Polymer Concrete, Modular Trench Drain	450.31	
33 42 36 00-0101 Outlet Adapters For 12" Wide, Polymer Concrete, Modular Trench Drains ⁽³³⁾		
^{42 36 00-0098}		
33 42 36 00-0102 EA Closed End Cap For 12" Wide, Polymer Concrete, Modular Trench Drain	227.12	
33 42 36 00-0103 EA No-Hub End Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain	390.43	
33 42 36 00-0104 EA No-Hub Bottom Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain	94.87	
33 42 36 00-0105 23" Wide, Modular Trench Drains ^(33 42 36 00-0002)		
33 42 36 00-0106 23" Wide, High Density Polyethylene, Modular Trench Drains ^(33 42 36 00-0105)		
33 42 36 00-0107 23" Wide, High Density Polyethylene, Modular Trench Drains ^(33 42 36 00-0106)		
33 42 36 00-0108 LF 23" Wide, High Density Polyethylene, Modular Trench Drain	314.60	27.85
<i>For Acid Resistant Coated Frame, Add</i>	84.55	
<i>For Galvanized Frame Assembly, Add</i>	84.55	
<i>For Type 304 Stainless Steel Top Frame, Add</i>	520.30	
33 42 36 00-0109 Outlet Adapters For 23" Wide, High Density Polyethylene, Modular Trench Drains ^(33 42 36 00-0106)		
33 42 36 00-0110 EA End Cap For 23" Wide, High Density Polyethylene, Modular Trench Drains	345.18	
33 42 36 00-0111 EA No-Hub End Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains	516.09	
33 42 36 00-0112 EA No-Hub Bottom Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains	516.09	
33 42 36 00-0113 Other Fittings For 23" Wide, High Density Polyethylene, Modular Trench Drains ^(33 42 36 00-0106)		
33 42 36 00-0114 EA Bottom Dome Strainer For 23" Wide, High Density Polyethylene, Modular Trench Drains	407.23	
33 42 36 00-0115 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains	1,850.33	
33 42 36 00-0116 EA Cross For 23" Wide, High Density Polyethylene, Modular Trench Drains	3,584.65	
33 42 36 00-0117 EA Cutting Charges For 23" Wide, High Density Polyethylene, Modular Trench Drains	433.58	
33 42 36 00-0118 Modular Trench Drain Grates ^(33 42 36 00-0001)		
33 42 36 00-0119 4" Wide, Modular Trench Drain Grates ^(33 42 36 00-0118)		
33 42 36 00-0120 LF 4" Wide, Polypropylene, Silver Heel Proof, Modular Trench Drain Grate (Zurn Z884-P4-HPP)	31.13	2.79
33 42 36 00-0121 LF 4" Wide, Class C Cast Iron, Modular Trench Drain Grate (Zurn Z884-P4-CG)	32.69	2.79
33 42 36 00-0122 LF 4" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FG)	26.46	2.79
33 42 36 00-0123 LF 4" Wide, Stainless Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FS)	69.32	2.79
33 42 36 00-0124 LF 4" Wide, Galvanized Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FG)	26.46	2.79
33 42 36 00-0125 LF 4" Wide, Stainless Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FS)	69.32	2.79
33 42 36 00-0126 6" Wide, Modular Trench Drain Grates ^(33 42 36 00-0118)		
33 42 36 00-0127 LF 6" Wide, Galvanized Ductile Iron Cast Bar, Modular Trench Drain Grate	108.70	2.79
33 42 36 00-0128 LF 6" Wide, Ductile Iron Cast Bar, Modular Trench Drain Grate	92.33	2.79
33 42 36 00-0129 LF 6" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	96.88	2.79
33 42 36 00-0130 LF 6" Wide, Ductile Iron Slotted, Modular Trench Drain Grate	84.85	2.79
33 42 36 00-0131 LF 6" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate	91.36	2.79
33 42 36 00-0132 LF 6" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate	92.44	2.79
33 42 36 00-0133 LF 6" Wide, Ductile Iron Longitudinal Slotted, Modular Trench Drain Grate	92.44	2.79
33 42 36 00-0134 LF 6" Wide, Galvanized Cast Iron Slotted, Modular Trench Drain Grate	91.36	2.79
33 42 36 00-0135 LF 6" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate	80.52	2.79
33 42 36 00-0136 LF 6" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate	80.52	2.79
33 42 36 00-0137 LF 6" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate	85.50	2.79
33 42 36 00-0138 LF 6" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate	85.50	2.79
33 42 36 00-0139 LF 6" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate	110.87	2.79
33 42 36 00-0140 LF 6" Wide, Perforated Stainless Steel, Modular Trench Drain Grate	110.87	2.79
33 42 36 00-0141 LF 6" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate	201.92	2.79
33 42 36 00-0142 LF 6" Wide, Reinforced Perforated Stainless Steel, Modular Trench Drain Grate	201.92	2.79
33 42 36 00-0143 LF 6" Wide, Stainless Steel Bar, Modular Trench Drain Grate	559.62	2.79
33 42 36 00-0144 LF 6" Wide, Heel Proof Polyethylene, Modular Trench Drain Grate	76.18	2.79
33 42 36 00-0145 LF 6" Wide, Fiberglass, Modular Trench Drain Grate	162.90	2.79
33 42 36 00-0146 12" Wide, Modular Trench Drain Grates ^(33 42 36 00-0118)		
33 42 36 00-0147 LF 12" Wide, Black Acid Resistant Coated Ductile Iron, Modular Trench Drain Grate	297.78	3.01
33 42 36 00-0148 LF 12" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	284.77	3.01
33 42 36 00-0149 LF 12" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate	247.91	3.01
33 42 36 00-0150 LF 12" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate	260.38	3.01
33 42 36 00-0151 LF 12" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate	225.15	3.01
33 42 36 00-0152 LF 12" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate	439.23	3.01
33 42 36 00-0153 LF 12" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate	439.23	3.01
33 42 36 00-0154 LF 12" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate	560.09	3.01
33 42 36 00-0155 LF 12" Wide, Perforated Stainless Steel, Modular Trench Drain Grate	560.09	3.01
33 42 36 00-0156 LF 12" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate	714.56	3.01
33 42 36 00-0157 LF 12" Wide, Reinforced Perforated Stainless Steel Slotted, Modular Trench Drain Grate	714.56	3.01

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0158 LF 12" Wide, Stainless Steel Cast Bar, Modular Trench Drain Grate.....	678.24	3.01
33 42 36 00-0159 LF 12" Wide, Fiberglass, Modular Trench Drain Grate.....	321.08	3.01
33 42 36 00-0160 23" Wide, Modular Trench Drain Grates (33 42 36 00-0118)		
33 42 36 00-0161 LF 23" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate.....	469.50	3.25
33 42 36 00-0162 LF 23" Wide, Ductile Iron Slotted, Modular Trench Drain Grate.....	395.79	3.25
33 42 36 00-0163 LF 23" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate.....	612.58	3.25
33 42 36 00-0164 LF 23" Wide, Heel Proof Longitudinal Ductile Iron, Modular Trench Drain Grate.....	454.33	3.25
33 44 Storm Utility Water Drains (33 40)		
33 44 36 Oil and Stormwater Separators (33 44)		
33 44 36 00-0001 Oil/Water Separator (33 44 36)		
Note: Complete with internal sensors and detectors.		
33 44 36 00-0002 Coalescing Oil Water Separator (33 44 36 00-0001)		
Note: Underground tank with interior polyurethane coating. Includes manways, coalescer, inlet and outlet spools, pump mount, 2" level sensor pipe and 4" pump out pipe. HighGuard as manufactured by Highland Tank, Stoystown, PA.		
33 44 36 00-0003 Single Wall Steel Coalescing Oil Water Separator (33 44 36 00-0002)		
33 44 36 00-0004 EA 550 Gallon, 55 GPM Single Wall Steel Coalescing Oil Water Separator With Manways.....	13,327.15	
Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank.		
For Interior Polyurethane Coating, Add	711.00	
33 44 36 00-0005 EA 1,000 Gallon, 100 GPM Single Wall Steel Coalescing Oil Water Separator With Manways.....	16,269.45	
Note: HTC-G 1000. 4' diameter x 14' long tank.		
For Interior Polyurethane Coating, Add	893.70	
33 44 36 00-0006 EA 2,000 Gallon, 200 GPM Single Wall Steel Coalescing Oil Water Separator With Manways.....	19,453.84	
Note: HTC-G 2000. 5'-4" diameter x 15' long tank.		
For Interior Polyurethane Coating, Add	1,340.10	
33 44 36 00-0007 Double Wall Steel Coalescing Oil Water Separator (33 44 36 00-0002)		
33 44 36 00-0008 EA 550 Gallon, 55 GPM Double Wall Steel Coalescing Oil Water Separator With Manways.....	20,610.29	
Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank.		
For Interior Polyurethane Coating, Add	711.00	
33 44 36 00-0009 EA 1,000 Gallon, 100 GPM Double Wall Steel Coalescing Oil Water Separator With Manways.....	23,682.62	
Note: HTC-G 1000. 4' diameter x 14' long tank.		
For Interior Polyurethane Coating, Add	893.70	
33 44 36 00-0010 EA 2,000 Gallon, 200 GPM Double Wall Steel Coalescing Oil Water Separator With Manways.....	28,880.96	
Note: HTC-G 2000. 5'-4" diameter x 15' long tank.		
For Interior Polyurethane Coating, Add	1,340.10	
33 44 36 00-0011 EA 3,000 Gallon, 300 GPM Double Wall Steel Coalescing Oil Water Separator With Manways.....	33,584.88	
Note: HTC-G 3000. 5'-4" diameter x 21'-4" long tank.		
For Interior Polyurethane Coating, Add	1,550.70	
33 44 36 00-0012 EA 5,000 Gallon, 500 GPM Double Wall Steel Coalescing Oil Water Separator With Manways.....	44,587.54	
Note: HTC-G 5000. 6' diameter x 28'-8" long tank.		
For Interior Polyurethane Coating, Add	2,057.80	
33 44 36 00-0013 Accessories For Coalescing Oil Water Separators (33 44 36 00-0002)		
33 44 36 00-0014 EA Single Channel Alarm Panel For Coalescing Oil Water Separator.....	847.13	
Note: HTAP1.		
33 44 36 00-0015 EA Two Channel Alarm Panel For Coalescing Oil Water Separator.....	1,148.51	
Note: HTAP2.		
33 44 36 00-0016 EA Float Interface Sensor For Coalescing Oil Water Separator.....	674.46	
Note: Required for UL 2215 label.		
33 44 36 00-0017 EA 1-1/2" Liquid Only Sensor For Coalescing Oil Water Separator.....	502.42	
Note: Required for UL 2215 label.		
33 44 36 00-0018 EA Polyvinyl Chloride (PVC) Cap For 2" Sensor For Coalescing Oil Water Separator.....	179.83	
Note: Required for UL 2215 label.		
33 44 36 00-0019 EA 550, 1,000 Or 2,000 Gallon Tank Concrete Deadmen Set (2 Each) For Coalescing Oil Water Separator.....	2,864.89	
33 44 36 00-0020 EA 3,000 Gallon Tank Concrete Deadmen Set (4 Each) For Coalescing Oil Water Separator.....	5,729.79	
33 44 36 00-0021 EA 5,000 Gallon Tank Concrete Deadmen Set (6 Each) For Coalescing Oil Water Separator.....	8,594.75	
33 44 36 00-0022 EA 550 Or 1,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator.....	534.90	
33 44 36 00-0023 EA 2,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator.....	626.66	
33 44 36 00-0024 EA 3,000 Gallon Tank Polyester Hold Down Straps (4 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator.....	1,253.33	
33 44 36 00-0025 EA 5,000 Gallon Tank Polyester Hold Down Straps (6 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator.....	2,740.23	
33 44 36 00-0026 EA 30" Diameter Grade Level Manway For Coalescing Oil Water Separator.....	749.96	
Note: Required when installed in paved areas.		
33 44 36 00-0027 EA 36" Diameter Grade Level Manway For Coalescing Oil Water Separator.....	972.38	
Note: Required when installed in paved areas.		
33 44 36 00-0028 EA 48" Diameter Grade Level Manway For Coalescing Oil Water Separator.....	1,338.17	
Note: Required when installed in paved areas.		
33 44 36 00-0029 EA 54" x 54" Grade Level Manway For Coalescing Oil Water Separator.....	2,410.58	
Note: Required when installed in paved areas.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 44 36 00-0030 EA 66" x 54" Grade Level Manway For Coalescing Oil Water Separator .....3,090.15 Note: Required when installed in paved areas.	3,090.15	
33 44 36 00-0031 EA 66" x 66" Grade Level Manway For Coalescing Oil Water Separator .....3,870.09 Note: Required when installed in paved areas.	3,870.09	
33 44 36 00-0032 EA 78" x 66" Grade Level Manway For Coalescing Oil Water Separator .....4,870.81 Note: Required when installed in paved areas.	4,870.81	
33 44 36 00-0033 EA 550 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator .....956.28	956.28	
33 44 36 00-0034 EA 1,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator .....1,165.60	1,165.60	
33 44 36 00-0035 EA 2,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator .....1,830.83	1,830.83	
33 44 36 00-0036 EA 550 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator.....911.83	911.83	
33 44 36 00-0037 EA 1,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator.....1,106.82	1,106.82	
33 44 36 00-0038 EA 2,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator.....1,313.27	1,313.27	
33 44 36 00-0039 EA 18" Manhole Gasket (Material Only) For Coalescing Oil Water Separator.....77.42	77.42	
33 44 36 00-0040 EA 24" Manhole Gasket (Material Only) For Coalescing Oil Water Separator.....87.46	87.46	
33 44 36 00-0041 Oil Skimmers (33 44 36)		
33 44 36 00-0042 Oil Skimmers, 12" And 24" Models (33 44 36 00-0041)		
33 44 36 00-0043 EA Oil Skimmers, TENV, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase .....5,016.65	5,016.65	583.76
33 44 36 00-0044 EA Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase .....5,252.45	5,252.45	583.76
33 44 36 00-0045 EA Oil Skimmers, TENV, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase .....5,038.49	5,038.49	583.76
33 44 36 00-0046 EA Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase .....5,340.87	5,340.87	583.76
33 44 36 00-0047 EA Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase .....5,286.29	5,286.29	583.76
33 44 36 00-0048 EA Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase.....5,486.06	5,486.06	583.76
33 44 36 00-0049 EA Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase .....5,337.59	5,337.59	583.76
33 44 36 00-0050 EA Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase.....5,638.89	5,638.89	583.76
33 44 36 00-0051 EA Oil Skimmers, TENV, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase .....5,659.33	5,659.33	778.52
33 44 36 00-0052 EA Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase .....5,911.50	5,911.50	778.52
33 44 36 00-0053 EA Oil Skimmers, TENV, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase .....5,725.92	5,725.92	778.52
33 44 36 00-0054 EA Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase .....6,088.35	6,088.35	778.52
33 44 36 00-0055 EA Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase .....6,296.85	6,296.85	778.52
33 44 36 00-0056 EA Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase.....6,549.02	6,549.02	778.52
33 44 36 00-0057 EA Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase .....6,350.34	6,350.34	778.52
33 44 36 00-0058 EA Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase.....6,713.86	6,713.86	778.52
33 44 36 00-0059 Oil Skimmers, Add-Ons (33 44 36 00-0041)		
33 44 36 00-0060 LF Add For Belt Projection, 12" Width.....16.37	16.37	
33 44 36 00-0061 LF Add For Belt Projection, 24" Width.....30.57	30.57	
33 44 36 00-0062 LF Add For Spacer Stands, 12" Models .....258.84	258.84	
33 44 36 00-0063 LF Add For Spacer Stands, 24" Models .....306.87	306.87	
33 46 Stormwater Management (33 40)		
33 46 23 Modular Buried Stormwater Storage Units (33 46)		
33 46 23 00-0001 Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™) (33 46 23) Note: Includes chambers and end caps delivery to site. Excludes excavation and earthwork, foundation stone, embedment and perimeter stone, geotextile fabrics and cutting holes in chambers. See CSI section 31 05 16 00-0000 for aggregate (foundation, embedment and perimeter stone), 31 23 16 36-0000 for excavation and earth backfill, 31 32 19 16-0000 for woven and non-woven geotextile fabric.		
33 46 23 00-0002 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740) (33 46 23 00-0001)		
33 46 23 00-0003 EA Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740) .....425.31	425.31	
33 46 23 00-0004 EA >10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740) .....390.97	390.97	
33 46 23 00-0005 EA >20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740) .....366.77	366.77	
33 46 23 00-0006 EA >30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740) .....343.30	343.30	
33 46 23 00-0007 EA Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740).....187.81	187.81	
33 46 23 00-0008 EA >10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740) .....165.34	165.34	
33 46 23 00-0009 EA >20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740) .....152.42	152.42	
33 46 23 00-0010 EA >30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740) .....139.67	139.67	
33 46 23 00-0011 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310) (33 46 23 00-0001)		
33 46 23 00-0012 EA Up To 10, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310) .....246.81	246.81	
33 46 23 00-0013 EA >10 To 20, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310) .....225.16	225.16	
33 46 23 00-0014 EA >20 To 30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310) .....210.41	210.41	
33 46 23 00-0015 EA >30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310) .....196.95	196.95	
33 46 23 00-0016 EA Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310).....147.69	147.69	

33 Utilities**33 40 Stormwater Utilities****33 46 Stormwater Management**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 46 23 00-0017 EA >10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	130.99	
33 46 23 00-0018 EA >20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	120.94	
33 46 23 00-0019 EA >30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	111.95	
33 46 23 00-0020 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500) <small>(33 46 23 00-0001)</small>		
33 46 23 00-0021 EA Up To 10, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500)	713.50	
33 46 23 00-0022 EA >10 To 20, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500)	663.14	
33 46 23 00-0023 EA >20 To 30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500)	623.56	
33 46 23 00-0024 EA >30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500)	587.72	
33 46 23 00-0025 EA Up To 10, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500)	604.24	
33 46 23 00-0026 EA >10 To 20, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500)	559.33	
33 46 23 00-0027 EA >20 To 30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500)	524.95	
33 46 23 00-0028 EA >30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500)	494.04	
33 46 23 00-0029 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780) <small>(33 46 23 00-0001)</small>		
33 46 23 00-0030 EA Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780)	440.98	
33 46 23 00-0031 EA >10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780)	405.87	
33 46 23 00-0032 EA >20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780)	380.91	
33 46 23 00-0033 EA >30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780)	356.73	
33 46 23 00-0034 EA Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780)	187.81	
33 46 23 00-0035 EA >10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780)	162.38	
33 46 23 00-0036 EA >20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780)	152.42	
33 46 23 00-0037 EA >30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780)	139.67	
33 46 23 00-0038 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500) <small>(33 46 23 00-0001)</small>		
33 46 23 00-0039 EA Up To 10, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500)	743.14	
33 46 23 00-0040 EA >10 To 20, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500)	689.67	
33 46 23 00-0041 EA >20 To 30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500)	647.03	
33 46 23 00-0042 EA >30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500)	610.47	
33 46 23 00-0043 EA Up To 10, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500)	920.04	
33 46 23 00-0044 EA >10 To 20, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500)	857.72	
33 46 23 00-0045 EA >20 To 30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500)	806.68	
33 46 23 00-0046 EA >30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500)	762.14	
33 46 23 00-0047 Cut Opening In Polypropylene Corrugated Wall Stormwater Collection Chambers <small>(33 46 23 00-0001)</small>		
33 46 23 00-0048 EA Cut Up To 6" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap	50.40	
33 46 23 00-0049 EA Cut >6" To 12" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap	64.53	
33 46 23 00-0050 EA Cut >12" To 24" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap	83.66	
33 46 23 00-0051 EA Cut >24" To 36" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap	105.74	
33 46 23 00-0052 EA 12" x 6" Inspection Port Kit	515.16	
Note: (2712AG6IPKIT)		
33 46 53 Stormwater Leaching Pits <small>(33 46)</small>		
33 46 53 00-0001 Drainage Wells <small>(33 46 53)</small>		
Note: Includes augering hole.		
33 46 53 00-0002 LF 12" Diameter Drainage Well With Corrugated Metal Liner	26.05	
33 46 53 00-0003 LF 18" Diameter Drainage Well With Corrugated Metal Liner	31.63	
33 46 53 00-0004 LF 24" Diameter Drainage Well With Corrugated Metal Liner	41.97	

33 50 Hydrocarbon Utilities (33)



	Utilities	33	
	Hydrocarbon Utilities	33 50	CS
	Stormwater Management	33 46	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 51 Hydrocarbon Sources (33 50)

33 51 29 Extraction Wells for Gaseous Hydrocarbons (33 51)

33 51 29 00-0001	Landfill Gas Well <small>(33 51 29)</small> See CSI section 02 62 16 00-0000 for soil vapor extraction.		
33 51 29 00-0002	Mobilization And Demobilization Landfill Gas Extraction Well <small>(33 51 29 00-0001)</small>		
33 51 29 00-0003	EA 24" Diameter, Landfill Gas Extraction Well Drilling Mobilization And Demobilization	1,107.97	
33 51 29 00-0004	EA >24" To 36" Diameter, Landfill Gas Extraction Well Drilling Mobilization And Demobilization	1,661.95	
33 51 29 00-0005	Drill Landfill Gas Extraction Well In Normal Soil, Sand, Gravel, O.B. <small>(33 51 29 00-0001)</small> Note: Excludes well gravel or materials.		
33 51 29 00-0006	LF 24" Landfill Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	191.81	
33 51 29 00-0007	LF 30" Landfill Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	249.85	
33 51 29 00-0008	LF 36" Landfill Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	310.79	
33 51 29 00-0009	Landfill Gas Extraction Well Gravel Backfill <small>(33 51 29 00-0001)</small> Note: 1/2" x 1-1/2" drain rock.		
33 51 29 00-0010	LF 24" Diameter Landfill Gas Extraction Well, Gravel	113.56	
33 51 29 00-0011	LF 30" Diameter Landfill Gas Extraction Well, Gravel	145.89	
33 51 29 00-0012	LF 36" Diameter Landfill Gas Extraction Well, Gravel	167.65	
33 51 29 00-0013	Landfill Gas Extraction Well Collection Head <small>(33 51 29 00-0001)</small>		
33 51 29 00-0014	EA Landfill Gas Extraction Well Head Assembly	2,491.42	
33 51 29 00-0015	EA Landfill Gas Extraction Well Locking Enclosure	779.53	
33 51 29 00-0016	SF Landfill Gas Extraction Well Skirt, PVC Seal (Landtex WBS-100-4)	3.82	
33 51 29 00-0017	CF Landfill Gas Extraction Well Bentonite Barrier (Benseal EZ-MUD)	7.73	
33 51 29 00-0018	CY Landfill Gas Extraction Well Plug, Moistened And Tamped In 2' Lifts	113.09	
33 51 29 00-0019	EA 4" Steel Concrete Filled Pipe Bollard, 8' Overall Length (3' Bury With 5' Exposed) For Landfill Gas Extraction Well	513.20	11.34
	Note: Includes drilling, concrete footing, pipe and concrete fill.		
	<i>For Galvanized Steel, Add</i>	40.27	
	<i>For 304 Stainless Steel, Add</i>	319.79	
	<i>For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add</i>	1,129.28	
	<i>For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add</i>	555.16	
	<i>For Schedule 80, Add</i>	63.16	
33 51 29 00-0020	Landfill Gas Extraction Well Valve Box <small>(33 51 29 00-0001)</small>		
33 51 29 00-0021	EA 17" x 30" x 12" High Fibrelyte Utility Box (FL36T-12)	277.30	122.93
33 51 29 00-0022	EA 17" x 30" x 18" High Fibrelyte Utility Box (FL36T-18)	369.95	122.93
33 51 29 00-0023	EA 17" x 30" x 24" High Fibrelyte Utility Box (FL36T-18)	462.73	122.93
33 51 29 00-0024	EA Fibrelyte Composite Lid For 17" x 30" Utility Box (FL36D)	209.37	29.65
33 51 29 00-0025	EA 6" High Extension For 17" x 30" Utility Box (FL36x6)	125.55	43.13
33 51 29 00-0026	EA 8" High Extension For 17" x 30" Utility Box (FL36x8)	139.91	43.13
33 51 29 00-0027	Landfill Gas Extraction Well Riser Pipe <small>(33 51 29 00-0001)</small>		
33 51 29 00-0028	LF 4" Polyvinyl Chloride (PVC) Well Riser Pipe, Flush Thread	16.78	
33 51 29 00-0029	LF 6" Diameter Slotted Polyvinyl Chloride (PVC) Riser Pipe With Slip Joint And Coupler	44.04	
33 51 29 00-0030	EA 6" Well Riser Pipe, Centralizer For >12" To 24" Diameter Well	101.41	
33 51 29 00-0031	EA 6" Well Riser Pipe, Centralizer For >24" To 30" Diameter Well	150.40	
33 51 29 00-0032	Soil Vapor Gas Extraction Well <small>(33 51 29)</small> See CSI section 02 62 16 00-0000 for soil vapor extraction.		
33 51 29 00-0033	Mobilization And Demobilization Soil Vapor Gas Extraction Well <small>(33 51 29 00-0032)</small>		
33 51 29 00-0034	EA Up To 12" Diameter, Soil Vapor Gas Extraction Well Drilling Mobilization And Demobilization	905.62	
33 51 29 00-0035	EA >12" To 24" Diameter, Soil Vapor Gas Extraction Well Drilling Mobilization And Demobilization	1,107.97	
33 51 29 00-0036	Drill Soil Vapor Gas Extraction Well In Normal Soil, Sand, Gravel, O.B. <small>(33 51 29 00-0032)</small> Note: Excludes well gravel or materials.		
33 51 29 00-0037	LF 6" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	21.47	
33 51 29 00-0038	LF 8" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	25.48	
33 51 29 00-0039	LF 10" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	34.07	
33 51 29 00-0040	LF 12" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	53.33	
33 51 29 00-0041	LF 18" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	119.11	
33 51 29 00-0042	Soil Vapor Gas Extraction Well Pea Gravel Backfill <small>(33 51 29 00-0032)</small>		
33 51 29 00-0043	LF 6" Diameter Soil Vapor Gas Extraction Well, Pea Gravel	17.61	
33 51 29 00-0044	LF 8" Diameter Soil Vapor Gas Extraction Well, Pea Gravel	25.80	
33 51 29 00-0045	LF 10" Diameter Soil Vapor Gas Extraction Well, Pea Gravel	35.61	
33 51 29 00-0046	LF 12" Diameter Soil Vapor Gas Extraction Well, Pea Gravel	45.85	
33 51 29 00-0047	LF 18" Diameter Soil Vapor Gas Extraction Well, Pea Gravel	84.94	

33	Utilities
33 50	Hydrocarbon Utilities
33 51	Hydrocarbon Sources



MINOR
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TOTAL DIRECT DEMOLITION
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33 51 29 00-0048	Soil Vapor Gas Extraction Well Head (33 51 29 00-0032)		
33 51 29 00-0049	EA Soil Vapor Gas Extraction Well Head Assembly	1,280.68	
33 51 29 00-0050	EA Soil Vapor Gas Extraction Well Head Concrete Cap.....	1,217.98	
33 51 29 00-0051	EA Soil Vapor Gas Extraction Well Locking Enclosure	779.53	
33 51 29 00-0052	CF Soil Vapor Gas Extraction Well Neat Cement	6.48	
33 51 29 00-0053	CF Soil Vapor Gas Extraction Well Bentonite Barrier (Benseal EZ-MUD)	7.73	
33 51 29 00-0054	EA 4" Steel Concrete Filled Pipe Bollard, 8' Overall Length (3' Bury With 5' Exposed) For Soil Vapor Gas Extraction Well	513.20	11.34
	Note: Includes drilling, concrete footing, pipe and concrete fill.		
	For Galvanized Steel, Add	40.27	
	For 304 Stainless Steel, Add	319.79	
	For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	1,129.28	
	For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add	555.16	
	For Schedule 80, Add	63.16	
33 51 29 00-0055	LF 1/4" Polyethylene Tubing For Soil Vapor Gas Extraction Well	2.78	
	For Work In Restricted Working Space, Add	0.78	
33 51 29 00-0056	EA 1/4" Polyvinyl Chloride (PVC) Stopcock Valve (Hayward LC12) For Soil Vapor Gas Extraction Well.....	57.66	16.90
33 51 29 00-0057	Soil Vapor Gas Extraction Well Riser Pipe (33 51 29 00-0032)		
33 51 29 00-0058	LF 3/4" Polyvinyl Chloride (PVC) Well Riser Pipe, Flush Tread	3.08	
33 51 29 00-0059	LF 3/4" Diameter Slotted Polyvinyl Chloride (PVC) Well Riser Pipe.....	8.00	

33 52 Hydrocarbon Transmission and Distribution (33 50)

33 52 16 Gas Hydrocarbon Piping (33 52)

33 52 16 13 Steel Natural Gas Piping (33 52 16)

33 52 16 13-0001	Gas Distribution Lines (33 52 16 13)		
	Note: Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		

33 53 Hydrocarbon Utility Pressure Regulation (33 50)

33 53 16 Gas Hydrocarbon Pressure Regulation (33 53)

33 53 16 00-0001 Gas Pressure Regulators With Screwed And Flanged Ends (33 53 16)

33 53 16 00-0002	EA 3/4" Gas Pressure Regulator, Screwed End	180.51	16.90
33 53 16 00-0003	EA 1" Gas Pressure Regulator, Screwed End	184.35	16.90
33 53 16 00-0004	EA 1-1/4" Gas Pressure Regulator, Screwed End	193.56	20.07
33 53 16 00-0005	EA 1-1/2" Gas Pressure Regulator, Screwed End	616.80	23.23
33 53 16 00-0006	EA 2" Gas Pressure Regulator, Screwed End	665.33	35.99
33 53 16 00-0007	EA 3" Gas Pressure Regulator, Screwed End	1,853.62	80.74
33 53 16 00-0008	EA 4" Gas Pressure Regulator, Screwed End	2,570.17	107.01

33 59 Hydrocarbon Utility Metering (33 50)

33 59 11 Diaphragm/Bellows Hydrocarbons Meters (33 59)

33 59 11 00-0001 Diaphragm Meters (33 59 11)

Note: With standard direct-digital reading maximum working pressures 5 lbs to 100 lbs, threaded connections. Excludes pressure and temperature compensation.

33 59 11 00-0002	EA 250 CF/Hour Gas Diaphragm Meter At 5 LB, Direct Digital, Threaded	462.23	66.15
	For Temperature And Pressure Compensation, Add	8.40	
	For Pulsers, Add	26.50	
33 59 11 00-0003	EA 425 CF/Hour Gas Diaphragm Meter At 10 LB, Direct Digital, Threaded	887.18	101.17
	For Temperature And Pressure Compensation, Add	8.40	
	For Pulsers, Add	26.50	
33 59 11 00-0004	EA 425 CF/Hour Gas Diaphragm Meter At 25 LB, Direct Digital, Threaded	1,029.55	101.17
	For Temperature And Pressure Compensation, Add	8.40	
	For Pulsers, Add	26.50	
33 59 11 00-0005	EA 800 CF/Hour Gas Diaphragm Meter At 20 LB, Direct Digital, Threaded	2,174.08	126.46
	For Temperature And Pressure Compensation, Add	8.40	
	For Pulsers, Add	26.50	
33 59 11 00-0006	EA 1,000 CF/Hour Gas Diaphragm Meter At 25 LB, Direct Digital, Threaded	2,470.13	155.65
	For Temperature And Pressure Compensation, Add	8.40	
	For Pulsers, Add	26.50	
33 59 11 00-0007	EA 800 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded	3,191.33	126.46
	For Temperature And Pressure Compensation, Add	8.40	
	For Pulsers, Add	26.50	
33 59 11 00-0008	EA 1,000 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded	3,564.81	155.65
	For Temperature And Pressure Compensation, Add	8.40	
	For Pulsers, Add	26.50	
33 59 11 00-0009	EA 1,400 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded	4,676.87	165.38
	For Temperature And Pressure Compensation, Add	8.40	
	For Pulsers, Add	26.50	
33 59 11 00-0010	EA 2,300 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded	6,591.44	194.56
	For Temperature And Pressure Compensation, Add	8.40	
	For Pulsers, Add	26.50	



	Utilities	33
	Hydrocarbon Utilities	33 50
	Hydrocarbon Utility Metering	33 59

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 59 11 00-0011	EA		5,000 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded <i>For Temperature And Pressure Compensation, Add For Pulsers, Add</i>	10,088.22 8.40 26.50	321.02
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33 59 16 Hydrocarbons Turbine Meters (33 59)

33 59 16 00-0001 Gas Turbine Meters With Direct-Digital Reading (33 59 16)

Note: Maximum working pressure 175 PSI, flanged end connections.

33 59 16 00-0002	EA		4", 18,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	8,170.93	337.57
33 59 16 00-0003	EA		6", 30,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	8,550.89	392.03
33 59 16 00-0004	EA		8", 60,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	13,181.89	419.24
33 59 16 00-0005	EA		10", 90,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	25,556.83	510.37
33 59 16 00-0006	EA		12", 150,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	42,452.42	637.96

33 70 Electrical Utilities (33)

33 71 Electrical Utility Transmission and Distribution (33 70)

33 71 19 Electrical Underground Ducts, Ductbanks and Manholes (33 71)

Note: Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 71 19 13 Electrical Manholes and Handholes (33 71 19)

33 71 19 13-0001 Electrical Handholes And Pull Boxes (33 71 19 13)

33 71 19 13-0002 Electrical Pull Boxes (33 71 19 13-0001)

See CSI section 33 05 63 00-0427 for handholes.

33 71 19 13-0003	EA		24" x 36" x 24", Electric Pull Boxes, Precast Concrete	1,874.50	
33 71 19 13-0004	EA		24" x 36" x 36", Electric Pull Boxes, Precast Concrete	2,251.30	
33 71 19 13-0005	EA		30" x 48" x 36", Electric Pull Boxes, Precast Concrete	2,611.81	
33 71 19 13-0006	EA		36" x 72" x 24", Electric Pull Boxes, Precast Concrete	4,090.97	
33 71 19 13-0007	EA		36" x 60" x 36", Electric Pull Boxes, Precast Concrete	4,370.47	
33 71 19 13-0008	EA		48" x 48" x 36", Electric Pull Boxes, Precast Concrete	4,703.90	
33 71 19 13-0009	EA		48" x 60" x 48", Electric Pull Boxes, Precast Concrete	5,414.29	
33 71 19 13-0010	EA		18" x 28" x 34", Electric Pull Boxes, Precast Concrete	1,985.24	
33 71 19 13-0011	EA		14" x 20" x 12", Electric Pull Boxes, Precast Concrete	1,010.77	
33 71 19 13-0012	EA		18" x 28" x 12", Electric Pull Boxes, Precast Concrete	1,252.65	
33 71 19 13-0013	EA		24" x 36" x 12", Electric Pull Boxes, Precast Concrete	1,683.14	
33 71 19 13-0014	EA		24" x 3', Round Electric Pull Boxes, Precast Concrete	1,055.22	
33 71 19 13-0015	EA		30" x 3', Round Electric Pull Boxes, Precast Concrete	1,114.46	
33 71 19 13-0016	EA		No. 5 Electric Precast Concrete Pull Boxes With Traffic Rated Lid	1,212.72	
			<i>For 12" Extension, Add</i>	123.93	
			<i>For Traffic Rated Lid, Add</i>	94.94	
33 71 19 13-0017	EA		No. 6 Electric Precast Concrete Pull Boxes With Traffic Rated Lid	1,334.51	
			<i>For 12" Extension, Add</i>	154.38	
			<i>For Traffic Rated Lid, Add</i>	131.48	

33 71 19 13-0018 Electrical Pull Boxes (CALTRANS And SDG&E) (33 71 19 13-0001)

33 71 19 13-0019	EA		Body, CALTRANS 3-1/2 Precast Concrete Pull Box	109.15	
33 71 19 13-0020	EA		Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	41.14	
33 71 19 13-0021	EA		Bolt Down Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	64.34	
33 71 19 13-0022	EA		Bolt Down Cast Iron Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	130.73	
33 71 19 13-0023	EA		Bolt Down Steel Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	199.57	
			<i>For Galvanized Steel Cover, Add</i>	33.32	
33 71 19 13-0024	EA		12" Extension, CALTRANS 3-1/2 Precast Concrete Pull Box	53.75	
33 71 19 13-0025	EA		Flat Plate Base, CALTRANS 3-1/2 Precast Concrete Pull Box	53.75	
33 71 19 13-0026	EA		Body, CALTRANS 5 Precast Concrete Pull Box	157.00	
33 71 19 13-0027	EA		Concrete Cover, CALTRANS 5 Precast Concrete Pull Box	54.17	
33 71 19 13-0028	EA		Bolt Down Concrete Cover, CALTRANS 5 Precast Concrete Pull Box	77.38	
33 71 19 13-0029	EA		Bolt Down Steel Cover, CALTRANS 5 Precast Concrete Pull Box	263.11	
			<i>For Galvanized Steel Cover, Add</i>	61.10	
33 71 19 13-0030	EA		12" Extension, CALTRANS 5 Precast Concrete Pull Box	74.12	
33 71 19 13-0031	EA		Flat Plate Base, CALTRANS 5 Precast Concrete Pull Box	69.64	
33 71 19 13-0032	EA		Body, CALTRANS 6 Precast Concrete Pull Box	170.03	
33 71 19 13-0033	EA		Concrete Cover, CALTRANS 6 Precast Concrete Pull Box	71.69	
33 71 19 13-0034	EA		Bolt Down Concrete Cover, CALTRANS 6 Precast Concrete Pull Box	94.89	
33 71 19 13-0035	EA		Bolt Down Steel Cover, CALTRANS 6 Precast Concrete Pull Box	359.23	
			<i>For Galvanized Steel Cover, Add</i>	85.53	
33 71 19 13-0036	EA		12" Extension, CALTRANS 6 Precast Concrete Pull Box	87.15	
33 71 19 13-0037	EA		Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box	82.26	
33 71 19 13-0038	EA		6" Return Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box	111.59	
33 71 19 13-0039	EA		Body, CALTRANS 3-1/2-T Precast Concrete Pull Box	228.49	
33 71 19 13-0040	EA		Bolt Down Concrete Cover, CALTRANS 3-1/2-T Precast Concrete Pull Box	315.24	
33 71 19 13-0041	EA		12" Extension, CALTRANS 3-1/2-T Precast Concrete Pull Box	103.44	
33 71 19 13-0042	EA		Flat Plate Base, CALTRANS 3-1/2-T Precast Concrete Pull Box	95.30	
33 71 19 13-0043	EA		Body, CALTRANS 5-T Precast Concrete Pull Box	300.37	
33 71 19 13-0044	EA		Bolt Down Concrete Cover, CALTRANS 5-T Precast Concrete Pull Box	453.72	
33 71 19 13-0045	EA		12" Extension, CALTRANS 5-T Precast Concrete Pull Box	122.99	
33 71 19 13-0046	EA		Flat Plate Base, CALTRANS 5-T Precast Concrete Pull Box	119.74	
33 71 19 13-0047	EA		Body, CALTRANS 6-T Precast Concrete Pull Box	419.30	

33 Utilities**33 70 Electrical Utilities****33 71 Electrical Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 71 19 13-0048 EA Bolt Down Concrete Cover, CALTRANS 6-T Precast Concrete Pull Box.....	632.94	
33 71 19 13-0049 EA 12" Extension, CALTRANS 6-T Precast Concrete Pull Box.....	204.46	
33 71 19 13-0050 EA Flat Plate Base, CALTRANS 6-T Precast Concrete Pull Box.....	160.47	
33 71 19 13-0051 EA 24" x 36" Handhole (SDG&E 3313K/T).....	179.66	
33 71 19 13-0052 EA 24" x 36" Traffic Cover (SDG&E 3313CSTG).....	1,294.07	
33 71 19 13-0053 Precast Concrete Box Extensions (33 71 19 13-0001)		
33 71 19 13-0054 EA 14" x 20" x 12", Precast Concrete Extension.....	233.01	
33 71 19 13-0055 EA 18" x 28" x 12", Precast Concrete Extension.....	292.46	
33 71 19 13-0056 EA 24" x 36" x 12", Precast Concrete Extension.....	379.69	
33 71 19 13-0057 EA 30" x 48" x 12", Precast Concrete Extension.....	462.48	
33 71 19 13-0058 EA 36" x 60" x 12", Precast Concrete Extension.....	761.44	
33 71 19 13-0059 EA 36" x 72" x 12", Precast Concrete Extension.....	1,032.01	
33 71 19 13-0060 EA 48" x 48" x 12", Precast Concrete Extension.....	1,187.57	
33 71 19 13-0061 EA 48" x 60" x 12", Precast Concrete Extension.....	1,459.07	
33 71 19 13-0062 Electrical Property Line Boxes (33 71 19 13)		
33 71 19 13-0063 EA 3'-6" x 2'-9" x 2' Deep Property Line Box.....	3,798.90	364.47
33 71 19 13-0064 EA 4'-6" x 3'-6" x 4' Deep Property Line Box.....	4,452.89	377.97
33 71 19 13-0065 EA 6' x 4' x 5' Deep Property Line Box.....	4,895.95	458.96
33 71 19 13-0066 EA 11'-6" x 4'-6" x 6' Deep Property Line Box.....	7,489.86	674.96
33 71 19 13-0067 Manhole Accessories (33 71 19 13)		
33 71 19 13-0068 EA 6" Precast Grade Ring Riser Casting.....	479.46	
33 71 19 13-0069 EA 12" Precast Grade Ring Riser Casting.....	519.21	
33 71 19 13-0070 EA 36" Opening Cast Iron Frame And Cover (NEENAH #R-1640-D).....	1,708.83	
33 71 19 13-0071 EA 42" Opening Cast Iron Frame And Cover (NEENAH #R-1740-E1).....	2,227.69	
33 71 19 13-0072 EA Cast Iron Adjusting Ring (NEENAH #R-1979).....	731.48	
33 71 19 13-0073 EA Cast Iron Frame And Cover (NEENAH #R-1640-B).....	926.08	
33 71 19 23 Trenched Electrical Underground Duct and Ductbanks (33 71 19)		
33 71 19 23-0001 Underground Cable Protection Slab And Marking (33 71 19 23)		
33 71 19 23-0002 EA 24" x 12", 2" Concrete, Underground Cable Protection.....	5.06	
33 71 19 23-0003 Underground Electrical Concrete Markers (33 71 19 23)		
33 71 19 23-0004 EA 36" x 6" x 6", Underground Electric Concrete Marker.....	310.14	

END OF SECTION 33



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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34 Transportation

34 01 Operation and Maintenance of Transportation ⁽³⁴⁾

34 01 23 Operation and Maintenance of Railways ^(34 01)

34 01 23 33 Track Realignment ^(34 01 23)

34 01 23 33-0001 Realign Railroad Track ^(34 01 23 33)

34 01 23 33-0002	LF	Removal Of Track Rails And Ties And Re-Install Including New Bolts And Spikes.....	84.96
34 01 23 33-0003	EA	Removal Of Railroad Track Turnouts And Re-install Including New Bolts And Spikes.....	4,171.87

34 01 43 Operation and Maintenance of Bridges ^(34 01)

34 01 43 00-0001 Repair Of Bridge Posts ^(34 01 43)

34 01 43 00-0002	SF	Chipping Of Concrete To Expose Rebar.....	30.93
34 01 43 00-0003	EA	Removal And Replacement Of Concrete Post, 20" x 20" Square, 36" To 42" High Note: Includes removal of damaged post, drilling, epoxy injection, rebar, forms and concrete.	1,844.61
34 01 43 00-0004	EA	Repair Bearing Pad.....	653.97

34 01 43 00-0005 Repair Of Bridge Rails ^(34 01 43)

34 01 43 00-0006	EA	Repair Concrete Rail Supports	327.51
34 01 43 00-0007	LF	Repair Guardrail.....	122.81
34 01 43 00-0008	LF	Repair Bridge Parapet Wall.....	204.69
34 01 43 00-0009	LF	Repair Bridge Rail.....	81.88
34 01 43 00-0010	LF	Repair Damaged Metal Rail And Posts.....	42.82
34 01 43 00-0011	LF	Removal And Replacement Of 1-1/2" Galvanized Metal Rail	48.51
34 01 43 00-0012	LF	Removal And Replacement Of 2-1/2" Galvanized Metal Rail	64.47
34 01 43 00-0013	LF	Removal And Replacement Of 3" Galvanized Metal Rail.....	72.98

34 01 43 00-0014 Repair Of Bridge ^(34 01 43)

34 01 43 00-0015	LF	Repair Of Expansion Joints On Bridge.....	19.97
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34 05 Common Work Results for Transportation ⁽³⁴⁾

34 05 43 Common Work Results for Bridges ^(34 05)

34 05 43 00-0001 Mobilize Bridge Crew ^(34 05 43)

Note: Excludes mobilize jacking crew.

34 05 43 00-0002	EA	Mobilize Bridge Crew	1,139.32
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34 05 43 00-0003 Remove And Patch Bridge And Structures Concrete ^(34 05 43)

Note: This section is used for repairing areas of concrete decks, floors, verticals and overheads and approximately 1" to 6" deep in connection with bridge and structure repairs. Includes chipping, sandblasting, cleaning, primer, formwork and debris removal. Excludes scaffolding, saw cutting, disposal and/or concrete pump truck.

34 05 43 00-0004 Remove And Patch Decks Or Floors ^(34 05 43 00-0003)

Note: For patching decks and floors, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.

34 05 43 00-0005	EA	Remove And Patch Up To 16 SF Of Decks Or Floors, Up To 6" Portland Cement Based Repair Material	1,990.46
34 05 43 00-0006	SF	Remove And Patch >16 SF Decks Or Floors, Up To 6" Portland Cement Based Repair Material.....	84.51
34 05 43 00-0007	EA	Remove And Patch Up To 16 SF Of Decks Or Floors, Up To 6" Rapid Set Concrete Repair Material.....	2,043.98
34 05 43 00-0008	SF	Remove And Patch >16 SF Decks Or Floors, Up To 6" Rapid Set Concrete Repair Material	87.86
34 05 43 00-0009	EA	Remove And Patch Up To 16 SF Of Decks Or Floors, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	2,032.14
34 05 43 00-0010	SF	Remove And Patch >16 SF Decks Or Floors, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate.....	87.12
34 05 43 00-0011	EA	Remove And Patch Up To 16 SF Of Decks Or Floors, Up To 6" SSI Flex Patch (Other Than Specified).....	2,939.38
		<i>For Owner Furnished Material, Deduct</i>	<i>-1,111.97</i>
34 05 43 00-0012	SF	Remove And Patch >16 SF Decks Or Floors, Up To 6" SSI Flex Patch (Other Than Specified)	143.82
		<i>For Owner Furnished Material, Deduct</i>	<i>-69.48</i>

34 05 43 00-0013 Remove And Patch Verticals Or Overheads ^(34 05 43 00-0003)

Note: For patching verticals and overhead, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.

34 05 43 00-0014	EA	Remove And Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Portland Cement Based Repair Material.....	2,345.03
34 05 43 00-0015	SF	Remove And Patch >16 SF Verticals Or Overheads, Up To 6" Portland Cement Based Repair Material	102.25
34 05 43 00-0016	EA	Remove And Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Rapid Set Concrete Repair Material.....	2,398.55
34 05 43 00-0017	SF	Remove And Patch >16 SF Verticals Or Overheads, Up To 6" Rapid Set Concrete Repair Material	105.60
34 05 43 00-0018	EA	Remove And Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	2,386.71
34 05 43 00-0019	SF	Remove And Patch >16 SF Verticals Or Overheads, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	104.86

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-020 EA Remove And Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" SSI Flex Patch (Other Than Specified)	3,293.95	
<i>For Owner Furnished Material, Deduct</i>	-1,111.97	
34 05 43 00-021 SF Remove And Patch >16 SF Verticals Or Overheads, Up To 6" SSI Flex Patch (Other Than Specified).....	161.54	
<i>For Owner Furnished Material, Deduct</i>	-69.48	
34 05 43 00-022 Remove And Patch Pier Caps And Pedestals <small>(34 05 43 00-0003)</small>		
Note: For patching pier caps and pedestals, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.		
34 05 43 00-023 EA Remove And Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Portland Cement Based Repair Material	2,699.61	
34 05 43 00-024 SF Remove And Patch >16 SF Pier Caps And Pedestals, Up To 6" Portland Cement Based Repair Material.....	115.54	
34 05 43 00-025 EA Remove And Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Rapid Set Concrete Repair Material	2,753.13	
34 05 43 00-026 SF Remove And Patch >16 SF Pier Caps And Pedestals, Up To 6" Rapid Set Concrete Repair Material.....	118.89	
34 05 43 00-027 EA Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	2,741.29	
34 05 43 00-028 SF Remove And Patch >16 SF Pier Caps And Pedestals, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	118.15	
34 05 43 00-029 EA Remove And Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" SSI Flex Patch (Other Than Specified).....	3,648.53	
<i>For Owner Furnished Material, Deduct</i>	-1,111.97	
34 05 43 00-030 SF Remove And Patch >16 SF Pier Caps And Pedestals, Up To 6" SSI Flex Patch (Other Than Specified)	174.85	
<i>For Owner Furnished Material, Deduct</i>	-69.48	
34 05 43 00-031 Remove And Patch Circular Piers <small>(34 05 43 00-0003)</small>		
Note: For patching circular piers, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.		
34 05 43 00-032 EA Remove And Patch Up To 16 SF Of Circular Pier, Up To 6" Portland Cement Based Repair Material	3,231.46	
34 05 43 00-033 SF Remove And Patch >16 SF Of Circular Pier, Up To 6" Portland Cement Based Repair Material	128.83	
34 05 43 00-034 EA Remove And Patch Up To 16 SF Of Circular Pier, Up To 6" Rapid Set Concrete Repair Material	3,284.98	
34 05 43 00-035 SF Remove And Patch >16 SF Of Circular Pier, Up To 6" Rapid Set Concrete Repair Material	132.18	
34 05 43 00-036 EA Remove And Patch Up To 16 SF Of Circular Pier, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	3,273.14	
34 05 43 00-037 SF Remove And Patch >16 SF Circular Pier, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	174.56	
34 05 43 00-038 EA Remove And Patch Up To 16 SF Of Circular Pier, Up To 6" SSI Flex Patch (Other Than Specified).....	4,180.38	
<i>For Owner Furnished Material, Deduct</i>	-1,111.97	
34 05 43 00-039 SF Remove And Patch >16 SF Of Circular Pier, Up To 6" SSI Flex Patch (Other Than Specified)	188.14	
<i>For Owner Furnished Material, Deduct</i>	-69.48	
34 05 43 00-040 Fiber Reinforced Shotcrete Repair <small>(34 05 43)</small>		
34 05 43 00-041 EA Mobilize Fiber Reinforced Shotcrete Repair Crew	721.99	
34 05 43 00-042 SF Up To 2" Thick, Fiber Reinforced Shotcrete Repair	55.94	
<i>For Up To 25, Add</i>	27.08	
<i>For >25 To 50, Add</i>	13.54	
<i>For >50 To 150, Add</i>	5.42	
34 05 43 00-043 SF >2" To 4" Thick, Fiber Reinforced Shotcrete Repair	66.76	
<i>For Up To 25, Add</i>	31.59	
<i>For >25 To 50, Add</i>	15.80	
<i>For >50 To 150, Add</i>	6.32	
34 05 43 00-044 SF >4" To 6" Thick, Fiber Reinforced Shotcrete Repair	77.57	
<i>For Up To 25, Add</i>	36.10	
<i>For >25 To 50, Add</i>	18.05	
<i>For >50 To 150, Add</i>	7.22	
34 05 43 00-045 Bridge Railing <small>(34 05 43)</small>		
34 05 43 00-046 Remove And Store Bridge Railings <small>(34 05 43 00-0045)</small>		
See CSI section 34 82 23 00-0007 for posts.		
34 05 43 00-047 LF Removal And Storage Of One Rail Bridge Railing	6.53	
34 05 43 00-048 LF Removal And Storage Of Two Rail Bridge Railing	13.04	
34 05 43 00-049 LF Removal And Storage Of Three Rail Bridge Railing.....	19.57	
34 05 43 00-050 LF Removal And Storage Of Four Rail Bridge Railing.....	26.09	
34 05 43 00-051 Install Stored Or Supplied Bridge Railings <small>(34 05 43 00-0045)</small>		
See CSI section 34 82 23 00-0007 for posts.		
34 05 43 00-052 LF Install Stored Or Supplied One Rail Bridge Railing	54.96	
34 05 43 00-053 LF Install Stored Or Supplied Two Rail Bridge Railing	109.92	
34 05 43 00-054 LF Install Stored Or Supplied Three Rail Bridge Railing.....	164.88	
34 05 43 00-055 LF Install Stored Or Supplied Four Rail Bridge Railing.....	219.84	
34 05 43 00-056 Bridge Bearings <small>(34 05 43)</small>		
Note: Excludes drilling and anchor bolts.		
34 05 43 00-057 Elastomeric Bearings <small>(34 05 43 00-0056)</small>		
34 05 43 00-058 EA Plain Elastomeric, Type EP Bearing, 716-10, All Loads.....	902.79	279.01
34 05 43 00-059 EA Steel Laminated Elastomeric, Type EL Bearing, 716-11, Up To 100K.....	1,391.91	558.03
<i>For >100K To 250K Load, Add</i>	62.46	
<i>For >250K To 500K Load, Add</i>	124.92	
<i>For >500K To 750K Load, Add</i>	187.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0060 EA Elastomeric with External Load Plates, Type EB Bearing, 716-12, Up To 100K..... <i>For >100K To 250K Load, Add</i> <i>For >250K To 500K Load, Add</i> <i>For >500K To 750K Load, Add</i>	3,045.62 189.47 378.94 568.40	837.04
34 05 43 00-0061 Fixed Structural Pot Bearings (34 05 43 00-0056)		
34 05 43 00-0062 EA 100K To 250K Fixed Structural Pot Bearing	2,548.99	
34 05 43 00-0063 EA >250K To 500K Fixed Structural Pot Bearing	3,932.04	
34 05 43 00-0064 EA >500K To 750K Fixed Structural Pot Bearing	5,315.07	
34 05 43 00-0065 Universal Structural Expansion Pot Bearings (34 05 43 00-0056)		
34 05 43 00-0066 EA 100K To 250K Universal Structural Pot Bearing	3,218.50	
34 05 43 00-0067 EA >250K To 500K Universal Structural Pot Bearing	4,963.05	
34 05 43 00-0068 EA >500K To 750K Universal Structural Pot Bearing	6,711.08	
34 05 43 00-0069 Guided Structural Expansion Pot Bearings (34 05 43 00-0056)		
34 05 43 00-0070 EA 100K To 250K Guided Structural Pot Bearing.....	3,330.08	
34 05 43 00-0071 EA >250K To 500K Guided Structural Pot Bearing	5,130.39	
34 05 43 00-0072 EA >500K To 750K Guided Structural Pot Bearing	6,934.20	
34 05 43 00-0073 Remove, Repair And Install Bridge Bearings (34 05 43 00-0056)		
34 05 43 00-0074 Remove Structural Bearings (34 05 43 00-0073)		
34 05 43 00-0075 EA 100K To 250K Structural Bearing Removal	401.08	
34 05 43 00-0076 EA >250K To 500K Structural Bearing Removal	802.17	
34 05 43 00-0077 EA >500K To 750K Structural Bearing Removal	1,203.25	
34 05 43 00-0078 Install And Set Supplied Or Restored Structural Bearings (34 05 43 00-0073)		
34 05 43 00-0079 EA 100K To 250K Structural Bearing - Install And Set Supplied Or Restored Bearing.....	601.63	
34 05 43 00-0080 EA >250K To 500K Structural Bearing - Install And Set Supplied Or Restored Bearing	1,203.25	
34 05 43 00-0081 EA >500K To 750K Structural Bearing - Install And Set Supplied Or Restored Bearing	1,804.88	
34 05 43 00-0082 Power Wash And Paint Structural Bearings (34 05 43 00-0073)		
Note: Includes bearing plates.		
34 05 43 00-0083 EA 100K To 250K Structural Bearing - Power Wash And Paint.....	936.88	
34 05 43 00-0084 EA >250K To 500K Structural Bearing - Power Wash And Paint	1,057.54	
34 05 43 00-0085 EA >500K To 750K Structural Bearing - Power Wash And Paint	1,178.20	
34 05 43 00-0086 Power Wash, Mechanically Clean And Paint Structural Bearings (34 05 43 00-0073)		
Note: Includes bearing plates. Excludes paint removal.		
34 05 43 00-0087 EA 100K To 250K Structural Bearing - Power Wash, Mechanically Clean And Paint..... <i>For Vacuum Contained Cleaning, Add</i>	1,246.94 310.03	
34 05 43 00-0088 EA >250K To 500K Structural Bearing - Power Wash, Mechanically Clean And Paint..... <i>For Vacuum Contained Cleaning, Add</i>	1,406.31 348.77	
34 05 43 00-0089 EA >500K To 750K Structural Bearing - Power Wash, Mechanically Clean And Paint..... <i>For Vacuum Contained Cleaning, Add</i>	1,565.33 367.43	
34 05 43 00-0090 Power Wash And Paint Only Bearing Plates (34 05 43 00-0073)		
34 05 43 00-0091 EA 100K To 250K Structural Bearing - Power Wash And Paint Only Bearing Plates	584.70	
34 05 43 00-0092 EA >250K To 500K Structural Bearing - Power Wash And Paint Only Bearing Plates	703.15	
34 05 43 00-0093 EA >500K To 750K Structural Bearing - Power Wash And Paint Only Bearing Plates	821.60	
34 05 43 00-0094 Power Wash, Mechanically Clean And Paint Only Bearing Plates (34 05 43 00-0073)		
34 05 43 00-0095 EA 100K To 250K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates	779.72	
<i>For Vacuum Contained Cleaning, Add</i>		193.77
34 05 43 00-0096 EA >250K To 500K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates	935.66	
<i>For Vacuum Contained Cleaning, Add</i>		232.51
34 05 43 00-0097 EA >500K To 750K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates	1,091.27	
<i>For Vacuum Contained Cleaning, Add</i>		271.17
34 05 43 00-0098 Sand Blast And Paint Structural Bearings (34 05 43 00-0073)		
Note: Includes bearing plates.		
34 05 43 00-0099 EA 100K To 250K Structural Bearing - Sand Blast And Paint..... <i>For Vacuum Contained Cleaning, Add</i>	1,494.91 372.02	
34 05 43 00-0100 EA >250K To 500K Structural Bearing - Sand Blast And Paint	1,685.33	
<i>For Vacuum Contained Cleaning, Add</i>		418.53
34 05 43 00-0101 EA >500K To 750K Structural Bearing - Sand Blast And Paint	1,875.73	
<i>For Vacuum Contained Cleaning, Add</i>		465.03
34 05 43 00-0102 Sand Blast And Paint Only Bearing Plates (34 05 43 00-0073)		

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0103 EA 100K To 250K Structural Bearing - Sand Blast And Paint Only Bearing Plates.....	934.68	
<i>For Vacuum Contained Cleaning, Add</i>	232.51	
34 05 43 00-0104 EA >250K To 500K Structural Bearing - Sand Blast And Paint Only Bearing Plates.....	1,121.67	
<i>For Vacuum Contained Cleaning, Add</i>	279.02	
34 05 43 00-0105 EA >500K To 750K Structural Bearing - Sand Blast And Paint Only Bearing Plates.....	1,308.67	
<i>For Vacuum Contained Cleaning, Add</i>	325.52	
34 05 43 00-0106 Grease Structural Bearings (34 05 43 00-0073)		
34 05 43 00-0107 EA 100K To 250K Structural Bearing - Grease.....	58.12	
34 05 43 00-0108 EA >250K To 500K Structural Bearing - Grease.....	87.20	
34 05 43 00-0109 EA >500K To 750K Structural Bearing - Grease.....	116.26	
34 05 43 00-0110 Replace Bronze Plate Wearing Pad (34 05 43 00-0073)		
34 05 43 00-0111 SF Removal And Replacement Of Bronze Plate Wearing Pad.....	347.01	
34 05 43 00-0112 Bridge Bearing Rivet Removal (34 05 43 00-0073)		
See CSI section 02 41 19 13-0080 for reaming of hole, 34 05 43 00-0343 for anchors and grouting.		
34 05 43 00-0113 EA Bridge Bearing Rivet Removal.....	232.52	
34 05 43 00-0114 Bridge Pintels, Side Keeper, And Shim Plates (34 05 43)		
34 05 43 00-0115 EA Removal And Replacement Of Bridge Pintel.....	222.47	
34 05 43 00-0116 EA Removal And Replacement Of Bridge Side Keeper.....	226.62	
34 05 43 00-0117 EA Refabricate And Install Shim Plates At One Bearing.....	148.75	
34 05 43 00-0118 EA Refabricate And Install Beveled Shim Plates At One Bearing.....	148.75	
34 05 43 00-0119 EA Refabricate And Install Finger Shim Plates At One Bearing.....	148.75	
34 05 43 00-0120 Vertical Jacking And Lifting (34 05 43)		
Note: For vertical jacking of structural members. Includes jacks, hydraulics, and synchronizing equipment where appropriate. Excludes engineering and design. See CSI section 03 01 30 71-0000 for concrete repair, 05 12 23 00-0000 for temporary steel members.		
34 05 43 00-0121 Mobilize Jacking Crew And Equipment (34 05 43 00-0120)		
Note: Includes removing equipment after completion.		
34 05 43 00-0122 EA Mobilize Bridge Jacking Crew and Equipment.....	2,092.62	
<i>For Temporary Support Mobilization, Add</i>	4,185.24	
34 05 43 00-0123 Vertical Jacking And Lifting Per Point of Contact (34 05 43 00-0120)		
Note: Includes positioning jack, shims, lifting, and lowering. Excludes temporary steel, temporary lumber, and concrete repairs.		
34 05 43 00-0124 EA Up To 10 Ton Jack, Per Point Of Contact.....	348.77	
<i>For Synchronized Lift, Add</i>	69.75	
<i>For Jacking From Temporary Support, Add</i>	139.51	
34 05 43 00-0125 EA >10 To 20 Ton Jack, Per Point Of Contact.....	406.90	
<i>For Synchronized Lift, Add</i>	81.38	
<i>For Jacking From Temporary Support, Add</i>	162.76	
34 05 43 00-0126 EA >20 To 40 Ton Jack, Per Point Of Contact.....	465.03	
<i>For Synchronized Lift, Add</i>	93.01	
<i>For Jacking From Temporary Support, Add</i>	186.01	
34 05 43 00-0127 EA >40 To 60 Ton Jack, Per Point Of Contact.....	523.15	
<i>For Synchronized Lift, Add</i>	104.63	
<i>For Jacking From Temporary Support, Add</i>	209.26	
34 05 43 00-0128 EA >60 To 80 Ton Jack, Per Point Of Contact.....	581.28	
<i>For Synchronized Lift, Add</i>	116.26	
<i>For Jacking From Temporary Support, Add</i>	232.51	
34 05 43 00-0129 EA >80 To 100 Ton Jack, Per Point Of Contact.....	639.41	
<i>For Synchronized Lift, Add</i>	127.88	
<i>For Jacking From Temporary Support, Add</i>	255.76	
34 05 43 00-0130 EA >100 To 120 Ton Jack, Per Point Of Contact.....	697.54	
<i>For Synchronized Lift, Add</i>	139.51	
<i>For Jacking From Temporary Support, Add</i>	279.02	
34 05 43 00-0131 EA >120 To 140 Ton Jack, Per Point Of Contact.....	726.61	
<i>For Synchronized Lift, Add</i>	145.32	
<i>For Jacking From Temporary Support, Add</i>	290.64	
34 05 43 00-0132 EA >140 To 160 Ton Jack, Per Point Of Contact.....	755.67	
<i>For Synchronized Lift, Add</i>	151.13	
<i>For Jacking From Temporary Support, Add</i>	302.27	
34 05 43 00-0133 EA >160 To 250 Ton Jack, Per Point Of Contact.....	755.67	
<i>For Synchronized Lift, Add</i>	151.13	
<i>For Jacking From Temporary Support, Add</i>	302.27	
34 05 43 00-0134 EA >250 To 300 Ton Jack, Per Point Of Contact.....	813.79	
<i>For Synchronized Lift, Add</i>	162.76	
<i>For Jacking From Temporary Support, Add</i>	325.52	
34 05 43 00-0135 EA >300 To 400 Ton Jack, Per Point Of Contact.....	871.93	
<i>For Synchronized Lift, Add</i>	174.39	
<i>For Jacking From Temporary Support, Add</i>	348.77	
34 05 43 00-0136 EA >400 To 500 Ton Jack, Per Point Of Contact.....	930.05	
<i>For Synchronized Lift, Add</i>	186.01	
<i>For Jacking From Temporary Support, Add</i>	372.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0137 EA >500 To 600 Ton Jack, Per Point Of Contact <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	988.18 197.64 395.27	
34 05 43 00-0138 Daily Charge For Vertical Jacking Equipment (34 05 43 00-0120) Note: Includes hydraulics and synchronizing equipment.		
34 05 43 00-0139 DAY Up To 10 Ton Jacking Equipment Charge By The Day	14.58	
34 05 43 00-0140 DAY >10 To 20 Ton Jacking Equipment Charge By The Day	29.16	
34 05 43 00-0141 DAY >20 To 40 Ton Jacking Equipment Charge By The Day	58.31	
34 05 43 00-0142 DAY >40 To 60 Ton Jacking Equipment Charge By The Day	87.47	
34 05 43 00-0143 DAY >60 To 80 Ton Jacking Equipment Charge By The Day	116.63	
34 05 43 00-0144 DAY >80 To 100 Ton Jacking Equipment Charge By The Day	145.78	
34 05 43 00-0145 DAY >100 To 120 Ton Jacking Equipment Charge By The Day	174.94	
34 05 43 00-0146 DAY >120 To 140 Ton Jacking Equipment Charge By The Day	204.10	
34 05 43 00-0147 DAY >140 To 160 Ton Jacking Equipment Charge By The Day	233.25	
34 05 43 00-0148 DAY >160 To 250 Ton Jacking Equipment Charge By The Day	266.16	
34 05 43 00-0149 DAY >250 To 300 Ton Jacking Equipment Charge By The Day	303.42	
34 05 43 00-0150 DAY >300 To 400 Ton Jacking Equipment Charge By The Day	384.34	
34 05 43 00-0151 DAY >400 To 500 Ton Jacking Equipment Charge By The Day	456.40	
34 05 43 00-0152 DAY >500 To 600 Ton Jacking Equipment Charge By The Day	520.31	
34 05 43 00-0153 Temporary Shoring (34 05 43 00-0120) Note: Setup includes material use cost and initial erection. Setup is also used for relocation to the opposite abutment. Relocation includes moving and setup at a new jacking location. Takedown includes disassembly and removal from the site. Excludes earthwork and temporary stone.		
34 05 43 00-0154 HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring (34 05 43 00-0153)		
34 05 43 00-0155 EA HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup	2,573.94	
34 05 43 00-0156 EA HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	1,947.94	
34 05 43 00-0157 EA HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	374.01	
34 05 43 00-0158 HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring (34 05 43 00-0153)		
34 05 43 00-0159 EA HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup	2,613.49	
34 05 43 00-0160 EA HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	1,833.98	
34 05 43 00-0161 EA HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	358.79	
34 05 43 00-0162 HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring (34 05 43 00-0153)		
34 05 43 00-0163 EA HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup	1,574.70	
34 05 43 00-0164 EA HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	783.76	
34 05 43 00-0165 EA HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	228.41	
34 05 43 00-0166 HP14x117 Column Attached to Existing Footing, Permanent Steel Stiffeners, Braced by Angles Attached to Abutment Face, Temporary Shoring (34 05 43 00-0153)		
34 05 43 00-0167 EA HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup	4,636.75	
34 05 43 00-0168 EA HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	2,965.31	
34 05 43 00-0169 EA HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	614.79	
34 05 43 00-0170 Mat Supported HP12x63 Column, Braced by Channel and Angles, Attached to Existing 4" Diameter Concrete Column, Temporary Shoring (34 05 43 00-0153) Note: Excludes mats. See CSI section 01 22 23 00-0544 for mats.		
34 05 43 00-0171 EA Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4' Diameter Concrete Column, Temporary Shoring Setup	4,708.51	
Note: Excludes mats.		

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0172 EA Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4' Diameter Concrete Column, Temporary Shoring Relocation Note: Excludes mats.	1,907.89	
34 05 43 00-0173 EA Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4' Diameter Concrete Column, Temporary Shoring Take Down And Removal Note: Excludes mats.	938.37	
34 05 43 00-0174 Mat Supported HP12x53 Column, Braced by Channel and Angles, Attached to Abutment Face, Temporary Shoring <small>(34 05 43 00-0153)</small> Note: Excludes mats. See CSI section 01 22 23 00-0544 for mats.		
34 05 43 00-0175 EA Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup	1,860.91	
34 05 43 00-0176 EA Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation Note: Excludes mats.	572.02	
34 05 43 00-0177 EA Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal Note: Excludes mats.	321.67	
34 05 43 00-0178 MC18x51.9 Attached to Abutment Face, Temporary Wood Stiffeners, Temporary Shoring <small>(34 05 43 00-0153)</small>		
34 05 43 00-0179 EA MC18x51.9 Attached To Abutment Face, Temporary Shoring Setup	2,686.11	
34 05 43 00-0180 EA MC18x51.9 Attached To Abutment Face, Temporary Shoring Relocation	2,506.30	
34 05 43 00-0181 EA MC18x51.9 Attached To Abutment Face, Temporary Shoring Take Down And Removal	314.05	
34 05 43 00-0182 MC15x74 Attached to Abutment Face, Temporary Wood Stiffeners, Temporary Shoring <small>(34 05 43 00-0153)</small>		
34 05 43 00-0183 EA WT15x74 Attached To Abutment Face, Temporary Shoring Setup	1,933.11	
34 05 43 00-0184 EA WT15x74 Attached To Abutment Face, Temporary Shoring Relocation	1,783.05	
34 05 43 00-0185 EA WT15x74 Attached To Abutment Face, Temporary Shoring Take Down And Removal	258.86	
34 05 43 00-0186 Plates And Angles Connecting Existing Diaphragm To Existing Bearing Stiffener At Pedestrian Bridge Column, Temporary Shoring <small>(34 05 43 00-0153)</small>		
34 05 43 00-0187 EA Plates And Angles Connecting Existing Diaphragm To Existing Bearing Stiffener At Pedestrian Bridge, Temporary Shoring Setup Note: Left in place.	1,200.96	
34 05 43 00-0188 Temporary Bridge Shoring Components <small>(34 05 43 00-0153)</small> Note: For temporary shoring of columns and abutments associated with vertical jacking of structural members. Includes lifting equipment where appropriate. Excludes engineering and design. See CSI section 01 54 23 00-0040 for temporary lumber.		
34 05 43 00-0189 Fabricate, Install And Remove After Use Temporary Steel Bridge Shoring <small>(34 05 43 00-0188)</small> Note: Includes cutting, drilling and welds. Excludes gravel, mats, anchors, and bolts.		
34 05 43 00-0190 LF Fabricate And Install MC7 x 19.1 For Temorary Bridge Shoring	71.81	
34 05 43 00-0191 LF Fabricate And Install MC18 x 51.9 For Temorary Bridge Shoring Note: Remove after use.	178.81	
34 05 43 00-0192 LF Fabricate And Install HP12 x 53 For Temorary Bridge Shoring Note: Remove after use.	137.06	
34 05 43 00-0193 LF Fabricate And Install HP12 x 63 For Temorary Bridge Shoring Note: Remove after use.	152.54	
34 05 43 00-0194 LF Fabricate And Install 3" x 3" x 3/8" Angle Iron For Temorary Bridge Shoring..... Note: Remove after use.	23.42	
<i>For Galvanized Steel, Add</i>	6.39	
34 05 43 00-0195 LF Fabricate And Install 4" x 4" x 3/8" Angle Iron For Temorary Bridge Shoring..... Note: Remove after use.	29.95	
<i>For Galvanized Steel, Add</i>	8.69	
34 05 43 00-0196 LF Fabricate And Install 7" x 4" x 5/8" Angle Iron For Temorary Bridge Shoring..... Note: Remove after use.	61.10	
<i>For Galvanized Steel, Add</i>	19.65	
34 05 43 00-0197 LF Fabricate And Install 5" x 3-1/2" x 3/4" Angle Iron For Temorary Bridge Shoring Note: Remove after use.	53.13	
<i>For Galvanized Steel, Add</i>	17.61	
34 05 43 00-0198 LF Fabricate And Install 7" x 4" x 3/4" Angle Iron For Temorary Bridge Shoring..... Note: Remove after use.	70.31	
<i>For Galvanized Steel, Add</i>	23.30	
34 05 43 00-0199 SF Fabricate And Install 5/8" A36 Steel Plates For Temorary Bridge Shoring..... Note: Remove after use.	72.96	
<i>For A50 Grade Steel, Add</i>	1.85	
34 05 43 00-0200 SF Fabricate And Install 7/8" A36 Steel Plates For Temorary Bridge Shoring..... Note: Remove after use.	102.13	
<i>For A50 Grade Steel, Add</i>	2.59	
34 05 43 00-0201 SF Fabricate And Install 1-3/8" A36 Steel Plates For Temorary Bridge Shoring Note: Remove after use.	160.51	
<i>For A50 Grade Steel, Add</i>	4.07	
34 05 43 00-0202 SF Fabricate And Install 1-1/2" A36 Steel Plates For Temorary Bridge Shoring Note: Remove after use.	175.10	
<i>For A50 Grade Steel, Add</i>	4.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0203 Relocate Temporary Steel Bridge Shoring <small>(34 05 43 00-0188)</small>		
<i>Note: Includes removal after use.</i>		
34 05 43 00-0204 EA Relocate Complete Temporary Steel Bridge Shoring	4,087.89	
<i>Note: Remove after use. Includes relocating support mats. Excludes anchors, bolts or additional steel if required.</i>		
34 05 43 00-0205 SF Relocate 1-3/8" A36 Steel Plates For Temporary Bridge Shoring	79.09	
<i>Note: Remove after use.</i>		
34 05 43 00-0206 LF Relocate HP12 x 63 For Temporary Bridge Shoring	65.41	
<i>Note: Remove after use.</i>		
34 05 43 00-0207 LF Relocate 3" x 3" x 3/8" Angle Iron For Temporary Bridge Shoring	13.12	
<i>Note: Remove after use.</i>		
34 05 43 00-0208 LF Relocate 4" x 4" x 3/8" Angle Iron For Temporary Bridge Shoring	15.93	
<i>Note: Remove after use.</i>		
34 05 43 00-0209 LF Relocate 7" x 4" x 3/4" Angle Iron For Temporary Bridge Shoring	32.73	
<i>Note: Remove after use.</i>		
34 05 43 00-0210 SF Relocate 7/8" A36 Steel Plates For Temporary Bridge Shoring	50.32	
<i>Note: Remove after use.</i>		
34 05 43 00-0211 LF Relocate MC7 x 19.1 For Temporary Bridge Shoring	37.93	
<i>Note: Remove after use.</i>		
34 05 43 00-0212 LF Relocate HP12 x 53 For Temporary Bridge Shoring	64.05	
<i>Note: Remove after use.</i>		
34 05 43 00-0213 SF Relocate 5/8" A36 Steel Plates For Temporary Bridge Shoring	35.95	
<i>Note: Remove after use.</i>		
34 05 43 00-0214 LF Relocate 7" x 4" x 5/8" Angle Iron For Temporary Bridge Shoring	29.40	
<i>Note: Remove after use.</i>		
34 05 43 00-0215 SF Relocate 1-1/2" A36 Steel Plates For Temporary Bridge Shoring	86.28	
<i>Note: Remove after use.</i>		
34 05 43 00-0216 LF Relocate MC18 x 51.9 For Temporary Bridge Shoring	109.46	
<i>Note: Remove after use.</i>		
34 05 43 00-0217 LF Relocate 5" x 3-1/2" x 3/4" Angle Iron For Temporary Bridge Shoring	24.73	
<i>Note: Remove after use.</i>		
34 05 43 00-0218 Pier Caps And Pedestal Replacement For Bridges <small>(34 05 43)</small>		
<i>See CSI section 03 15 19 00-0001 for anchor bolts.</i>		
34 05 43 00-0219 SF Bridge Wood Formwork For Seats, Pedestals, Pier Caps And Miscellaneous Areas	26.08	
34 05 43 00-0220 CWT Rebar For Pier Cap Or Pedestals	387.34	
34 05 43 00-0221 CY Pour Pedestals	428.97	
34 05 43 00-0222 CY Demolish Concrete Pedestals	3,813.21	
34 05 43 00-0223 CY Pour Pier Cap	506.36	
34 05 43 00-0224 CY Demolish Concrete Pier Cap	4,384.78	
34 05 43 00-0225 Bridge Deck Repair <small>(34 05 43)</small>		
34 05 43 00-0226 Bridge Expansion Joint Repair <small>(34 05 43 00-0225)</small>		
<i>Note: Replace header with semi-flexible polymer nosing system. Includes saw cutting, chipping, sandblasting, forming, backer rod cleaning, primer and debris removal. Excludes disposal.</i>		
34 05 43 00-0227 CF Removal And Replacement Of Header With Semi-Flexible Polymer Nosing System	706.88	
34 05 43 00-0228 CF Removal And Replacement Of Header With Fast-Setting, Rapid-Hardening Structural Repair Mortar	230.99	
<i>Note: Includes saw cutting, drilling, removing concrete, forming, cleaning, primer, concrete material, reinforcing, dowels, debris removal and disposal. Excludes seal.</i>		
<i>For Up To 24, Add</i>	36.95	
34 05 43 00-0229 CF Removal And Replacement Of Header With Polyester-Based Polymer Patch	246.95	
<i>Note: Includes saw cutting, drilling, removing concrete, forming, cleaning, primer, concrete material, reinforcing, dowels, debris removal and disposal. Excludes seal.</i>		
<i>For Up To 24, Add</i>	38.55	
34 05 43 00-0230 CI Seal Expansion Joints With Rapid Cure Silicone	6.22	
34 05 43 00-0231 CI Seal Expansion Joints With Closed Cell Foam/EVA .....	.071	
34 05 43 00-0232 LF Seal Expansion Joints With "V" Shape Preformed Silicone	81.14	
34 05 43 00-0233 LF Seal Expansion Joints With "W" Shape Preformed Silicone	86.05	
34 05 43 00-0234 Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck <small>(34 05 43 00-0225)</small>		
<i>Note: Includes steel profile and neoprene seal element. Demolition includes saw cutting and disposal of existing strip seal but excludes concrete removal.</i>		
34 05 43 00-0235 LF 1-1/4" x 3-3/4" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck	165.41	
34 05 43 00-0236 LF 1-7/8" x 8" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck	188.21	
34 05 43 00-0237 LF 1-1/4" x 2" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck	159.62	
34 05 43 00-0238 LF 1" x 1-1/2" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck	157.48	
34 05 43 00-0239 Silicone Joint Sealant For Concrete Bridge Deck <small>(34 05 43 00-0225)</small>		
<i>Note: Installation includes saw cutting, high pressure water wash, sand blast, sweeping, cleaning area, backer rod and silicone sealant.</i>		
34 05 43 00-0240 LF 1" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck	20.56	
34 05 43 00-0241 LF 1-1/2" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck	25.00	

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0242 LF 2" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck	30.60	
34 05 43 00-0243 LF 2-1/2" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck	33.27	
34 05 43 00-0244 V Shaped Prefomed Extruded EPDM Expansion Joint For Concrete Bridge Deck <small>(34 05 43 00-0225)</small>		
Note: Includes saw cutting, sand blasting, conditioner, epoxy, and backer rod.		
34 05 43 00-0245 LF 3" Remove And Replace V Shaped Prefomed Extruded EPDM Expansion Joint For Concrete Bridge Deck	70.63	
34 05 43 00-0246 LF 4" Remove And Replace V Shaped Prefomed Extruded EPDM Expansion Joint For Concrete Bridge Deck	74.54	
34 05 43 00-0247 J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck <small>(34 05 43 00-0225)</small>		
Note: Includes saw cutting, sand blasting, conditioner, and epoxy.		
34 05 43 00-0248 LF 2" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	70.99	
34 05 43 00-0249 LF 2-1/2" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	83.59	
34 05 43 00-0250 LF 3" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	102.19	
34 05 43 00-0251 LF 3-1/2" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	122.86	
34 05 43 00-0252 LF 4" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	136.70	
34 05 43 00-0253 LF 5" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	246.47	
34 05 43 00-0254 Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck <small>(34 05 43 00-0225)</small>		
Note: Includes saw cutting, sand blasting, and lubricant adhesive.		
34 05 43 00-0255 LF 1-1/4" x 1-1/4" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	39.82	
34 05 43 00-0256 LF 1-5/8" x 1-7/8" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	43.04	
34 05 43 00-0257 LF 1-3/4" x 1-3/4" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	44.93	
34 05 43 00-0258 LF 2" x 2" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	47.17	
34 05 43 00-0259 LF 2-1/2" x 2-1/2" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	52.67	
34 05 43 00-0260 LF 3" x 3-1/4" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	59.70	
34 05 43 00-0261 LF 3-1/2" x 3-1/2" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	69.33	
34 05 43 00-0262 LF 4" x 4" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	79.13	
34 05 43 00-0263 LF 4-1/2" x 4-1/2" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	83.41	
34 05 43 00-0264 LF 5" x 5" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	94.63	
34 05 43 00-0265 LF 6" x 6" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	131.91	
34 05 43 00-0266 Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck <small>(34 05 43 00-0225)</small>		
Note: Includes saw cutting, sand blasting and epoxy.		
34 05 43 00-0267 LF 1/2" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	37.50	
34 05 43 00-0268 LF 5/8" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	38.61	
34 05 43 00-0269 LF 3/4" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	39.72	
34 05 43 00-0270 LF 1" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	41.21	
34 05 43 00-0271 LF 1-1/4" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	42.74	
34 05 43 00-0272 LF 1-1/2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	62.76	
34 05 43 00-0273 LF 1-3/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	67.00	
34 05 43 00-0274 LF 2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	69.67	
34 05 43 00-0275 LF 2-1/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	74.00	
34 05 43 00-0276 LF 2-1/2" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	78.91	
34 05 43 00-0277 LF 2-3/4" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	84.06	
34 05 43 00-0278 LF 3" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	86.63	
34 05 43 00-0279 LF 3-1/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	95.51	
34 05 43 00-0280 LF 3-1/2" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	102.83	
34 05 43 00-0281 LF 3-3/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	109.08	
34 05 43 00-0282 LF 4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	111.75	
34 05 43 00-0283 EA 3/4" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	141.47	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0284 EA 1" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	146.06	
34 05 43 00-0285 EA 1-1/4" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	170.30	
34 05 43 00-0286 EA 1-1/2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	177.89	
34 05 43 00-0287 EA 1-3/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	183.78	
34 05 43 00-0288 EA 2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	211.76	
34 05 43 00-0289 EA 2-1/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	217.54	
34 05 43 00-0290 EA 2-1/2" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	224.34	
34 05 43 00-0291 EA 2-3/4" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	231.53	
34 05 43 00-0292 EA 3" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	267.67	
34 05 43 00-0293 EA 3-1/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	281.28	
34 05 43 00-0294 EA 3-1/2" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	292.22	
34 05 43 00-0295 EA 3-3/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	301.32	
34 05 43 00-0296 EA 4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck	304.99	
 34 05 43 00-0297 Remove Existing Steel Joint System (34 05 43 00-0225)		
34 05 43 00-0298 LF Removal Of Existing Steel Joint System	57.10	
 34 05 43 00-0299 Break-Up And Remove Bridge Decking By Machine (34 05 43 00-0225)		
Note: Includes work around obstacles, breaking into manageable sizes by machine and loading into truck, dumpster or moving material to stockpile. Excludes saw cutting, See CSI section 02 41 19 13-0057 for saw cutting.		
34 05 43 00-0300 SY Break-Up And Remove Up To 3" Thick Bituminous Pavement Bridge Decking By Machine	19.14	
For >500 To 1,000, Deduct	-1.91	
For >1,000 To 2,500, Deduct	-3.45	
For >2,500 To 5,000, Deduct	-4.98	
For >5,000 To 10,000, Deduct	-6.51	
For >10,000, Deduct	-8.04	
34 05 43 00-0301 SY Break-Up And Remove >3" To 6" Thick Bituminous Pavement Bridge Decking By Machine	26.14	
For >500 To 1,000, Deduct	-2.61	
For >1,000 To 2,500, Deduct	-4.71	
For >2,500 To 5,000, Deduct	-6.80	
For >5,000 To 10,000, Deduct	-8.89	
For >10,000, Deduct	-10.98	
34 05 43 00-0302 SY Break-Up And Remove To 3" Thick Concrete With Reinforcing Bridge Decking By Machine	31.70	
For >500 To 1,000, Deduct	-3.17	
For >1,000 To 2,500, Deduct	-5.71	
For >2,500 To 5,000, Deduct	-8.24	
For >5,000 To 10,000, Deduct	-10.78	
For >10,000, Deduct	-13.31	
34 05 43 00-0303 SY Break-Up And Remove > 3" To 6" Thick Concrete With Reinforcing Bridge Decking By Machine	40.77	
For >500 To 1,000, Deduct	-4.08	
For >1,000 To 2,500, Deduct	-7.34	
For >2,500 To 5,000, Deduct	-10.60	
For >5,000 To 10,000, Deduct	-13.86	
For >10,000, Deduct	-17.12	
34 05 43 00-0304 SY Break-Up And Remove > 6" To 9" Thick Concrete With Reinforcing Bridge Decking By Machine	72.89	
For >500 To 1,000, Deduct	-7.29	
For >1,000 To 2,500, Deduct	-13.12	
For >2,500 To 5,000, Deduct	-18.95	
For >5,000 To 10,000, Deduct	-24.78	
For >10,000, Deduct	-30.61	
34 05 43 00-0305 SY Break-Up And Remove >9" To 14" Thick Concrete With Reinforcing Bridge Decking By Machine	95.12	
For >500 To 1,000, Deduct	-9.51	
For >1,000 To 2,500, Deduct	-17.12	
For >2,500 To 5,000, Deduct	-24.73	
For >5,000 To 10,000, Deduct	-32.34	
For >10,000, Deduct	-39.95	
34 05 43 00-0306 SY Break-Up And Remove >14" To 19" Thick Concrete With Reinforcing Bridge Decking By Machine	124.36	
For >500 To 1,000, Deduct	-12.44	
For >1,000 To 2,500, Deduct	-22.38	
For >2,500 To 5,000, Deduct	-32.33	
For >5,000 To 10,000, Deduct	-42.28	
For >10,000, Deduct	-52.23	
34 05 43 00-0307 SY Break-Up And Remove >19" To 24" Thick Concrete With Reinforcing Bridge Decking By Machine	150.93	
For >500 To 1,000, Deduct	-15.09	
For >1,000 To 2,500, Deduct	-27.17	
For >2,500 To 5,000, Deduct	-39.24	
For >5,000 To 10,000, Deduct	-51.32	
For >10,000, Deduct	-63.39	

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

34 05 43 00-0308		Break-Up And Remove Bridge Decking By Hand <small>(34 05 43 00-0225)</small> Note: Includes work around obstacles. Work includes breaking into manageable size with jackhammer and hand tools, removal and loading onto a truck or dumpster. For individual work areas up to 100 SF where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. Excludes saw cutting. See CSI section 02 41 19 13-0057 for saw cutting.		
34 05 43 00-0309	SF	Break-Up And Remove 1" To 3" Thick Bituminous Pavement Bridge Decking By Hand Note: Includes jackhammer and hand tools.	11.48	
34 05 43 00-0310	SF	Break-Up And Remove >3" To 6" Thick Bituminous Pavement Bridge Decking By Hand Note: Includes jackhammer and hand tools.	15.10	
34 05 43 00-0311	SF	Break-Up And Remove >6" To 8" Thick Bituminous Pavement Bridge Decking By Hand Note: Includes jackhammer and hand tools.	19.64	
34 05 43 00-0312	SF	Break-Up And Remove 1" To 3" Thick Concrete Bridge Decking By Hand..... Note: Includes jackhammer and hand tools.	14.34	
34 05 43 00-0313	SF	Break-Up And Remove >3" To 6" Thick Concrete Bridge Decking By Hand..... Note: Includes jackhammer and hand tools.	17.93	
34 05 43 00-0314	SF	Break-Up And Remove >6" To 8" Thick Concrete Bridge Decking By Hand..... Note: Includes jackhammer and hand tools.	21.52	
34 05 43 00-0315	SF	Chipping And Cleaning Of Bridge Deck After Break-up And Removals.....	5.18	
34 05 43 00-0316		Hydro Blasting Of Bridge Decks <small>(34 05 43 00-0225)</small> Note: Excludes hauling and disposal of water and debris.		
34 05 43 00-0317	EA	Mobilization Of Hydro Blasting Equipment..... Note: Includes trailer with power, hydro milling machine, vacuum machine.	12,104.41	
34 05 43 00-0318	EA	Mobilization Of Hydro Blasting Equipment..... Note: Includes water tank, pump and miscellaneous fittings.	1,572.00	
34 05 43 00-0319	SF	Hydroblasting Of Up To 2-1/2" Of Bridge Decks.....	10.83	
34 05 43 00-0320	SF	Vacuuming And Cleaning Of Bridge Decks Up To 2-1/2", Following Hydroblasting.....	8.01	
34 05 43 00-0321	SF	Chipping And Cleaning Of Bridge Deck After Hydroblasting And Vacuum Up To 2-1/2".....	1.98	
34 05 43 00-0322	SF	Hydroblasting 3" To 4-1/2" Of Bridge Decks.....	16.01	
34 05 43 00-0323	SF	Vacuuming And Cleaning Of Bridge Decks 3" To 4-1/2", Following Hydroblasting.....	10.83	
34 05 43 00-0324	SF	Chipping And Cleaning Of Bridge Deck After Hydroblasting And Vacuum 3" To 4-1/2".....	5.18	
34 05 43 00-0325	GAL	Water For Hydro Blasting..... Note: Includes delivery.	0.15	
34 05 43 00-0326		Patch For Bridge Deck <small>(34 05 43 00-0225)</small>		
34 05 43 00-0327	CF	Fast-Setting, Rapid-Hardening Structural Repair Mortar For Bridge Deck..... Note: Includes forming, cleaning, primer, and concrete material. Excludes reinforcing, dowels, and seal.	128.90	
34 05 43 00-0328	CF	Polyester-Based Polymer Patch For Bridge Deck..... Note: Includes forming, cleaning, primer, and concrete material. Excludes reinforcing, dowels, and seal.	144.85	
34 05 43 00-0329	SF	Hand Placed Hot Mixed Asphalt Repair For Bridge Approach..... Note: Includes removal of HMA, tack coat, and installation of HMA and compaction by roller.	21.80	
34 05 43 00-0330		Pressure Washing For Bridge Deck <small>(34 05 43 00-0225)</small>		
34 05 43 00-0331	SF	Pressure Washing For Bridge Deck..... Note: Includes pressure washer and water.	0.08	
34 05 43 00-0332		Galvanic Anodes <small>(34 05 43)</small>		
34 05 43 00-0333	EA	2.6" Diameter x 1.2" Deep , Anode Type 1A Class P, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP)..... Note: Corrosion prevention only (preventing the initiation of corrosion).	41.10	
34 05 43 00-0334	EA	4.9" Long x 1.0" Wide x 1.0" Deep , Anode Type 1A Class P, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XPT)..... Note: Corrosion prevention only (preventing the initiation of corrosion).	41.10	
34 05 43 00-0335	EA	2.8" Long x 2.4" Wide x 1.2" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP2)..... Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).	46.85	
34 05 43 00-0336	EA	4.3" Long x 2.2" Wide x 1.2" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP4)..... Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).	51.22	
34 05 43 00-0337	EA	2.5" Diameter x 1.1" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP+)..... Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).	46.85	
34 05 43 00-0338	EA	1-3/4" Diameter x 2-1/2" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC65)..... Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).	48.31	
34 05 43 00-0339	EA	1-3/4" Diameter x 4" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC100)..... Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).	58.49	
34 05 43 00-0340	EA	1-1/8" Diameter x 5-3/8" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC135)..... Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).	54.13	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0341 Bridge Netting Panels <small>(34 05 43)</small>		
34 05 43 00-0342 SF Bridge Netting Panel.....	7.03	
<i>Note: Includes cable, beam clamps to attach to the bridge structure without the need for drilling/welding and snap hooks for attaching the net.</i>		
<i>For Up To 160, Add</i>	<i>8.24</i>	
<i>For >160 To 320, Add</i>	<i>4.12</i>	
<i>For >320 To 480, Add</i>	<i>2.06</i>	
<i>For >2,000 To 10,000, Deduct</i>	<i>-0.30</i>	
<i>For >10,000 To 25,000, Deduct</i>	<i>-0.60</i>	
<i>For >25,000, Deduct</i>	<i>-0.90</i>	
34 05 43 00-0343 Anchors <small>(34 05 43)</small>		
<i>Note: Excludes core drilling. See CSI section 02 41 19 13-0080 for core drilling.</i>		
34 05 43 00-0344 Threaded Rod, A449 <small>(34 05 43 00-0343)</small>		
34 05 43 00-0345 LF 7/8" Diameter Continuous Threaded Rod, A449.....	15.05	
34 05 43 00-0346 LF 1" Diameter Continuous Threaded Rod, A449.....	17.89	
34 05 43 00-0347 LF 1-1/8" Diameter Continuous Threaded Rod, A449.....	20.68	
34 05 43 00-0348 LF 1-1/4" Diameter Continuous Threaded Rod, A449.....	26.02	
34 05 43 00-0349 Flat Washers, F436 <small>(34 05 43 00-0343)</small>		
34 05 43 00-0350 EA 7/8" Flat Washer, F436.....	1.76	
34 05 43 00-0351 EA 1" Flat Washer, F436.....	2.04	
34 05 43 00-0352 EA 1-1/8" Flat Washer, F436.....	2.23	
34 05 43 00-0353 EA 1-1/4" Flat Washer, F436.....	2.55	
34 05 43 00-0354 Heavy Hex Nut, A194 <small>(34 05 43 00-0343)</small>		
34 05 43 00-0355 EA 7/8" Hex Nut, A194.....	3.44	
34 05 43 00-0356 EA 1" Hex Nut, A194.....	4.60	
34 05 43 00-0357 EA 1-1/8" Hex Nut, A194.....	5.45	
34 05 43 00-0358 EA 1-1/4" Hex Nut, A194.....	6.48	
34 05 43 00-0359 Grout For Threaded Rod <small>(34 05 43 00-0343)</small>		
34 05 43 00-0360 IN Grout 7/8" Rod In Hole.....	2.58	
34 05 43 00-0361 IN Grout 1" Rod In Hole.....	2.94	
34 05 43 00-0362 IN Grout 1-1/8" Rod In Hole.....	3.43	
34 05 43 00-0363 IN Grout 1-1/4" Rod In Hole.....	4.11	
34 05 43 00-0364 Test Grouted Anchor <small>(34 05 43 00-0343)</small>		
34 05 43 00-0365 EA Test Grouted Anchor.....	24.51	
34 05 43 00-0366 Removal Of Fasteners Or Anchors In Concrete <small>(34 05 43 00-0343)</small>		
<i>Note: Includes removal of damaged, chemically adhered or mechanically fastened bolts, studs, threaded rod or concrete anchors with a carbide drill bit.</i>		
34 05 43 00-0367 EA Drill Out 3/8" Diameter Fastener/Anchor In Concrete.....	23.03	
34 05 43 00-0368 EA Drill Out 1/2" Diameter Fastener/Anchor In Concrete.....	24.76	
34 05 43 00-0369 EA Drill Out 9/16" Diameter Fastener/Anchor In Concrete.....	25.88	
34 05 43 00-0370 EA Drill Out 5/8" Diameter Fastener/Anchor In Concrete.....	28.02	
34 05 43 00-0371 EA Drill Out 3/4" Diameter Fastener/Anchor In Concrete.....	30.66	
34 05 43 00-0372 EA Drill Out 7/8" Diameter Fastener/Anchor In Concrete.....	33.86	
34 05 43 00-0373 EA Drill Out 1" Diameter Fastener/Anchor In Concrete.....	35.79	
34 05 43 00-0374 EA Drill Out 1-1/8" Diameter Fastener/Anchor In Concrete.....	38.03	
34 05 43 00-0375 EA Drill Out 1-1/4" Diameter Fastener/Anchor In Concrete.....	40.81	
34 05 43 00-0376 EA Drill Out 1-1/2" Diameter Fastener/Anchor In Concrete.....	45.84	
34 05 43 00-0377 Bridge Surfacing <small>(34 05 43)</small>		
34 05 43 00-0378 Bridge Coatings <small>(34 05 43 00-0377)</small>		
<i>Note: Includes sweeping of bridge deck.</i>		
34 05 43 00-0379 SF Penetrating Corrosion Inhibitor Sealer For Bridge Decks (Two Coats).....	0.89	
<i>Note: Includes power washing and drying after power washing.</i>		
34 05 43 00-0380 SF Protective Seal Coat For Existing Bridge Decks.....	1.70	
34 05 43 00-0381 SF Penetrating Sealer For Existing Bridge Decks.....	2.76	
34 05 43 00-0382 Bridge Membranes <small>(34 05 43 00-0377)</small>		
<i>Note: Excludes abrasive blasting of deck.</i>		
34 05 43 00-0383 SF Spray Applied Waterproofing Membrane For Bridge Decks.....	11.07	
34 05 43 00-0384 SF Sheet Applied Waterproofing Membrane For Bridge Decks.....	3.14	
34 05 43 00-0385 Sealer And Overlay For Bridge Deck <small>(34 05 43 00-0377)</small>		
<i>Note: Excludes sweeping, cleaning and abrasive blasting.</i>		

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0386 SY Shot Blasting Bridge Decks.....	12.18	
Note: Includes steel ball media. Includes air cleaning of deck surface after shot blasting.		
34 05 43 00-0387 SY Thin Polymer (Epoxy) Overlay For Bridge Deck.....	67.90	
Note: Includes epoxy overlay applied in two coats with aggregate.		
34 05 43 00-0388 SY 3/4" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	129.05	
Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0389 SY 1" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	145.48	
Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0390 SY 1-1/2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	183.11	
Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0391 SY 2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	220.75	
Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0392 SY 2-1/2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	258.37	
Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0393 SY 3" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	296.01	
Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0394 Broadcast Silica Sand (34 05 43 00-0377)		
Note: Includes removing loose sand..		
34 05 43 00-0395 SF Broadcast Silica Sand.....	0.24	
34 05 43 00-0396 Sweeping And Cleaning Of Bridge Deck (34 05 43 00-0377)		
See CSI section 01 22 23 00-1219 for water trucks, 01 22 23 00-1237 for vacuum sweeper trucks.		
34 05 43 00-0397 Concrete Overlay For Bridge Deck (34 05 43 00-0377)		
Note: Includes sweeping and cleaning. Excludes abrasive blasting.		
34 05 43 00-0398 SY 3" Concrete Overlay For Bridge Deck	157.78	
For DOT Class DP, Add	31.79	
For DOT Class E, Add	10.37	
For DOT Class HP, Add	30.35	
34 05 43 00-0399 Bridge Roadway Grooving (34 05 43 00-0377)		
34 05 43 00-0400 EA Up To 500 SY Of Bridge Pavement Grooving, Concrete, Longitudinal	3,568.08	
34 05 43 00-0401 SY Each SY Over First 500 SY Of Bridge Pavement Grooving, Concrete, Longitudinal	5.78	
34 05 43 00-0402 EA Up To 500 SY Of Bridge Pavement Grooving, Concrete, Traverse	3,974.97	
34 05 43 00-0403 SY Each SY Over First 500 SY Of Bridge Pavement Grooving, Concrete, Traverse	7.54	
34 05 43 00-0404 Gravity Fed Concrete Crack Repair (34 05 43 00-0377)		
Note: Includes removing loose materials and cleaning.		
34 05 43 00-0405 LF Epoxy Low Viscosity Gravity Fed Concrete Crack Repair.....	2.93	
34 05 43 00-0406 LF HMWM Low Viscosity Gravity Fed Concrete Crack Repair.....	3.47	
34 05 43 00-0407 Concrete Pumping With Boom Truck (34 05 43 00-0377)		
See CSI section 03 31 13 00-0010 for concrete delivery for small quantities, 03 37 16 00-0001 for concrete pump truck.		
34 05 43 00-0408 Bridge Girder Repair (34 05 43)		
34 05 43 00-0409 Bridge Girder Repair (34 05 43 00-0408)		
Note: Does not include mobilization of bridge jacking crew. See CSI section 05 05 23 00-0040 for bolts, nuts and washers, 05 12 23 00-0000 for additional steel shapes, angles and channels.		
34 05 43 00-0410 HR UT, MT, PT Testing.....	75.00	
Note: Does not include mileage to job site.		
34 05 43 00-0411 EA Mobilization of Bridge Girder Repair Crew	2,166.32	
34 05 43 00-0412 LF 3" x 3" x 1/4" Angle Iron For Bridge Repair	13.68	4.99
Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
For Fractured Critical, Add	20.00	
For Stainless Steel, Add	22.43	
For Aluminum, Add	1.26	
For Galvanized Steel, Add	4.35	
34 05 43 00-0413 LF 4" x 4" x 1/4" Angle Iron For Bridge Repair	17.60	6.09
Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
For Fractured Critical, Add	20.00	
For Stainless Steel, Add	30.30	
For Aluminum, Add	1.70	
For Galvanized Steel, Add	5.87	
34 05 43 00-0414 LF 3" x 3" x 3/8" Angle Iron For Bridge Repair	17.79	5.62
Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
For Fractured Critical, Add	20.00	
For Stainless Steel, Add	32.96	
For Aluminum, Add	1.85	
For Galvanized Steel, Add	6.39	
34 05 43 00-0415 LF 4" x 4" x 3/8" Angle Iron For Bridge Repair	23.13	6.83
Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
For Fractured Critical, Add	20.00	
For Stainless Steel, Add	44.86	
For Aluminum, Add	2.52	
For Galvanized Steel, Add	8.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0416 LF 6" x 4" x 3/8" Angle Iron For Bridge Repair	29.54	8.92
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	56.48	
<i>For Aluminum, Add</i>	3.18	
<i>For Galvanized Steel, Add</i>	10.94	
34 05 43 00-0417 LF 6" x 6" x 3/8" Angle Iron For Bridge Repair	33.27	8.92
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	68.42	
<i>For Aluminum, Add</i>	3.85	
<i>For Galvanized Steel, Add</i>	13.26	
34 05 43 00-0418 LF 6" x 6" x 1/2" Angle Iron For Bridge Repair	44.07	11.97
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	89.95	
<i>For Aluminum, Add</i>	5.06	
<i>For Galvanized Steel, Add</i>	17.43	
34 05 43 00-0419 LF 7" x 4" x 5/8" Angle Iron For Bridge Repair	48.52	12.62
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	101.44	
<i>For Aluminum, Add</i>	5.71	
<i>For Galvanized Steel, Add</i>	19.65	
34 05 43 00-0420 LF 5" x 3-1/2" x 3/4" Angle Iron For Bridge Repair	42.53	10.60
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	90.88	
<i>For Aluminum, Add</i>	5.11	
<i>For Galvanized Steel, Add</i>	17.61	
34 05 43 00-0421 LF 6" x 4" x 3/4" Angle Iron For Bridge Repair	50.70	12.64
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	108.35	
<i>For Aluminum, Add</i>	6.09	
<i>For Galvanized Steel, Add</i>	20.99	
34 05 43 00-0422 LF 7" x 4" x 3/4" Angle Iron For Bridge Repair	56.28	14.03
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	120.26	
<i>For Aluminum, Add</i>	6.76	
<i>For Galvanized Steel, Add</i>	23.30	
34 05 43 00-0423 LF 8" x 6" x 7/8" Angle Iron For Bridge Repair	82.15	19.53
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	179.52	
<i>For Aluminum, Add</i>	10.10	
<i>For Galvanized Steel, Add</i>	34.78	
34 05 43 00-0424 LF C4 x 5.4 - 4" Wide Channels For Bridge Repair	16.31	6.42
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	24.80	
<i>For Aluminum, Add</i>	1.40	
<i>For Galvanized Steel, Add</i>	4.81	
34 05 43 00-0425 LF C6 x 8.2 - 6" Wide Channels For Bridge Repair	23.75	9.00
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	37.63	
<i>For Aluminum, Add</i>	2.12	
<i>For Galvanized Steel, Add</i>	7.29	
34 05 43 00-0426 LF C8 x 11.5 - 8" Wide Channels For Bridge Repair	32.20	11.78
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	52.80	
<i>For Aluminum, Add</i>	2.97	
<i>For Galvanized Steel, Add</i>	10.23	
34 05 43 00-0427 LF C10 x 15.3 - 10" Wide Channels For Bridge Repair	42.84	15.66
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	70.24	
<i>For Aluminum, Add</i>	3.95	
<i>For Galvanized Steel, Add</i>	13.61	
34 05 43 00-0428 LF C12 x 20.7 - 12" Wide Channels For Bridge Repair	57.96	21.20
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	95.01	
<i>For Aluminum, Add</i>	5.34	
<i>For Galvanized Steel, Add</i>	18.41	
34 05 43 00-0429 LF C15 x 33.9 - 15" Wide Channels For Bridge Repair	94.92	34.71
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	155.62	
<i>For Aluminum, Add</i>	8.75	
<i>For Galvanized Steel, Add</i>	30.15	

34 Transportation
34 05 Common Work Results for Transportation
34 05 43 Common Work Results for Bridges



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0430 SF 1/2" A36 Steel Plates For Bridge Repair	43.99	13.67
For A50 Grade Steel, Add	1.48	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0431 SF 5/8" A36 Steel Plates For Bridge Repair	54.98	17.07
For A50 Grade Steel, Add	1.85	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0432 SF 3/4" A36 Steel Plates For Bridge Repair	65.98	20.39
For A50 Grade Steel, Add	2.22	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0433 SF 7/8" A36 Steel Plates For Bridge Repair	76.97	23.91
For A50 Grade Steel, Add	2.59	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0434 SF 1" A36 Steel Plates For Bridge Repair	87.98	27.32
For A50 Grade Steel, Add	2.96	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0435 SF 1-1/4" A36 Steel Plates For Bridge Repair	109.97	34.16
For A50 Grade Steel, Add	3.70	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0436 SF 1-3/8" A36 Steel Plates For Bridge Repair	120.96	37.57
For A50 Grade Steel, Add	4.07	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0437 SF 1-1/2" A36 Steel Plates For Bridge Repair	131.96	40.99
For A50 Grade Steel, Add	4.44	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0438 CWT Removal Of Existing Steel For Bridge Repair A36	58.62	
Note: For use with angles, channels and steel plates up to 5' x 5'.		
For Removal Over 30' To 50', Add	11.72	
For Removal Over 50' To 75', Add	20.52	
For Removal Over 75', Add	29.31	
34 05 43 00-0439 TON Removal Of Existing Steel For Bridge Repair A36	781.69	
Note: For use with I-beams, floor beams and plates over 5' x 5'.		
For Removal Over 30' To 50', Add	156.34	
For Removal Over 50' To 75', Add	273.59	
For Removal Over 75', Add	390.85	
34 05 43 00-0440 CWT Miscellaneous Steel For Bridge Repair A36	324.97	
Note: For use with angles, channels and steel plates up to 5' x 5'.		
For A50 Grade Steel, Add	53.27	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
34 05 43 00-0441 TON Miscellaneous Steel For Bridge Repair A36	5,153.58	
Note: For use with I-beams, floor beams and plates over 5' x 5'.		
For A50 Grade Steel, Add	874.38	
Cutting Fee For I-beams, Floor Beams And Plates Over 5'x5', Add Per Each Piece	30.00	
34 05 43 00-0442 EA Field Or Shop Drilled Holes In Miscellaneous Steel For Bridge Repair Up To 15/16" Diameter	33.21	
Note: Per each hole drilled per steel member.		
34 05 43 00-0443 EA Field Or Shop Drilled Holes In Miscellaneous Steel For Bridge Repair >15/16" Diameter	43.10	
Note: Per each hole drilled per steel member.		
34 05 43 00-0444 EA Bolts A325 For Steel Repair Connections Up To 7/8"	28.09	1.91
34 05 43 00-0445 EA Bridge Girder Rivet Removal	295.05	
34 05 43 00-0446 LF Up To 1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting	6.04	
Note: Includes rust or scale removal.		
34 05 43 00-0447 LF >1/2" To 1" Thick Edge Grinding, Smoothing Surface After Torch Cutting	10.80	
Note: Includes rust or scale removal.		
34 05 43 00-0448 LF >1" To 1-1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting	15.55	
Note: Includes rust or scale removal.		
34 05 43 00-0449 LF >1-1/2" To 2" Thick Edge Grinding, Smoothing Surface After Torch Cutting	20.31	
Note: Includes rust or scale removal.		
34 05 43 00-0450 LF >2" To 2-1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting	25.07	
Note: Includes rust or scale removal.		
34 05 43 00-0451 LF >2-1/2" To 3" Thick Edge Grinding, Smoothing Surface After Torch Cutting	29.83	
Note: Includes rust or scale removal.		
34 05 43 00-0452 Cleaning And Preparation Of Painted And Unpainted Metal Surfaces <small>(34 05 43 00-0408)</small>		
34 05 43 00-0453 SF Loose Mill Scale With Fine Powder, Commercial Blast, Surface Preparation, Bridge Girder Repair	0.93	
For Up To 100, Add	0.59	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 15,000, Deduct	-0.09	
For >15,000 To 30,000, Deduct	-0.14	
For >30,000, Deduct	-0.18	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0454 SF Tight Mill Scale With Fine Powder Rust, Commercial Blast, Surface Preparation, Bridge Girder Repair.....	1.26	
For Up To 100, Add	0.79	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 15,000, Deduct	-0.12	
For >15,000 To 30,000, Deduct	-0.18	
For >30,000, Deduct	-0.24	
34 05 43 00-0455 SF Exterior Coating Blistered Pitted, Rust, Commercial Blast, Surface Preparation, Bridge Girder Repair	1.86	
For Up To 100, Add	1.19	
For >100 To 250, Add	0.55	
For >250 To 500, Add	0.24	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 15,000, Deduct	-0.17	
For >15,000 To 30,000, Deduct	-0.27	
For >30,000, Deduct	-0.36	
34 05 43 00-0456 SF Badly Pitted With Rust Nodules, Commercial Blast, Surface Preparation, Bridge Girder Repair.....	3.11	
For Up To 100, Add	1.97	
For >100 To 250, Add	0.92	
For >250 To 500, Add	0.39	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 15,000, Deduct	-0.29	
For >15,000 To 30,000, Deduct	-0.45	
For >30,000, Deduct	-0.60	
34 05 43 00-0457 SF Loose Mill Scale With Fine Powder Rust, Near White Blast, Surface Preparation, Bridge Girder Repair	2.36	
For Up To 100, Add	1.48	
For >100 To 250, Add	0.69	
For >250 To 500, Add	0.30	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 15,000, Deduct	-0.22	
For >15,000 To 30,000, Deduct	-0.34	
For >30,000, Deduct	-0.45	
34 05 43 00-0458 SF Tight Mill Scale Little Rust, Near White Blast, Surface Preparation, Bridge Girder Repair	2.92	
For Up To 100, Add	1.82	
For >100 To 250, Add	0.85	
For >250 To 500, Add	0.36	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 15,000, Deduct	-0.27	
For >15,000 To 30,000, Deduct	-0.42	
For >30,000, Deduct	-0.56	
34 05 43 00-0459 SF Exterior Coat Blistered Pitted Rust, Near White Blast, Surface Preparation, Bridge Girder Repair	3.79	
For Up To 100, Add	2.36	
For >100 To 250, Add	1.10	
For >250 To 500, Add	0.47	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 15,000, Deduct	-0.35	
For >15,000 To 30,000, Deduct	-0.55	
For >30,000, Deduct	-0.73	
34 05 43 00-0460 SF Badly Pitted Rust Nodules, Near White Blast, Surface Preparation, Bridge Girder Repair	4.74	
For Up To 100, Add	2.96	
For >100 To 250, Add	1.38	
For >250 To 500, Add	0.59	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 15,000, Deduct	-0.44	
For >15,000 To 30,000, Deduct	-0.69	
For >30,000, Deduct	-0.91	
34 05 43 00-0461 Galvanized Anchor Bolts For Bridge Bearings <small>(34 05 43 00-0408)</small>		
34 05 43 00-0462 EA 1/2" Diameter x 6" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	7.65	
34 05 43 00-0463 EA 1/2" Diameter x 12" Long, J-Type Galvanized Anchor Bolts For Bridge Bearings	13.01	
34 05 43 00-0464 EA 1/2" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	15.57	
34 05 43 00-0465 EA 5/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	17.69	
34 05 43 00-0466 EA 5/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	21.49	
34 05 43 00-0467 EA 5/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	24.16	
34 05 43 00-0468 EA 3/4" Diameter x 8" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	24.07	
34 05 43 00-0469 EA 3/4" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	27.48	
34 05 43 00-0470 EA 3/4" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	33.40	
34 05 43 00-0471 EA 3/4" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	40.28	
34 05 43 00-0472 EA 7/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	31.68	
34 05 43 00-0473 EA 7/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	37.22	
34 05 43 00-0474 EA 7/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	47.15	
34 05 43 00-0475 EA 1" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	39.02	
34 05 43 00-0476 EA 1" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	46.41	
34 05 43 00-0477 EA 1" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	57.25	
34 05 43 00-0478 EA 1" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	70.54	
34 05 43 00-0479 EA 1-1/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	46.51	
34 05 43 00-0480 EA 1-1/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	55.38	
34 05 43 00-0481 EA 1-1/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	68.41	
34 05 43 00-0482 EA 1-1/8" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	84.22	
34 05 43 00-0483 EA 1-1/4" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	55.82	
34 05 43 00-0484 EA 1-1/4" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	66.52	
34 05 43 00-0485 EA 1-1/4" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	82.28	
34 05 43 00-0486 EA 1-1/4" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	101.19	
34 05 43 00-0487 EA 1-1/2" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	67.45	

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0488 EA 1-1/2" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	80.44	
34 05 43 00-0489 EA 1-1/2" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	99.62	
34 05 43 00-0490 EA 1-1/2" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	122.45	
34 05 43 00-0491 Welding For Bridge Repair (34 05 43 00-0408)		
34 05 43 00-0492 EA Minimum Charge For Welding For Bridge Repair	1,562.95	
Note: For projects where the total welding charge is less than the minimum charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.		
34 05 43 00-0493 LF 3/16" Fillet Welding For Bridge Repair	13.65	
<i>For Full Penetration Weld, Add</i>		
	5.20	
34 05 43 00-0494 LF 1/4" Fillet Welding For Bridge Repair	20.50	
<i>For Full Penetration Weld, Add</i>		
	7.80	
34 05 43 00-0495 LF 5/16" Fillet Welding For Bridge Repair	27.34	
<i>For Full Penetration Weld, Add</i>		
	10.39	
34 05 43 00-0496 LF 3/8" Fillet Welding For Bridge Repair	34.16	
<i>For Full Penetration Weld, Add</i>		
	13.00	
34 05 43 00-0497 LF 7/16" Fillet Welding For Bridge Repair	40.30	
<i>For Full Penetration Weld, Add</i>		
	15.59	
34 05 43 00-0498 LF 1/2" Fillet Welding For Bridge Repair	47.45	
<i>For Full Penetration Weld, Add</i>		
	18.05	
34 05 43 00-0499 LF 9/16" Fillet Welding For Bridge Repair	55.24	
<i>For Full Penetration Weld, Add</i>		
	21.26	
34 05 43 00-0500 LF 5/8" Fillet Welding For Bridge Repair	60.94	
<i>For Full Penetration Weld, Add</i>		
	23.39	
34 05 43 00-0501 LF 3/4" Fillet Welding For Bridge Repair	84.15	
<i>For Full Penetration Weld, Add</i>		
	31.96	
34 05 43 00-0502 LF 7/8" Fillet Welding For Bridge Repair	110.66	
<i>For Full Penetration Weld, Add</i>		
	42.37	
34 05 43 00-0503 LF 1" Fillet Welding For Bridge Repair	154.11	
<i>For Full Penetration Weld, Add</i>		
	58.47	
34 05 43 00-0504 Bridge Trough Repair (34 05 43)		
34 05 43 00-0505 EA New Bridge Trough Hanger	221.95	23.79
34 05 43 00-0506 EA Reattach By Welding Existing Bridge Trough Hanger, Top And/Or Bottom	59.10	
34 05 43 00-0507 EA Removal And Replacement Of All Thread For Existing Bridge Trough Hanger	95.42	
34 05 43 00-0508 EA Removal And Replacement Of Steel Angle Attachment For Existing Bridge Trough Hanger	63.16	
34 05 43 00-0509 Spot Paint Removal And Painting, Bridge Structural Steel (34 05 43)		
34 05 43 00-0510 HR Testing For Lead And Asbestos Paint Removal By Asbestos Contractor	118.02	
34 05 43 00-0511 EA Up To 4 SF, Flat Surfaces, Non-Contaminated Paint Removal	184.00	
34 05 43 00-0512 SF >4 SF, Flat Surfaces, Non-Contaminated Paint Removal	46.00	
34 05 43 00-0513 EA Up To 4 SF, Flat Surfaces, Lead Or Asbestos Paint Removal	235.59	
Note: Includes high efficiency particulate air (HEPA) vacuuming.		
34 05 43 00-0514 SF >4 SF, Flat Surfaces, Lead Or Asbestos Paint Removal	58.90	
Note: Includes high efficiency particulate air (HEPA) vacuuming.		
34 05 43 00-0515 CF Treat and Dispose of Removed Paint Waste	4.87	
34 05 43 00-0516 SF Flat Surfaces Spot Painting	49.13	
Note: Includes 1 coat primer and 2 coats finish.		
34 05 43 00-0517 EA Minimum Charge For Plastic Barrier Enclosure for Paint Removal	1,273.27	
Note: Up to an 8' x 8' area, 7' high. Includes 10 mil plastic on walls and floor. 2"x4" construction. Excludes scaffolding.		
34 05 43 00-0518 SF Plastic Barrier Enclosure For Paint Removal	3.99	
Note: For projects where the total charge exceeds the minimum charge for plastic barrier enclosures. Includes 10 mil plastic on floor and walls. 2" x 4" construction. Excludes scaffolding. Use area of walls and floor for quantity.		
34 05 43 00-0519 End Beam Cleaning And Painting (34 05 43)		
34 05 43 00-0520 SF End Beam Cleaning and Painting	3.13	
Note: Includes high pressure wash at minimum 3003 to 5000 PSI, spot cleaning damaged/rusted areas with hand and power tools (SSPC - SP2 and SP3), solvent cleaning (SSPC-SP1), one coat of aluminum epoxy mastic (minimum 6 mils) to spot cleaned areas, one coat sealer (1-2 mils), and one coat polyurethane finish.		
<i>For Up To 100, Add</i>		3.13
<i>For >100 To 500, Add</i>		2.07
<i>For >500 To 3,000, Add</i>		1.03
<i>For >5,000 To 7,500, Deduct</i>		-0.53
<i>For >7,500 To 10,000, Deduct</i>		-0.82
<i>For >10,000, Deduct</i>		-1.18
34 05 43 00-0521 Snow And Pedestrian Fences For Bridges (34 05 43)		
34 05 43 00-0522 Snow And Pedestrian Fence Assembly For Bridges (34 05 43 00-0521)		
Note: Includes 1", 11 gauge coiled spring mesh (knuckled selvedge), tension bars, post tension bands, wire ties, 1-5/8" top rail, 1-5/8" bottom rail, 2-7/8" post 10' on-center. Posts exclude installation onto bridge. Heights indicated are for mesh to top.		
34 05 43 00-0523 Galvanized Snow And Pedestrian Fence Assembly For Bridges (34 05 43 00-0522)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0524 LF 4' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	40.29	10.43
<i>For Posts 8' On Centers, Add</i>	2.24	
<i>For Posts 5' On Centers, Add</i>	8.45	
<i>For Up To 100, Add</i>	7.89	
<i>For >100 To 250, Add</i>	2.94	
34 05 43 00-0525 LF >4' To 5' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	43.98	10.95
<i>For Posts 8' On Centers, Add</i>	2.43	
<i>For Posts 5' On Centers, Add</i>	9.18	
<i>For Up To 100, Add</i>	8.54	
<i>For >100 To 250, Add</i>	3.17	
34 05 43 00-0526 LF >5' To 6' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	47.71	11.47
<i>For Posts 8' On Centers, Add</i>	2.63	
<i>For Posts 5' On Centers, Add</i>	9.91	
<i>For Up To 100, Add</i>	9.19	
<i>For >100 To 250, Add</i>	3.40	
34 05 43 00-0527 LF >6' To 7' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	50.38	11.99
<i>For Posts 8' On Centers, Add</i>	2.77	
<i>For Posts 5' On Centers, Add</i>	10.45	
<i>For Up To 100, Add</i>	9.69	
<i>For >100 To 250, Add</i>	3.58	
34 05 43 00-0528 LF >7' To 8' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	57.11	13.03
<i>For Posts 8' On Centers, Add</i>	3.13	
<i>For Posts 5' On Centers, Add</i>	11.78	
<i>For Up To 100, Add</i>	10.88	
<i>For >100 To 250, Add</i>	4.01	
34 05 43 00-0529 Vinyl Coated Snow And Pedestrian Fence Assembly For Bridges <small>(34 05 43 00-0522)</small>		
34 05 43 00-0530 LF 4' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	42.51	10.43
<i>For Powder Coated, Add</i>	4.80	
<i>For Aluminum Coated, Add</i>	9.60	
<i>For Posts 8' On Centers, Add</i>	2.35	
<i>For Posts 5' On Centers, Add</i>	8.85	
<i>For Up To 100, Add</i>	8.23	
<i>For >100 To 250, Add</i>	3.05	
34 05 43 00-0531 LF >4' To 5' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	46.78	10.95
<i>For Powder Coated, Add</i>	5.47	
<i>For Aluminum Coated, Add</i>	10.94	
<i>For Posts 8' On Centers, Add</i>	2.57	
<i>For Posts 5' On Centers, Add</i>	9.68	
<i>For Up To 100, Add</i>	8.96	
<i>For >100 To 250, Add</i>	3.31	
34 05 43 00-0532 LF >5' To 6' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	53.40	11.47
<i>For Powder Coated, Add</i>	6.61	
<i>For Aluminum Coated, Add</i>	13.22	
<i>For Posts 8' On Centers, Add</i>	2.91	
<i>For Posts 5' On Centers, Add</i>	10.93	
<i>For Up To 100, Add</i>	10.05	
<i>For >100 To 250, Add</i>	3.69	
34 05 43 00-0533 LF >6' To 7' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	56.99	11.99
<i>For Powder Coated, Add</i>	7.14	
<i>For Aluminum Coated, Add</i>	14.28	
<i>For Posts 8' On Centers, Add</i>	3.10	
<i>For Posts 5' On Centers, Add</i>	11.64	
<i>For Up To 100, Add</i>	10.68	
<i>For >100 To 250, Add</i>	3.91	
34 05 43 00-0534 LF >7' To 8' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	64.81	13.03
<i>For Powder Coated, Add</i>	8.34	
<i>For Aluminum Coated, Add</i>	16.68	
<i>For Posts 8' On Centers, Add</i>	3.52	
<i>For Posts 5' On Centers, Add</i>	13.17	
<i>For Up To 100, Add</i>	12.03	
<i>For >100 To 250, Add</i>	4.40	
34 05 43 00-0535 Bridge Connection Mounting For Snow And Pedestrian Fence Assembly <small>(34 05 43 00-0522)</small>		
34 05 43 00-0536 EA Attach Bridge Fence Post To Steel Bridge Railing Post With U-Bolt, Washers And Nuts.....	49.67	
<i>Note: Includes drilling into steel post.</i>		
34 05 43 00-0537 EA Attach Bridge Fence Post Base To Existing Plate, Welding And Touch-up With Galvanized Paint.....	28.59	
34 05 43 00-0538 EA Attach Bridge Fence Post Base With Plate, Welding And Touch-up With Galvanized Paint.....	71.31	
34 05 43 00-0539 EA Attach Bridge Fence Post To Concrete Safety Shape Barrier With Bolt, 5/8" Diameter x 4-3/4" Anchor Rods, Washers And Nuts.....	77.96	
<i>Note: Includes drilling into steel post.</i>		

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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34 05 43 00-0540 EA Attach Bridge Fence Post To Stone Faced Barrier Top With Plate, 3/8" Diameter Anchor Rods, Washers And Nuts	106.13	
Note: Includes drilling into steel post.		

34 10 Guideways/Railways ⁽³⁴⁾**34 11 Rail Tracks** ^(34 10)**34 11 93 Track Appurtenances and Accessories** ^(34 11)**34 11 93 00-0001 Railroad Crossings** ^(34 11 93)**34 11 93 00-0002 Asphalt Railroad Crossings** ^(34 11 93 00-0001)

Note: Based on 8" thickness x 20' including track and approach.

34 11 93 00-0003 EA 8" Asphalt Railroad Crossing, 12' Roadway 6 CY	1,948.75	311.12
34 11 93 00-0004 EA 8" Asphalt Railroad Crossing, 15' Roadway 7.4 CY	2,290.84	352.61
34 11 93 00-0005 EA 8" Asphalt Railroad Crossing, 18' Roadway 8.9 CY	2,703.95	414.84
34 11 93 00-0006 EA 8" Asphalt Railroad Crossing, 21' Roadway 10.4 CY	3,211.88	497.81
34 11 93 00-0007 EA 8" Asphalt Railroad Crossing, 24' Roadway 11.9 CY	3,885.73	622.25

34 11 93 00-0008 Railroad Crossings - Precast Concrete Inserts ^(34 11 93 00-0001)

Note: Based on 6" thickness x standard rail width gauge.

34 11 93 00-0009 EA Precast Concrete, Railroad Crossing, 12' Road 6" Thick, Standard Gauge	6,094.77	141.59
34 11 93 00-0010 EA Precast Concrete, Railroad Crossing, 15' Road 6" Thick, Standard Gauge	7,618.46	171.93
34 11 93 00-0011 EA Precast Concrete, Railroad Crossing, 18' Road 6" Thick, Standard Gauge	9,137.14	212.39
34 11 93 00-0012 EA Precast Concrete, Railroad Crossing, 21' Road 6" Thick, Standard Gauge	10,657.11	242.73
34 11 93 00-0013 EA Precast Concrete, Railroad Crossing, 24' Road 6" Thick, Standard Gauge	12,176.25	283.18

34 11 93 00-0014 Molded Rubber Railroad Crossings With Headers ^(34 11 93 00-0001)

Note: Based on 3' x 8'-6" sections.

34 11 93 00-0015 EA Molded Rubber Railroad Crossing, 12' Road 3' x 8'-6" Sections With Headers	2,840.18	141.59
34 11 93 00-0016 EA Molded Rubber Railroad Crossing, 15' Road 3' x 8'-6" Sections With Headers	3,374.43	171.93
34 11 93 00-0017 EA Molded Rubber Railroad Crossing, 18' Road 3' x 8'-6" Sections With Headers	3,903.66	212.39
34 11 93 00-0018 EA Molded Rubber Railroad Crossing, 21' Road 3' x 8'-6" Sections With Headers	4,434.19	242.73
34 11 93 00-0019 EA Molded Rubber Railroad Crossing, 24' Road 3' x 8'-6" Sections With Headers	4,963.88	283.18

34 11 93 00-0020 Railroad Trackage Demolition ^(34 11 93)

34 11 93 00-0021 CY Removal Of Railroad Track Ballast	8.15	
34 11 93 00-0022 LF Removal Of Railroad Track Rail And Spikes	20.38	
34 11 93 00-0023 EA Removal And Disposal Of Concrete Post Footings	120.65	
34 11 93 00-0024 EA Backfill Holes From Post Removal	50.29	

34 40 Transportation Signaling and Control Equipment ⁽³⁴⁾**34 41 Roadway Signaling and Control Equipment** ^(34 40)**34 41 13 Traffic Signals** ^(34 41)**34 41 13 00-0001 Traffic Signals** ^(34 41 13)

34 41 13 00-0002 EA Single Traffic Signal Head, 4 Way Pattern	5,136.73	694.16
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34 41 13 00-0003 Traffic Detector Induction Loop ^(34 41 13)

34 41 13 00-0004 EA 6' x 6', Type A, 3 Turns Per Loop, Traffic Detector Induction Loop	370.78	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0005 EA 6' x 6', Type D, 3 Turns Per Loop, Traffic Detector Induction Loop	462.28	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0006 EA 6' x 6', Type D, 5 Turns Per Loop, Traffic Detector Induction Loop	524.46	
Note: Includes saw cutting, 5 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0007 EA 6' x 6', Type Q, 3 Turns Per Loop, Traffic Detector Induction Loop	453.13	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0008 EA 6' x 20', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop	786.30	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0009 EA 6' x 28', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop	963.58	
Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0010 EA 6' x 28', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop	1,028.31	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0011 EA 6' x 40', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop	1,273.03	
Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0012 EA 6' x 40', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop.....	1,367.59	
Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0013 EA 6' x 50', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop.....	1,464.45	
Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0014 EA 6' x 50', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop.....	1,579.91	
Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0015 LF In Pavement, Lead Wire For Traffic Signal Detector.....	6.63	
Note: Includes saw cutting, sealing and splicing into traffic signal loop wire in street. Excludes junction box or conduit.		
34 41 13 00-0016 LF In Earthwork, Lead Wire For Traffic Signal Detector.....	3.10	
Note: Includes trenching in earthwork and splicing into traffic signal loop wire. Excludes junction box or conduit.		
34 41 13 00-0017 EA 2 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model 222).....	200.56	
34 41 13 00-0018 EA 4 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model E-1100).....	556.43	
34 41 13 00-0019 EA 2 Channel, Rack Mounted, Traffic Loop Bicycle Detector (Reno A&E Model C-1100).....	347.62	
34 41 13 00-0020 Overhead Traffic Signals <small>(34 41 13)</small>		
34 41 13 00-0021 EA Traffic Signal Controller Unit, TS 2 Type 1 (ASC/3-1000).....	4,688.04	925.54
34 41 13 00-0022 EA Traffic Signal Controller Unit, TS 2 Type 2 (ASC/3-2100).....	4,821.60	925.54
34 41 13 00-0023 EA Traffic Signal Controller Unit, Replacement For Type 170E (ASC/3RM).....	5,002.30	925.54
34 41 13 00-0024 EA Optical Detector For Mast Arm Mounting, 1 Channel, 1 Way.....	876.46	201.97
34 41 13 00-0025 EA Optical Detector For Mast Arm Mounting, 1 Channel, 2 Way.....	955.03	201.97
34 41 13 00-0026 EA Optical Detector For Mast Arm Mounting, 2 Channel.....	1,212.72	201.97
34 41 13 00-0027 EA Optical Detector For Pole-Side Mounting, 1 Channel, 1 Way.....	876.46	201.97
34 41 13 00-0028 EA Optical Detector For Pole-Side Mounting, 1 Channel, 2 Way.....	955.03	201.97
34 41 13 00-0029 EA Optical Detector For Pole-Side Mounting, 2 Channel.....	1,212.72	201.97
34 41 13 00-0030 EA Optical Detector For Pedestal Or Pipe Mounting, 1 Channel, 1 Way.....	876.46	201.97
34 41 13 00-0031 EA Optical Detector For Pedestal Or Pipe Mounting, 1 Channel, 2 Way.....	955.03	201.97
34 41 13 00-0032 EA Optical Detector For Pedestal Or Pipe Mounting, 2 Channel.....	1,212.72	201.97
34 41 13 00-0033 EA Optical Detector For Span Wire Mounting, 1 Channel, 1 Way.....	876.46	201.97
34 41 13 00-0034 EA Optical Detector For Span Wire Mounting, 1 Channel, 2 Way.....	955.03	201.97
34 41 13 00-0035 EA Optical Detector For Span Wire Mounting, 2 Channel.....	1,212.72	201.97
34 41 13 00-0036 EA Optical Detector For Signal Top Mounting, 1 Channel, 1 Way.....	876.46	201.97
34 41 13 00-0037 EA Optical Detector For Signal Top Mounting, 1 Channel, 2 Way.....	955.03	201.97
34 41 13 00-0038 EA Optical Detector For Signal Top Mounting, 2 Channel.....	1,212.72	201.97
34 41 13 00-0039 EA Phase Selector, 2 Channel.....	2,682.42	25.25
34 41 13 00-0040 EA Phase Selector, 4 Channel.....	4,167.30	25.25
34 41 13 00-0041 EA Malfunction Management Unit For Use With NEMA Controller.....	1,358.02	50.49
34 41 13 00-0042 EA Malfunction Management Unit For Use With Type 170E Or 2070 Controller.....	1,358.02	50.49
34 41 13 00-0043 EA Time Switch, 1-Circuit.....	209.95	30.29
34 41 13 00-0044 EA Digital Loop-Type Vehicle Detector Card, 2-Channel, Normal.....	273.52	12.62
34 41 13 00-0045 EA Digital Loop-Type Vehicle Detector Card, 2-Channel, Stretch/Delay.....	356.79	12.62
34 41 13 00-0046 EA Digital Loop-Type Vehicle Detector Card, 4-Channel, Normal.....	506.07	12.62
34 41 13 00-0047 EA Digital Loop-Type Vehicle Detector Card, 4-Channel, Stretch/Delay.....	634.91	12.62
34 41 13 00-0048 EA Digital Loop-Type Vehicle Detector Card Rack With Power Supply For Controller Cabinet.....	1,719.11	12.62
34 41 13 00-0049 EA Digital Loop-Type Vehicle Detector Card Rack With Power Supply For Remote Detector Cabinet.....	1,719.11	12.62
34 41 13 00-0050 EA Power Line Surge Protector.....	160.32	7.57
34 41 13 00-0051 EA Loop Detector Surge Protector.....	82.48	7.57
34 41 13 00-0052 EA Controller Cabinet With 1 Detector Rack And 1 Load Switch Bay.....	10,565.92	1,301.54
34 41 13 00-0053 EA Controller Cabinet With 1 Detector Rack And 2 Load Switch Bays.....	11,461.56	1,301.54
34 41 13 00-0054 EA Controller Cabinet With 2 Detector Racks And 1 Load Switch Bay.....	12,537.91	1,301.54
34 41 13 00-0055 EA Controller Cabinet With 2 Detector Racks And 2 Load Switch Bays.....	12,867.88	1,301.54
34 41 13 00-0056 EA Speed Limit Beacon Control Option.....	4,622.41	347.08
34 41 13 00-0057 EA Speed Limit Beacon Control Cabinet.....	5,316.56	694.16
34 41 13 00-0058 EA Remote Detector Cabinet.....	2,881.05	694.16
34 41 13 00-0059 EA Traffic Signal Hand Control.....	781.34	115.70
34 41 13 00-0060 EA Load Switch.....	76.43	7.57
34 41 13 00-0061 EA Extra Pedestrian Detector Isolation Assembly.....	624.20	115.70
34 41 13 00-0062 EA Fiber Optic Transceivers-Repeater Module.....	924.53	201.97
34 41 13 00-0063 EA Field Transceiver-Repeater.....	440.74	50.49
34 41 13 00-0064 EA 30" Pedestal With Base Plate And Cover.....	670.73	101.47
34 41 13 00-0065 EA 42" Pedestal With Base Plate And Cover (Push Button Pedestal).....	783.66	106.08
34 41 13 00-0066 EA 8' Pedestal With Base Plate And Cover.....	979.39	119.00
34 41 13 00-0067 EA 11' Pedestal With Base Plate And Cover.....	1,089.36	129.14
34 41 13 00-0068 EA 15' Pedestal With Base Plate And Cover.....	1,212.67	154.05
34 41 13 00-0069 LF 6-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.23	
34 41 13 00-0070 LF 12-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.32	
34 41 13 00-0071 LF 24-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.54	
34 41 13 00-0072 LF 36-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.75	
34 41 13 00-0073 LF 48-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.96	
34 41 13 00-0074 LF 72-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	2.32	
34 41 13 00-0075 LF 96-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	2.65	
34 41 13 00-0076 LF 144-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	3.30	
34 41 13 00-0077 LF 3/16" Diameter Messenger Cable.....	0.54	0.09
34 41 13 00-0078 LF 1/4" Diameter Messenger Cable.....	0.64	0.09
34 41 13 00-0079 LF 3/8" Diameter Messenger Cable.....	1.17	0.09
34 41 13 00-0080 LF 1/2" Diameter Messenger Cable.....	2.41	0.19
34 41 13 00-0081 EA 4' Diameter x 10' Concrete Base For Poles.....	2,721.07	
Note: Includes drilling in earth, rebar, bolts, forms for exposed base, bolts and concrete.		

34 Transportation
34 40 Transportation Signaling and Control Equipment
34 41 Roadway Signaling and Control Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41	13 00-0082	EA	4' Diameter x 16' Concrete Base For Poles Note: Includes drilling in earth, rebar, bolts, forms for exposed base, bolts and concrete.	4,334.76	
34 41	13 00-0083	EA	Internally Illuminated Street Name Sign, 1 Line, 4'.....	2,096.92	231.38
34 41	13 00-0084	EA	Internally Illuminated Street Name Sign, 1 Line, 6'.....	2,589.72	289.23
34 41	13 00-0085	EA	Internally Illuminated Street Name Sign, 1 Line, 8'.....	2,831.13	347.08
34 41	13 00-0086	EA	Internally Illuminated Street Name Sign, 1 Line, 10'.....	3,198.23	404.93
34 41	13 00-0087	EA	Internally Illuminated Street Name Sign, 1 Line, 12'.....	3,439.62	462.77
34 41	13 00-0088	EA	Internally Illuminated Street Name Sign, 2 Line, 4'.....	3,284.82	231.38
34 41	13 00-0089	EA	Internally Illuminated Street Name Sign, 2 Line, 6'.....	4,047.89	289.23
34 41	13 00-0090	EA	Internally Illuminated Street Name Sign, 2 Line, 8'.....	4,377.29	347.08
34 41	13 00-0091	EA	Internally Illuminated Street Name Sign, 2 Line, 10'.....	4,895.23	404.93
34 41	13 00-0092	EA	Internally Illuminated Street Name Sign, 2 Line, 12'.....	5,262.33	462.77
34 41	13 00-0093	EA	Photoelectric Controller, Multi-Volt.....	76.08	26.26
34 41	13 00-0094	EA	Photoelectric Controller, 120 Volt.....	85.60	26.26
34 41	13 00-0095	EA	Photoelectric Controller, 480 Volt.....	85.60	26.26
34 41	13 00-0096	EA	Wi-Fi Communication Unit.....	1,094.02	115.70
34 41	13 00-0097	EA	Wi-Fi Communication Unit Mounting Bracket.....	252.10	86.77
34 41	13 00-0098	EA	Wi-Fi Communication Unit Power Supply / POE Injector.....	224.12	57.85
34 41	13 00-0099	EA	Wi-Fi Communication Unit Packet.....	1,917.33	173.54
34 41	13 00-0100	LF	Preemptor Detector Cable.....	1.90	
34 41	13 00-0101	EA	Sno-Shoe Cable Storage Assembly.....	204.77	
34 41	13 00-0102	EA	16' Pedestal With Base Plate And Cover.....	1,278.14	154.05
34 41	13 00-0103	EA	Vehicle Signal Face, LED, 1 - 12" Section.....	453.72	147.51
34 41	13 00-0104	EA	Vehicle Signal Face, LED, 2 - 12" Sections.....	729.19	208.24
34 41	13 00-0105	EA	Vehicle Signal Face, LED, 3 - 12" Sections.....	1,011.87	254.52
34 41	13 00-0106	EA	Vehicle Signal Face, LED, 3 - 12" Sections, Middle Section Blank.....	964.73	254.52
34 41	13 00-0107	EA	Vehicle Signal Face, LED, 4 - 12" Sections.....	1,273.97	283.45
34 41	13 00-0108	EA	Vehicle Signal Face, LED, 5 - 12" Sections.....	1,512.95	300.80
34 41	13 00-0109	EA	Vehicle Signal Face, LED, 5 - 12" Sections, Cluster.....	1,604.09	300.80
34 41	13 00-0110	EA	Vehicle Signal Face, LED, 1 - 8" Section.....	430.15	147.51
34 41	13 00-0111	EA	Vehicle Signal Face, LED, 2 - 8" Sections.....	682.05	208.24
34 41	13 00-0112	EA	Vehicle Signal Face, LED, 3 - 8" Sections.....	897.16	254.52
34 41	13 00-0113	EA	Vehicle Signal Face, LED, 2 - 8" Sections, 1 - 12" Section.....	955.30	254.52
34 41	13 00-0114	EA	Vehicle Signal Face, LED, 2 - 8" Sections, 2 - 12" Sections.....	1,173.41	283.45
34 41	13 00-0115	EA	Vehicle Signal Face, LED, 3 - 8" Sections, 1 - 12" Section.....	1,140.41	283.45
34 41	13 00-0116	EA	Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections.....	1,340.11	300.80
34 41	13 00-0117	EA	Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections In Cluster.....	1,413.96	300.80
34 41	13 00-0118	EA	Vehicle Signal Face, LED, 3 - 12" Sections, Optically Programmed.....	1,986.07	254.52
34 41	13 00-0119	EA	Vehicle Signal Face, LED, 4 - 12" Sections, Optically Programmed.....	2,582.87	283.45
34 41	13 00-0120	EA	Vehicle Signal Face, LED, 5 - 12" Sections, Optically Programmed.....	3,351.38	300.80
34 41	13 00-0121	EA	Vehicle Signal Face, LED, 5 - 12" Sections In Cluster, Optically Programmed.....	3,626.35	300.80
34 41	13 00-0122	EA	Bracket Signal Mounting Assembly.....	429.36	115.70
34 41	13 00-0123	EA	Mast Arm Signal Mounting Assembly.....	767.60	231.38
34 41	13 00-0124	EA	Top Pole Signal Mounting Assembly.....	270.96	86.77
34 41	13 00-0125	EA	Pedestrian Signal Head.....	771.33	173.54
34 41	13 00-0126	EA	Pedestrian Signal Insert.....	470.52	86.77
34 41	13 00-0127	EA	Audible Pedestrian Signal.....	1,003.19	
34 41	13 00-0128	EA	Junction Box, Pole Or Post Mounted.....	389.31	
34 41	13 00-0129	EA	Pedestrian Push Button.....	363.75	
34 41	13 00-0130	EA	Illuminated Sign, Bracket Mounted, Symbolic.....	2,762.97	
34 41	13 00-0131	EA	Illuminated Sign, Mast Arm Mounted, Symbolic.....	2,894.58	
34 41	13 00-0132	EA	Sign, Message, "BLANK OUT", Bracket Mounted.....	3,025.77	
34 41	13 00-0133	EA	Sign, Message, "BLANK OUT", Mast Arm Mounted.....	3,224.76	
34 41	13 00-0134	EA	Sign, Fiber Optic, Bracket Mounted.....	3,423.93	
34 41	13 00-0135	EA	Sign, Fiber Optic, Mast Arm Mounted.....	3,627.16	
34 41	13 00-0136	EA	30' Type 15TS Signal And Lighting Standard..... Note: 8" diameter base and 3-7/8" diameter top. 0.1793" wall thickness.	5,173.34	
34 41	13 00-0137	EA	35' Type 21TS Signal And Lighting Standard..... Note: 9-3/8" diameter base and 3-9/16" diameter top. 0.1793" wall thickness.	5,975.05	
34 41	13 00-0138	EA	17' Type 18-2-100 Signal And Lighting Standard..... Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.1793" wall thickness.	2,951.07	
34 41	13 00-0139	EA	17' Type 18-3-100 Signal And Lighting Standard..... Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.2391" wall thickness.	3,260.61	
34 41	13 00-0140	EA	17' Type 18-4-100 Or 23-4-100 Signal And Lighting Standard..... Note: 12" diameter base and 9" diameter top. 0.2391" wall thickness.	3,379.27	
34 41	13 00-0141	EA	17' Type 23-3-100 Signal And Lighting Standard..... Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.	3,379.27	
34 41	13 00-0142	EA	17' Type 23-4-100 Signal And Lighting Standard..... Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.	3,441.56	
34 41	13 00-0143	EA	17' Type 27-3-100 Signal And Lighting Standard..... Note: 12-1/8" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.	3,753.05	
34 41	13 00-0144	EA	17' Type 27-4-100 Signal And Lighting Standard..... Note: 13-1/2" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.	3,824.67	
34 41	13 00-0145	EA	17' Type 28-5-100 Signal And Lighting Standard..... Note: 14" diameter base and 11-11/16" diameter top. 0.3125" wall thickness.	3,971.54	
34 41	13 00-0146	EA	17' Type 60-5-100 Signal And Lighting Standard..... Note: 16" diameter base and 13-11/16" diameter top. 0.3125" wall thickness.	4,202.85	
34 41	13 00-0147	EA	18'-6" Type 16-2-100 Or 16-3-100 Signal And Lighting Standard..... Note: 10-3/4" diameter base and 8-1/4" diameter top. 0.1793" wall thickness.	3,133.16	
34 41	13 00-0148	EA	30' Type 17-2-100 Or 17-3-100 Signal And Lighting Standard..... Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.1793" wall thickness.	5,498.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0149 EA 30' Type 19-2-100 Signal And Lighting Standard.....	6,148.39	
Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0150 EA 30' Type 19-3-100 Or 24-3-100 Signal And Lighting Standard	6,397.57	
Note: 12" diameter base and 7-7/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0151 EA 30' Type 19-4-100 Or 24-4-100 Signal And Lighting Standard	6,397.57	
Note: 12" diameter base and 8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0152 EA 30' Type 26-3-100 Signal And Lighting Standard.....	7,182.48	
Note: 12-1/8" diameter base and 8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0153 EA 30' Type 26-4-100 Signal And Lighting Standard.....	7,483.38	
Note: 13-1/2" diameter base and 8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0154 EA 30' Type 29-5-100 Signal And Lighting Standard.....	7,799.29	
Note: 14" diameter base and 9-7/8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0155 EA 30' Type 61-5-100 Signal And Lighting Standard.....	8,296.89	
Note: 16" diameter base and 11-7/8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0156 EA 35' Type 17A-2-100 Signal And Lighting Standard	6,387.03	
Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.1793" wall thickness.		
34 41 13 00-0157 EA 35' Type 19A-2-100 Signal And Lighting Standard	7,145.40	
Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0158 EA 35' Type 19A-3-100 Or 24A-3-100 Signal And Lighting Standard	7,436.12	
Note: 12" diameter base and 7-3/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0159 EA 35' Type 19A-4-100 Or 24A-4-100 Signal And Lighting Standard.....	7,436.12	
Note: 12" diameter base and 7-5/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0160 EA 35' Type 26A-3-100 Signal And Lighting Standard	8,351.85	
Note: 12-1/8" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0161 EA 35' Type 26A-4-100 Signal And Lighting Standard	8,702.88	
Note: 13-1/2" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0162 EA 35' Type 29A-5-100 Signal And Lighting Standard	9,071.46	
Note: 14" diameter base and 9-3/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0163 EA 35' Type 61A-5-100 Signal And Lighting Standard	9,651.98	
Note: 16" diameter base and 11" diameter top. 0.3125" wall thickness.		
34 41 13 00-0164 EA 15' Steel Straight Mast Arm, MONOTUBE	2,230.04	
34 41 13 00-0165 EA 20' Steel Straight Mast Arm, MONOTUBE	2,344.57	
34 41 13 00-0166 EA 25' Steel Straight Mast Arm, MONOTUBE	2,501.53	
34 41 13 00-0167 EA 30' Steel Straight Mast Arm, MONOTUBE	3,316.86	
34 41 13 00-0168 EA 35' Steel Straight Mast Arm, MONOTUBE	3,967.04	
34 41 13 00-0169 EA 40' Steel Straight Mast Arm, MONOTUBE	4,250.91	
34 41 13 00-0170 EA 45' Steel Straight Mast Arm, MONOTUBE	4,685.05	
34 41 13 00-0171 EA 50' Steel Straight Mast Arm, MONOTUBE	5,315.91	
34 41 13 00-0172 EA 55' Steel Straight Mast Arm, MONOTUBE	6,075.38	
34 41 13 00-0173 EA 60' Steel Straight Mast Arm, MONOTUBE	6,598.02	
34 41 13 00-0174 EA 65' Steel Straight Mast Arm, MONOTUBE	7,646.73	
34 41 13 00-0175 EA 4' Steel Curved Luminaire Mast Arm.....	773.46	
For High Rise Arm, Add	57.88	
For High Rise Straight Arm, Add	46.31	
34 41 13 00-0176 EA 6' Steel Curved Luminaire Mast Arm.....	1,001.81	
For High Rise Arm, Add	77.39	
For High Rise Straight Arm, Add	61.91	
34 41 13 00-0177 EA 8' Steel Curved Luminaire Mast Arm.....	1,253.29	
For High Rise Arm, Add	96.89	
For High Rise Straight Arm, Add	77.51	
34 41 13 00-0178 EA 10' Steel Curved Luminaire Mast Arm.....	1,751.28	
For High Rise Arm, Add	113.91	
For High Rise Straight Arm, Add	91.13	
34 41 13 00-0179 EA 12' Steel Curved Luminaire Mast Arm.....	1,919.48	
For High Rise Arm, Add	134.34	
For High Rise Straight Arm, Add	107.47	
34 41 13 00-0180 EA 15' Steel Curved Luminaire Mast Arm.....	1,990.66	
For High Rise Arm, Add	149.82	
For High Rise Straight Arm, Add	119.85	
34 41 13 00-0181 EA 20' Steel Curved Luminaire Mast Arm.....	2,247.58	
For High Rise Arm, Add	178.91	
34 41 13 00-0182 EA 15' Tubular Aluminum Post	825.44	
34 41 13 00-0183 EA 17' Tubular Aluminum Post	883.09	
34 41 13 00-0184 EA 20' Tubular Aluminum Post.....	985.81	
34 41 13 00-0185 EA CUT-OFF POLE AND CAPPED	151.66	
34 41 13 00-0186 EA PAINT EXISTING SL/TS CONTROLLER COMPLETE.....	44.92	
34 41 13 00-0187 EA PAINT EXISTING TS POST COMPLETE	215.00	
34 41 13 00-0188 EA 1 Channel Loop Detector Amplifier	1,136.59	
34 41 13 00-0189 EA 4 Channel Loop Detector Amplifier	2,122.03	
34 41 13 00-0190 EA FLASHING BEACON WITH DOWNLIGHT	1,729.06	
34 41 13 00-0191 EA Flashing Beacon, Bracket Mounted	637.89	
34 41 13 00-0192 EA Flashing Beacon, Mast Arm Mounted	637.89	
34 41 13 00-0193 EA Flashing Beacon, Solar Powered, Bracket Mounted.....	14,694.14	
34 41 13 00-0194 EA Wireless Access Point (Proxim Tsunami MP11 954-BSUR-US).....	2,879.31	
34 41 13 00-0195 EA Ruggedized Subscriber Unit (Proxim Tsunami MP11 954-SUA-US)	1,553.00	
34 41 13 00-0196 EA Smart Sensor HD (Wavetronix HD125).....	8,202.87	
34 41 13 00-0197 EA Access Point (Sensys AP240-ES)	3,800.92	
Note: RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality.		
34 41 13 00-0198 EA Sensys Access Point AP240-ESC-VER - RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality with Integrated 1xRTT cellular data modem for data relay via CDMA.....	6,566.51	
34 41 13 00-0199 EA Mounting Kit for Access Points and Repeaters (KIT-MTG).....	240.17	

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0200 EA Repeater (Sensys RP240-B-LL).....	1,741.98	
Note: Nominal battery capacity of 171 Ah with seven (7) year battery-life.		
34 41 13 00-0201 EA Wireless Flush Mounted Sensor (Sensys VSN240-F).....	790.55	
Note: Excludes coring.		
34 41 13 00-0202 EA Sensor Mounting Bracket, Cable, Lightning Surge Protector, Power Supply, Breaker, AC Surge Protector, Din Rail and Power Plug.....	1,982.75	
34 41 13 00-0203 EA Pole Base Foundation for 17-2-80, 17-2-100, 19-2-80 Poles.....	5,422.90	1.47
34 41 13 00-0204 EA Pole Base Foundation for 17-3-80, 19-3-80, 26-3-80 & 26-4-80 Poles.....	7,075.10	1.47
34 41 13 00-0205 EA Pole Base Foundation for Type 15 and 21 Poles.....	4,245.99	1.47
34 41 13 00-0206 EA Pole Base Foundation for 18-4-100, 19-4-100, 23-4-100, And 24-4-100 Poles.....	5,422.90	1.47
34 41 13 00-0207 EA Pole Base Foundation for 26-4-100 And 27-4-100 Poles.....	7,075.10	1.47
34 41 13 00-0208 EA Service Equipment Enclosure, Type III-AF.....	1,035.08	
34 41 13 00-0209 EA 12", 3 Section Signal, Mast Arm Mounted.....	1,309.23	
34 41 13 00-0210 EA 8", 3 Section Signal, Mast Arm Mounted.....	1,168.77	
34 41 13 00-0211 EA 12" FCV Visor.....	75.15	
34 41 13 00-0212 EA 8" FCV Visor.....	54.20	
34 41 13 00-0213 EA Eggcrate Visor.....	72.56	
34 41 13 00-0214 EA Pedestrian H/M.....	842.01	
34 41 13 00-0215 EA Pedestrian Audio.....	919.20	
34 41 13 00-0216 EA Adjustable Pushbutton.....	236.53	
34 41 13 00-0217 EA ADA Cap And Switch.....	294.21	
34 41 13 00-0218 EA 3 Section 12" Backplate.....	122.88	
34 41 13 00-0219 EA 3 Section 12" MAS Mount Backplate.....	181.21	
34 41 13 00-0220 EA 3 Section 8" Backplate.....	99.60	
34 41 13 00-0221 EA 12" Red LED Lenses.....	207.56	
34 41 13 00-0222 EA 12" Amber LED Lenses.....	221.97	
34 41 13 00-0223 EA 12" Green LED Lenses.....	380.16	
34 41 13 00-0224 EA 12" Red Arrow.....	206.39	
34 41 13 00-0225 EA 12" Amber Arrow.....	195.83	
34 41 13 00-0226 EA 12" Green Arrow.....	288.36	
34 41 13 00-0227 EA 8" Red.....	204.26	
34 41 13 00-0228 EA 8" Amber.....	196.46	
34 41 13 00-0229 EA 8" Green.....	234.94	
34 41 13 00-0230 EA Hand/Man.....	353.13	
34 41 13 00-0231 EA Frameworks, 8" TV-1-T.....	430.86	
34 41 13 00-0232 EA Frameworks, 8" TV-2-T.....	486.87	
34 41 13 00-0233 EA Frameworks, MAT MT.....	130.14	
34 41 13 00-0234 EA Frameworks, MAS MT.....	141.34	
34 41 13 00-0235 EA Frameworks, 3W PT TC.....	275.32	
34 41 13 00-0236 EA Frameworks, 2W PT TC.....	283.53	
34 41 13 00-0237 EA Frameworks, 2W SM TC.....	268.59	
34 41 13 00-0238 EA Frameworks, SV-1.....	179.34	
34 41 13 00-0239 EA Frameworks, TV-1.....	173.74	
34 41 13 00-0240 EA Type III Service Pedestal.....	3,324.19	
34 41 13 00-0241 EA Single Fuse Holder.....	33.66	
34 41 13 00-0242 EA Double Fuse Holder.....	80.69	
34 41 13 00-0243 EA Pullbox, 1-1/2" x 20" x 14".....	77.76	
34 41 13 00-0244 EA Pullbox, 5" x 28" x 18".....	104.41	
34 41 13 00-0245 EA Pullbox, 6" x 36" x 23".....	135.57	
34 41 13 00-0246 EA Pullbox Lids, FL9D.....	80.17	
34 41 13 00-0247 EA Pullbox Lids, FL30D.....	148.05	
34 41 13 00-0248 EA Pullbox Lids, FL36D.....	38.64	
34 41 13 00-0249 EA LED Enhanced Pedestrian Crossing Symbol Sign.....	1,410.53	92.25
Note: 2 required per system.		
34 41 13 00-0250 EA 42" Height, 8-1/2" Diameter Automatic Bollard Activation System.....	4,106.97	553.48
Note: 4 required per system.		
34 41 13 00-0251 EA Power Control Unit With Enclosure (Solar).....	14,036.16	368.98
Note: LightGuard Systems solar power equipment Includes: one solar array consisting of 1 Siemens SP70 solar power module (21" x 47" to be pole mounted, pole not included), #14 AWG solar tray cable, mounting hardware, one enclosure (16-1/2" width x 27-1/2" height x 15" depth), two 12V 80AH deep cycle gel cell batteries and a solar power control unit (PCU).		
34 41 13 00-0252 EA Power Control Unit With Enclosure (A/C).....	9,036.37	368.98
34 41 13 00-0253 EA Push Button Assembly With Sign.....	835.76	184.49
34 41 13 00-0254 EA Advanced Warning Signs.....	1,603.37	184.49
34 41 13 00-0255 EA 14' High Galvanized Steel Traffic Signal Pole.....	2,641.53	
Note: For mast arm.		
34 41 13 00-0256 EA 21' High Galvanized Steel Traffic Signal Pole.....	3,920.96	
Note: For mast arm.		
34 41 13 00-0257 EA 22' High Galvanized Steel Traffic Signal Pole.....	4,065.41	
Note: For mast arm and luminare arm.		
34 41 13 00-0258 EA 30' High Galvanized Steel Traffic Signal Pole, Tapered, For >55' Mast Arm.....	5,494.48	
Note: For mast arm and luminare arm.		
34 41 13 00-0259 EA 32' High Galvanized Steel Traffic Signal Pole, Tapered, For Up To 55' Mast Arm.....	5,736.93	
Note: For mast arm and luminare arm.		
34 41 13 00-0260 EA 30' High Galvanized Steel Traffic Signal Pole, Tapered, For Up To 55' Mast Arm.....	4,571.01	
34 41 13 00-0261 EA 30' High Galvanized Steel Traffic Signal Pole, Octafute.....	4,100.65	
34 41 13 00-0262 EA 30' (High Spun Aluminum Traffic Signal Pole, Tapered.....	3,389.23	
34 41 13 00-0263 EA Type 26-6-70 Signal Pole With 55' SMA And 20' LMA.....	18,087.93	
34 41 13 00-0264 EA Type 29-6-70 Signal Pole With 65' SMA And 20' LMA.....	20,939.65	

34 41 13 00-0265 Traffic Signal Cable (34 41 13)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0266 LF 16 AWG, 2-Conductor, Solid, Traffic Signal Cable.....	1.80	0.80
34 41 13 00-0267 LF 16 AWG, 3-Conductor, Solid, Traffic Signal Cable.....	2.00	0.86
34 41 13 00-0268 LF 16 AWG, 4-Conductor, Solid, Traffic Signal Cable.....	2.19	0.92
34 41 13 00-0269 LF 16 AWG, 5-Conductor, Solid, Traffic Signal Cable.....	2.37	0.97
34 41 13 00-0270 LF 16 AWG, 6-Conductor, Solid, Traffic Signal Cable.....	2.60	1.03
34 41 13 00-0271 LF 16 AWG, 8-Conductor, Solid, Traffic Signal Cable.....	2.99	1.15
34 41 13 00-0272 LF 16 AWG, 10-Conductor, Solid, Traffic Signal Cable.....	3.51	1.32
34 41 13 00-0273 LF 16 AWG, 12-Conductor, Solid, Traffic Signal Cable.....	4.01	1.49
34 41 13 00-0274 LF 16 AWG, 16-Conductor, Solid, Traffic Signal Cable.....	4.71	1.66
34 41 13 00-0275 LF 16 AWG, 20-Conductor, Solid, Traffic Signal Cable.....	5.50	1.83
34 41 13 00-0276 LF 14 AWG, 2-Conductor, Solid, Traffic Signal Cable.....	1.85	0.80
34 41 13 00-0277 LF 14 AWG, 3-Conductor, Solid, Traffic Signal Cable.....	2.07	0.86
34 41 13 00-0278 LF 14 AWG, 4-Conductor, Solid, Traffic Signal Cable.....	2.28	0.92
34 41 13 00-0279 LF 14 AWG, 5-Conductor, Solid, Traffic Signal Cable.....	2.48	0.97
34 41 13 00-0280 LF 14 AWG, 6-Conductor, Solid, Traffic Signal Cable.....	2.74	1.03
34 41 13 00-0281 LF 14 AWG, 8-Conductor, Solid, Traffic Signal Cable.....	3.17	1.15
34 41 13 00-0282 LF 14 AWG, 10-Conductor, Solid, Traffic Signal Cable.....	3.72	1.32
34 41 13 00-0283 LF 14 AWG, 12-Conductor, Solid, Traffic Signal Cable.....	4.27	1.49
34 41 13 00-0284 LF 14 AWG, 16-Conductor, Solid, Traffic Signal Cable.....	5.05	1.66
34 41 13 00-0285 LF 14 AWG, 20-Conductor, Solid, Traffic Signal Cable.....	5.96	1.83
34 41 13 00-0286 LF 12 AWG, 2-Conductor, Solid, Traffic Signal Cable.....	1.97	0.80
34 41 13 00-0287 LF 12 AWG, 3-Conductor, Solid, Traffic Signal Cable.....	2.24	0.86
34 41 13 00-0288 LF 12 AWG, 4-Conductor, Solid, Traffic Signal Cable.....	2.49	0.92
34 41 13 00-0289 LF 12 AWG, 5-Conductor, Solid, Traffic Signal Cable.....	2.73	0.97
34 41 13 00-0290 LF 12 AWG, 6-Conductor, Solid, Traffic Signal Cable.....	3.06	1.03
34 41 13 00-0291 LF 12 AWG, 8-Conductor, Solid, Traffic Signal Cable.....	3.59	1.15
34 41 13 00-0292 LF 12 AWG, 10-Conductor, Solid, Traffic Signal Cable.....	4.24	1.32
34 41 13 00-0293 LF 12 AWG, 12-Conductor, Solid, Traffic Signal Cable.....	4.89	1.49
34 41 13 00-0294 LF 12 AWG, 16-Conductor, Solid, Traffic Signal Cable.....	5.88	1.66
34 41 13 00-0295 LF 12 AWG, 20-Conductor, Solid, Traffic Signal Cable.....	7.06	1.83
34 41 13 00-0296 School Zone Flasher Beacons (34 41 13)		
34 41 13 00-0297 EA One 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	4,228.61	172.68
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0298 EA One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	4,258.46	172.68
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0299 EA Two 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	4,765.26	172.68
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0300 EA Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	4,860.78	172.68
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0301 EA 10" Digit Radar Display, One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	8,895.11	172.68
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 80 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0302 EA 10" Digit Radar Display, Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	9,269.45	172.68
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0303 Traffic Light Control Synchronization (34 41 13)		
34 41 13 00-0304 EA ENCOM COMPAK IP Radio/Wireless Ethernet Transceiver, 900 MHz FHSS 1 Watt output power and 128-bit data encryption with 1.1Mbps Throughput.....	3,682.49	
34 41 13 00-0305 EA ENCOM 5200R 900 MHz Serial Radio Modem, contains one Serial (RS-232 or RS-485) interface and 170/TS1/TS2 detector rack (EPR-5200R).....	2,759.66	
34 41 13 00-0306 EA ENCOM Dual 2.4/2.4 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB24/24).....	6,407.27	
34 41 13 00-0307 EA 5.8 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB58INT).....	4,341.86	
34 41 13 00-0308 EA 2.4 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB24INT).....	4,341.86	
34 41 13 00-0309 EA Solar Cabinet Assembly.....	11,839.57	
34 41 13 00-0310 EA Data Controller Interface Cable Assembly.....	477.10	
34 41 13 00-0311 EA 900 MHZ Splitter.....	548.62	
34 41 13 00-0312 EA 900 MHz Surge Suppressor.....	196.43	
34 41 13 00-0313 EA Surge-Radio Lead in Cable.....	123.51	
34 41 13 00-0314 EA 12DB GAIN YAGI Antenna.....	571.30	
34 41 13 00-0315 EA PELCO Antenna Mounting Bracket.....	389.19	
34 41 13 00-0316 MLF Coaxial Cable, LMR-400.....	2,996.63	
34 41 13 00-0317 EA Perle 16 Port Serial Server.....	3,268.92	
34 41 13 00-0318 EA Serial to Ethernet Card.....	1,684.23	
34 41 13 00-0319 EA 404 Stand Alone Modem (GDI 404).....	1,513.28	
34 41 13 00-0320 Traffic Signal Controls (34 41 13)		
34 41 13 00-0321 EA Master Card for Type 2070 or NEMA TS2 traffic controllers (CC-TS2).....	1,339.28	
34 41 13 00-0322 EA Extension Card for Type 2070 or NEMA traffic controllers (EX-TS2).....	539.49	
34 41 13 00-0323 EA AccessBox for contract closure master card (CC-ACC).....	191.43	
34 41 13 00-0324 EA Flush Mount Wireless Sensor (ATT VSN240-F).....	739.41	
34 41 13 00-0325 EA Flush Mount Wireless Sensor (Speed & Count VSN240-F).....	739.41	
34 41 13 00-0326 EA Epoxy Tube for Installation of Wireless Sensor (VSN240-EPX).....	114.41	
34 41 13 00-0327 EA SNAPS License for each enabled AP (SNAPS-PER-AP).....	311.40	

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41	13 00-0328		Traffic Signal Devices <small>(34 41 13)</small>		
34 41	13 00-0329	EA	12" Polycarbonate Signal Head Housing (McCain).....	704.49	83.02
34 41	13 00-0330	EA	16" Polycarbonate Pedestrian Signal Housing (McCain)	364.71	64.58
34 41	13 00-0331	EA	Pedestrian Push Button Cap & Switch (McCain M31334).....	293.68	119.92
34 41	13 00-0332	EA	Pedestrian Push Button Frame Assembly 4" Diameter Pole (McCain M19712)	404.38	175.26
34 41	13 00-0333	EA	Pedestrian Push Button Frame Assembly 2" Diameter Pole (McCain M30793)	311.74	138.37
34 41	13 00-0334	EA	16 Channel Conflict Monitor (McCain 2010 ECLIP).....	1,042.00	59.96
34 41	13 00-0335	EA	LED Countdown Head (McCain GTX PS7-CFF1-VLA).....	217.07	23.06
34 41	13 00-0336	EA	Traffic signal Video Detection Camera (Iteris RZ4-awdr).....	2,349.97	101.47
34 41	13 00-0337	EA	Camera processor card (Iteris Edge Connect).....	5,343.07	147.59
34 41	13 00-0338	EA	Wireless Broadband Radio (Encom BB58).....	5,045.30	138.37
34 41	13 00-0339	EA	24-port Gigabit and 4-port 1G/10G SFP+ Ethernet Switch (Etherwan EX77900)	3,337.61	110.70
34 41	13 00-0340	EA	Power Adapter (Mean Well DR-120-48).....	125.19	34.60
34 41	13 00-0341	LF	14/1 Cal Trans Type 2 Inductive Traffic Detection Loops (Advanced Digital Cable 8452)	0.76	
34 41	13 00-0342	EA	Radar Detection System (Wavetronix Matrix).....	9,752.92	350.54
34 41	13 00-0343	EA	Pedestrian Audio Push Button (Polara APS)	309.57	87.64
34 41	13 00-0344	EA	Opticom Infrared System - Detector (GTT 711)	764.93	82.28
34 41	13 00-0345	EA	Opticom Infrared System - Detector (GTT 721)	855.82	92.06
34 41	13 00-0346	EA	Opticom Infrared System - Detector (GTT 722)	1,191.98	128.22
34 41	13 00-0347	EA	Opticom Multimode Phase Selector (GTT 764).....	3,854.89	75.88
34 41	13 00-0348	LF	Opticom GPS Installation Cable (GTT 1070).....	0.92	
34 41	13 00-0349	EA	Precast Concrete Traffic Pull Box, 5-T, with steel frame & diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1324).....	651.66	
34 41	13 00-0350	EA	Precast Concrete Traffic Pull Box, 6-T, with steel frame & diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1730).....	691.09	
34 41	13 00-0351	EA	UPS Module (Alpha Technologies FXM 350).....	1,053.94	50.49
			Note: For battery backup in traffic signal control cabinet		
34 41	13 00-0352	EA	Web Connected Relay Switch (Control by Web X-301 WebRelay-Dual)	338.71	41.51
			Note: To control flashing "School" signs		
34 41	13 00-0353	LF	Fiber optic cable, 72 strand, single mode, riser non-plenum jacket (Optical Cable Corp DX072DSLX9KR)	7.43	0.42
34 41	13 00-0354	LF	Fiber optic cable, 12 strand, multi mode, riser non-plenum jacket (Superior Essex W30126G01 MM Fiber).....	1.85	0.36
34 41	13 00-0355	EA	12" LED Signal Module, Tinted Lens, Red (GE DR6-RTFB-VLA).....	106.87	41.51
34 41	13 00-0356	EA	12" LED Signal Module, Tinted Lens, Yellow (GE DR6-YTFB-VLA).....	106.87	41.51
34 41	13 00-0357	EA	12" LED Signal Module, Tinted Lens, Green (GE DR6-GTFB-VLA).....	106.87	41.51
34 41	13 00-0358	EA	12" LED Signal Module, Clear Lens, Red (GE DR6-RCFB-VLA).....	106.87	41.51
34 41	13 00-0359	EA	12" LED Signal Module, Clear Lens, Yellow (GE DR6-YCFB-VLA).....	106.87	41.51
34 41	13 00-0360	EA	12" LED Signal Module, Clear Lens, Green (GE DR6-GCFB-VLA).....	106.87	41.51
34 41	13 00-0361	EA	LED Countdown Pedestrian Signal, 16" x 18" (GE PS7-CFF1-VLA).....	311.72	106.08
34 41	13 00-0362	EA	EOC Switch (Actellis ML688).....	3,896.64	328.19
34 41	13 00-0363	EA	Ethernet Extender Kit (ENABLE-IT 860 Pro).....	1,046.27	75.73
34 41	13 00-0364	EA	#5 pull box lid (Concrete, Bolt down) (Christy N30T).....	88.86	20.49
34 41	13 00-0365	EA	#5 pull box lid (Steel, Bolt down) (Christy N30-61J).....	304.34	29.65
34 41	13 00-0366	EA	#6 pull box lid (Concrete, Bolt down) (Christy N36T).....	108.95	20.49
34 41	13 00-0367	EA	#6 pull box lid (Steel, Bolt down) (Christy N36-61J).....	366.52	29.65
34 41	13 00-0368	EA	Battery Back-up (Alpha FXM110 UPS).....	2,493.80	100.98
34 41	13 00-0369	EA	Battery (Alpha AlphaCell 220GXL).....	356.06	25.25
34 41	13 00-0370	EA	BBS Cabinet (Alpha SE48-1616).....	2,899.03	227.20
34 41	13 00-0371	LF	Fiber 72 Strands (Corning 072ZU4-T3F22D20).....	4.86	1.97
34 41	13 00-0372	LF	Fiber 12 Strands (Corning 012ZU4-T3F22D20).....	2.15	0.91
34 41	13 00-0373	EA	FDU & Splice Cassette with LC connector type (Corning CCH-01U, CCH-CS12-B3-P00RE).....	902.08	75.73
34 41	13 00-0374	EA	12" THREE SECTION HOUSING (McCain M22435).....	620.46	50.49
34 41	13 00-0375	EA	12" FOUR SECTION HOUSING (McCain M30883).....	800.82	75.73
34 41	13 00-0376	EA	12" FIVE SECTION HOUSING (McCain M31769).....	930.69	75.73
34 41	13 00-0377	EA	12" CLUSTER, WITHOUT MAS (McCain M30987).....	995.63	75.73
34 41	13 00-0378	EA	CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650).....	620.46	50.49
34 41	13 00-0379	EA	NAVIGATOR iN2 APS 2 WIRE PPB #IN250N0-B (Polara iN250N0-B).....	620.46	50.49
34 41	13 00-0380	EA	NAVIGATOR iN2 CONTROLLER RACK MOUNT iCCU-C (Polara iCCU-C).....	3,600.19	176.72
34 41	13 00-0381	EA	NAVIGATOR iN2 INTERCONNECT BOARD iN2-ICB-C (Polara iN2-ICB-C).....	180.36	25.25
34 41	13 00-0382	EA	NAVIGATOR iN2 POWER SUPPLY iN2-150-WPS-C (Polara iN2-150-WPS-C).....	180.36	25.25
34 41	13 00-0383	EA	NAVIGATOR iN2 CONNECTOR iN2-C4CABLE-C (Polara iN2-c4cable-C).....	400.41	37.87
34 41	13 00-0384	EA	12" Visor (McCain M19302).....	33.18	10.10
34 41	13 00-0385	EA	LS,2202-HV (iPack), HDSP/FLASHER UNIT,ATC (McCain M36256).....	335.47	37.87
34 41	13 00-0386	EA	SIU,2218 SERIAL INTERFACE UNIT,ATC (McCain M36258).....	555.52	50.49
34 41	13 00-0387	EA	CMU,2212-HV (ip),32 CH W/ ETHERNET PORT, ATC (McCain M36259).....	1,028.09	75.73
34 41	13 00-0388	EA	ATCC-HV, INPUT ASSEMBLY, 24 CH W/ CONN IDC26 (McCain M54487).....	555.52	50.49
34 41	13 00-0389	EA	HARN, SB1/SB2,COMM EXTENSION (McCain M48062).....	115.43	25.25
34 41	13 00-0390	EA	ATCC-HV/LV, FITA ASSEMBLY, 24CH (McCain M54489).....	335.47	37.87
34 41	13 00-0391	EA	CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650).....	620.46	50.49
34 41	13 00-0392	EA	242L ISOLATOR, EDI (McCain M56812).....	115.43	25.25
34 41	13 00-0393	EA	EDI 222 DETECTOR (McCain M11407).....	147.89	25.25
34 41	13 00-0394	EA	ALPHA BBS, INVERTER & BYPASS SWITCH (McCain M59763).....	2,460.24	126.22
34 41	13 00-0395	EA	GENERATOR SWITCH AND PLUG ASS'Y FOR ALPHA BBS (McCain M68752-2).....	412.67	50.49
34 41	13 00-0396	EA	BBS BATTERY, ALPHACELL 165GXL (McCain M59884).....	555.52	50.49
34 41	13 00-0397	EA	Battery Backup Cabinet Anonidize 44x26x12 (McCain M64438A).....	1,157.96	75.73

34 41 16 Traffic Control Equipment (34 41)**34 41 16 00-0001 Transportation Control Equipment (34 41 16)**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0002 EA CONTROLLER/SL/POLE MTD/1-PHASE/100A.....	7,221.87	799.67
34 41 16 00-0003 EA CONTROLLER/SL/ON EMB POLE 1-PH/100A.....	7,313.99	845.72
34 41 16 00-0004 EA CONTROLLER, SL, 3-PHASE, 100A, BASE MTD.....	8,855.61	855.66
34 41 16 00-0005 EA CONTROLLER, SL, 3-PHASE, 200A, BASE MTD.....	10,534.44	1,038.92
34 41 16 00-0006 EA CONTROLLER/SL/BASE MTD/1-PHASE/100A.....	8,546.86	512.52
34 41 16 00-0007 EA CONTROLLER/SL/BASE MTD/1-PHASE/200A.....	9,473.61	561.11
34 41 16 00-0008 EA CONTROLLER, TS, 12-BAY, "M" CABINET.....	15,590.44	882.16
34 41 16 00-0009 EA CONTROLLER, TS, 12-BAY, "P" CABINET.....	16,606.76	977.60
34 41 16 00-0010 EA CONTROLLER, TS, 12-BAY "P" CABINET With FO MASTER.....	23,659.61	1,099.08
34 41 16 00-0011 EA CONTROLLER, TS, 16-BAY, "P" CABINET.....	18,797.63	1,041.24
34 41 16 00-0012 EA CONTROLLER, PEDESTRIAN CROSSING, ADD-IN.....	584.96	122.29
34 41 16 00-0013 EA CONCRETE BLOCK PEDESTAL.....	770.42	183.61
34 41 16 00-0014 WK MAINTAIN EXIST TS INSTALLATION.....	280.45	140.22
34 41 16 00-0015 EA INST SIGN BOARDS, ST. NAME.....	508.19	242.14
34 41 16 00-0016 EA F.O. ADD-IN FOR LOCAL CONTROLLER.....	7,853.57	315.76
34 41 16 00-0017 EA F.O. ADD-IN FOR MASTER CONTROLLER.....	18,900.80	473.77
34 41 16 00-0018 EA PDU Equipped netBooster With IEC320 C13 Outlets (Synaccess NP-0808DUH).....	744.74	13.15
34 41 16 00-0019 EA Remote Power Switched netBooster PDU, 8 Independent Outlets (Synaccess NP-0801DU).....	424.43	13.15
34 41 16 00-0020 Transportation Cabinets (34 41 16)		
34 41 16 00-0021 Transportation Cabinets (Dudlik Enclosures) (34 41 16 00-0020)		
34 41 16 00-0022 EA 50" x 30" x 17", Aluminum CCTV Cabinet (Dudlik Enclosures).....	1,984.89	151.47
34 41 16 00-0023 EA 66" x 48" x 30", Quad Door, 19" Racks, Aluminum CCTV Cabinet (Dudlik Enclosures).....	8,359.35	151.47
34 41 16 00-0024 EA 46" x 30" x 20", 19" Rack, Aluminum TTS Cabinet (Dudlik Enclosures).....	1,857.69	151.47
34 41 16 00-0025 EA 50" x 30" x 17", Aluminum ITS Controller Cabinet (Dudlik Enclosures).....	1,984.89	151.47
34 41 16 00-0026 EA 60" x 50" x 36", Quad Door, 19" Racks, Aluminum Fiber Cross Connect Cabinet (Dudlik Enclosures).....	8,642.03	151.47
34 41 16 00-0027 EA 55" x 16" x 17", Aluminum ITS Meter Cabinet (Dudlik Enclosures).....	1,292.32	151.47
34 41 16 00-0028 Transportation Cabinets (APX Enclosures) (34 41 16 00-0020)		
34 41 16 00-0029 EA 28" Wide, 16" Depth, 46" High, ITS Controller Cabinet (APX Enclosure LS503017).....	4,792.00	176.72
Note: 3R, single door, pad mounted aluminum enclosure. Includes natural finish, aluminum back panel, light kit with door switch, thermostatically controlled fan kit, heater kit with thermostat, one aluminum moveable shelf, and one aluminum moveable shelf with slide out drawer. Excludes pad.		
34 41 16 00-0030 Transportation Cabinets (Transportation Control Systems) (34 41 16 00-0020)		
34 41 16 00-0031 EA 30" Wide, 16" Depth, 48" High, Type 4, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B483016B2D2S).....	1,872.06	151.47
34 41 16 00-0032 EA 30" Wide, 16" Depth, 60" High, Type 4 Stretch, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B603016B2D2S).....	2,328.12	161.57
34 41 16 00-0033 Transportation Cabinets (McCain) (34 41 16 00-0020)		
34 41 16 00-0034 EA 24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 352).....	8,716.76	176.72
Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.		
34 41 16 00-0035 EA 24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 332).....	8,716.76	176.72
Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.		
34 41 16 00-0036 EA ATC ColdFire Controller (McCain 170).....	4,491.47	
34 41 16 00-0037 Traffic Control Equipment (34 41 16)		
34 41 16 00-0038 EA ProStar PWM Charge Controller 12/24 Volt, 15 Amperes Without Display (Morningstar PS-15).....	232.90	50.49
34 41 16 00-0039 EA ProStar PWM Charge Controller 12/24 Volt, 15 Amperes With Display (Morningstar PS-15M).....	304.38	50.49
34 41 16 00-0040 EA ProStar PWM Charge Controller 12/24 Volt, 30 Amperes With Display (Morningstar PS-30M).....	349.79	50.49
34 41 16 00-0041 EA ProStar PWM Charge Controller 12/24 Volt, 30 Amperes Without Display (Morningstar PS-30).....	272.59	50.49
34 41 16 00-0042 MLF 10 AWG, 2 Conductor, 600V, Type TC, Non-Shielded Control Tray Cable (EnerSys A51002R).....	2,157.41	553.48
34 41 16 00-0043 EA Vehicle Detector, Circuit Breaker, 0.2 Amperes, Wavetronix SmartSensor (Wavetronix WX-CLK-210-02).....	94.08	25.25
34 41 16 00-0044 EA Vehicle Detector, 2.4 GHz 12 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0141).....	420.22	57.56
34 41 16 00-0045 EA Detection System, Vehicle, Two Sensor Preassembled Backplate, with AC Power (Wavetronix WX-SSB01-0003).....	2,175.99	172.68
34 41 16 00-0046 EA Vehicle Detector, Power Supply, 24 Volt DC, 4 Amperes (Wavetronix WX-CLK-204).....	391.92	25.25
34 41 16 00-0047 EA Vehicle Detector, 4-Channel Contact Matrix Closure, Rack Card (Wavetronix WX-CLK-114).....	559.00	25.25
34 41 16 00-0048 EA 4 Channel Din-Rail Contact Closure Module (Wavetronix WX-CLK-104).....	645.81	50.49
34 41 16 00-0049 EA Detection System, Vehicle, Four Sensor Preassembled Backplate, With AC Power, Wavetronix Smartsensor (Wavetronix WX-SS-B01-0005).....	2,803.35	50.49
34 41 16 00-0050 EA 50' Wavetronix Wiring Whip (Wavetronix WX-SS-708-060).....	345.35	172.68
34 41 16 00-0051 EA 60', 6-Conductor Power And Communication Cable With Connector (Wavetronix WX-SS-704-060).....	413.24	43.17
34 41 16 00-0052 EA 900 MHz 5 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0119).....	362.10	57.56
34 41 16 00-0053 EA 900 MHz 9 dBi Yagi Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0120).....	231.34	57.56
34 41 16 00-0054 EA Wavetronix Click 201 AC To DC Power Converter (Wavetronix WX-CLK-201).....	246.63	25.25
34 41 16 00-0055 EA 24 Volt DC 2 Amperes, Wavetronix Smartsensor (Wavetronix WX-CLK-202).....	297.48	25.25
34 41 16 00-0056 EA Coax Surge N-Type, Wavetronix SmartSensor (Wavetronix WX-CLK-250).....	137.66	25.25
34 41 16 00-0057 EA Power, RS232/RS485 Surge, Wavetronix SmartSensor (Wavetronix WX-CLK-200).....	399.18	25.25
34 41 16 00-0058 EA Two Sensor Surge, Wavetronix SmartSensor (Wavetronix WX-CLK-222).....	450.03	25.25
34 41 16 00-0059 EA RS232 to RS485 Converter, Wavetronix SmartSensor (Wavetronix WX-CLK-304).....	559.00	25.25
34 41 16 00-0060 EA Wavetronix Click 301 Serial To Ethernet Converter (Wavetronix CLK-301).....	50.49	25.25
34 41 16 00-0061 EA Sensor Mount, Heavy Duty, 6 inch, 2 Axis Aluminum Bracket (Wavetronix WX-SS-611).....	369.36	57.56
34 41 16 00-0062 MLF LF, UV Resistant Polyethylene Jacketed Cable (Times Microwave Systems LMR-400).....	2,520.63	553.48
34 41 16 00-0063 EA N-Male (Plug) Clamp Connector (Times Microwave Systems TC-400-NMC).....	46.27	15.15

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0064 EA Spectra IV SE Back Box, Heavy-Duty, Pendant Mount (Pelco BB4HD-PG-E)	734.75	60.59
34 41 16 00-0065 EA Spectra III Clear Pendant Lower Dome, Heavy Duty (Pelco Id53hdpb-1)	716.57	75.73
34 41 16 00-0066 EA 24" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2000)	182.18	25.25
34 41 16 00-0067 EA 10" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2010)	132.17	25.25
34 41 16 00-0068 EA 24 Volt AC, Remote Data Port (Pelco IPS-RDPE-2)	353.65	25.25
34 41 16 00-0069 EA Spectra IV Remote Monitor Interface Cable (Pelco IPS-CABLE)	160.84	25.25
34 41 16 00-0070 EA 120 Volt AC, 12.5 Watt, 12 Volt DC, 600 mA, External Plug In Power Supply (Triad Magnetics WDU12-600)	67.02	25.25
34 41 16 00-0071 EA Control Area Network Direct Current Input/Output (Daktronics 0P-1247-0009)	536.85	50.49
Note: Input/Output for sign peripherals.		
34 41 16 00-0072 EA Control Area Network Direct Current Input/Output (Daktronics 0P-1247-4009)	536.85	50.49
Note: Input/Output for sign peripherals.		
34 41 16 00-0073 EA Control Area Network Distribution Board (Daktronics 0P-1248-0005)	1,009.03	50.49
Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.		
34 41 16 00-0074 EA Control Area Network Distribution Board (Daktronics 0P-1248-0011)	1,009.03	50.49
Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.		
34 41 16 00-0075 EA Control Area Network Temperature And Light Sensor (Daktronics 0P-1247-0019)	347.97	50.49
Note: Measures temperature and detects light and reports to CAN Dist Board.		
34 41 16 00-0076 EA Control Area Network Temperature, Light Sensor, And Humidity (Daktronics 0P-1247-0015)	493.26	50.49
Note: Measures temperature and detects light and humidity and reports to CAN Dist board.		
34 41 16 00-0077 EA Control Area Network Temperature, Light Sensor, And Humidity (Daktronics 0P-1247-0021)	493.26	50.49
Note: Measures temperature and detects light and humidity and reports to CAN Dist board.		
34 41 16 00-0078 EA Control Area Network Temperature And Light Sensor (Daktronics 0P-1247-0003)	406.09	50.49
Note: Measures temperature and detects light and reports to CAN Dist board.		
34 41 16 00-0079 EA Controller, VFC-3000 Field Controller NTCIPV1 (Daktronics 0A-1248-0016)	6,941.90	201.97
Note: The "brains" of the sign. Receives information from NTCIP central software and reports status and diagnostic information.		
34 41 16 00-0080 EA DC/DC, Direct Current to Direct Current Converter (Daktronics 0P-1247-0025)	297.48	25.25
Note: Takes 24 Volt DC input from two power supplies and outputs 9 Volt DC for CAN Dist Board, providing power redundancy.		
34 41 16 00-0081 EA Driver (Daktronics 0P-1100-0026)	560.23	40.40
Note: Driver takes data packets from Control Area Network to determine what pixels (LED clusters) are ON and which are OFF.		
34 41 16 00-0082 EA External Temp Sensor (Daktronics 0P-1100-0014)	494.85	40.40
Note: Sensor that measures ambient temperature.		
34 41 16 00-0083 EA Internal Temp Sensor (Daktronics 0P-1100-0038)	552.97	40.40
Note: Sensor that measures sign internal temperature.		
34 41 16 00-0084 EA Light Level Detector (Daktronics 0P-1151-0002)	335.03	40.40
Note: The values from the light sensors are used by the sign controller to determine the appropriate sign brightness.		
34 41 16 00-0085 EA Module (Daktronics 0A-1253-0608)	1,009.03	50.49
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0086 EA Module (Daktronics 0A-1253-3018)	1,263.29	50.49
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0087 EA Module (Daktronics 0A-1266-5002)	1,118.00	50.49
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0088 EA Module (Daktronics 0A-1332-6252)	1,553.86	50.49
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0089 EA Module (Daktronics 0A-1332-6455)	1,263.29	50.49
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0090 EA Module (Daktronics 0A-1332-6654)	1,263.29	50.49
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0091 EA Module (Daktronics 0P-1332-3015)	682.13	50.49
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0092 EA Module (Daktronics 0P-1332-4116)	682.13	50.49
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0093 EA Module (Daktronics 0P-1332-5031)	682.13	50.49
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0094 EA Module (Daktronics 0P-1332-5017)	682.13	50.49
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0095 EA Module Without Pan (Daktronics 0A-1253-0603)	1,009.03	50.49
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign).		
34 41 16 00-0096 EA Module Without Pan (Daktronics 0A-1253-1605)	1,009.03	50.49
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign).		
34 41 16 00-0097 EA Module Without Pan (Daktronics 0A-1254-1601)	1,009.03	50.49
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign).		
34 41 16 00-0098 EA Pixel Strip (Daktronics 0P-1100-0016)	355.23	50.49
Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.		
34 41 16 00-0099 EA Pixel Strip (Daktronics 0P-1100-0029)	413.35	50.49
Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.		
34 41 16 00-0100 EA Power Supply (Daktronics A-1593)	1,190.64	50.49
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0101 EA Power Supply (Daktronics A-1648)	1,190.64	50.49
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0102 EA Power Supply (Daktronics A-2307)	464.20	50.49
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0103 EA Surge Suppressor (Daktronics A-1129)	191.35	30.29
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0104 EA Surge Suppressor (Daktronics A-1412)	387.49	30.29
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0105 EA Surge Suppressor (Daktronics A-1772)	387.49	30.29
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0106 EA Surge Suppressor (Daktronics A-2139) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	569.10	30.29
34 41 16 00-0107 EA VCB, Vanguard Control Board (Daktronics 0P-1248-0022) Note: Receives high speed serial communication over fiber or CAT5 from VFC-3000 and reports sign status and peripheral diagnostics.	965.45	50.49
34 41 16 00-0108 EA VMS I/O, Variable Message Sign Input/Output (Daktronics 0P-1194-0001) Note: Input/Output board for sign peripherals.	1,299.61	50.49
34 41 16 00-0109 EA Power Supply Assembly (Daktronics A-1856R).....	863.74	50.49
34 41 16 00-0110 EA Power Supply Isolation Board (Daktronics 0P-1447-2000)	573.17	50.49
34 41 16 00-0111 EA Ventilation/Circulation Fan (Daktronics B-1075)	224.48	50.49
34 41 16 00-0112 EA VMS Controller (V2) (Daktronics 0A-1248-0028)	6,941.90	201.97
34 41 16 00-0113 EA Photo/Temp Sensor (Daktronics 0P-1247-0015)	493.26	50.49
34 41 16 00-0114 EA Defog Fan (Daktronics B-1053)	86.81	25.25
34 41 16 00-0115 EA Defog Heater (Daktronics A-1792).....	108.61	25.25
34 41 16 00-0116 EA Display Card 1500, 15' Clear (Ver-Mac PB-AFF-06023A-03 PF)	645.81	50.49
34 41 16 00-0117 EA Display Card 1500, 30' Amber (Ver-Mac PB-AFF-06023-01 PF)	645.81	50.49
34 41 16 00-0118 EA 1-Port Decoder With H.264 And High-Definition Technology (Verint S1801E-R).....	837.12	50.59
34 41 16 00-0119 EA 1-Port Video Encoder Featuring H.264 Technology With One Bi-directional Audio Channel And 12V DC Universal Power Supply (Verint S1801E).....	837.12	50.59
34 41 16 00-0120 EA 16-Port Video Encoder Featuring H.264 Technology (Verint S1816E)	4,461.16	50.59
34 41 16 00-0121 EA Encoder H.264 Compact, Hiperfmc (Verint S1802E).....	1,077.07	50.59
34 41 16 00-0122 EA 110 Volt AC To 12 Volt DC At 45 Watt, Transformer (Verint PS1261).....	152.29	25.25
34 41 16 00-0123 EA 1-Channel Encoder, H.264 Dual-Streaming, SD Card Slot (Bosch VIP-X1XF-E)	521.78	50.59
34 41 16 00-0124 EA Single/Quad-Stream Decoder (Bosch VIP-XD).....	1,336.80	50.59
34 41 16 00-0125 EA 1-Output, Outdoor-Rated CCTV Power Supply Unit, 24/26/28 Volt AC (Pelco WCS1-4)	245.95	50.49
34 41 16 00-0126 EA 4-Outputs, Outdoor-Rated CCTV Power Supply With Circuit Breaker, 24/28 Volt AC (Pelco WCS4-20B).....	541.77	50.49
34 41 16 00-0127 EA 12.5KVA, 12 Volt, 75Ah, UPS Battery (UPG UB12750).....	205.24	12.65
34 41 16 00-0128 EA Managed Ethernet Switch with 4 10/100TX Ports + 4 100FX Fiber Ports (EtherWAN EX71440-B0B).....	2,581.00	100.98
34 41 16 00-0129 EA Power Supply, Hardened, External 100-240 Volt AC Input; TS2 rated; 12 Volt DC Output Power (EtherWAN 41-136046-1).....	165.80	25.25
34 41 16 00-0130 EA 4kVA / 3.6kW Split-Phase Power Module (Eaton 9PXMSPPM).....	2,330.97	50.49
34 41 16 00-0131 EA 208-240 Volt, 4-20kVA Rack/Tower UPS (Eaton 9PXM).....	5,549.44	249.93
34 41 16 00-0132 EA 30 Amperes, 600 Volt, 3-Pole, Fusible, NEMA 3R Rainproof, Safety Switch (Square D H361RB).....	756.95	131.28
34 41 16 00-0133 EA 30 Amperes, 600 Volt, LKS Fuse (Eaton Bussmann LKS-30)	20.21	8.08
34 41 16 00-0134 EA 60 Amperes, 600 Volt, 3-Pole, Fusible, Heavy Duty, Safety Switch (Square D H362DS).....	1,922.18	100.98
34 41 16 00-0135 EA 60 Amperes, 600 Volt, Dual Element, Time-Delay Fuse (Eaton Bussmann FRS-R-60).....	42.29	8.08
34 41 16 00-0136 EA 50 Mbps, MIMO 2x2, 15 dBi Integrated Antenna (Proxim Wireless TSUNAMI QB-820).....	1,699.31	57.56
34 41 16 00-0137 EA Singlemode Loaded Fiber Adapter Panel, 6 Simplex SC/UPC Adapters (Multi-Link 10-4810)	102.95	38.37
34 41 16 00-0138 EA 12" x 6" x 5-1/2", 2 Panel, 2 Splice Dual Security Door, Compact Wall Mount Fiber Distribution Unit (Multilink 10-4469).....	279.07	50.49
34 41 16 00-0139 EA Single AC Inlet, 8 Nema 5-15 Outlets, Built-in AC Current Drawing Sensing Module (Synaccess NP-0801DT)	476.18	13.15
34 41 16 00-0140 EA Aggregated TRMS AC Current Sensing, One Readout For All Outlets (Synaccess NP-0801DT(H))	512.92	13.15
34 41 16 00-0141 EA 550 Watt, 120 Volt AC, Fan Heater With Adjustable Thermostat, 32-140 Degree Fahrenheit (Stego CR-027).....	276.01	20.19
34 41 16 00-0142 EA 10/100M Switch, 4 x 1G Combo, LAN Base (Cisco IE-4000-4TC4G-E).....	3,318.63	121.18
34 41 16 00-0143 EA 12 Port, 2 Panel, Wall Mount, Compact Fiber Distribution Unit (Multilink FWM012XLC).....	126.91	23.22
34 41 16 00-0144 EA 6-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel (Multilink MSC-06-SM-C-BLK)	32.13	5.05
34 41 16 00-0145 EA 170 Watt AC To DC, Industrial Ethernet Family Power Supply (Cisco PWR-IE170W-PC-AC).....	961.98	50.49
34 41 16 00-0146 EA 12 Port, Industrial Ethernet Layer 3 Switch Installed In Transportation Control Equipment (Cisco IE-4000-4GC4GP4G-E).....	3,330.91	100.98
34 41 16 00-0147 EA 2 KVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line Uninterruptible Power Supply (UPS) (Xtreme Power P90-3000)	2,463.88	166.62
34 41 16 00-0148 EA 100 Amperes, 16 Circuit, Main Lug Load Center Panelboard, 8-1 AWG, 120/240 Volt, Single Phase (Square D QO816L100DS).....	639.97	288.81
34 41 16 00-0149 EA 70 Amperes, 4 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase (Square D QO24L70S).....	446.31	201.97
34 41 16 00-0150 EA 60 Amperes, 120/240 Volt, 2 Pole Common Trip Miniature Circuit Breaker, Plug On Mounting (Square D QO260).....	88.84	27.26
34 41 16 00-0151 EA 15 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QOT1515).....	66.53	18.18
34 41 16 00-0152 EA 15 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120).....	53.39	18.18
34 41 16 00-0153 EA 20 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120).....	53.39	18.18
34 41 16 00-0154 EA One Output Outdoor-rated CCTV Power Supply Unit, 24/26/28 Volt AC At 4 Amperes Total Supply Current, Fuse Protected Output, UL Listed (Pelco WCS1-4).....	245.95	50.49
34 41 16 00-0155 EA DIN Rail Mount, Switching Power Supply (TKH Security PSR12DC)	230.66	25.30
34 41 16 00-0156 EA H.264 Multi-codec Video Encoder With Audio, Data And CC's (TKH Security C-60-E-MC)	2,099.17	25.30
34 41 16 00-0157 EA Expansion Power Module For IE-3000-4TC And IE-3000-8TC (Cisco PWR-IE50W-AC-IEC).....	410.35	13.15
34 41 16 00-0158 EA Traffic Monitoring System (BlueToad Spectra Cellular/Solar Version).....	8,430.03	172.68
34 41 16 00-0159 EA Ubiquiti Rocket M9 Wireless Access Point (ROCKETM9).....	336.94	57.56

34 70 Transportation Construction and Equipment ⁽³⁴⁾

34 71 Roadway Construction ^(34 70)

34 71 13 Vehicle Barriers ^(34 71)

34 71 13 13 Vehicle Median Barriers ^(34 71 13)

34 71 13 13-0001 Concrete Median Barrier ^(34 71 13 13)

34 71 13 13-0002	LF	Median Barrier, Precast, 42" High Single Face.....	74.38	3.64
34 71 13 13-0003	LF	Median Barrier, Precast, 32" High, 2' Wide Base, Double Face.....	104.94	3.64

34	Transportation
34 70	Transportation Construction and Equipment
34 71	Roadway Construction



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 13-0004 LF Median Barrier, Precast, 42" High, 2' Wide Base, Double Face.....	137.08	3.64
34 71 13 13-0005 LF Median Barrier, Cast In Place With Steel Forms.....	49.11	5.70
34 71 13 13-0006 LF Median Barrier, Slipformed Concrete.....	41.02	2.97
34 71 13 16 Vehicle Crash Barriers (34 71 13)		
34 71 13 16-0001 Impact Barrier, Non-Redirective (34 71 13 16)		
34 71 13 16-0002 Sand Barrel Impact Attenuator (34 71 13 16-0001) Note: Includes containers, inserts, and lid. Excludes sand.		
34 71 13 16-0003 EA 200, 400 Or 700 LB Sand Barrel..... Note: Includes containers, inserts, and lid.	644.12	43.43
34 71 13 16-0004 EA 1400 LB Sand Barrel..... Note: Includes containers, inserts, and lid.	596.36	50.99
34 71 13 16-0005 EA 2100 LB Sand Barrel..... Note: Includes containers, inserts, and lid.	642.11	58.54
34 71 13 16-0006 Sand For Sand Barrel Impact Attenuator (34 71 13 16-0001)		
34 71 13 16-0007 LB Sand for Sand Barrels.....	0.09	
34 71 13 26 Vehicle Guide Rails (34 71 13)		
34 71 13 26-0001 Mobilize Guide Rail Crew (34 71 13 26)		
34 71 13 26-0002 EA Mobilize Guide Rail Crew..... Note: Excludes equipment mobilization.	1,127.59	
34 71 13 26-0003 Corrugated Beam Guide Rail (34 71 13 26)		
34 71 13 26-0004 Corrugated Beam Guide Railing (34 71 13 26-0003)		
34 71 13 26-0005 Corrugated Beam Guide Railing, Straight Sections (34 71 13 26-0004) Note: Add additional length for back-up sections.		
34 71 13 26-0006 LF Corrugated Beam Guide Railing.....	16.34	2.02
34 71 13 26-0007 LF Corrugated Beam Guide Railing (Rustic).....	17.63	2.02
34 71 13 26-0008 Corrugated Beam Guide Railing, Shop Curved (34 71 13 26-0004) Note: Add additional length for back-up sections.		
34 71 13 26-0009 LF Shop Curved Corrugated Beam Guide Railing.....	21.39	2.02
34 71 13 26-0010 LF Shop Curved Corrugated Beam Guide Railing (Rustic).....	23.17	2.02
34 71 13 26-0011 LF Shop Curved Corrugated Beam Guide Railing End..... Note: Treatment for mall barriers driveways, walkways, special end, etc.	55.07	2.02
34 71 13 26-0012 LF Shop Curved Corrugated Beam Guide Railing (Rustic) End..... Note: Treatment for mall barriers shop curved corrugated beam guide railing end etc.	60.10	2.02
34 71 13 26-0013 Corrugated Beam Guide Railing, Manufactured End Sections (34 71 13 26-0003)		
34 71 13 26-0014 EA Corrugated Beam Guide Railing End Section At Anchor Unit.....	122.76	26.58
34 71 13 26-0015 EA Corrugated Beam Guide Railing End Section (Rustic) At Anchor Unit.....	129.64	26.58
34 71 13 26-0016 EA Corrugated Beam Guide Railing Flared Or 180 Degree End Section.....	164.00	26.58
34 71 13 26-0017 EA Corrugated Beam Guide Railing Flared Or 180 Degree End Section (Rustic).....	170.88	26.58
34 71 13 26-0018 EA Corrugated Beam Guide Railing 225 Degree End Section.....	164.00	26.58
34 71 13 26-0019 EA Corrugated Beam Guide Railing 225 Degree End Section (Rustic).....	170.88	26.58
34 71 13 26-0020 Corrugated Beam Guide Rail End Terminal Systems (34 71 13 26-0003) Note: Excludes post. As manufactured and distributed by R. G. Steel Corp.		
34 71 13 26-0021 EA Regent Flared End Terminal Head With Bracket, Type B & C.....	4,164.00	158.81
34 71 13 26-0022 EA Fleet Flared End Terminal Head With Bracket.....	3,476.65	158.80
34 71 13 26-0023 EA SKT 350 Tangent End Terminal Head With Bracket.....	4,164.00	158.80
34 71 13 26-0024 EA 12'-6" Corrugated Beam Pre-drilled #1 Panel.....	615.32	74.86
34 71 13 26-0025 EA Terminal Support System, Type SFT.....	757.98	200.17
34 71 13 26-0026 EA Terminal Support System, Type ET.....	3,593.32	566.52
34 71 13 26-0027 EA Terminal Support System, Type SRT.....	3,884.29	566.52
34 71 13 26-0028 Corrugated Beam Guide Rail Posts (34 71 13 26-0003) Note: Includes mounting hardware.		
34 71 13 26-0029 EA Standard Post For Corrugated Beam Guide Rail..... For Installation Without Soil Plate, Deduct For Installation In Rock, Add	128.36 -5.00 3.68	13.78
34 71 13 26-0030 EA Standard Post For (Rustic) Corrugated Beam Guide Rail..... For Installation Without Soil Plate, Deduct For Installation In Rock, Add	135.23 -5.00 3.68	13.78
34 71 13 26-0031 EA Extra Long Post For Corrugated Beam Guide Rail..... For Installation Without Soil Plate, Deduct For Installation In Rock, Add	142.10 -5.00 3.68	13.78



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0032 EA Extra Long Post (Rustic) for Corrugated Beam Guide Rail <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	148.98 -5.00 3.68	13.78
34 71 13 26-0033 EA 6B8-1/2" or Mall Barrier Post for Corrugated Beam Guide Rail..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	128.36 -5.00 3.68	13.78
34 71 13 26-0034 EA Post Struts for Corrugated Beam Guide Rail Mall Barrier Post..... <i>For Installation In Rock, Add</i>	183.34 3.68	13.78
34 71 13 26-0035 Heavy Post Blocked Out Corrugated Beam Guide Rail Posts (34 71 13 26-0003) Note: Includes mounting hardware. Excludes triangular mounting brackets.		
34 71 13 26-0036 EA Standard Post For Heavy Post Blocked Out Corrugated Beam Guide 128.36	128.36	13.78
34 71 13 26-0037 EA Standard Rustic Post For Heavy Post Blocked Out Corrugated Beam Guide..... 135.23	135.23	13.78
34 71 13 26-0038 EA Extra Long Post for Heavy Post Blocked Out Corrugated Beam Guide..... 142.10	142.10	13.78
34 71 13 26-0039 EA Extra Long Post (Rustic) For heavy post blocked out corrugated beam guide rail..... 148.98 Note: For heavy post blocked out corrugated beam guide (rustic)	148.98	13.78
34 71 13 26-0040 EA Type A Post 1630mm Post 124.92 Note: For heavy post blocked out corrugated beam guide rail	124.92	13.78
34 71 13 26-0041 EA Type A Post 1630mm Post (Rustic) 131.79 Note: For heavy post blocked out corrugated beam guide rail	131.79	13.78
34 71 13 26-0042 EA Type B Post 1460mm 118.05 Note: For heavy post blocked out corrugated beam guide rail	118.05	13.78
34 71 13 26-0043 EA Type B Post 1460mm (Rustic) 124.92 Note: For heavy post blocked out corrugated beam guide rail	124.92	13.78
34 71 13 26-0044 EA Type C Post 1290mm 111.17 Note: For heavy post blocked out corrugated beam guide rail	111.17	13.78
34 71 13 26-0045 EA Type C Post 1290mm (Rustic) 118.05 Note: For heavy post blocked out corrugated beam guide rail	118.05	13.78
34 71 13 26-0046 EA Breakaway Wood Or Steel Post In Steel Foundation Tube..... 473.13	473.13	13.78
34 71 13 26-0047 EA Wood, Metal, Plastic Or Composite Offset Block Or Beam 52.75 Note: For heavy post blocked out corrugated beam guide rail.	52.75	13.78
34 71 13 26-0048 Corrugated Beam Guide Rail Accessories (34 71 13 26-0003)		
34 71 13 26-0049 EA Triangular Mounting Brackets (Galvanized Or Rustic) For All Post Types A, B And C 109.02	109.02	30.20
34 71 13 26-0050 Corrugated Beam Guide Rail Repair for Existing Guide Rail (34 71 13 26-0003) Note: Includes associated hardware.		
34 71 13 26-0051 LF Removal And Storage Of Corrugated Beam Guide Railing And Post 11.80	11.80	
34 71 13 26-0052 EA Install Stored Post For Corrugated Beam Guide Rail..... 40.28	40.28	
34 71 13 26-0053 LF Install Stored Corrugated Beam Guide Railing And Post..... 6.84	6.84	
34 71 13 26-0054 Corrugated Thrie Beam Guide Railing (34 71 13 26-0003)		
34 71 13 26-0055 Corrugated Thrie Beam Guide Railing. Straight Sections (34 71 13 26-0054) Note: Add additional length for back-up sections.		
34 71 13 26-0056 LF Corrugated Thrie Beam Guide Railing 38.47	38.47	2.54
34 71 13 26-0057 LF Corrugated Thrie Beam Guide Railing (Rustic)..... 40.57	40.57	2.54
34 71 13 26-0058 Corrugated Thrie Beam Guide Railing. Shop Curved (34 71 13 26-0054) Note: Add additional length for back-up sections.		
34 71 13 26-0059 LF Shop Curved Corrugated Thrie Beam Guide Railing 46.85	46.85	2.54
34 71 13 26-0060 LF Shop Curved Corrugated Thrie Beam Guide Railing (Rustic)..... 48.95	48.95	2.54
34 71 13 26-0061 Corrugated Thrie Beam Guide Rail Posts (34 71 13 26-0054) Note: Includes hardware for mounting.		
34 71 13 26-0062 EA Standard Post For Corrugated Thrie Beam Guide Rail 154.60 <i>For Installation Without Soil Plate, Deduct</i> <i>For 32" Soil Plate, Add</i>	154.60 -5.00 7.00	2.54
34 71 13 26-0063 EA Standard Post (Rustic) For Corrugated Thrie Beam Guide Rail..... 161.47 <i>For Installation Without Soil Plate, Deduct</i> <i>For 32" Soil Plate, Add</i>	161.47 -5.00 7.00	2.54
34 71 13 26-0064 Timber Guide Rails (34 71 13 26) Note: Includes drilling and fasteners. Excludes excavation, auguring and concrete.		
34 71 13 26-0065 Timber Guide Rail Posts (34 71 13 26-0064)		
34 71 13 26-0066 EA 6" x 8" Timber Guide Rail Post..... 82.93	82.93	10.07
34 71 13 26-0067 EA 6" x 9" Timber Guide Rail Post..... 94.29	94.29	10.07
34 71 13 26-0068 EA 10" x 10" Timber Guide Rail Post..... 183.34	183.34	10.07
34 71 13 26-0069 EA 10" x 12" Timber Guide Rail Post..... 193.96	193.96	10.07
34 71 13 26-0070 EA 12" x 12" Timber Guide Rail Post..... 224.24	224.24	10.07
34 71 13 26-0071 Timber Guide Rails (34 71 13 26-0064) Note: Excludes posts, spacer blocks and steel backup plates.		
34 71 13 26-0072 LF 4" x 9" Timber Guide Rail..... 10.29	10.29	1.20

34	Transportation
34 70	Transportation Construction and Equipment
34 71	Roadway Construction



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0073 LF 6" x 10" Timber Guide Rail.....	14.38	1.20
34 71 13 26-0074 LF 6" x 12" Timber Guide Rail.....	16.78	1.20
34 71 13 26-0075 Spacer Blocks For Timber Guide Rails (34 71 13 26-0064)		
34 71 13 26-0076 EA 4" x 9" Spacer Block For Timber Guide Rails.....	13.40	1.61
34 71 13 26-0077 EA 6" x 8" Spacer Block For Timber Guide Rails.....	15.36	1.61
34 71 13 26-0078 EA 8" x 8" Spacer Block For Timber Guide Rails.....	17.86	1.61
34 71 13 26-0079 Weathering Steel Backup Plates For Timber Guide Rails (34 71 13 26-0064)		
34 71 13 26-0080 LF 6" High, Weathering Steel Backup Plate For Timber Guide Rails.....	18.40	1.00
34 71 13 26-0081 Weathering Steel Splice And Bearing Plates For Timber Guide Rails (34 71 13 26-0064)		
34 71 13 26-0082 EA Weathering Steel Splice Plate For Timber Guide Rails.....	129.42	14.09
34 71 13 26-0083 EA Weathering Steel Bearing Termination Plate For Timber Guide Rails.....	81.42	10.07
34 71 13 26-0084 Cable Guide Rail (34 71 13 26)		
34 71 13 26-0085 Cable Guide Rail (34 71 13 26-0084)		
34 71 13 26-0086 LF Cable (Each Cable)..... Note: Includes tensioning. Excludes splices.	8.76	2.18
34 71 13 26-0087 EA Cable Splice With Wedges.....	226.33	15.10
34 71 13 26-0088 Cable Guide Rail Posts (34 71 13 26-0084)		
Note: Includes hardware for cable mounting.		
34 71 13 26-0089 EA Standard Post for Cable Guide Rail..... For Installation Without Soil Plate, Deduct -5.00 For Installation In Rock, Add 12.26	164.38	45.96
34 71 13 26-0090 EA Standard Post (Rustic) for Cable Guide Rail..... For Installation Without Soil Plate, Deduct -5.00 For Installation In Rock, Add 12.26	171.26	45.96
34 71 13 26-0091 EA Extra Long Post for Cable Guide Rail..... For Installation Without Soil Plate, Deduct -5.00 For Installation In Rock, Add 12.26	171.26	45.96
34 71 13 26-0092 EA Extra Long Post (Rustic) for Cable Guide Rail..... For Installation Without Soil Plate, Deduct -5.00 For Installation In Rock, Add 12.26	178.13	45.96
34 71 13 26-0093 EA Slip Impact Post Top for Anchor Unit.....	106.99	18.38
34 71 13 26-0094 EA Slip Impact Post Base and Keeper Plate..... Note: For anchor unit.	278.83	18.38
34 71 13 26-0095 Cable Guide Rail Accessories For Breakaway Anchor Angle Systems (34 71 13 26-0084)		
34 71 13 26-0096 EA Turnbuckle Cable End Assembly For Use With Breakaway Anchors.....	502.71	201.76
34 71 13 26-0097 EA Turnbuckle Cable End Assembly.....	150.92	10.09
34 71 13 26-0098 EA Spring Cable End Assembly (Compensating Device) For Use With Breakaway Anchors.....	487.83	5.02
34 71 13 26-0099 EA Spring Cable End Assembly (Compensating Device) Without Turnbuckle.....	501.58	5.02
34 71 13 26-0100 EA Breakaway Anchor Angle.....	192.16	10.09
34 71 13 26-0101 EA Standard End Post Cap Assembly.....	89.17	5.02
34 71 13 26-0102 EA Driveway End Post Cap Assembly.....	75.43	5.02
34 71 13 26-0103 EA End Post Ground Support Plates.....	41.06	5.02
34 71 13 26-0104 EA 11" Stud Bolt, Cable Guide Rail.....	35.90	5.02
34 71 13 26-0105 EA 18" Stud Bolt, Cable Guide Rail.....	42.78	5.02
34 71 13 26-0106 EA 25" Stud Bolt, Cable Guide Rail.....	49.65	5.02
34 71 13 26-0107 EA 1-1/4" Diameter Turnbuckle, Cable Guide Rail.....	425.86	10.09
34 71 13 26-0108 EA 1-1/2" Diameter Turnbuckle, Cable Guide Rail.....	453.35	10.09
34 71 13 26-0109 EA 5/8" Diameter Turnbuckle With 12" Take-up And Shackle Ends, Cable Guide Rail.....	302.14	10.09
34 71 13 26-0110 EA 5/8" Eye Bolt 18" Long, Cable Guide Rail.....	185.40	5.02
34 71 13 26-0111 EA 3/4" Eye Bolt 8'-6" Long, Cable Guide Rail.....	192.16	10.09
34 71 13 26-0112 EA 1-5/8" Anchor Rod 10' Long With Plate, Cable Guide Rail.....	205.71	15.10
34 71 13 26-0113 Cable Guide Rail Accessories For Slip Impact Post Systems (34 71 13 26-0084)		
34 71 13 26-0114 EA Turnbuckle Cable End Assembly..... Note: For use with slip impact post.	343.51	15.35
34 71 13 26-0115 EA Spring Cable End Assembly (Compensating Device)..... Note: For use with slip impact post.	673.44	15.35
34 71 13 26-0116 EA Anchor Angle For Slip Impact Post System.....	199.17	15.35
34 71 13 26-0117 EA Cable End Assembly Rod..... Note: Includes cable end, threaded rod and keeper to anchor angle.	164.80	15.35
34 71 13 26-0118 Cable Guide Rail Repair For Existing Guide Rail (34 71 13 26-0084)		
Note: All tasks include associated hardware.		
34 71 13 26-0119 LF Retention Existing Cable (Each Cable).....	1.34	
34 71 13 26-0120 LF Removal And Storage Of Cable Guide Railing.....	8.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0121 EA Install Stored Post For Cable Guide Railing.....	.61.28	
34 71 13 26-0122 LF Install Stored Cable, (Each Cable)..... Note: Includes retensioning. Excludes splices.	3.59	
34 71 13 26-0123 6" x 6" Box Beam Guide Rail (34 71 13 26)		
34 71 13 26-0124 Box Beam Guide Rail, 6" x 6" (34 71 13 26-0123)		
34 71 13 26-0125 Straight Sections, Box Beam Guide Rail (34 71 13 26-0124)		
34 71 13 26-0126 LF Box Beam Guide Railing 6" x 6" x 3/16" Galvanized..... Note: Excludes splices.	46.33	2.54
<i>For Flush Mounting Directly To Structure, Add</i>	1.83	
34 71 13 26-0127 LF Box Beam Guide Railing 6" x 6" x 3/16" (Rustic) Note: Excludes splices.	52.61	2.54
<i>For Flush Mounting Directly To Structure, Add</i>	1.83	
34 71 13 26-0128 Shop Curved, Box Beam Guide Rail (34 71 13 26-0124)		
34 71 13 26-0129 LF Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" Galvanized Note: Excludes splices.	70.42	2.54
<i>For Shop Curved At <20' Radius, Add</i>	2.44	
<i>For Flush Mounting Directly To Structure, Add</i>	1.83	
34 71 13 26-0130 LF Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" (Rustic)..... Note: Excludes splices.	76.71	2.54
<i>For Shop Curved At <20' Radius, Add</i>	2.44	
<i>For Flush Mounting Directly To Structure, Add</i>	1.83	
34 71 13 26-0131 Box Beam Guide Rail End Treatment Sections (34 71 13 26-0123)		
Note: Includes rail, end cover plate and hardware only. Excludes posts and splice.		
34 71 13 26-0132 EA Box Beam End Piece Guide Railing Section..... Note: Galvanized excludes splices.	727.63	30.20
34 71 13 26-0133 EA Box Beam End Piece Guide Railing Section (Rustic) Note: Excludes splices.	803.24	30.20
34 71 13 26-0134 EA Box Beam Guide Railing End Treatment Section At Driveway, Galvanized..... Note: Excludes splices.	686.39	30.20
34 71 13 26-0135 EA Box Beam Guide Railing End Treatment Section At Driveway, (Rustic)..... Note: Excludes splices.	713.88	30.20
34 71 13 26-0136 Splices For Box Beam Guide Rail (34 71 13 26-0123)		
34 71 13 26-0137 EA Splice For Box Beam Guide Rail.....	192.77	44.84
34 71 13 26-0138 EA Splice For Box Beam Guide Rail (Rustic)	240.89	44.84
34 71 13 26-0139 Box Beam Guide Rail Posts (34 71 13 26-0123)		
Note: Includes hardware for box beam mounting.		
34 71 13 26-0140 EA Standard Post For Box Beam Guide Rail..... <i>For Installation Without Soil Plate, Deduct</i>	171.26	45.96
<i>For Installation In Rock, Add</i>	-5.00	
	12.26	
34 71 13 26-0141 EA Standard Post (Rustic) for Box Beam Guide Railing..... <i>For Installation Without Soil Plate, Deduct</i>	178.13	45.96
<i>For Installation In Rock, Add</i>	-5.00	
	12.26	
34 71 13 26-0142 EA Extra Long Post For Box Beam Guide Rail..... <i>For Installation Without Soil Plate, Deduct</i>	185.00	45.96
<i>For Installation In Rock, Add</i>	-5.00	
	12.26	
34 71 13 26-0143 EA Extra Long Post (Rustic) For Box Beam Guide Rail..... <i>For Installation Without Soil Plate, Deduct</i>	191.88	45.96
<i>For Installation In Rock, Add</i>	-5.00	
	12.26	
34 71 13 26-0144 EA Type I End Assembly Post..... <i>For Installation Without Soil Plate, Deduct</i>	164.38	45.96
<i>For Installation In Rock, Add</i>	-5.00	
	12.26	
34 71 13 26-0145 EA Type I End Assembly Post (Rustic)..... <i>For Installation Without Soil Plate, Deduct</i>	171.26	45.96
<i>For Installation In Rock, Add</i>	-5.00	
	12.26	
34 71 13 26-0146 EA Type II End Assembly Post..... <i>For Installation Without Soil Plate, Deduct</i>	157.51	45.96
<i>For Installation In Rock, Add</i>	-5.00	
	12.26	
34 71 13 26-0147 EA Type II End Assembly Post (Rustic)..... <i>For Installation Without Soil Plate, Deduct</i>	164.38	45.96
<i>For Installation In Rock, Add</i>	-5.00	
	12.26	
34 71 13 26-0148 Box Beam Guide Rail Accessories (34 71 13 26-0123)		
34 71 13 26-0149 EA Box Beam Guide Rail End Cover Plate.....	94.56	9.06
34 71 13 26-0150 EA Box Beam Guide Rail End Cover Plate (Rustic)	101.44	9.06
34 71 13 26-0151 Box Beam Guide Railing Repair, And Resetting (34 71 13 26-0123)		
Note: For existing guide rail.		
34 71 13 26-0152 LF Removal And Storage Of Box Beam Guide Rail And Post.....	3.98	
34 71 13 26-0153 LF Reset Box Beam Guide Rail	11.61	

34 Transportation**34 70 Transportation Construction and Equipment****34 71 Roadway Construction**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0154 6" x 8" Box Beam Median Barrier (34 71 13 26)		
34 71 13 26-0155 Box Beam Median Barrier, 6" x 8" (34 71 13 26-0154)		
34 71 13 26-0156 Straight Sections, Box Beam Median Barrier (34 71 13 26-0155)		
34 71 13 26-0157 LF Box Beam Median Barrier Galvanized Excludes Splices	78.07	9.06
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0158 LF Box Beam Median Barrier (Rustic) Excludes Splices	84.36	9.06
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0159 Shop Curved, Box Beam Median Barrier (34 71 13 26-0155)		
34 71 13 26-0160 LF Shop Curved Box Beam Median Barrier Galvanized	94.59	9.06
Note: Excludes splices.		
For Shop Curved At <20' Radius, Add	2.44	
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0161 LF Shop Curved Box Beam Median Barrier Rustic	115.22	9.06
Note: Excludes splices.		
For Shop Curved At <20' Radius, Add	2.44	
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0162 Box Beam Median Barrier End Treatment Sections (34 71 13 26-0154)		
Note: Includes rail, end cover plate and hardware. Excludes posts.		
34 71 13 26-0163 EA Box Beam Median Barrier Type A End Treatment Section, Galvanized	2,370.40	30.20
Note: Excludes splices and post.		
34 71 13 26-0164 EA Box Beam Median Barrier Type A End Treatment Section (Rustic)	2,425.38	30.20
Note: Excludes splices and post.		
34 71 13 26-0165 EA Box Beam Median Barrier Type B End Treatment Section, Galvanized	2,370.40	30.20
Note: Excludes splices and post.		
34 71 13 26-0166 EA Box Beam Median Barrier Type B End Treatment Section (Rustic)	2,425.38	30.20
Note: Excludes splices and post.		
34 71 13 26-0167 Splices For Box Beam Median Barrier (34 71 13 26-0154)		
34 71 13 26-0168 EA Splice for Box Beam Median Barrier	183.44	24.17
34 71 13 26-0169 EA Splice for Box Beam Median Barrier (Rustic)	286.54	24.17
34 71 13 26-0170 Box Beam Median Barrier Posts Driven With Soil Plate (34 71 13 26-0154)		
Note: Includes all associated hardware.		
34 71 13 26-0171 EA Standard Post for Box Beam Median Barrier	171.26	45.96
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	12.26	
34 71 13 26-0172 EA Standard Post (Rustic) for Box Beam Median Barrier	178.13	45.96
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	12.26	
34 71 13 26-0173 EA Extra Long Post for Box Beam Median Barrier	185.00	45.96
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	12.26	
34 71 13 26-0174 EA Extra Long Post (Rustic) for Box Beam Median Barrier	191.88	45.96
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	12.26	
34 71 13 26-0175 EA Type B End Treatment or Rub Back Anchor Post for Box Beam	157.51	45.96
Note: For median barrier.		
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	12.26	
34 71 13 26-0176 EA Type B End Treatment or Rub Back Anchor Post (Rustic)	157.51	45.96
Note: For box beam median barrier.		
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	12.26	
34 71 13 26-0177 EA Type I End Assembly Post for Box Beam Median Barrier to Concrete	185.00	45.96
Note: For median barrier transition.		
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	12.26	
34 71 13 26-0178 EA Type I End Assembly Post (Rustic) for Box Beam Median Barrier	191.88	45.96
Note: For Concrete median barrier transition.		
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	12.26	
34 71 13 26-0179 Box Beam Median Barrier Accessories (34 71 13 26-0154)		
34 71 13 26-0180 EA Box Beam Median Barrier End Cover Plate	118.14	21.26
34 71 13 26-0181 EA Box Beam Median Barrier End Cover Plate (Rustic)	125.01	21.26
34 71 13 26-0182 Box Beam Median Barrier Repair, And Resetting (34 71 13 26-0154)		
Note: For existing guide rail.		
34 71 13 26-0183 LF Removal And Storage Of Box Beam Median Barrier and Posts	4.11	
34 71 13 26-0184 LF Reset Box Beam Median Barrier	12.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0185 Universal Guide Rail Items <small>(34 71 13 26)</small>		
34 71 13 26-0186 Guide Rail Concrete Anchor Units For All Types Of Guide Rail <small>(34 71 13 26-0185)</small>		
<small>Note: For cast in place or precast. Includes excavation, formwork, concrete, reinforcement, anchor rods and/or imbedded plate. Excludes anchor angle. For anchor angles and other terminal connections, use accessories section for respective guide rail type.</small>		
34 71 13 26-0187 CY Guide Rail Concrete Anchor Unit.....	663.66	
<small>For Each Additional Set Of Anchor Rods, Add</small>	<small>38.00</small>	
34 71 13 26-0188 EA Reset Existing Anchorage Unit for All Types of Guide Rail.....	461.86	
<small>Note: Includes excavation and backfill.</small>		
34 71 13 26-0189 EA Removal Of Guide Rail Concrete Anchor Unit.....	510.00	
34 71 13 26-0190 Guide Rail Repair For All Types Of Existing Guide Rail <small>(34 71 13 26-0185)</small>		
<small>Note: All tasks include associated hardware.</small>		
34 71 13 26-0191 EA Straighten And Reset Driven Post For Guide Rail.....	61.28	
34 71 13 26-0192 EA Straighten And Reset Post Mounted On Concrete For Guide Rail.....	71.18	
<small>Note: With base plate for guide rail. Includes new anchor bolts.</small>		
34 71 13 26-0193 Additional Wood and Steel Posts <small>(34 71 13 26-0185)</small>		
34 71 13 26-0194 LF 4" x 6" Wood Post.....	53.11	15.35
<small>For Installation In Rock, Add</small>	<small>4.09</small>	
34 71 13 26-0195 LF 6" x 8" Wood Post.....	63.42	15.35
<small>For Installation In Rock, Add</small>	<small>4.09</small>	
34 71 13 26-0196 LF 6" x 7/8" Galvanized Steel Post.....	39.93	15.35
<small>For Installation In Rock, Add</small>	<small>4.09</small>	
34 71 13 26-0197 EA Base Plate With Anchor Bolts For Mounting Post On Concrete.....	368.69	15.35
34 71 13 26-0198 Accessories For All Types of Guide Rail <small>(34 71 13 26-0185)</small>		
34 71 13 26-0199 EA Reflector For Guard Rail.....	44.62	
34 71 13 26-0200 Resilient Guard Fence And Light Shield <small>(34 71 13 26)</small>		
34 71 13 26-0201 LF Resilient Guard Fence And Light Shield, Up To 6' High.....	63.38	6.05
34 71 13 26-0202 Individual Concrete Guard Rail Posts <small>(34 71 13 26)</small>		
34 71 13 26-0203 EA 6'-5" Concrete Guard Rail Posts, Round.....	95.17	6.05
34 71 13 26-0204 EA 6'-5" Concrete Posts, Square.....	106.30	6.80
34 71 13 26-0205 EA 6'-5" Concrete Posts, Triangular.....	103.22	6.80
34 71 13 26-0206 Guide Rail Transitions <small>(34 71 13 26)</small>		
34 71 13 26-0207 Transition Box Beam Guide Rail To Corrugated Beam <small>(34 71 13 26-0206)</small>		
34 71 13 26-0208 EA Box Beam To Corrugated Beam Rail Bolted Section.....	681.42	
34 71 13 26-0209 EA Box Beam To Corrugated Beam Rail Bolted Plate.....	406.48	
<small>Note: For making cable connections.</small>		
34 71 13 26-0210 Transition Box Beam Median Barrier To Corrugated Beam Median <small>(34 71 13 26-0206)</small>		
34 71 13 26-0211 EA Box Beam Median Barrier To Corrugated Beam Bolted Section.....	695.17	
34 71 13 26-0212 EA Box Beam Median Barrier To Corrugated Beam Harness Plate.....	406.48	
<small>Note: For making cable connections.</small>		
34 71 13 26-0213 Transition Box Beam Guide Rail To Cable Guide Rail <small>(34 71 13 26-0206)</small>		
34 71 13 26-0214 EA Box Beam to Cable Guide Rail U-bolt And Plate.....	95.64	16.11
34 71 13 26-0215 Transition Box Beam Median Barrier To Concrete Median Barrier <small>(34 71 13 26-0206)</small>		
34 71 13 26-0216 EA Box Beam Median Barrier To Concrete Barrier End Connection.....	956.36	
34 71 13 26-0217 Transition Thrie Beam To Concrete Median Barrier <small>(34 71 13 26-0206)</small>		
34 71 13 26-0218 EA Thrie Beam Terminal Connector At Concrete Median Barrier.....	612.69	
34 71 13 26-0219 EA Thrie Beam Transition Section To Corrugated Beam Guide Rail.....	784.52	
34 71 13 26-0220 Transition Railing (Monterey County) <small>(34 71 13 26)</small>		
<small>Note: Complete with rail, posts, transition and bolts.</small>		
34 71 13 26-0221 EA Transition Railing, Type WB-31 (Monterey County).....	2,987.10	2.02
34 71 16 Impact Attenuating Devices <small>(34 71)</small>		
34 71 16 00-0001 Guard Rail Energy Absorbing Terminals <small>(34 71 16)</small>		
<small>Note: Crushable foam cartridges surrounded by steel guardrail for narrow hazards. QuadGuard System as manufactured by Energy Absorption Systems, Inc.</small>		



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

34 71 16 00-0002	24" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0003	EA 24" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator.....	26,889.12	3,035.12
34 71 16 00-0004	EA 24" Wide, 5 Cartridge Bays Energy Absorbing Crash Attenuator.....	37,225.63	4,046.83
34 71 16 00-0005	EA 24" Wide, 7 Cartridge, Bays Energy Absorbing Crash Attenuator.....	50,655.70	5,311.46
34 71 16 00-0006	EA 24" Wide, 9 Cartridge, Bays Energy Absorbing Crash Attenuator.....	56,776.76	6,576.09
34 71 16 00-0007	30" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0008	EA 30" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator.....	29,057.06	3,414.51
34 71 16 00-0009	EA 30" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator.....	40,333.68	4,552.68
34 71 16 00-0010	EA 30" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator.....	55,230.67	6,070.24
34 71 16 00-0011	EA 30" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator.....	63,521.57	7,334.88
34 71 16 00-0012	36" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0013	EA 36" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator.....	31,246.96	3,793.90
34 71 16 00-0014	EA 36" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator.....	43,463.05	5,058.53
34 71 16 00-0015	EA 36" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator.....	59,279.26	6,702.55
34 71 16 00-0016	EA 36" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator.....	70,243.61	8,093.65
34 71 16 00-0017	69" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0018	EA 69" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator.....	33,881.99	4,173.29
34 71 16 00-0019	EA 69" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator.....	46,765.90	5,564.39
34 71 16 00-0020	EA 69" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator.....	64,020.42	7,334.88
34 71 16 00-0021	EA 69" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator.....	75,533.06	8,852.44
34 71 16 00-0022	90" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0023	EA 90" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator.....	36,581.48	4,552.68
34 71 16 00-0024	EA 90" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator.....	50,144.60	6,070.24
34 71 16 00-0025	EA 90" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator.....	69,419.43	8,093.65
34 71 16 00-0026	EA 90" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator.....	80,956.45	9,611.21
34 71 19	Vehicle Delineators (34 71)		
34 71 19 16	Flexible Vehicle Delineators (34 71 19)		
34 71 19 16-0001	EA 2' High, 3" Diameter Flexible Fixed Stanchion Delineator.....	70.95	7.55
34 71 19 16-0002	EA 3' High, 3" Diameter Flexible Fixed Stanchion Delineator.....	71.89	7.55
34 71 19 16-0003	EA 3-1/2' High, 3" Diameter Flexible Fixed Stanchion Delineator.....	72.82	7.55
34 71 19 16-0004	EA 4' High, 3" Diameter Flexible Fixed Stanchion Delineator.....	73.76	7.55
34 80	Bridges (34)		
34 82	Bridge Specialties (34 80)		
34 82 23	Bridge Railing (34 82)		
34 82 23 00-0001	Metal Bridge Railing (34 82 23)		
	Note: Includes hardware for bridge rail mounting.		
34 82 23 00-0002	LF 2" x 2" x 1/8" Bridge Railing.....	35.71	3.30
34 82 23 00-0003	LF 3" x 3" x 5/16" Bridge Railing.....	61.62	5.15
34 82 23 00-0004	LF 5" x 3" x 1/4" Bridge Railing.....	79.02	7.54
34 82 23 00-0005	LF 6" x 6" x 3/16" Bridge Railing.....	104.64	9.50
34 82 23 00-0006	LF 5" Outside Diameter x 1/4" Bridge Railing.....	84.27	7.33
34 82 23 00-0007	Bridge Post (34 82 23)		
	Note: Includes hardware for bridge post mounting.		
34 82 23 00-0008	EA 6" x 9" x 5'-6" Bridge Post.....	146.20	42.85
34 82 23 00-0009	EA 6" x 9" x 7' Bridge Post.....	181.18	45.54
34 82 23 00-0010	EA Two Rail With Base Plate Bridge Post Assembly.....	415.25	80.34
34 82 23 00-0011	EA Two Rail With Curb Bridge Post Assembly.....	508.79	85.69
34 82 23 00-0012	EA Two Rail (Curbless) Bridge Post Assembly.....	464.91	85.69
34 82 23 00-0013	EA Two Rail With Optional Handrail Bridge Post Assembly.....	558.32	85.69
34 82 23 00-0014	EA Three Rail With Base Plate Bridge Post Assembly.....	430.66	85.69
34 82 23 00-0015	EA Three Rail With Curb Bridge Post Assembly.....	584.25	88.38
34 82 23 00-0016	EA Three Rail (Curbless) Bridge Post Assembly.....	572.68	88.38
34 82 23 00-0017	EA Three Rail With Optional Handrail Bridge Post Assembly.....	704.03	88.38
34 82 23 00-0018	EA Four Rail (Curbless) With Base Plate Bridge Post.....	478.53	91.05
34 82 23 00-0019	EA Four Rail With Base Plate (Sidewalk Type) Bridge Post.....	478.65	91.05
34 82 23 00-0020	EA Four Rail With Curb Bridge Post Assembly.....	713.41	91.05
34 82 23 00-0021	EA Four Rail (Curbless) Bridge Post Assembly.....	732.48	91.05
34 82 23 00-0022	EA Five Rail With Base Plate (Curbless) Bridge Post Assembly.....	531.88	96.41
34 82 23 00-0023	Bridge Railing Splices (34 82 23)		
	Note: Includes hardware for splices.		



Transportation	34	34
Bridges	34 80	
Bridge Specialties	34 82	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 82 23 00-0024 EA 5" Outside Diameter Bridge Railing Splice.....	218.41	20.51
34 82 23 00-0025 EA 5" x 3" Bridge Railing Splice.....	130.14	17.95
34 82 23 00-0026 EA 3" x 3" Bridge Railing Splice.....	80.15	12.82
34 82 23 00-0027 EA 2" x 2" Bridge Railing Splice.....	40.94	9.23
34 82 23 00-0028 EA 5" x 5" x 3' Expansion Splice Tube.....	166.02	19.83
34 82 23 00-0029 EA 4" x 2" x 3' Expansion Splice Bar.....	176.74	19.83
34 82 23 00-0030 EA 5" x 5" x 2' Fixed Splice Tube.....	151.92	19.83
34 82 23 00-0031 EA 4" x 2" x 2' Fixed Splice Bar.....	155.79	19.83
34 82 23 00-0032 EA 6" x 6" x 3/16" Box x 9' Flare Tube.....	224.17	26.79
34 82 23 00-0033 Transition For Bridge Railing (34 82 23)		
Note: Includes hardware for transition for bridge railing.		
34 82 23 00-0034 EA Two Rail Box Beam To Bridge Transition With Splices.....	915.14	107.13
34 82 23 00-0035 EA Three Rail Box Beam To Bridge Transition With Splices.....	973.71	112.48
34 82 23 00-0036 EA Four Rail Box Beam To Bridge Transition With Splices.....	1,133.85	117.84
34 82 23 00-0037 EA 6" x 6" x 16-1/2' Bottom Transition Tube.....	387.60	53.56
34 82 23 00-0038 EA 6" x 6" x 22' Bottom Transition Tube.....	476.97	58.92
34 82 23 00-0039 EA 8" x 6" x 16-1/2' Bottom Transition Tube.....	450.72	53.56
34 82 23 00-0040 EA 6" x 6" x 16-1/2' Top Transition Tube.....	397.08	53.56
34 82 23 00-0041 EA 6" x 6" x 21-1/2' Top Transition Tube.....	469.13	58.92
34 82 23 00-0042 EA 8" x 6" x 16-1/2' Top Transition Tube.....	462.49	53.56
34 82 23 00-0043 EA 6" x 6" x 16-1/2' Middle Transition Tube.....	374.59	53.56
34 82 23 00-0044 EA 8" x 6" x 16-1/2' Middle Transition Tube.....	456.60	53.56
34 82 23 00-0045 Anchor Plates And End Caps For Bridge Railing (34 82 23)		
34 82 23 00-0046 EA 14" x 14" Bridge Railing Anchor Plate.....	40.87	5.13
34 82 23 00-0047 EA 18" x 22" Deck Anchor Plate.....	245.87	25.64
34 82 23 00-0048 EA 2" x 2" Bridge Railing End Cap.....	32.94	2.57
34 82 23 00-0049 EA 3" x 3" Bridge Railing End Cap.....	20.75	2.57
34 82 23 00-0050 EA 5" O.D Bridge Railing End Cap.....	20.60	2.57
34 82 26 Bridge Slope Protection (34 82)		
34 82 26 00-0001 Bridge Slope Protection (34 82 26)		
Note: Solid concrete masonry unit installed in sand bedding.		
34 82 26 00-0002 SF 8" x 16" x 4" Solid Concrete Block, Bridge Slope Protection.....	12.81	5.12
34 82 26 00-0003 SF 8" x 16" x 6" Solid Concrete Block, Bridge Slope Protection.....	15.13	5.64
34 82 26 00-0004 SF 8" x 16" x 8" Solid Concrete Block, Bridge Slope Protection.....	16.65	5.99

END OF SECTION 34

34	34	Transportation
	34 80	Bridges
	34 82	Bridge Specialties



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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35 Waterway and Marine Construction

35 05 Common Work Results for Waterway and Marine Construction ⁽³⁵⁾

35 05 70 Common Work Results for Dams ^(35 05)

35 05 70 00-0001 Rubber Dam Repair ^(35 05 70)

35 05 70 00-0002	EA	Class A Rubber Dam Repair (Bullet And Similar Holes)	30.26
35 05 70 00-0003	SF	Class B Rubber Dam Repair (Minor Surface Rubber Damage)	59.86
35 05 70 00-0004	SF	Class C Rubber Dam Repair (Major Surface Rubber Damage)	88.05
35 05 70 00-0005	SF	Class D Rubber Dam Repair (Serious Surface Rubber Damage), Per Layer Of Material	98.05

END OF SECTION 35

35 Waterway and Marine Construction

35 05 Common Work Results for Waterway and Marine Construction

35 05 70 Common Work Results for Dams



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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40 Process Interconnections

40 05 Common Work Results For Process Interconnections ⁽⁴⁰⁾

40 05 19 Ductile Iron Process Pipe ^(40 05)

40 05 19 00-0001	Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Piping ^(40 05 19) <small>Note: C110 Fittings, 350 PSI rating for 2" - 24" sizes, 250 PSI rating for 30" - 48" sizes. Pipe barrels conform to ANSI/AWWA C151/A21.51. The bolt holes are aligned per ANSI/AWWA C115/A21.15. Flanged fittings conform to ANSI/AWWA C110/A21.10. Interiors shall be cement lined in accordance with ANSI/AWWA C104/A21.04. Exterior shall be bituminous coating, in accordance with ANSI/AWWA C104/A21.04. See CSI section 40 05 19 00-2059 for bolts, 40 05 19 00-2074 for gaskets.</small>		
40 05 19 00-0002	Flanged End (FxF), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ^(40 05 19 00-0001)		
40 05 19 00-0003	4" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ^(40 05 19 00-0002)		
40 05 19 00-0004	EA 4" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	575.26	205.55
	For Class 52 Rating, Deduct	-29.02	
	For Class 54 Rating, Add	19.79	
	For Class 55 Rating, Add	43.98	
40 05 19 00-0005	EA 4" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	608.94	209.14
	For Class 52 Rating, Deduct	-32.13	
	For Class 54 Rating, Add	21.90	
	For Class 55 Rating, Add	48.68	
40 05 19 00-0006	EA 4" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	642.60	212.73
	For Class 52 Rating, Deduct	-35.23	
	For Class 54 Rating, Add	24.02	
	For Class 55 Rating, Add	53.39	
40 05 19 00-0007	EA 4" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	676.27	216.33
	For Class 52 Rating, Deduct	-38.34	
	For Class 54 Rating, Add	26.14	
	For Class 55 Rating, Add	58.09	
40 05 19 00-0008	EA 4" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	709.95	219.92
	For Class 52 Rating, Deduct	-41.44	
	For Class 54 Rating, Add	28.25	
	For Class 55 Rating, Add	62.80	
40 05 19 00-0009	EA 4" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	743.62	223.51
	For Class 52 Rating, Deduct	-44.55	
	For Class 54 Rating, Add	30.37	
	For Class 55 Rating, Add	67.51	
40 05 19 00-0010	EA 4" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	777.30	227.11
	For Class 52 Rating, Deduct	-47.65	
	For Class 54 Rating, Add	32.49	
	For Class 55 Rating, Add	72.21	
40 05 19 00-0011	EA 4" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	810.97	230.70
	For Class 52 Rating, Deduct	-50.76	
	For Class 54 Rating, Add	34.61	
	For Class 55 Rating, Add	76.92	
40 05 19 00-0012	EA 4" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	844.64	234.30
	For Class 52 Rating, Deduct	-53.86	
	For Class 54 Rating, Add	36.72	
	For Class 55 Rating, Add	81.62	
40 05 19 00-0013	EA 4" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	878.31	237.89
	For Class 52 Rating, Deduct	-56.97	
	For Class 54 Rating, Add	38.84	
	For Class 55 Rating, Add	86.33	
40 05 19 00-0014	EA 4" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	911.98	241.48
	For Class 52 Rating, Deduct	-60.07	
	For Class 54 Rating, Add	40.96	
	For Class 55 Rating, Add	91.03	
40 05 19 00-0015	EA 4" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	945.65	245.08
	For Class 52 Rating, Deduct	-63.18	
	For Class 54 Rating, Add	43.07	
	For Class 55 Rating, Add	95.74	
40 05 19 00-0016	EA 4" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	979.33	248.67
	For Class 52 Rating, Deduct	-66.28	
	For Class 54 Rating, Add	45.19	
	For Class 55 Rating, Add	100.45	
40 05 19 00-0017	EA 4" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,013.00	252.26
	For Class 52 Rating, Deduct	-69.39	
	For Class 54 Rating, Add	47.31	
	For Class 55 Rating, Add	105.15	
40 05 19 00-0018	EA 4" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,046.68	255.86
	For Class 52 Rating, Deduct	-72.49	
	For Class 54 Rating, Add	49.43	
	For Class 55 Rating, Add	109.86	
40 05 19 00-0019	EA 4" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,080.35	259.45
	For Class 52 Rating, Deduct	-75.60	
	For Class 54 Rating, Add	51.54	
	For Class 55 Rating, Add	114.56	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0020	EA		4" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,114.01	263.04
			<i>For Class 52 Rating, Deduct</i>	-78.70	
			<i>For Class 54 Rating, Add</i>	53.66	
			<i>For Class 55 Rating, Add</i>	119.27	
40 05 19 00-0021	EA		4" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,147.69	266.64
			<i>For Class 52 Rating, Deduct</i>	-81.81	
			<i>For Class 54 Rating, Add</i>	55.78	
			<i>For Class 55 Rating, Add</i>	123.97	
40 05 19 00-0022	EA		4" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,181.36	270.23
			<i>For Class 52 Rating, Deduct</i>	-84.91	
			<i>For Class 54 Rating, Add</i>	57.89	
			<i>For Class 55 Rating, Add</i>	128.68	
40 05 19 00-0023	EA		4" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,215.04	273.82
			<i>For Class 52 Rating, Deduct</i>	-88.02	
			<i>For Class 54 Rating, Add</i>	60.01	
			<i>For Class 55 Rating, Add</i>	133.39	
40 05 19 00-0024	EA		4" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,248.71	277.42
			<i>For Class 52 Rating, Deduct</i>	-91.12	
			<i>For Class 54 Rating, Add</i>	62.13	
			<i>For Class 55 Rating, Add</i>	138.09	
40 05 19 00-0025	EA		4" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,282.38	281.01
			<i>For Class 52 Rating, Deduct</i>	-94.23	
			<i>For Class 54 Rating, Add</i>	64.25	
			<i>For Class 55 Rating, Add</i>	142.80	
40 05 19 00-0026	EA		4" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,316.06	284.60
			<i>For Class 52 Rating, Deduct</i>	-97.33	
			<i>For Class 54 Rating, Add</i>	66.36	
			<i>For Class 55 Rating, Add</i>	147.50	
40 05 19 00-0027	EA		4" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,349.72	288.20
			<i>For Class 52 Rating, Deduct</i>	-100.44	
			<i>For Class 54 Rating, Add</i>	68.48	
			<i>For Class 55 Rating, Add</i>	152.21	
40 05 19 00-0028	EA		4" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,383.39	291.79
			<i>For Class 52 Rating, Deduct</i>	-103.54	
			<i>For Class 54 Rating, Add</i>	70.60	
			<i>For Class 55 Rating, Add</i>	156.91	
40 05 19 00-0029	EA		4" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,417.07	295.38
			<i>For Class 52 Rating, Deduct</i>	-106.65	
			<i>For Class 54 Rating, Add</i>	72.71	
			<i>For Class 55 Rating, Add</i>	161.62	
40 05 19 00-0030	EA		4" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,450.74	298.98
			<i>For Class 52 Rating, Deduct</i>	-109.75	
			<i>For Class 54 Rating, Add</i>	74.83	
			<i>For Class 55 Rating, Add</i>	166.32	
40 05 19 00-0031	EA		4" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,484.42	302.57
			<i>For Class 52 Rating, Deduct</i>	-112.86	
			<i>For Class 54 Rating, Add</i>	76.95	
			<i>For Class 55 Rating, Add</i>	171.03	
40 05 19 00-0032	EA		4" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,518.09	306.16
			<i>For Class 52 Rating, Deduct</i>	-115.96	
			<i>For Class 54 Rating, Add</i>	79.07	
			<i>For Class 55 Rating, Add</i>	175.74	
40 05 19 00-0033	EA		4" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,551.76	309.76
			<i>For Class 52 Rating, Deduct</i>	-119.07	
			<i>For Class 54 Rating, Add</i>	81.18	
			<i>For Class 55 Rating, Add</i>	180.44	
40 05 19 00-0034	EA		4" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,585.43	313.35
			<i>For Class 52 Rating, Deduct</i>	-122.17	
			<i>For Class 54 Rating, Add</i>	83.30	
			<i>For Class 55 Rating, Add</i>	185.15	
40 05 19 00-0035	EA		4" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,619.10	316.94
			<i>For Class 52 Rating, Deduct</i>	-125.28	
			<i>For Class 54 Rating, Add</i>	85.42	
			<i>For Class 55 Rating, Add</i>	189.85	
40 05 19 00-0036	EA		4" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,652.78	320.54
			<i>For Class 52 Rating, Deduct</i>	-128.38	
			<i>For Class 54 Rating, Add</i>	87.53	
			<i>For Class 55 Rating, Add</i>	194.56	
40 05 19 00-0037	EA		4" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,686.45	324.13
			<i>For Class 52 Rating, Deduct</i>	-131.49	
			<i>For Class 54 Rating, Add</i>	89.65	
			<i>For Class 55 Rating, Add</i>	199.26	
40 05 19 00-0038	EA		4" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,720.12	327.73
			<i>For Class 52 Rating, Deduct</i>	-134.59	
			<i>For Class 54 Rating, Add</i>	91.77	
			<i>For Class 55 Rating, Add</i>	203.97	
40 05 19 00-0039	EA		4" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,753.80	331.32
			<i>For Class 52 Rating, Deduct</i>	-137.70	
			<i>For Class 54 Rating, Add</i>	93.88	
			<i>For Class 55 Rating, Add</i>	208.67	
40 05 19 00-0040	EA		4" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,787.47	334.91
			<i>For Class 52 Rating, Deduct</i>	-140.80	
			<i>For Class 54 Rating, Add</i>	96.00	
			<i>For Class 55 Rating, Add</i>	213.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0041 EA 4" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,821.13	338.51
<i>For Class 52 Rating, Deduct</i>	-143.91	
<i>For Class 54 Rating, Add</i>	98.12	
<i>For Class 55 Rating, Add</i>	218.08	
40 05 19 00-0042 EA 4" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,854.81	342.10
<i>For Class 52 Rating, Deduct</i>	-147.01	
<i>For Class 54 Rating, Add</i>	100.24	
<i>For Class 55 Rating, Add</i>	222.79	
40 05 19 00-0043 6" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0044 EA 6" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	727.51	258.73
<i>For Class 52 Rating, Deduct</i>	-36.90	
<i>For Class 54 Rating, Add</i>	25.16	
<i>For Class 55 Rating, Add</i>	55.92	
40 05 19 00-0045 EA 6" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	767.68	262.32
<i>For Class 52 Rating, Deduct</i>	-40.72	
<i>For Class 54 Rating, Add</i>	27.77	
<i>For Class 55 Rating, Add</i>	61.72	
40 05 19 00-0046 EA 6" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	807.87	265.92
<i>For Class 52 Rating, Deduct</i>	-44.55	
<i>For Class 54 Rating, Add</i>	30.37	
<i>For Class 55 Rating, Add</i>	67.51	
40 05 19 00-0047 EA 6" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	848.05	269.51
<i>For Class 52 Rating, Deduct</i>	-48.37	
<i>For Class 54 Rating, Add</i>	32.98	
<i>For Class 55 Rating, Add</i>	73.30	
40 05 19 00-0048 EA 6" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	888.24	273.10
<i>For Class 52 Rating, Deduct</i>	-52.19	
<i>For Class 54 Rating, Add</i>	35.58	
<i>For Class 55 Rating, Add</i>	79.09	
40 05 19 00-0049 EA 6" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	928.43	276.70
<i>For Class 52 Rating, Deduct</i>	-56.01	
<i>For Class 54 Rating, Add</i>	38.19	
<i>For Class 55 Rating, Add</i>	84.88	
40 05 19 00-0050 EA 6" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	968.62	280.29
<i>For Class 52 Rating, Deduct</i>	-59.83	
<i>For Class 54 Rating, Add</i>	40.79	
<i>For Class 55 Rating, Add</i>	90.67	
40 05 19 00-0051 EA 6" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,008.81	283.88
<i>For Class 52 Rating, Deduct</i>	-63.65	
<i>For Class 54 Rating, Add</i>	43.40	
<i>For Class 55 Rating, Add</i>	96.46	
40 05 19 00-0052 EA 6" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,048.98	287.48
<i>For Class 52 Rating, Deduct</i>	-67.48	
<i>For Class 54 Rating, Add</i>	46.01	
<i>For Class 55 Rating, Add</i>	102.26	
40 05 19 00-0053 EA 6" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,089.17	291.07
<i>For Class 52 Rating, Deduct</i>	-71.30	
<i>For Class 54 Rating, Add</i>	48.61	
<i>For Class 55 Rating, Add</i>	108.05	
40 05 19 00-0054 EA 6" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,129.36	294.67
<i>For Class 52 Rating, Deduct</i>	-75.12	
<i>For Class 54 Rating, Add</i>	51.22	
<i>For Class 55 Rating, Add</i>	113.84	
40 05 19 00-0055 EA 6" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,169.54	298.26
<i>For Class 52 Rating, Deduct</i>	-78.94	
<i>For Class 54 Rating, Add</i>	53.82	
<i>For Class 55 Rating, Add</i>	119.63	
40 05 19 00-0056 EA 6" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,209.74	301.85
<i>For Class 52 Rating, Deduct</i>	-82.76	
<i>For Class 54 Rating, Add</i>	56.43	
<i>For Class 55 Rating, Add</i>	125.42	
40 05 19 00-0057 EA 6" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,249.93	305.45
<i>For Class 52 Rating, Deduct</i>	-86.58	
<i>For Class 54 Rating, Add</i>	59.03	
<i>For Class 55 Rating, Add</i>	131.21	
40 05 19 00-0058 EA 6" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,290.11	309.04
<i>For Class 52 Rating, Deduct</i>	-90.40	
<i>For Class 54 Rating, Add</i>	61.64	
<i>For Class 55 Rating, Add</i>	137.00	
40 05 19 00-0059 EA 6" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,330.29	312.63
<i>For Class 52 Rating, Deduct</i>	-94.23	
<i>For Class 54 Rating, Add</i>	64.25	
<i>For Class 55 Rating, Add</i>	142.80	
40 05 19 00-0060 EA 6" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,370.47	316.23
<i>For Class 52 Rating, Deduct</i>	-98.05	
<i>For Class 54 Rating, Add</i>	66.85	
<i>For Class 55 Rating, Add</i>	148.59	
40 05 19 00-0061 EA 6" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,410.66	319.82
<i>For Class 52 Rating, Deduct</i>	-101.87	
<i>For Class 54 Rating, Add</i>	69.46	
<i>For Class 55 Rating, Add</i>	154.38	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0062	EA	6" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,450.86	323.41
		<i>For Class 52 Rating, Deduct</i>	-105.69	
		<i>For Class 54 Rating, Add</i>	72.06	
		<i>For Class 55 Rating, Add</i>	160.17	
40 05 19 00-0063	EA	6" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,491.04	327.01
		<i>For Class 52 Rating, Deduct</i>	-109.51	
		<i>For Class 54 Rating, Add</i>	74.67	
		<i>For Class 55 Rating, Add</i>	165.96	
40 05 19 00-0064	EA	6" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,531.23	330.60
		<i>For Class 52 Rating, Deduct</i>	-113.33	
		<i>For Class 54 Rating, Add</i>	77.27	
		<i>For Class 55 Rating, Add</i>	171.75	
40 05 19 00-0065	EA	6" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,571.42	334.19
		<i>For Class 52 Rating, Deduct</i>	-117.16	
		<i>For Class 54 Rating, Add</i>	79.88	
		<i>For Class 55 Rating, Add</i>	177.54	
40 05 19 00-0066	EA	6" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,611.59	337.79
		<i>For Class 52 Rating, Deduct</i>	-120.98	
		<i>For Class 54 Rating, Add</i>	82.48	
		<i>For Class 55 Rating, Add</i>	183.33	
40 05 19 00-0067	EA	6" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,651.79	341.38
		<i>For Class 52 Rating, Deduct</i>	-124.80	
		<i>For Class 54 Rating, Add</i>	85.09	
		<i>For Class 55 Rating, Add</i>	189.13	
40 05 19 00-0068	EA	6" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,691.97	344.97
		<i>For Class 52 Rating, Deduct</i>	-128.62	
		<i>For Class 54 Rating, Add</i>	87.70	
		<i>For Class 55 Rating, Add</i>	194.92	
40 05 19 00-0069	EA	6" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,732.16	348.57
		<i>For Class 52 Rating, Deduct</i>	-132.44	
		<i>For Class 54 Rating, Add</i>	90.30	
		<i>For Class 55 Rating, Add</i>	200.71	
40 05 19 00-0070	EA	6" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,772.35	352.16
		<i>For Class 52 Rating, Deduct</i>	-136.26	
		<i>For Class 54 Rating, Add</i>	92.91	
		<i>For Class 55 Rating, Add</i>	206.50	
40 05 19 00-0071	EA	6" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,812.53	355.75
		<i>For Class 52 Rating, Deduct</i>	-140.09	
		<i>For Class 54 Rating, Add</i>	95.51	
		<i>For Class 55 Rating, Add</i>	212.29	
40 05 19 00-0072	EA	6" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,852.72	359.35
		<i>For Class 52 Rating, Deduct</i>	-143.91	
		<i>For Class 54 Rating, Add</i>	98.12	
		<i>For Class 55 Rating, Add</i>	218.08	
40 05 19 00-0073	EA	6" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,892.90	362.95
		<i>For Class 52 Rating, Deduct</i>	-147.73	
		<i>For Class 54 Rating, Add</i>	100.72	
		<i>For Class 55 Rating, Add</i>	223.88	
40 05 19 00-0074	EA	6" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,933.09	366.55
		<i>For Class 52 Rating, Deduct</i>	-151.55	
		<i>For Class 54 Rating, Add</i>	103.33	
		<i>For Class 55 Rating, Add</i>	229.67	
40 05 19 00-0075	EA	6" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,973.28	370.14
		<i>For Class 52 Rating, Deduct</i>	-155.37	
		<i>For Class 54 Rating, Add</i>	105.94	
		<i>For Class 55 Rating, Add</i>	235.46	
40 05 19 00-0076	EA	6" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,013.46	373.73
		<i>For Class 52 Rating, Deduct</i>	-159.19	
		<i>For Class 54 Rating, Add</i>	108.54	
		<i>For Class 55 Rating, Add</i>	241.25	
40 05 19 00-0077	EA	6" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,053.65	377.33
		<i>For Class 52 Rating, Deduct</i>	-163.01	
		<i>For Class 54 Rating, Add</i>	111.15	
		<i>For Class 55 Rating, Add</i>	247.04	
40 05 19 00-0078	EA	6" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,093.85	380.92
		<i>For Class 52 Rating, Deduct</i>	-166.84	
		<i>For Class 54 Rating, Add</i>	113.75	
		<i>For Class 55 Rating, Add</i>	252.83	
40 05 19 00-0079	EA	6" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,134.03	384.51
		<i>For Class 52 Rating, Deduct</i>	-170.66	
		<i>For Class 54 Rating, Add</i>	116.36	
		<i>For Class 55 Rating, Add</i>	258.63	
40 05 19 00-0080	EA	6" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,174.21	388.11
		<i>For Class 52 Rating, Deduct</i>	-174.48	
		<i>For Class 54 Rating, Add</i>	118.96	
		<i>For Class 55 Rating, Add</i>	264.42	
40 05 19 00-0081	EA	6" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,214.39	391.70
		<i>For Class 52 Rating, Deduct</i>	-178.30	
		<i>For Class 54 Rating, Add</i>	121.57	
		<i>For Class 55 Rating, Add</i>	270.21	
40 05 19 00-0082	EA	6" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,254.58	395.29
		<i>For Class 52 Rating, Deduct</i>	-182.12	
		<i>For Class 54 Rating, Add</i>	124.17	
		<i>For Class 55 Rating, Add</i>	276.00	



MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0083	8" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0084	EA 8" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	994.90	330.60
	For Class 52 Rating, Deduct	-54.34	
	For Class 54 Rating, Add	37.05	
	For Class 55 Rating, Add	82.35	
40 05 19 00-0085	EA 8" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,048.12	334.19
	For Class 52 Rating, Deduct	-59.59	
	For Class 54 Rating, Add	40.63	
	For Class 55 Rating, Add	90.31	
40 05 19 00-0086	EA 8" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,101.32	337.79
	For Class 52 Rating, Deduct	-64.85	
	For Class 54 Rating, Add	44.21	
	For Class 55 Rating, Add	98.27	
40 05 19 00-0087	EA 8" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,154.54	341.38
	For Class 52 Rating, Deduct	-70.10	
	For Class 54 Rating, Add	47.80	
	For Class 55 Rating, Add	106.24	
40 05 19 00-0088	EA 8" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,207.75	344.97
	For Class 52 Rating, Deduct	-75.36	
	For Class 54 Rating, Add	51.38	
	For Class 55 Rating, Add	114.20	
40 05 19 00-0089	EA 8" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,260.97	348.57
	For Class 52 Rating, Deduct	-80.61	
	For Class 54 Rating, Add	54.96	
	For Class 55 Rating, Add	122.16	
40 05 19 00-0090	EA 8" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,314.19	352.16
	For Class 52 Rating, Deduct	-85.87	
	For Class 54 Rating, Add	58.55	
	For Class 55 Rating, Add	130.13	
40 05 19 00-0091	EA 8" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,367.40	355.75
	For Class 52 Rating, Deduct	-91.12	
	For Class 54 Rating, Add	62.13	
	For Class 55 Rating, Add	138.09	
40 05 19 00-0092	EA 8" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,420.62	359.35
	For Class 52 Rating, Deduct	-96.38	
	For Class 54 Rating, Add	65.71	
	For Class 55 Rating, Add	146.05	
40 05 19 00-0093	EA 8" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,473.82	362.95
	For Class 52 Rating, Deduct	-101.63	
	For Class 54 Rating, Add	69.29	
	For Class 55 Rating, Add	154.02	
40 05 19 00-0094	EA 8" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,527.04	366.55
	For Class 52 Rating, Deduct	-106.88	
	For Class 54 Rating, Add	72.88	
	For Class 55 Rating, Add	161.98	
40 05 19 00-0095	EA 8" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,580.26	370.14
	For Class 52 Rating, Deduct	-112.14	
	For Class 54 Rating, Add	76.46	
	For Class 55 Rating, Add	169.94	
40 05 19 00-0096	EA 8" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,633.47	373.73
	For Class 52 Rating, Deduct	-117.39	
	For Class 54 Rating, Add	80.04	
	For Class 55 Rating, Add	177.91	
40 05 19 00-0097	EA 8" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,686.69	377.33
	For Class 52 Rating, Deduct	-122.65	
	For Class 54 Rating, Add	83.62	
	For Class 55 Rating, Add	185.87	
40 05 19 00-0098	EA 8" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,739.91	380.92
	For Class 52 Rating, Deduct	-127.90	
	For Class 54 Rating, Add	87.21	
	For Class 55 Rating, Add	193.83	
40 05 19 00-0099	EA 8" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,793.12	384.51
	For Class 52 Rating, Deduct	-133.16	
	For Class 54 Rating, Add	90.79	
	For Class 55 Rating, Add	201.80	
40 05 19 00-0100	EA 8" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,846.33	388.11
	For Class 52 Rating, Deduct	-138.41	
	For Class 54 Rating, Add	94.37	
	For Class 55 Rating, Add	209.76	
40 05 19 00-0101	EA 8" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,899.54	391.70
	For Class 52 Rating, Deduct	-143.67	
	For Class 54 Rating, Add	97.96	
	For Class 55 Rating, Add	217.72	
40 05 19 00-0102	EA 8" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,952.76	395.29
	For Class 52 Rating, Deduct	-148.92	
	For Class 54 Rating, Add	101.54	
	For Class 55 Rating, Add	225.69	
40 05 19 00-0103	EA 8" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,005.98	398.89
	For Class 52 Rating, Deduct	-154.18	
	For Class 54 Rating, Add	105.12	
	For Class 55 Rating, Add	233.65	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0104 EA 8" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,059.19	402.48
For Class 52 Rating, Deduct	-159.43	
For Class 54 Rating, Add	108.70	
For Class 55 Rating, Add	241.61	
40 05 19 00-0105 EA 8" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,112.41	406.07
For Class 52 Rating, Deduct	-164.69	
For Class 54 Rating, Add	112.29	
For Class 55 Rating, Add	249.57	
40 05 19 00-0106 EA 8" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,165.62	409.67
For Class 52 Rating, Deduct	-169.94	
For Class 54 Rating, Add	115.87	
For Class 55 Rating, Add	257.54	
40 05 19 00-0107 EA 8" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,218.83	413.26
For Class 52 Rating, Deduct	-175.20	
For Class 54 Rating, Add	119.45	
For Class 55 Rating, Add	265.50	
40 05 19 00-0108 EA 8" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,272.05	416.85
For Class 52 Rating, Deduct	-180.45	
For Class 54 Rating, Add	123.03	
For Class 55 Rating, Add	273.46	
40 05 19 00-0109 EA 8" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,325.26	420.45
For Class 52 Rating, Deduct	-185.71	
For Class 54 Rating, Add	126.62	
For Class 55 Rating, Add	281.43	
40 05 19 00-0110 EA 8" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,378.48	424.04
For Class 52 Rating, Deduct	-190.96	
For Class 54 Rating, Add	130.20	
For Class 55 Rating, Add	289.39	
40 05 19 00-0111 EA 8" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,431.70	427.63
For Class 52 Rating, Deduct	-196.21	
For Class 54 Rating, Add	133.78	
For Class 55 Rating, Add	297.35	
40 05 19 00-0112 EA 8" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,484.91	431.23
For Class 52 Rating, Deduct	-201.47	
For Class 54 Rating, Add	137.37	
For Class 55 Rating, Add	305.32	
40 05 19 00-0113 EA 8" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,538.13	434.82
For Class 52 Rating, Deduct	-206.72	
For Class 54 Rating, Add	140.95	
For Class 55 Rating, Add	313.28	
40 05 19 00-0114 EA 8" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,591.33	438.41
For Class 52 Rating, Deduct	-211.98	
For Class 54 Rating, Add	144.53	
For Class 55 Rating, Add	321.24	
40 05 19 00-0115 EA 8" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,644.55	442.01
For Class 52 Rating, Deduct	-217.23	
For Class 54 Rating, Add	148.11	
For Class 55 Rating, Add	329.21	
40 05 19 00-0116 EA 8" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,697.77	445.60
For Class 52 Rating, Deduct	-222.49	
For Class 54 Rating, Add	151.70	
For Class 55 Rating, Add	337.17	
40 05 19 00-0117 EA 8" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,750.98	449.20
For Class 52 Rating, Deduct	-227.74	
For Class 54 Rating, Add	155.28	
For Class 55 Rating, Add	345.13	
40 05 19 00-0118 EA 8" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,804.20	452.79
For Class 52 Rating, Deduct	-233.00	
For Class 54 Rating, Add	158.86	
For Class 55 Rating, Add	353.10	
40 05 19 00-0119 EA 8" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,857.42	456.38
For Class 52 Rating, Deduct	-238.25	
For Class 54 Rating, Add	162.44	
For Class 55 Rating, Add	361.06	
40 05 19 00-0120 EA 8" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,910.63	459.98
For Class 52 Rating, Deduct	-243.51	
For Class 54 Rating, Add	166.03	
For Class 55 Rating, Add	369.02	
40 05 19 00-0121 EA 8" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,963.84	463.57
For Class 52 Rating, Deduct	-248.76	
For Class 54 Rating, Add	169.61	
For Class 55 Rating, Add	376.99	
40 05 19 00-0122 EA 8" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,017.05	467.16
For Class 52 Rating, Deduct	-254.02	
For Class 54 Rating, Add	173.19	
For Class 55 Rating, Add	384.95	
40 05 19 00-0123 10" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0124 EA 10" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,243.85	402.48
For Class 52 Rating, Deduct	-69.74	
For Class 54 Rating, Add	47.55	
For Class 55 Rating, Add	105.69	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0125 EA 10" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,312.27	406.07
<i>For Class 52 Rating, Deduct</i>	-76.67	
<i>For Class 54 Rating, Add</i>	52.28	
<i>For Class 55 Rating, Add</i>	116.19	
40 05 19 00-0126 EA 10" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,380.68	409.67
<i>For Class 52 Rating, Deduct</i>	-83.60	
<i>For Class 54 Rating, Add</i>	57.00	
<i>For Class 55 Rating, Add</i>	126.69	
40 05 19 00-0127 EA 10" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,449.09	413.26
<i>For Class 52 Rating, Deduct</i>	-90.52	
<i>For Class 54 Rating, Add</i>	61.72	
<i>For Class 55 Rating, Add</i>	137.19	
40 05 19 00-0128 EA 10" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,517.50	416.85
<i>For Class 52 Rating, Deduct</i>	-97.45	
<i>For Class 54 Rating, Add</i>	66.44	
<i>For Class 55 Rating, Add</i>	147.68	
40 05 19 00-0129 EA 10" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,585.91	420.45
<i>For Class 52 Rating, Deduct</i>	-104.38	
<i>For Class 54 Rating, Add</i>	71.17	
<i>For Class 55 Rating, Add</i>	158.18	
40 05 19 00-0130 EA 10" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,654.33	424.04
<i>For Class 52 Rating, Deduct</i>	-111.30	
<i>For Class 54 Rating, Add</i>	75.89	
<i>For Class 55 Rating, Add</i>	168.68	
40 05 19 00-0131 EA 10" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,722.75	427.63
<i>For Class 52 Rating, Deduct</i>	-118.23	
<i>For Class 54 Rating, Add</i>	80.61	
<i>For Class 55 Rating, Add</i>	179.17	
40 05 19 00-0132 EA 10" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,791.16	431.23
<i>For Class 52 Rating, Deduct</i>	-125.16	
<i>For Class 54 Rating, Add</i>	85.33	
<i>For Class 55 Rating, Add</i>	189.67	
40 05 19 00-0133 EA 10" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,859.58	434.82
<i>For Class 52 Rating, Deduct</i>	-132.08	
<i>For Class 54 Rating, Add</i>	90.06	
<i>For Class 55 Rating, Add</i>	200.17	
40 05 19 00-0134 EA 10" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,927.98	438.41
<i>For Class 52 Rating, Deduct</i>	-139.01	
<i>For Class 54 Rating, Add</i>	94.78	
<i>For Class 55 Rating, Add</i>	210.66	
40 05 19 00-0135 EA 10" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,996.40	442.01
<i>For Class 52 Rating, Deduct</i>	-145.94	
<i>For Class 54 Rating, Add</i>	99.50	
<i>For Class 55 Rating, Add</i>	221.16	
40 05 19 00-0136 EA 10" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,064.82	445.60
<i>For Class 52 Rating, Deduct</i>	-152.86	
<i>For Class 54 Rating, Add</i>	104.23	
<i>For Class 55 Rating, Add</i>	231.66	
40 05 19 00-0137 EA 10" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,133.23	449.20
<i>For Class 52 Rating, Deduct</i>	-159.79	
<i>For Class 54 Rating, Add</i>	108.95	
<i>For Class 55 Rating, Add</i>	242.16	
40 05 19 00-0138 EA 10" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,201.65	452.79
<i>For Class 52 Rating, Deduct</i>	-166.72	
<i>For Class 54 Rating, Add</i>	113.67	
<i>For Class 55 Rating, Add</i>	252.65	
40 05 19 00-0139 EA 10" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,270.07	456.38
<i>For Class 52 Rating, Deduct</i>	-173.64	
<i>For Class 54 Rating, Add</i>	118.39	
<i>For Class 55 Rating, Add</i>	263.15	
40 05 19 00-0140 EA 10" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,338.48	459.98
<i>For Class 52 Rating, Deduct</i>	-180.57	
<i>For Class 54 Rating, Add</i>	123.12	
<i>For Class 55 Rating, Add</i>	273.65	
40 05 19 00-0141 EA 10" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,406.89	463.57
<i>For Class 52 Rating, Deduct</i>	-187.50	
<i>For Class 54 Rating, Add</i>	127.84	
<i>For Class 55 Rating, Add</i>	284.14	
40 05 19 00-0142 EA 10" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,475.30	467.16
<i>For Class 52 Rating, Deduct</i>	-194.42	
<i>For Class 54 Rating, Add</i>	132.56	
<i>For Class 55 Rating, Add</i>	294.64	
40 05 19 00-0143 EA 10" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,543.72	470.76
<i>For Class 52 Rating, Deduct</i>	-201.35	
<i>For Class 54 Rating, Add</i>	137.28	
<i>For Class 55 Rating, Add</i>	305.14	
40 05 19 00-0144 EA 10" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,612.14	474.35
<i>For Class 52 Rating, Deduct</i>	-208.28	
<i>For Class 54 Rating, Add</i>	142.01	
<i>For Class 55 Rating, Add</i>	315.63	
40 05 19 00-0145 EA 10" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,680.55	477.94
<i>For Class 52 Rating, Deduct</i>	-215.20	
<i>For Class 54 Rating, Add</i>	146.73	
<i>For Class 55 Rating, Add</i>	326.13	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0146	EA	10" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,748.96	481.54
		<i>For Class 52 Rating, Deduct</i>	-222.13	
		<i>For Class 54 Rating, Add</i>	151.45	
		<i>For Class 55 Rating, Add</i>	336.63	
40 05 19 00-0147	EA	10" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,817.37	485.13
		<i>For Class 52 Rating, Deduct</i>	-229.06	
		<i>For Class 54 Rating, Add</i>	156.17	
		<i>For Class 55 Rating, Add</i>	347.12	
40 05 19 00-0148	EA	10" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,885.78	488.72
		<i>For Class 52 Rating, Deduct</i>	-235.98	
		<i>For Class 54 Rating, Add</i>	160.90	
		<i>For Class 55 Rating, Add</i>	357.62	
40 05 19 00-0149	EA	10" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,954.20	492.32
		<i>For Class 52 Rating, Deduct</i>	-242.91	
		<i>For Class 54 Rating, Add</i>	165.62	
		<i>For Class 55 Rating, Add</i>	368.12	
40 05 19 00-0150	EA	10" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,022.61	495.91
		<i>For Class 52 Rating, Deduct</i>	-249.84	
		<i>For Class 54 Rating, Add</i>	170.34	
		<i>For Class 55 Rating, Add</i>	378.62	
40 05 19 00-0151	EA	10" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,091.03	499.50
		<i>For Class 52 Rating, Deduct</i>	-256.76	
		<i>For Class 54 Rating, Add</i>	175.07	
		<i>For Class 55 Rating, Add</i>	389.11	
40 05 19 00-0152	EA	10" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,159.45	503.10
		<i>For Class 52 Rating, Deduct</i>	-263.69	
		<i>For Class 54 Rating, Add</i>	179.79	
		<i>For Class 55 Rating, Add</i>	399.61	
40 05 19 00-0153	EA	10" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,227.86	506.69
		<i>For Class 52 Rating, Deduct</i>	-270.62	
		<i>For Class 54 Rating, Add</i>	184.51	
		<i>For Class 55 Rating, Add</i>	410.11	
40 05 19 00-0154	EA	10" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,296.28	510.28
		<i>For Class 52 Rating, Deduct</i>	-277.54	
		<i>For Class 54 Rating, Add</i>	189.23	
		<i>For Class 55 Rating, Add</i>	420.60	
40 05 19 00-0155	EA	10" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,363.59	513.88
		<i>For Class 52 Rating, Deduct</i>	-284.35	
		<i>For Class 54 Rating, Add</i>	193.88	
		<i>For Class 55 Rating, Add</i>	430.92	
40 05 19 00-0156	EA	10" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,433.10	517.47
		<i>For Class 52 Rating, Deduct</i>	-291.40	
		<i>For Class 54 Rating, Add</i>	198.68	
		<i>For Class 55 Rating, Add</i>	441.60	
40 05 19 00-0157	EA	10" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,501.52	521.06
		<i>For Class 52 Rating, Deduct</i>	-298.32	
		<i>For Class 54 Rating, Add</i>	203.40	
		<i>For Class 55 Rating, Add</i>	452.10	
40 05 19 00-0158	EA	10" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,569.93	524.66
		<i>For Class 52 Rating, Deduct</i>	-305.25	
		<i>For Class 54 Rating, Add</i>	208.13	
		<i>For Class 55 Rating, Add</i>	462.59	
40 05 19 00-0159	EA	10" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,638.35	528.25
		<i>For Class 52 Rating, Deduct</i>	-312.18	
		<i>For Class 54 Rating, Add</i>	212.85	
		<i>For Class 55 Rating, Add</i>	473.09	
40 05 19 00-0160	EA	10" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,706.77	531.85
		<i>For Class 52 Rating, Deduct</i>	-319.10	
		<i>For Class 54 Rating, Add</i>	217.57	
		<i>For Class 55 Rating, Add</i>	483.59	
40 05 19 00-0161	EA	10" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,775.18	535.44
		<i>For Class 52 Rating, Deduct</i>	-326.03	
		<i>For Class 54 Rating, Add</i>	222.29	
		<i>For Class 55 Rating, Add</i>	494.08	
40 05 19 00-0162	EA	10" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,843.59	539.03
		<i>For Class 52 Rating, Deduct</i>	-332.96	
		<i>For Class 54 Rating, Add</i>	227.02	
		<i>For Class 55 Rating, Add</i>	504.58	
40 05 19 00-0163		12" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0164	EA	12" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,611.27	503.10
		<i>For Class 52 Rating, Deduct</i>	-93.39	
		<i>For Class 54 Rating, Add</i>	63.68	
		<i>For Class 55 Rating, Add</i>	141.53	
40 05 19 00-0165	EA	12" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,695.97	506.69
		<i>For Class 52 Rating, Deduct</i>	-102.11	
		<i>For Class 54 Rating, Add</i>	69.62	
		<i>For Class 55 Rating, Add</i>	154.74	
40 05 19 00-0166	EA	12" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,780.67	510.28
		<i>For Class 52 Rating, Deduct</i>	-110.83	
		<i>For Class 54 Rating, Add</i>	75.56	
		<i>For Class 55 Rating, Add</i>	167.95	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0167 EA 12" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,865.36	513.88
<i>For Class 52 Rating, Deduct</i>	-119.54	
<i>For Class 54 Rating, Add</i>	81.51	
<i>For Class 55 Rating, Add</i>	181.16	
40 05 19 00-0168 EA 12" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,950.06	517.47
<i>For Class 52 Rating, Deduct</i>	-128.26	
<i>For Class 54 Rating, Add</i>	87.45	
<i>For Class 55 Rating, Add</i>	194.38	
40 05 19 00-0169 EA 12" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,034.77	521.06
<i>For Class 52 Rating, Deduct</i>	-136.98	
<i>For Class 54 Rating, Add</i>	93.40	
<i>For Class 55 Rating, Add</i>	207.59	
40 05 19 00-0170 EA 12" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,119.46	524.66
<i>For Class 52 Rating, Deduct</i>	-145.70	
<i>For Class 54 Rating, Add</i>	99.34	
<i>For Class 55 Rating, Add</i>	220.80	
40 05 19 00-0171 EA 12" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,204.16	528.25
<i>For Class 52 Rating, Deduct</i>	-154.42	
<i>For Class 54 Rating, Add</i>	105.28	
<i>For Class 55 Rating, Add</i>	234.01	
40 05 19 00-0172 EA 12" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,288.87	531.85
<i>For Class 52 Rating, Deduct</i>	-163.13	
<i>For Class 54 Rating, Add</i>	111.23	
<i>For Class 55 Rating, Add</i>	247.22	
40 05 19 00-0173 EA 12" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,373.56	535.44
<i>For Class 52 Rating, Deduct</i>	-171.85	
<i>For Class 54 Rating, Add</i>	117.17	
<i>For Class 55 Rating, Add</i>	260.43	
40 05 19 00-0174 EA 12" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,458.26	539.03
<i>For Class 52 Rating, Deduct</i>	-180.57	
<i>For Class 54 Rating, Add</i>	123.12	
<i>For Class 55 Rating, Add</i>	273.65	
40 05 19 00-0175 EA 12" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,542.95	542.63
<i>For Class 52 Rating, Deduct</i>	-189.29	
<i>For Class 54 Rating, Add</i>	129.06	
<i>For Class 55 Rating, Add</i>	286.86	
40 05 19 00-0176 EA 12" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,627.66	546.22
<i>For Class 52 Rating, Deduct</i>	-198.01	
<i>For Class 54 Rating, Add</i>	135.00	
<i>For Class 55 Rating, Add</i>	300.07	
40 05 19 00-0177 EA 12" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,712.36	549.81
<i>For Class 52 Rating, Deduct</i>	-206.72	
<i>For Class 54 Rating, Add</i>	140.95	
<i>For Class 55 Rating, Add</i>	313.28	
40 05 19 00-0178 EA 12" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,797.06	553.41
<i>For Class 52 Rating, Deduct</i>	-215.44	
<i>For Class 54 Rating, Add</i>	146.89	
<i>For Class 55 Rating, Add</i>	326.49	
40 05 19 00-0179 EA 12" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,881.76	557.00
<i>For Class 52 Rating, Deduct</i>	-224.16	
<i>For Class 54 Rating, Add</i>	152.84	
<i>For Class 55 Rating, Add</i>	339.70	
40 05 19 00-0180 EA 12" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,966.46	560.59
<i>For Class 52 Rating, Deduct</i>	-232.88	
<i>For Class 54 Rating, Add</i>	158.78	
<i>For Class 55 Rating, Add</i>	352.92	
40 05 19 00-0181 EA 12" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,051.15	564.19
<i>For Class 52 Rating, Deduct</i>	-241.60	
<i>For Class 54 Rating, Add</i>	164.72	
<i>For Class 55 Rating, Add</i>	366.13	
40 05 19 00-0182 EA 12" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,135.86	567.78
<i>For Class 52 Rating, Deduct</i>	-250.31	
<i>For Class 54 Rating, Add</i>	170.67	
<i>For Class 55 Rating, Add</i>	379.34	
40 05 19 00-0183 EA 12" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,220.55	571.37
<i>For Class 52 Rating, Deduct</i>	-259.03	
<i>For Class 54 Rating, Add</i>	176.61	
<i>For Class 55 Rating, Add</i>	392.55	
40 05 19 00-0184 EA 12" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,305.25	574.97
<i>For Class 52 Rating, Deduct</i>	-267.75	
<i>For Class 54 Rating, Add</i>	182.56	
<i>For Class 55 Rating, Add</i>	405.76	
40 05 19 00-0185 EA 12" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,389.96	578.56
<i>For Class 52 Rating, Deduct</i>	-276.47	
<i>For Class 54 Rating, Add</i>	188.50	
<i>For Class 55 Rating, Add</i>	418.98	
40 05 19 00-0186 EA 12" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,474.65	582.15
<i>For Class 52 Rating, Deduct</i>	-285.19	
<i>For Class 54 Rating, Add</i>	194.45	
<i>For Class 55 Rating, Add</i>	432.19	
40 05 19 00-0187 EA 12" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,559.36	585.75
<i>For Class 52 Rating, Deduct</i>	-293.90	
<i>For Class 54 Rating, Add</i>	200.39	
<i>For Class 55 Rating, Add</i>	445.40	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0188 EA 12" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,644.04	589.34
For Class 52 Rating, Deduct	-302.62	
For Class 54 Rating, Add	206.33	
For Class 55 Rating, Add	458.61	
40 05 19 00-0189 EA 12" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,728.75	592.93
For Class 52 Rating, Deduct	-311.34	
For Class 54 Rating, Add	212.28	
For Class 55 Rating, Add	471.82	
40 05 19 00-0190 EA 12" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,813.45	596.53
For Class 52 Rating, Deduct	-320.06	
For Class 54 Rating, Add	218.22	
For Class 55 Rating, Add	485.03	
40 05 19 00-0191 EA 12" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,898.15	600.12
For Class 52 Rating, Deduct	-328.78	
For Class 54 Rating, Add	224.17	
For Class 55 Rating, Add	498.25	
40 05 19 00-0192 EA 12" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,982.85	603.71
For Class 52 Rating, Deduct	-337.49	
For Class 54 Rating, Add	230.11	
For Class 55 Rating, Add	511.46	
40 05 19 00-0193 EA 12" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,067.56	607.31
For Class 52 Rating, Deduct	-346.21	
For Class 54 Rating, Add	236.05	
For Class 55 Rating, Add	524.67	
40 05 19 00-0194 EA 12" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,152.25	610.90
For Class 52 Rating, Deduct	-354.93	
For Class 54 Rating, Add	242.00	
For Class 55 Rating, Add	537.88	
40 05 19 00-0195 EA 12" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,236.95	614.50
For Class 52 Rating, Deduct	-363.65	
For Class 54 Rating, Add	247.94	
For Class 55 Rating, Add	551.09	
40 05 19 00-0196 EA 12" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,321.64	618.09
For Class 52 Rating, Deduct	-372.37	
For Class 54 Rating, Add	253.89	
For Class 55 Rating, Add	564.30	
40 05 19 00-0197 EA 12" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,406.34	621.68
For Class 52 Rating, Deduct	-381.08	
For Class 54 Rating, Add	259.83	
For Class 55 Rating, Add	577.52	
40 05 19 00-0198 EA 12" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,491.05	625.28
For Class 52 Rating, Deduct	-389.80	
For Class 54 Rating, Add	265.77	
For Class 55 Rating, Add	590.73	
40 05 19 00-0199 EA 12" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,575.74	628.87
For Class 52 Rating, Deduct	-398.52	
For Class 54 Rating, Add	271.72	
For Class 55 Rating, Add	603.94	
40 05 19 00-0200 EA 12" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,660.45	632.46
For Class 52 Rating, Deduct	-407.24	
For Class 54 Rating, Add	277.66	
For Class 55 Rating, Add	617.15	
40 05 19 00-0201 EA 12" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,745.14	636.06
For Class 52 Rating, Deduct	-415.96	
For Class 54 Rating, Add	283.61	
For Class 55 Rating, Add	630.36	
40 05 19 00-0202 EA 12" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,829.84	639.65
For Class 52 Rating, Deduct	-424.67	
For Class 54 Rating, Add	289.55	
For Class 55 Rating, Add	643.58	
40 05 19 00-0203 14" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0204 EA 14" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,103.54	603.71
For Class 52 Rating, Deduct	-130.77	
For Class 54 Rating, Add	89.16	
For Class 55 Rating, Add	198.18	
40 05 19 00-0205 EA 14" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,205.62	607.31
For Class 52 Rating, Deduct	-141.40	
For Class 54 Rating, Add	96.41	
For Class 55 Rating, Add	214.28	
40 05 19 00-0206 EA 14" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,307.68	610.90
For Class 52 Rating, Deduct	-152.03	
For Class 54 Rating, Add	103.66	
For Class 55 Rating, Add	230.39	
40 05 19 00-0207 EA 14" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,409.75	614.50
For Class 52 Rating, Deduct	-162.66	
For Class 54 Rating, Add	110.90	
For Class 55 Rating, Add	246.50	
40 05 19 00-0208 EA 14" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,511.81	618.09
For Class 52 Rating, Deduct	-173.29	
For Class 54 Rating, Add	118.15	
For Class 55 Rating, Add	262.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0209 EA 14" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,613.89	621.68
<i>For Class 52 Rating, Deduct</i>	-183.91	
<i>For Class 54 Rating, Add</i>	125.40	
<i>For Class 55 Rating, Add</i>	278.71	
40 05 19 00-0210 EA 14" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,715.96	625.28
<i>For Class 52 Rating, Deduct</i>	-194.54	
<i>For Class 54 Rating, Add</i>	132.64	
<i>For Class 55 Rating, Add</i>	294.82	
40 05 19 00-0211 EA 14" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,818.03	628.87
<i>For Class 52 Rating, Deduct</i>	-205.17	
<i>For Class 54 Rating, Add</i>	139.89	
<i>For Class 55 Rating, Add</i>	310.93	
40 05 19 00-0212 EA 14" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,920.10	632.46
<i>For Class 52 Rating, Deduct</i>	-215.80	
<i>For Class 54 Rating, Add</i>	147.14	
<i>For Class 55 Rating, Add</i>	327.04	
40 05 19 00-0213 EA 14" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,022.17	636.06
<i>For Class 52 Rating, Deduct</i>	-226.43	
<i>For Class 54 Rating, Add</i>	154.38	
<i>For Class 55 Rating, Add</i>	343.14	
40 05 19 00-0214 EA 14" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,124.23	639.65
<i>For Class 52 Rating, Deduct</i>	-237.06	
<i>For Class 54 Rating, Add</i>	161.63	
<i>For Class 55 Rating, Add</i>	359.25	
40 05 19 00-0215 EA 14" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,226.31	643.24
<i>For Class 52 Rating, Deduct</i>	-247.69	
<i>For Class 54 Rating, Add</i>	168.88	
<i>For Class 55 Rating, Add</i>	375.36	
40 05 19 00-0216 EA 14" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,328.38	646.84
<i>For Class 52 Rating, Deduct</i>	-258.32	
<i>For Class 54 Rating, Add</i>	176.12	
<i>For Class 55 Rating, Add</i>	391.47	
40 05 19 00-0217 EA 14" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,430.45	650.43
<i>For Class 52 Rating, Deduct</i>	-268.94	
<i>For Class 54 Rating, Add</i>	183.37	
<i>For Class 55 Rating, Add</i>	407.57	
40 05 19 00-0218 EA 14" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,532.53	654.02
<i>For Class 52 Rating, Deduct</i>	-279.57	
<i>For Class 54 Rating, Add</i>	190.62	
<i>For Class 55 Rating, Add</i>	423.68	
40 05 19 00-0219 EA 14" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,634.59	657.62
<i>For Class 52 Rating, Deduct</i>	-290.20	
<i>For Class 54 Rating, Add</i>	197.87	
<i>For Class 55 Rating, Add</i>	439.79	
40 05 19 00-0220 EA 14" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,736.67	661.21
<i>For Class 52 Rating, Deduct</i>	-300.83	
<i>For Class 54 Rating, Add</i>	205.11	
<i>For Class 55 Rating, Add</i>	455.90	
40 05 19 00-0221 EA 14" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,838.72	664.80
<i>For Class 52 Rating, Deduct</i>	-311.46	
<i>For Class 54 Rating, Add</i>	212.36	
<i>For Class 55 Rating, Add</i>	472.00	
40 05 19 00-0222 EA 14" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,940.80	668.40
<i>For Class 52 Rating, Deduct</i>	-322.09	
<i>For Class 54 Rating, Add</i>	219.61	
<i>For Class 55 Rating, Add</i>	488.11	
40 05 19 00-0223 EA 14" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,042.87	671.99
<i>For Class 52 Rating, Deduct</i>	-332.72	
<i>For Class 54 Rating, Add</i>	226.85	
<i>For Class 55 Rating, Add</i>	504.22	
40 05 19 00-0224 EA 14" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,144.94	675.58
<i>For Class 52 Rating, Deduct</i>	-343.35	
<i>For Class 54 Rating, Add</i>	234.10	
<i>For Class 55 Rating, Add</i>	520.33	
40 05 19 00-0225 EA 14" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,247.02	679.18
<i>For Class 52 Rating, Deduct</i>	-353.98	
<i>For Class 54 Rating, Add</i>	241.35	
<i>For Class 55 Rating, Add</i>	536.43	
40 05 19 00-0226 EA 14" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,349.08	682.77
<i>For Class 52 Rating, Deduct</i>	-364.60	
<i>For Class 54 Rating, Add</i>	248.59	
<i>For Class 55 Rating, Add</i>	552.54	
40 05 19 00-0227 EA 14" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,451.16	686.36
<i>For Class 52 Rating, Deduct</i>	-375.23	
<i>For Class 54 Rating, Add</i>	255.84	
<i>For Class 55 Rating, Add</i>	568.65	
40 05 19 00-0228 EA 14" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,553.22	689.96
<i>For Class 52 Rating, Deduct</i>	-385.86	
<i>For Class 54 Rating, Add</i>	263.09	
<i>For Class 55 Rating, Add</i>	584.76	
40 05 19 00-0229 EA 14" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,655.29	693.55
<i>For Class 52 Rating, Deduct</i>	-396.49	
<i>For Class 54 Rating, Add</i>	270.33	
<i>For Class 55 Rating, Add</i>	600.86	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0230	EA	14" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,757.36	697.15
		<i>For Class 52 Rating, Deduct</i>	-407.12	
		<i>For Class 54 Rating, Add</i>	277.58	
		<i>For Class 55 Rating, Add</i>	616.97	
40 05 19 00-0231	EA	14" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,859.44	700.74
		<i>For Class 52 Rating, Deduct</i>	-417.75	
		<i>For Class 54 Rating, Add</i>	284.83	
		<i>For Class 55 Rating, Add</i>	633.08	
40 05 19 00-0232	EA	14" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,961.50	704.33
		<i>For Class 52 Rating, Deduct</i>	-428.38	
		<i>For Class 54 Rating, Add</i>	292.07	
		<i>For Class 55 Rating, Add</i>	649.18	
40 05 19 00-0233	EA	14" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,063.58	707.93
		<i>For Class 52 Rating, Deduct</i>	-439.01	
		<i>For Class 54 Rating, Add</i>	299.32	
		<i>For Class 55 Rating, Add</i>	665.29	
40 05 19 00-0234	EA	14" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,165.65	711.52
		<i>For Class 52 Rating, Deduct</i>	-449.63	
		<i>For Class 54 Rating, Add</i>	306.57	
		<i>For Class 55 Rating, Add</i>	681.40	
40 05 19 00-0235	EA	14" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,267.71	715.11
		<i>For Class 52 Rating, Deduct</i>	-460.26	
		<i>For Class 54 Rating, Add</i>	313.82	
		<i>For Class 55 Rating, Add</i>	697.51	
40 05 19 00-0236	EA	14" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,369.79	718.71
		<i>For Class 52 Rating, Deduct</i>	-470.89	
		<i>For Class 54 Rating, Add</i>	321.06	
		<i>For Class 55 Rating, Add</i>	713.62	
40 05 19 00-0237	EA	14" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,471.85	722.30
		<i>For Class 52 Rating, Deduct</i>	-481.52	
		<i>For Class 54 Rating, Add</i>	328.31	
		<i>For Class 55 Rating, Add</i>	729.72	
40 05 19 00-0238	EA	14" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,573.93	725.89
		<i>For Class 52 Rating, Deduct</i>	-492.15	
		<i>For Class 54 Rating, Add</i>	335.56	
		<i>For Class 55 Rating, Add</i>	745.83	
40 05 19 00-0239	EA	14" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,676.00	729.49
		<i>For Class 52 Rating, Deduct</i>	-502.78	
		<i>For Class 54 Rating, Add</i>	342.80	
		<i>For Class 55 Rating, Add</i>	761.94	
40 05 19 00-0240	EA	14" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,778.07	733.08
		<i>For Class 52 Rating, Deduct</i>	-513.41	
		<i>For Class 54 Rating, Add</i>	350.05	
		<i>For Class 55 Rating, Add</i>	778.05	
40 05 19 00-0241	EA	14" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,880.14	736.67
		<i>For Class 52 Rating, Deduct</i>	-524.04	
		<i>For Class 54 Rating, Add</i>	357.30	
		<i>For Class 55 Rating, Add</i>	794.15	
40 05 19 00-0242		16" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0243	EA	16" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,454.60	689.96
		<i>For Class 52 Rating, Deduct</i>	-155.01	
		<i>For Class 54 Rating, Add</i>	105.69	
		<i>For Class 55 Rating, Add</i>	234.92	
40 05 19 00-0244	EA	16" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,572.95	693.55
		<i>For Class 52 Rating, Deduct</i>	-167.43	
		<i>For Class 54 Rating, Add</i>	114.16	
		<i>For Class 55 Rating, Add</i>	253.74	
40 05 19 00-0245	EA	16" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,691.31	697.15
		<i>For Class 52 Rating, Deduct</i>	-179.85	
		<i>For Class 54 Rating, Add</i>	122.63	
		<i>For Class 55 Rating, Add</i>	272.56	
40 05 19 00-0246	EA	16" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,809.67	700.74
		<i>For Class 52 Rating, Deduct</i>	-192.27	
		<i>For Class 54 Rating, Add</i>	131.10	
		<i>For Class 55 Rating, Add</i>	291.38	
40 05 19 00-0247	EA	16" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,928.03	704.33
		<i>For Class 52 Rating, Deduct</i>	-204.69	
		<i>For Class 54 Rating, Add</i>	139.56	
		<i>For Class 55 Rating, Add</i>	310.21	
40 05 19 00-0248	EA	16" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,046.39	707.93
		<i>For Class 52 Rating, Deduct</i>	-217.11	
		<i>For Class 54 Rating, Add</i>	148.03	
		<i>For Class 55 Rating, Add</i>	329.03	
40 05 19 00-0249	EA	16" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,164.74	711.52
		<i>For Class 52 Rating, Deduct</i>	-229.53	
		<i>For Class 54 Rating, Add</i>	156.50	
		<i>For Class 55 Rating, Add</i>	347.85	
40 05 19 00-0250	EA	16" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,283.09	715.11
		<i>For Class 52 Rating, Deduct</i>	-241.95	
		<i>For Class 54 Rating, Add</i>	164.97	
		<i>For Class 55 Rating, Add</i>	366.67	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0251 EA 16" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,401.45	718.71
<i>For Class 52 Rating, Deduct</i>	-254.38	
<i>For Class 54 Rating, Add</i>	173.44	
<i>For Class 55 Rating, Add</i>	385.49	
40 05 19 00-0252 EA 16" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,519.80	722.30
<i>For Class 52 Rating, Deduct</i>	-266.80	
<i>For Class 54 Rating, Add</i>	181.91	
<i>For Class 55 Rating, Add</i>	404.32	
40 05 19 00-0253 EA 16" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,638.16	725.89
<i>For Class 52 Rating, Deduct</i>	-279.22	
<i>For Class 54 Rating, Add</i>	190.37	
<i>For Class 55 Rating, Add</i>	423.14	
40 05 19 00-0254 EA 16" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,756.52	729.49
<i>For Class 52 Rating, Deduct</i>	-291.64	
<i>For Class 54 Rating, Add</i>	198.84	
<i>For Class 55 Rating, Add</i>	441.96	
40 05 19 00-0255 EA 16" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,874.87	733.08
<i>For Class 52 Rating, Deduct</i>	-304.06	
<i>For Class 54 Rating, Add</i>	207.31	
<i>For Class 55 Rating, Add</i>	460.78	
40 05 19 00-0256 EA 16" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,993.23	736.67
<i>For Class 52 Rating, Deduct</i>	-316.48	
<i>For Class 54 Rating, Add</i>	215.78	
<i>For Class 55 Rating, Add</i>	479.60	
40 05 19 00-0257 EA 16" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,111.57	740.27
<i>For Class 52 Rating, Deduct</i>	-328.90	
<i>For Class 54 Rating, Add</i>	224.25	
<i>For Class 55 Rating, Add</i>	498.43	
40 05 19 00-0258 EA 16" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,229.93	743.86
<i>For Class 52 Rating, Deduct</i>	-341.32	
<i>For Class 54 Rating, Add</i>	232.72	
<i>For Class 55 Rating, Add</i>	517.25	
40 05 19 00-0259 EA 16" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,348.29	747.45
<i>For Class 52 Rating, Deduct</i>	-353.74	
<i>For Class 54 Rating, Add</i>	241.18	
<i>For Class 55 Rating, Add</i>	536.07	
40 05 19 00-0260 EA 16" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,466.64	751.05
<i>For Class 52 Rating, Deduct</i>	-366.16	
<i>For Class 54 Rating, Add</i>	249.65	
<i>For Class 55 Rating, Add</i>	554.89	
40 05 19 00-0261 EA 16" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,585.01	754.64
<i>For Class 52 Rating, Deduct</i>	-378.58	
<i>For Class 54 Rating, Add</i>	258.12	
<i>For Class 55 Rating, Add</i>	573.72	
40 05 19 00-0262 EA 16" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,703.36	758.23
<i>For Class 52 Rating, Deduct</i>	-391.00	
<i>For Class 54 Rating, Add</i>	266.59	
<i>For Class 55 Rating, Add</i>	592.54	
40 05 19 00-0263 EA 16" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,821.72	761.83
<i>For Class 52 Rating, Deduct</i>	-403.42	
<i>For Class 54 Rating, Add</i>	275.06	
<i>For Class 55 Rating, Add</i>	611.36	
40 05 19 00-0264 EA 16" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,940.07	765.42
<i>For Class 52 Rating, Deduct</i>	-415.84	
<i>For Class 54 Rating, Add</i>	283.53	
<i>For Class 55 Rating, Add</i>	630.18	
40 05 19 00-0265 EA 16" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,058.42	769.01
<i>For Class 52 Rating, Deduct</i>	-428.26	
<i>For Class 54 Rating, Add</i>	291.99	
<i>For Class 55 Rating, Add</i>	649.00	
40 05 19 00-0266 EA 16" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,176.78	772.61
<i>For Class 52 Rating, Deduct</i>	-440.68	
<i>For Class 54 Rating, Add</i>	300.46	
<i>For Class 55 Rating, Add</i>	667.83	
40 05 19 00-0267 EA 16" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,295.14	776.20
<i>For Class 52 Rating, Deduct</i>	-453.10	
<i>For Class 54 Rating, Add</i>	308.93	
<i>For Class 55 Rating, Add</i>	686.65	
40 05 19 00-0268 EA 16" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,413.49	779.80
<i>For Class 52 Rating, Deduct</i>	-465.52	
<i>For Class 54 Rating, Add</i>	317.40	
<i>For Class 55 Rating, Add</i>	705.47	
40 05 19 00-0269 EA 16" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,531.85	783.39
<i>For Class 52 Rating, Deduct</i>	-477.94	
<i>For Class 54 Rating, Add</i>	325.87	
<i>For Class 55 Rating, Add</i>	724.29	
40 05 19 00-0270 EA 16" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,650.19	786.98
<i>For Class 52 Rating, Deduct</i>	-490.36	
<i>For Class 54 Rating, Add</i>	334.34	
<i>For Class 55 Rating, Add</i>	743.12	
40 05 19 00-0271 EA 16" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,768.55	790.58
<i>For Class 52 Rating, Deduct</i>	-502.78	
<i>For Class 54 Rating, Add</i>	342.80	
<i>For Class 55 Rating, Add</i>	761.94	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0272	EA		16" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,886.91	794.17
			<i>For Class 52 Rating, Deduct</i>	-515.20	
			<i>For Class 54 Rating, Add</i>	351.27	
			<i>For Class 55 Rating, Add</i>	780.76	
40 05 19 00-0273	EA		16" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,005.26	797.76
			<i>For Class 52 Rating, Deduct</i>	-527.62	
			<i>For Class 54 Rating, Add</i>	359.74	
			<i>For Class 55 Rating, Add</i>	799.58	
40 05 19 00-0274	EA		16" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,123.62	801.36
			<i>For Class 52 Rating, Deduct</i>	-540.04	
			<i>For Class 54 Rating, Add</i>	368.21	
			<i>For Class 55 Rating, Add</i>	818.40	
40 05 19 00-0275	EA		16" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,241.99	804.95
			<i>For Class 52 Rating, Deduct</i>	-552.46	
			<i>For Class 54 Rating, Add</i>	376.68	
			<i>For Class 55 Rating, Add</i>	837.23	
40 05 19 00-0276	EA		16" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,360.34	808.54
			<i>For Class 52 Rating, Deduct</i>	-564.88	
			<i>For Class 54 Rating, Add</i>	385.15	
			<i>For Class 55 Rating, Add</i>	856.05	
40 05 19 00-0277	EA		16" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,478.69	812.14
			<i>For Class 52 Rating, Deduct</i>	-577.30	
			<i>For Class 54 Rating, Add</i>	393.61	
			<i>For Class 55 Rating, Add</i>	874.87	
40 05 19 00-0278	EA		16" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,597.04	815.73
			<i>For Class 52 Rating, Deduct</i>	-589.72	
			<i>For Class 54 Rating, Add</i>	402.08	
			<i>For Class 55 Rating, Add</i>	893.69	
40 05 19 00-0279	EA		16" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,715.40	819.32
			<i>For Class 52 Rating, Deduct</i>	-602.14	
			<i>For Class 54 Rating, Add</i>	410.55	
			<i>For Class 55 Rating, Add</i>	912.52	
40 05 19 00-0280	EA		16" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,833.76	822.92
			<i>For Class 52 Rating, Deduct</i>	-614.56	
			<i>For Class 54 Rating, Add</i>	419.02	
			<i>For Class 55 Rating, Add</i>	931.34	
40 05 19 00-0281			18" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0282	EA		18" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,839.33	777.64
			<i>For Class 52 Rating, Deduct</i>	-182.72	
			<i>For Class 54 Rating, Add</i>	124.58	
			<i>For Class 55 Rating, Add</i>	276.90	
40 05 19 00-0283	EA		18" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,975.06	781.23
			<i>For Class 52 Rating, Deduct</i>	-197.05	
			<i>For Class 54 Rating, Add</i>	134.35	
			<i>For Class 55 Rating, Add</i>	298.62	
40 05 19 00-0284	EA		18" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,110.79	784.83
			<i>For Class 52 Rating, Deduct</i>	-211.38	
			<i>For Class 54 Rating, Add</i>	144.12	
			<i>For Class 55 Rating, Add</i>	320.34	
40 05 19 00-0285	EA		18" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,246.51	788.42
			<i>For Class 52 Rating, Deduct</i>	-225.71	
			<i>For Class 54 Rating, Add</i>	153.90	
			<i>For Class 55 Rating, Add</i>	342.06	
40 05 19 00-0286	EA		18" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,382.24	792.01
			<i>For Class 52 Rating, Deduct</i>	-240.04	
			<i>For Class 54 Rating, Add</i>	163.67	
			<i>For Class 55 Rating, Add</i>	363.78	
40 05 19 00-0287	EA		18" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,517.97	795.61
			<i>For Class 52 Rating, Deduct</i>	-254.38	
			<i>For Class 54 Rating, Add</i>	173.44	
			<i>For Class 55 Rating, Add</i>	385.49	
40 05 19 00-0288	EA		18" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,653.69	799.20
			<i>For Class 52 Rating, Deduct</i>	-268.71	
			<i>For Class 54 Rating, Add</i>	183.21	
			<i>For Class 55 Rating, Add</i>	407.21	
40 05 19 00-0289	EA		18" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,789.42	802.79
			<i>For Class 52 Rating, Deduct</i>	-283.04	
			<i>For Class 54 Rating, Add</i>	192.98	
			<i>For Class 55 Rating, Add</i>	428.93	
40 05 19 00-0290	EA		18" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,925.14	806.39
			<i>For Class 52 Rating, Deduct</i>	-297.37	
			<i>For Class 54 Rating, Add</i>	202.75	
			<i>For Class 55 Rating, Add</i>	450.65	
40 05 19 00-0291	EA		18" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,060.87	809.98
			<i>For Class 52 Rating, Deduct</i>	-311.70	
			<i>For Class 54 Rating, Add</i>	212.52	
			<i>For Class 55 Rating, Add</i>	472.36	
40 05 19 00-0292	EA		18" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,196.60	813.57
			<i>For Class 52 Rating, Deduct</i>	-326.03	
			<i>For Class 54 Rating, Add</i>	222.29	
			<i>For Class 55 Rating, Add</i>	494.08	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0293 EA 18" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,332.32	817.17
For Class 52 Rating, Deduct	-340.36	
For Class 54 Rating, Add	232.06	
For Class 55 Rating, Add	515.80	
40 05 19 00-0294 EA 18" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,468.05	820.76
For Class 52 Rating, Deduct	-354.69	
For Class 54 Rating, Add	241.84	
For Class 55 Rating, Add	537.52	
40 05 19 00-0295 EA 18" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,603.77	824.35
For Class 52 Rating, Deduct	-369.02	
For Class 54 Rating, Add	251.61	
For Class 55 Rating, Add	559.24	
40 05 19 00-0296 EA 18" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,739.50	827.95
For Class 52 Rating, Deduct	-383.35	
For Class 54 Rating, Add	261.38	
For Class 55 Rating, Add	580.95	
40 05 19 00-0297 EA 18" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,875.23	831.54
For Class 52 Rating, Deduct	-397.68	
For Class 54 Rating, Add	271.15	
For Class 55 Rating, Add	602.67	
40 05 19 00-0298 EA 18" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,010.96	835.13
For Class 52 Rating, Deduct	-412.02	
For Class 54 Rating, Add	280.92	
For Class 55 Rating, Add	624.39	
40 05 19 00-0299 EA 18" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,146.68	838.73
For Class 52 Rating, Deduct	-426.35	
For Class 54 Rating, Add	290.69	
For Class 55 Rating, Add	646.11	
40 05 19 00-0300 EA 18" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,282.41	842.32
For Class 52 Rating, Deduct	-440.68	
For Class 54 Rating, Add	300.46	
For Class 55 Rating, Add	667.83	
40 05 19 00-0301 EA 18" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,418.13	845.92
For Class 52 Rating, Deduct	-455.01	
For Class 54 Rating, Add	310.23	
For Class 55 Rating, Add	689.54	
40 05 19 00-0302 EA 18" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,553.86	849.51
For Class 52 Rating, Deduct	-469.34	
For Class 54 Rating, Add	320.00	
For Class 55 Rating, Add	711.26	
40 05 19 00-0303 EA 18" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,689.58	853.10
For Class 52 Rating, Deduct	-483.67	
For Class 54 Rating, Add	329.78	
For Class 55 Rating, Add	732.98	
40 05 19 00-0304 EA 18" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,825.32	856.70
For Class 52 Rating, Deduct	-498.00	
For Class 54 Rating, Add	339.55	
For Class 55 Rating, Add	754.70	
40 05 19 00-0305 EA 18" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,961.05	860.29
For Class 52 Rating, Deduct	-512.33	
For Class 54 Rating, Add	349.32	
For Class 55 Rating, Add	776.42	
40 05 19 00-0306 EA 18" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,096.76	863.88
For Class 52 Rating, Deduct	-526.66	
For Class 54 Rating, Add	359.09	
For Class 55 Rating, Add	798.13	
40 05 19 00-0307 EA 18" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,232.49	867.48
For Class 52 Rating, Deduct	-540.99	
For Class 54 Rating, Add	368.86	
For Class 55 Rating, Add	819.85	
40 05 19 00-0308 EA 18" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,368.21	871.07
For Class 52 Rating, Deduct	-555.33	
For Class 54 Rating, Add	378.63	
For Class 55 Rating, Add	841.57	
40 05 19 00-0309 EA 18" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,503.94	874.66
For Class 52 Rating, Deduct	-569.66	
For Class 54 Rating, Add	388.40	
For Class 55 Rating, Add	863.29	
40 05 19 00-0310 EA 18" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,639.68	878.26
For Class 52 Rating, Deduct	-583.99	
For Class 54 Rating, Add	398.17	
For Class 55 Rating, Add	885.01	
40 05 19 00-0311 EA 18" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,775.40	881.85
For Class 52 Rating, Deduct	-598.32	
For Class 54 Rating, Add	407.94	
For Class 55 Rating, Add	906.72	
40 05 19 00-0312 EA 18" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,911.13	885.44
For Class 52 Rating, Deduct	-612.65	
For Class 54 Rating, Add	417.72	
For Class 55 Rating, Add	928.44	
40 05 19 00-0313 EA 18" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,046.85	889.04
For Class 52 Rating, Deduct	-626.98	
For Class 54 Rating, Add	427.49	
For Class 55 Rating, Add	950.16	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0314 EA 18" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,182.57	892.63
For Class 52 Rating, Deduct	-641.31	
For Class 54 Rating, Add	437.26	
For Class 55 Rating, Add	971.88	
40 05 19 00-0315 EA 18" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,318.30	896.22
For Class 52 Rating, Deduct	-655.64	
For Class 54 Rating, Add	447.03	
For Class 55 Rating, Add	993.60	
40 05 19 00-0316 EA 18" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,454.02	899.82
For Class 52 Rating, Deduct	-669.97	
For Class 54 Rating, Add	456.80	
For Class 55 Rating, Add	1,015.31	
40 05 19 00-0317 EA 18" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,589.76	903.41
For Class 52 Rating, Deduct	-684.30	
For Class 54 Rating, Add	466.57	
For Class 55 Rating, Add	1,037.03	
40 05 19 00-0318 EA 18" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,725.49	907.00
For Class 52 Rating, Deduct	-698.64	
For Class 54 Rating, Add	476.34	
For Class 55 Rating, Add	1,058.75	
40 05 19 00-0319 EA 18" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,861.21	910.60
For Class 52 Rating, Deduct	-712.97	
For Class 54 Rating, Add	486.11	
For Class 55 Rating, Add	1,080.47	
40 05 19 00-0320 20" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0321 EA 20" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,308.85	887.60
For Class 52 Rating, Deduct	-216.04	
For Class 54 Rating, Add	147.30	
For Class 55 Rating, Add	327.40	
40 05 19 00-0322 EA 20" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,464.11	891.19
For Class 52 Rating, Deduct	-232.52	
For Class 54 Rating, Add	158.54	
For Class 55 Rating, Add	352.37	
40 05 19 00-0323 EA 20" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,619.38	894.79
For Class 52 Rating, Deduct	-249.00	
For Class 54 Rating, Add	169.77	
For Class 55 Rating, Add	377.35	
40 05 19 00-0324 EA 20" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,774.66	898.38
For Class 52 Rating, Deduct	-265.48	
For Class 54 Rating, Add	181.01	
For Class 55 Rating, Add	402.33	
40 05 19 00-0325 EA 20" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,929.92	901.97
For Class 52 Rating, Deduct	-281.96	
For Class 54 Rating, Add	192.25	
For Class 55 Rating, Add	427.30	
40 05 19 00-0326 EA 20" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,085.19	905.57
For Class 52 Rating, Deduct	-298.44	
For Class 54 Rating, Add	203.48	
For Class 55 Rating, Add	452.28	
40 05 19 00-0327 EA 20" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,240.46	909.16
For Class 52 Rating, Deduct	-314.92	
For Class 54 Rating, Add	214.72	
For Class 55 Rating, Add	477.25	
40 05 19 00-0328 EA 20" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,395.72	912.75
For Class 52 Rating, Deduct	-331.40	
For Class 54 Rating, Add	225.96	
For Class 55 Rating, Add	502.23	
40 05 19 00-0329 EA 20" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,551.00	916.35
For Class 52 Rating, Deduct	-347.88	
For Class 54 Rating, Add	237.19	
For Class 55 Rating, Add	527.20	
40 05 19 00-0330 EA 20" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,706.26	919.94
For Class 52 Rating, Deduct	-364.37	
For Class 54 Rating, Add	248.43	
For Class 55 Rating, Add	552.18	
40 05 19 00-0331 EA 20" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,861.53	923.53
For Class 52 Rating, Deduct	-380.85	
For Class 54 Rating, Add	259.67	
For Class 55 Rating, Add	577.15	
40 05 19 00-0332 EA 20" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,016.81	927.13
For Class 52 Rating, Deduct	-397.33	
For Class 54 Rating, Add	270.90	
For Class 55 Rating, Add	602.13	
40 05 19 00-0333 EA 20" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,172.07	930.72
For Class 52 Rating, Deduct	-413.81	
For Class 54 Rating, Add	282.14	
For Class 55 Rating, Add	627.11	
40 05 19 00-0334 EA 20" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,327.34	934.32
For Class 52 Rating, Deduct	-430.29	
For Class 54 Rating, Add	293.38	
For Class 55 Rating, Add	652.08	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0335 EA 20" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,482.60	937.91
<i>For Class 52 Rating, Deduct</i>	-446.77	
<i>For Class 54 Rating, Add</i>	304.61	
<i>For Class 55 Rating, Add</i>	677.06	
40 05 19 00-0336 EA 20" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,637.87	941.50
<i>For Class 52 Rating, Deduct</i>	-463.25	
<i>For Class 54 Rating, Add</i>	315.85	
<i>For Class 55 Rating, Add</i>	702.03	
40 05 19 00-0337 EA 20" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,793.15	945.10
<i>For Class 52 Rating, Deduct</i>	-479.73	
<i>For Class 54 Rating, Add</i>	327.09	
<i>For Class 55 Rating, Add</i>	727.01	
40 05 19 00-0338 EA 20" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,948.41	948.69
<i>For Class 52 Rating, Deduct</i>	-496.21	
<i>For Class 54 Rating, Add</i>	338.33	
<i>For Class 55 Rating, Add</i>	751.98	
40 05 19 00-0339 EA 20" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,103.68	952.28
<i>For Class 52 Rating, Deduct</i>	-512.69	
<i>For Class 54 Rating, Add</i>	349.56	
<i>For Class 55 Rating, Add</i>	776.96	
40 05 19 00-0340 EA 20" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,258.95	955.88
<i>For Class 52 Rating, Deduct</i>	-529.17	
<i>For Class 54 Rating, Add</i>	360.80	
<i>For Class 55 Rating, Add</i>	801.94	
40 05 19 00-0341 EA 20" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,414.22	959.47
<i>For Class 52 Rating, Deduct</i>	-545.65	
<i>For Class 54 Rating, Add</i>	372.04	
<i>For Class 55 Rating, Add</i>	826.91	
40 05 19 00-0342 EA 20" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,569.49	963.06
<i>For Class 52 Rating, Deduct</i>	-562.13	
<i>For Class 54 Rating, Add</i>	383.27	
<i>For Class 55 Rating, Add</i>	851.89	
40 05 19 00-0343 EA 20" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,724.75	966.66
<i>For Class 52 Rating, Deduct</i>	-578.61	
<i>For Class 54 Rating, Add</i>	394.51	
<i>For Class 55 Rating, Add</i>	876.86	
40 05 19 00-0344 EA 20" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,880.02	970.25
<i>For Class 52 Rating, Deduct</i>	-595.09	
<i>For Class 54 Rating, Add</i>	405.75	
<i>For Class 55 Rating, Add</i>	901.84	
40 05 19 00-0345 EA 20" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,035.30	973.84
<i>For Class 52 Rating, Deduct</i>	-611.57	
<i>For Class 54 Rating, Add</i>	416.98	
<i>For Class 55 Rating, Add</i>	926.81	
40 05 19 00-0346 EA 20" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,190.56	977.44
<i>For Class 52 Rating, Deduct</i>	-628.05	
<i>For Class 54 Rating, Add</i>	428.22	
<i>For Class 55 Rating, Add</i>	951.79	
40 05 19 00-0347 EA 20" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,345.84	981.03
<i>For Class 52 Rating, Deduct</i>	-644.54	
<i>For Class 54 Rating, Add</i>	439.46	
<i>For Class 55 Rating, Add</i>	976.77	
40 05 19 00-0348 EA 20" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,501.10	984.62
<i>For Class 52 Rating, Deduct</i>	-661.02	
<i>For Class 54 Rating, Add</i>	450.69	
<i>For Class 55 Rating, Add</i>	1,001.74	
40 05 19 00-0349 EA 20" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,656.36	988.22
<i>For Class 52 Rating, Deduct</i>	-677.50	
<i>For Class 54 Rating, Add</i>	461.93	
<i>For Class 55 Rating, Add</i>	1,026.72	
40 05 19 00-0350 EA 20" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,811.64	991.81
<i>For Class 52 Rating, Deduct</i>	-693.98	
<i>For Class 54 Rating, Add</i>	473.17	
<i>For Class 55 Rating, Add</i>	1,051.69	
40 05 19 00-0351 EA 20" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,966.90	995.40
<i>For Class 52 Rating, Deduct</i>	-710.46	
<i>For Class 54 Rating, Add</i>	484.40	
<i>For Class 55 Rating, Add</i>	1,076.67	
40 05 19 00-0352 EA 20" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,122.17	999.00
<i>For Class 52 Rating, Deduct</i>	-726.94	
<i>For Class 54 Rating, Add</i>	495.64	
<i>For Class 55 Rating, Add</i>	1,101.64	
40 05 19 00-0353 EA 20" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,277.45	1,002.59
<i>For Class 52 Rating, Deduct</i>	-743.42	
<i>For Class 54 Rating, Add</i>	506.88	
<i>For Class 55 Rating, Add</i>	1,126.62	
40 05 19 00-0354 EA 20" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,432.71	1,006.18
<i>For Class 52 Rating, Deduct</i>	-759.90	
<i>For Class 54 Rating, Add</i>	518.11	
<i>For Class 55 Rating, Add</i>	1,151.59	
40 05 19 00-0355 EA 20" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,587.99	1,009.78
<i>For Class 52 Rating, Deduct</i>	-776.38	
<i>For Class 54 Rating, Add</i>	529.35	
<i>For Class 55 Rating, Add</i>	1,176.57	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0356	EA	20" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,743.24	1,013.37
		<i>For Class 52 Rating, Deduct</i>	-792.86	
		<i>For Class 54 Rating, Add</i>	540.59	
		<i>For Class 55 Rating, Add</i>	1,201.55	
40 05 19 00-0357	EA	20" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,898.51	1,016.97
		<i>For Class 52 Rating, Deduct</i>	-809.34	
		<i>For Class 54 Rating, Add</i>	551.82	
		<i>For Class 55 Rating, Add</i>	1,226.52	
40 05 19 00-0358	EA	20" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,053.79	1,020.56
		<i>For Class 52 Rating, Deduct</i>	-825.82	
		<i>For Class 54 Rating, Add</i>	563.06	
		<i>For Class 55 Rating, Add</i>	1,251.50	
40 05 19 00-0359		24" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0360	EA	24" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,041.34	1,049.31
		<i>For Class 52 Rating, Deduct</i>	-269.66	
		<i>For Class 54 Rating, Add</i>	183.86	
		<i>For Class 55 Rating, Add</i>	408.66	
40 05 19 00-0361	EA	24" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,232.43	1,052.90
		<i>For Class 52 Rating, Deduct</i>	-290.08	
		<i>For Class 54 Rating, Add</i>	197.78	
		<i>For Class 55 Rating, Add</i>	439.61	
40 05 19 00-0362	EA	24" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,423.53	1,056.49
		<i>For Class 52 Rating, Deduct</i>	-310.50	
		<i>For Class 54 Rating, Add</i>	211.71	
		<i>For Class 55 Rating, Add</i>	470.56	
40 05 19 00-0363	EA	24" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,614.62	1,060.09
		<i>For Class 52 Rating, Deduct</i>	-330.93	
		<i>For Class 54 Rating, Add</i>	225.63	
		<i>For Class 55 Rating, Add</i>	501.50	
40 05 19 00-0364	EA	24" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,805.71	1,063.68
		<i>For Class 52 Rating, Deduct</i>	-351.35	
		<i>For Class 54 Rating, Add</i>	239.56	
		<i>For Class 55 Rating, Add</i>	532.45	
40 05 19 00-0365	EA	24" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,996.81	1,067.28
		<i>For Class 52 Rating, Deduct</i>	-371.77	
		<i>For Class 54 Rating, Add</i>	253.48	
		<i>For Class 55 Rating, Add</i>	563.40	
40 05 19 00-0366	EA	24" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,187.90	1,070.88
		<i>For Class 52 Rating, Deduct</i>	-392.19	
		<i>For Class 54 Rating, Add</i>	267.40	
		<i>For Class 55 Rating, Add</i>	594.35	
40 05 19 00-0367	EA	24" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,379.00	1,074.47
		<i>For Class 52 Rating, Deduct</i>	-412.61	
		<i>For Class 54 Rating, Add</i>	281.33	
		<i>For Class 55 Rating, Add</i>	625.30	
40 05 19 00-0368	EA	24" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,570.11	1,078.06
		<i>For Class 52 Rating, Deduct</i>	-433.03	
		<i>For Class 54 Rating, Add</i>	295.25	
		<i>For Class 55 Rating, Add</i>	656.24	
40 05 19 00-0369	EA	24" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,761.20	1,081.66
		<i>For Class 52 Rating, Deduct</i>	-453.46	
		<i>For Class 54 Rating, Add</i>	309.17	
		<i>For Class 55 Rating, Add</i>	687.19	
40 05 19 00-0370	EA	24" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,952.30	1,085.25
		<i>For Class 52 Rating, Deduct</i>	-473.88	
		<i>For Class 54 Rating, Add</i>	323.10	
		<i>For Class 55 Rating, Add</i>	718.14	
40 05 19 00-0371	EA	24" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,143.38	1,088.84
		<i>For Class 52 Rating, Deduct</i>	-494.30	
		<i>For Class 54 Rating, Add</i>	337.02	
		<i>For Class 55 Rating, Add</i>	749.09	
40 05 19 00-0372	EA	24" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,334.48	1,092.44
		<i>For Class 52 Rating, Deduct</i>	-514.72	
		<i>For Class 54 Rating, Add</i>	350.95	
		<i>For Class 55 Rating, Add</i>	780.04	
40 05 19 00-0373	EA	24" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,525.58	1,096.03
		<i>For Class 52 Rating, Deduct</i>	-535.14	
		<i>For Class 54 Rating, Add</i>	364.87	
		<i>For Class 55 Rating, Add</i>	810.98	
40 05 19 00-0374	EA	24" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,716.67	1,099.63
		<i>For Class 52 Rating, Deduct</i>	-555.56	
		<i>For Class 54 Rating, Add</i>	378.79	
		<i>For Class 55 Rating, Add</i>	841.93	
40 05 19 00-0375	EA	24" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,907.77	1,103.22
		<i>For Class 52 Rating, Deduct</i>	-575.99	
		<i>For Class 54 Rating, Add</i>	392.72	
		<i>For Class 55 Rating, Add</i>	872.88	
40 05 19 00-0376	EA	24" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,098.87	1,106.81
		<i>For Class 52 Rating, Deduct</i>	-596.41	
		<i>For Class 54 Rating, Add</i>	406.64	
		<i>For Class 55 Rating, Add</i>	903.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0377 EA 24" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,289.97	1,110.41
<i>For Class 52 Rating, Deduct</i>	-616.83	
<i>For Class 54 Rating, Add</i>	420.57	
<i>For Class 55 Rating, Add</i>	934.78	
40 05 19 00-0378 EA 24" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,481.06	1,114.00
<i>For Class 52 Rating, Deduct</i>	-637.25	
<i>For Class 54 Rating, Add</i>	434.49	
<i>For Class 55 Rating, Add</i>	965.72	
40 05 19 00-0379 EA 24" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,672.15	1,117.59
<i>For Class 52 Rating, Deduct</i>	-657.67	
<i>For Class 54 Rating, Add</i>	448.41	
<i>For Class 55 Rating, Add</i>	996.67	
40 05 19 00-0380 EA 24" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,863.25	1,121.19
<i>For Class 52 Rating, Deduct</i>	-678.09	
<i>For Class 54 Rating, Add</i>	462.34	
<i>For Class 55 Rating, Add</i>	1,027.62	
40 05 19 00-0381 EA 24" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,054.35	1,124.78
<i>For Class 52 Rating, Deduct</i>	-698.52	
<i>For Class 54 Rating, Add</i>	476.26	
<i>For Class 55 Rating, Add</i>	1,058.57	
40 05 19 00-0382 EA 24" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,245.44	1,128.37
<i>For Class 52 Rating, Deduct</i>	-718.94	
<i>For Class 54 Rating, Add</i>	490.18	
<i>For Class 55 Rating, Add</i>	1,089.52	
40 05 19 00-0383 EA 24" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,436.54	1,131.97
<i>For Class 52 Rating, Deduct</i>	-739.36	
<i>For Class 54 Rating, Add</i>	504.11	
<i>For Class 55 Rating, Add</i>	1,120.46	
40 05 19 00-0384 EA 24" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,627.64	1,135.56
<i>For Class 52 Rating, Deduct</i>	-759.78	
<i>For Class 54 Rating, Add</i>	518.03	
<i>For Class 55 Rating, Add</i>	1,151.41	
40 05 19 00-0385 EA 24" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,818.73	1,139.15
<i>For Class 52 Rating, Deduct</i>	-780.20	
<i>For Class 54 Rating, Add</i>	531.96	
<i>For Class 55 Rating, Add</i>	1,182.36	
40 05 19 00-0386 EA 24" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,009.83	1,142.75
<i>For Class 52 Rating, Deduct</i>	-800.62	
<i>For Class 54 Rating, Add</i>	545.88	
<i>For Class 55 Rating, Add</i>	1,213.31	
40 05 19 00-0387 EA 24" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,200.92	1,146.34
<i>For Class 52 Rating, Deduct</i>	-821.05	
<i>For Class 54 Rating, Add</i>	559.80	
<i>For Class 55 Rating, Add</i>	1,244.26	
40 05 19 00-0388 EA 24" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,392.02	1,149.93
<i>For Class 52 Rating, Deduct</i>	-841.47	
<i>For Class 54 Rating, Add</i>	573.73	
<i>For Class 55 Rating, Add</i>	1,275.20	
40 05 19 00-0389 EA 24" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,675.67	1,214.62
<i>For Class 52 Rating, Deduct</i>	-861.89	
<i>For Class 54 Rating, Add</i>	587.65	
<i>For Class 55 Rating, Add</i>	1,306.15	
40 05 19 00-0390 EA 24" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,866.77	1,218.21
<i>For Class 52 Rating, Deduct</i>	-882.31	
<i>For Class 54 Rating, Add</i>	601.58	
<i>For Class 55 Rating, Add</i>	1,337.10	
40 05 19 00-0391 EA 24" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,057.87	1,221.80
<i>For Class 52 Rating, Deduct</i>	-902.73	
<i>For Class 54 Rating, Add</i>	615.50	
<i>For Class 55 Rating, Add</i>	1,368.05	
40 05 19 00-0392 EA 24" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,248.97	1,225.40
<i>For Class 52 Rating, Deduct</i>	-923.15	
<i>For Class 54 Rating, Add</i>	629.42	
<i>For Class 55 Rating, Add</i>	1,399.00	
40 05 19 00-0393 EA 24" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,440.06	1,228.99
<i>For Class 52 Rating, Deduct</i>	-943.58	
<i>For Class 54 Rating, Add</i>	643.35	
<i>For Class 55 Rating, Add</i>	1,429.95	
40 05 19 00-0394 EA 24" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,631.16	1,232.58
<i>For Class 52 Rating, Deduct</i>	-964.00	
<i>For Class 54 Rating, Add</i>	657.27	
<i>For Class 55 Rating, Add</i>	1,460.89	
40 05 19 00-0395 EA 24" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,822.26	1,236.18
<i>For Class 52 Rating, Deduct</i>	-984.42	
<i>For Class 54 Rating, Add</i>	671.19	
<i>For Class 55 Rating, Add</i>	1,491.84	
40 05 19 00-0396 EA 24" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,013.34	1,239.77
<i>For Class 52 Rating, Deduct</i>	-1,004.84	
<i>For Class 54 Rating, Add</i>	685.12	
<i>For Class 55 Rating, Add</i>	1,522.79	
40 05 19 00-0397 EA 24" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,204.44	1,243.36
<i>For Class 52 Rating, Deduct</i>	-1,025.26	
<i>For Class 54 Rating, Add</i>	699.04	
<i>For Class 55 Rating, Add</i>	1,553.74	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0398		30" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0399	EA	30" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,140.83	1,480.53
		For Class 52 Rating, Deduct	-428.73	
		For Class 54 Rating, Add	292.32	
		For Class 55 Rating, Add	649.73	
40 05 19 00-0400	EA	30" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,414.43	1,484.13
		For Class 52 Rating, Deduct	-458.23	
		For Class 54 Rating, Add	312.43	
		For Class 55 Rating, Add	694.43	
40 05 19 00-0401	EA	30" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,688.04	1,487.72
		For Class 52 Rating, Deduct	-487.73	
		For Class 54 Rating, Add	332.54	
		For Class 55 Rating, Add	739.13	
40 05 19 00-0402	EA	30" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,961.65	1,491.31
		For Class 52 Rating, Deduct	-517.23	
		For Class 54 Rating, Add	352.66	
		For Class 55 Rating, Add	783.84	
40 05 19 00-0403	EA	30" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,235.25	1,494.91
		For Class 52 Rating, Deduct	-546.73	
		For Class 54 Rating, Add	372.77	
		For Class 55 Rating, Add	828.54	
40 05 19 00-0404	EA	30" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,508.87	1,498.50
		For Class 52 Rating, Deduct	-576.23	
		For Class 54 Rating, Add	392.88	
		For Class 55 Rating, Add	873.24	
40 05 19 00-0405	EA	30" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,782.47	1,502.10
		For Class 52 Rating, Deduct	-605.72	
		For Class 54 Rating, Add	412.99	
		For Class 55 Rating, Add	917.95	
40 05 19 00-0406	EA	30" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,056.08	1,505.69
		For Class 52 Rating, Deduct	-635.22	
		For Class 54 Rating, Add	433.10	
		For Class 55 Rating, Add	962.65	
40 05 19 00-0407	EA	30" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,329.69	1,509.28
		For Class 52 Rating, Deduct	-664.72	
		For Class 54 Rating, Add	453.22	
		For Class 55 Rating, Add	1,007.35	
40 05 19 00-0408	EA	30" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,603.29	1,512.88
		For Class 52 Rating, Deduct	-694.22	
		For Class 54 Rating, Add	473.33	
		For Class 55 Rating, Add	1,052.05	
40 05 19 00-0409	EA	30" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,876.90	1,516.47
		For Class 52 Rating, Deduct	-723.71	
		For Class 54 Rating, Add	493.44	
		For Class 55 Rating, Add	1,096.76	
40 05 19 00-0410	EA	30" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,150.51	1,520.06
		For Class 52 Rating, Deduct	-753.21	
		For Class 54 Rating, Add	513.55	
		For Class 55 Rating, Add	1,141.46	
40 05 19 00-0411	EA	30" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,424.12	1,523.66
		For Class 52 Rating, Deduct	-782.71	
		For Class 54 Rating, Add	533.67	
		For Class 55 Rating, Add	1,186.16	
40 05 19 00-0412	EA	30" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,697.73	1,527.25
		For Class 52 Rating, Deduct	-812.21	
		For Class 54 Rating, Add	553.78	
		For Class 55 Rating, Add	1,230.86	
40 05 19 00-0413	EA	30" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,971.33	1,530.84
		For Class 52 Rating, Deduct	-841.71	
		For Class 54 Rating, Add	573.89	
		For Class 55 Rating, Add	1,275.57	
40 05 19 00-0414	EA	30" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,244.95	1,534.44
		For Class 52 Rating, Deduct	-871.20	
		For Class 54 Rating, Add	594.00	
		For Class 55 Rating, Add	1,320.27	
40 05 19 00-0415	EA	30" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,518.55	1,538.03
		For Class 52 Rating, Deduct	-900.70	
		For Class 54 Rating, Add	614.12	
		For Class 55 Rating, Add	1,364.97	
40 05 19 00-0416	EA	30" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,792.15	1,541.62
		For Class 52 Rating, Deduct	-930.20	
		For Class 54 Rating, Add	634.23	
		For Class 55 Rating, Add	1,409.68	
40 05 19 00-0417	EA	30" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,065.76	1,545.22
		For Class 52 Rating, Deduct	-959.70	
		For Class 54 Rating, Add	654.34	
		For Class 55 Rating, Add	1,454.38	
40 05 19 00-0418	EA	30" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,339.38	1,548.81
		For Class 52 Rating, Deduct	-989.20	
		For Class 54 Rating, Add	674.45	
		For Class 55 Rating, Add	1,499.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0419 EA 30" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,612.98	1,552.40
<i>For Class 52 Rating, Deduct</i>	-1,018.69	
<i>For Class 54 Rating, Add</i>	694.56	
<i>For Class 55 Rating, Add</i>	1,543.78	
40 05 19 00-0420 EA 30" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,886.59	1,556.00
<i>For Class 52 Rating, Deduct</i>	-1,048.19	
<i>For Class 54 Rating, Add</i>	714.68	
<i>For Class 55 Rating, Add</i>	1,588.49	
40 05 19 00-0421 EA 30" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,160.20	1,559.59
<i>For Class 52 Rating, Deduct</i>	-1,077.69	
<i>For Class 54 Rating, Add</i>	734.79	
<i>For Class 55 Rating, Add</i>	1,633.19	
40 05 19 00-0422 EA 30" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,433.80	1,563.18
<i>For Class 52 Rating, Deduct</i>	-1,107.19	
<i>For Class 54 Rating, Add</i>	754.90	
<i>For Class 55 Rating, Add</i>	1,677.89	
40 05 19 00-0423 EA 30" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,706.33	1,566.78
<i>For Class 52 Rating, Deduct</i>	-1,136.57	
<i>For Class 54 Rating, Add</i>	774.93	
<i>For Class 55 Rating, Add</i>	1,722.41	
40 05 19 00-0424 EA 30" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,981.02	1,570.37
<i>For Class 52 Rating, Deduct</i>	-1,166.18	
<i>For Class 54 Rating, Add</i>	795.13	
<i>For Class 55 Rating, Add</i>	1,767.30	
40 05 19 00-0425 EA 30" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,254.63	1,573.96
<i>For Class 52 Rating, Deduct</i>	-1,195.68	
<i>For Class 54 Rating, Add</i>	815.24	
<i>For Class 55 Rating, Add</i>	1,812.00	
40 05 19 00-0426 EA 30" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,528.23	1,577.56
<i>For Class 52 Rating, Deduct</i>	-1,225.18	
<i>For Class 54 Rating, Add</i>	835.35	
<i>For Class 55 Rating, Add</i>	1,856.70	
40 05 19 00-0427 EA 30" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,801.84	1,581.15
<i>For Class 52 Rating, Deduct</i>	-1,254.68	
<i>For Class 54 Rating, Add</i>	855.46	
<i>For Class 55 Rating, Add</i>	1,901.41	
40 05 19 00-0428 EA 30" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,075.46	1,584.75
<i>For Class 52 Rating, Deduct</i>	-1,284.18	
<i>For Class 54 Rating, Add</i>	875.57	
<i>For Class 55 Rating, Add</i>	1,946.11	
40 05 19 00-0429 EA 30" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,349.05	1,588.34
<i>For Class 52 Rating, Deduct</i>	-1,313.67	
<i>For Class 54 Rating, Add</i>	895.69	
<i>For Class 55 Rating, Add</i>	1,990.81	
40 05 19 00-0430 EA 30" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,622.66	1,591.93
<i>For Class 52 Rating, Deduct</i>	-1,343.17	
<i>For Class 54 Rating, Add</i>	915.80	
<i>For Class 55 Rating, Add</i>	2,035.51	
40 05 19 00-0431 EA 30" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,896.28	1,595.53
<i>For Class 52 Rating, Deduct</i>	-1,372.67	
<i>For Class 54 Rating, Add</i>	935.91	
<i>For Class 55 Rating, Add</i>	2,080.22	
40 05 19 00-0432 EA 30" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,169.88	1,599.12
<i>For Class 52 Rating, Deduct</i>	-1,402.17	
<i>For Class 54 Rating, Add</i>	956.02	
<i>For Class 55 Rating, Add</i>	2,124.92	
40 05 19 00-0433 EA 30" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,443.49	1,602.71
<i>For Class 52 Rating, Deduct</i>	-1,431.66	
<i>For Class 54 Rating, Add</i>	976.13	
<i>For Class 55 Rating, Add</i>	2,169.62	
40 05 19 00-0434 EA 30" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,717.09	1,606.31
<i>For Class 52 Rating, Deduct</i>	-1,461.16	
<i>For Class 54 Rating, Add</i>	996.25	
<i>For Class 55 Rating, Add</i>	2,214.32	
40 05 19 00-0435 EA 30" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,990.71	1,609.90
<i>For Class 52 Rating, Deduct</i>	-1,490.66	
<i>For Class 54 Rating, Add</i>	1,016.36	
<i>For Class 55 Rating, Add</i>	2,259.03	
40 05 19 00-0436 EA 30" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,264.31	1,613.49
<i>For Class 52 Rating, Deduct</i>	-1,520.16	
<i>For Class 54 Rating, Add</i>	1,036.47	
<i>For Class 55 Rating, Add</i>	2,303.73	
40 05 19 00-0437 36" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0438 EA 36" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,419.30	1,875.83
<i>For Class 52 Rating, Deduct</i>	-613.49	
<i>For Class 54 Rating, Add</i>	418.29	
<i>For Class 55 Rating, Add</i>	929.71	
40 05 19 00-0439 EA 36" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,789.53	1,879.42
<i>For Class 52 Rating, Deduct</i>	-653.61	
<i>For Class 54 Rating, Add</i>	445.64	
<i>For Class 55 Rating, Add</i>	990.52	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0440	EA		36" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,159.77	1,883.01
			<i>For Class 52 Rating, Deduct</i>	-693.74	
			<i>For Class 54 Rating, Add</i>	473.00	
			<i>For Class 55 Rating, Add</i>	1,051.33	
40 05 19 00-0441	EA		36" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,529.99	1,886.61
			<i>For Class 52 Rating, Deduct</i>	-733.87	
			<i>For Class 54 Rating, Add</i>	500.36	
			<i>For Class 55 Rating, Add</i>	1,112.14	
40 05 19 00-0442	EA		36" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,900.22	1,890.20
			<i>For Class 52 Rating, Deduct</i>	-773.99	
			<i>For Class 54 Rating, Add</i>	527.72	
			<i>For Class 55 Rating, Add</i>	1,172.95	
40 05 19 00-0443	EA		36" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,270.46	1,893.79
			<i>For Class 52 Rating, Deduct</i>	-814.12	
			<i>For Class 54 Rating, Add</i>	555.08	
			<i>For Class 55 Rating, Add</i>	1,233.76	
40 05 19 00-0444	EA		36" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,640.69	1,897.39
			<i>For Class 52 Rating, Deduct</i>	-854.25	
			<i>For Class 54 Rating, Add</i>	582.44	
			<i>For Class 55 Rating, Add</i>	1,294.57	
40 05 19 00-0445	EA		36" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,010.93	1,900.98
			<i>For Class 52 Rating, Deduct</i>	-894.37	
			<i>For Class 54 Rating, Add</i>	609.80	
			<i>For Class 55 Rating, Add</i>	1,355.38	
40 05 19 00-0446	EA		36" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,381.17	1,904.57
			<i>For Class 52 Rating, Deduct</i>	-934.50	
			<i>For Class 54 Rating, Add</i>	637.16	
			<i>For Class 55 Rating, Add</i>	1,416.19	
40 05 19 00-0447	EA		36" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,751.39	1,908.17
			<i>For Class 52 Rating, Deduct</i>	-974.63	
			<i>For Class 54 Rating, Add</i>	664.52	
			<i>For Class 55 Rating, Add</i>	1,477.00	
40 05 19 00-0448	EA		36" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,121.62	1,911.76
			<i>For Class 52 Rating, Deduct</i>	-1,014.75	
			<i>For Class 54 Rating, Add</i>	691.88	
			<i>For Class 55 Rating, Add</i>	1,537.81	
40 05 19 00-0449	EA		36" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,491.86	1,915.36
			<i>For Class 52 Rating, Deduct</i>	-1,054.88	
			<i>For Class 54 Rating, Add</i>	719.24	
			<i>For Class 55 Rating, Add</i>	1,598.62	
40 05 19 00-0450	EA		36" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,862.09	1,918.95
			<i>For Class 52 Rating, Deduct</i>	-1,095.01	
			<i>For Class 54 Rating, Add</i>	746.60	
			<i>For Class 55 Rating, Add</i>	1,659.43	
40 05 19 00-0451	EA		36" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,232.33	1,922.54
			<i>For Class 52 Rating, Deduct</i>	-1,135.13	
			<i>For Class 54 Rating, Add</i>	773.95	
			<i>For Class 55 Rating, Add</i>	1,720.24	
40 05 19 00-0452	EA		36" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,602.56	1,926.14
			<i>For Class 52 Rating, Deduct</i>	-1,175.26	
			<i>For Class 54 Rating, Add</i>	801.31	
			<i>For Class 55 Rating, Add</i>	1,781.05	
40 05 19 00-0453	EA		36" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,972.80	1,929.73
			<i>For Class 52 Rating, Deduct</i>	-1,215.39	
			<i>For Class 54 Rating, Add</i>	828.67	
			<i>For Class 55 Rating, Add</i>	1,841.86	
40 05 19 00-0454	EA		36" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	14,343.03	1,933.32
			<i>For Class 52 Rating, Deduct</i>	-1,255.51	
			<i>For Class 54 Rating, Add</i>	856.03	
			<i>For Class 55 Rating, Add</i>	1,902.67	
40 05 19 00-0455	EA		36" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	14,713.25	1,936.92
			<i>For Class 52 Rating, Deduct</i>	-1,295.64	
			<i>For Class 54 Rating, Add</i>	883.39	
			<i>For Class 55 Rating, Add</i>	1,963.48	
40 05 19 00-0456	EA		36" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	15,083.49	1,940.51
			<i>For Class 52 Rating, Deduct</i>	-1,335.77	
			<i>For Class 54 Rating, Add</i>	910.75	
			<i>For Class 55 Rating, Add</i>	2,024.29	
40 05 19 00-0457	EA		36" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	15,453.73	1,944.10
			<i>For Class 52 Rating, Deduct</i>	-1,375.89	
			<i>For Class 54 Rating, Add</i>	938.11	
			<i>For Class 55 Rating, Add</i>	2,085.10	
40 05 19 00-0458	EA		36" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	15,823.96	1,947.70
			<i>For Class 52 Rating, Deduct</i>	-1,416.02	
			<i>For Class 54 Rating, Add</i>	965.47	
			<i>For Class 55 Rating, Add</i>	2,145.91	
40 05 19 00-0459	EA		36" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	16,194.20	1,951.29
			<i>For Class 52 Rating, Deduct</i>	-1,456.15	
			<i>For Class 54 Rating, Add</i>	992.83	
			<i>For Class 55 Rating, Add</i>	2,206.72	
40 05 19 00-0460	EA		36" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	16,564.42	1,954.88
			<i>For Class 52 Rating, Deduct</i>	-1,496.27	
			<i>For Class 54 Rating, Add</i>	1,020.19	
			<i>For Class 55 Rating, Add</i>	2,267.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0461 EA 36" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,934.66	1,958.48
<i>For Class 52 Rating, Deduct</i>	-1,536.40	
<i>For Class 54 Rating, Add</i>	1,047.55	
<i>For Class 55 Rating, Add</i>	2,328.34	
40 05 19 00-0462 EA 36" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,304.89	1,962.07
<i>For Class 52 Rating, Deduct</i>	-1,576.53	
<i>For Class 54 Rating, Add</i>	1,074.90	
<i>For Class 55 Rating, Add</i>	2,389.15	
40 05 19 00-0463 EA 36" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,675.12	1,965.66
<i>For Class 52 Rating, Deduct</i>	-1,616.65	
<i>For Class 54 Rating, Add</i>	1,102.26	
<i>For Class 55 Rating, Add</i>	2,449.96	
40 05 19 00-0464 EA 36" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,045.36	1,969.26
<i>For Class 52 Rating, Deduct</i>	-1,656.78	
<i>For Class 54 Rating, Add</i>	1,129.62	
<i>For Class 55 Rating, Add</i>	2,510.78	
40 05 19 00-0465 EA 36" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,415.59	1,972.85
<i>For Class 52 Rating, Deduct</i>	-1,696.91	
<i>For Class 54 Rating, Add</i>	1,156.98	
<i>For Class 55 Rating, Add</i>	2,571.59	
40 05 19 00-0466 EA 36" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,785.83	1,976.44
<i>For Class 52 Rating, Deduct</i>	-1,737.03	
<i>For Class 54 Rating, Add</i>	1,184.34	
<i>For Class 55 Rating, Add</i>	2,632.40	
40 05 19 00-0467 EA 36" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,156.06	1,980.04
<i>For Class 52 Rating, Deduct</i>	-1,777.16	
<i>For Class 54 Rating, Add</i>	1,211.70	
<i>For Class 55 Rating, Add</i>	2,693.21	
40 05 19 00-0468 EA 36" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,526.29	1,983.63
<i>For Class 52 Rating, Deduct</i>	-1,817.29	
<i>For Class 54 Rating, Add</i>	1,239.06	
<i>For Class 55 Rating, Add</i>	2,754.02	
40 05 19 00-0469 EA 36" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,896.52	1,987.23
<i>For Class 52 Rating, Deduct</i>	-1,857.41	
<i>For Class 54 Rating, Add</i>	1,266.42	
<i>For Class 55 Rating, Add</i>	2,814.83	
40 05 19 00-0470 EA 36" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,266.76	1,990.82
<i>For Class 52 Rating, Deduct</i>	-1,897.54	
<i>For Class 54 Rating, Add</i>	1,293.78	
<i>For Class 55 Rating, Add</i>	2,875.64	
40 05 19 00-0471 EA 36" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,636.99	1,994.41
<i>For Class 52 Rating, Deduct</i>	-1,937.67	
<i>For Class 54 Rating, Add</i>	1,321.14	
<i>For Class 55 Rating, Add</i>	2,936.45	
40 05 19 00-0472 EA 36" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,007.23	1,998.01
<i>For Class 52 Rating, Deduct</i>	-1,977.79	
<i>For Class 54 Rating, Add</i>	1,348.50	
<i>For Class 55 Rating, Add</i>	2,997.26	
40 05 19 00-0473 EA 36" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,377.46	2,001.60
<i>For Class 52 Rating, Deduct</i>	-2,017.92	
<i>For Class 54 Rating, Add</i>	1,375.86	
<i>For Class 55 Rating, Add</i>	3,058.07	
40 05 19 00-0474 EA 36" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,747.69	2,005.19
<i>For Class 52 Rating, Deduct</i>	-2,058.05	
<i>For Class 54 Rating, Add</i>	1,403.21	
<i>For Class 55 Rating, Add</i>	3,118.88	
40 05 19 00-0475 EA 36" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,117.93	2,008.79
<i>For Class 52 Rating, Deduct</i>	-2,098.17	
<i>For Class 54 Rating, Add</i>	1,430.57	
<i>For Class 55 Rating, Add</i>	3,179.69	
40 05 19 00-0476 42" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0477 EA 42" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,022.80	2,364.54
<i>For Class 52 Rating, Deduct</i>	-818.42	
<i>For Class 54 Rating, Add</i>	558.01	
<i>For Class 55 Rating, Add</i>	1,240.27	
40 05 19 00-0478 EA 42" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,573.26	2,368.13
<i>For Class 52 Rating, Deduct</i>	-878.37	
<i>For Class 54 Rating, Add</i>	598.89	
<i>For Class 55 Rating, Add</i>	1,331.13	
40 05 19 00-0479 EA 42" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,117.20	2,371.73
<i>For Class 52 Rating, Deduct</i>	-937.60	
<i>For Class 54 Rating, Add</i>	639.28	
<i>For Class 55 Rating, Add</i>	1,420.90	
40 05 19 00-0480 EA 42" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,666.58	2,375.32
<i>For Class 52 Rating, Deduct</i>	-997.44	
<i>For Class 54 Rating, Add</i>	680.07	
<i>For Class 55 Rating, Add</i>	1,511.57	
40 05 19 00-0481 EA 42" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,210.52	2,378.91
<i>For Class 52 Rating, Deduct</i>	-1,056.67	
<i>For Class 54 Rating, Add</i>	720.46	
<i>For Class 55 Rating, Add</i>	1,601.34	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0482 EA 42" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,760.98	2,382.51
For Class 52 Rating, Deduct	-1,116.62	
For Class 54 Rating, Add	761.33	
For Class 55 Rating, Add	1,692.19	
40 05 19 00-0483 EA 42" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	14,303.83	2,386.10
For Class 52 Rating, Deduct	-1,175.74	
For Class 54 Rating, Add	801.64	
For Class 55 Rating, Add	1,781.78	
40 05 19 00-0484 EA 42" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	14,854.28	2,389.69
For Class 52 Rating, Deduct	-1,235.69	
For Class 54 Rating, Add	842.51	
For Class 55 Rating, Add	1,872.63	
40 05 19 00-0485 EA 42" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	15,398.23	2,393.29
For Class 52 Rating, Deduct	-1,294.92	
For Class 54 Rating, Add	882.90	
For Class 55 Rating, Add	1,962.40	
40 05 19 00-0486 EA 42" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	15,947.59	2,396.88
For Class 52 Rating, Deduct	-1,354.75	
For Class 54 Rating, Add	923.70	
For Class 55 Rating, Add	2,053.07	
40 05 19 00-0487 EA 42" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	16,491.54	2,400.48
For Class 52 Rating, Deduct	-1,413.99	
For Class 54 Rating, Add	964.08	
For Class 55 Rating, Add	2,142.84	
40 05 19 00-0488 EA 42" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	17,040.92	2,404.07
For Class 52 Rating, Deduct	-1,473.82	
For Class 54 Rating, Add	1,004.88	
For Class 55 Rating, Add	2,233.51	
40 05 19 00-0489 EA 42" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	17,584.85	2,407.66
For Class 52 Rating, Deduct	-1,533.06	
For Class 54 Rating, Add	1,045.27	
For Class 55 Rating, Add	2,323.28	
40 05 19 00-0490 EA 42" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	18,129.88	2,411.26
For Class 52 Rating, Deduct	-1,592.41	
For Class 54 Rating, Add	1,085.73	
For Class 55 Rating, Add	2,413.23	
40 05 19 00-0491 EA 42" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	18,678.17	2,414.85
For Class 52 Rating, Deduct	-1,652.12	
For Class 54 Rating, Add	1,126.45	
For Class 55 Rating, Add	2,503.72	
40 05 19 00-0492 EA 42" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	19,222.10	2,418.44
For Class 52 Rating, Deduct	-1,711.36	
For Class 54 Rating, Add	1,166.83	
For Class 55 Rating, Add	2,593.48	
40 05 19 00-0493 EA 42" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	19,772.57	2,422.04
For Class 52 Rating, Deduct	-1,771.31	
For Class 54 Rating, Add	1,207.71	
For Class 55 Rating, Add	2,684.34	
40 05 19 00-0494 EA 42" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	20,316.50	2,425.63
For Class 52 Rating, Deduct	-1,830.54	
For Class 54 Rating, Add	1,248.10	
For Class 55 Rating, Add	2,774.10	
40 05 19 00-0495 EA 42" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	20,865.88	2,429.22
For Class 52 Rating, Deduct	-1,890.38	
For Class 54 Rating, Add	1,288.89	
For Class 55 Rating, Add	2,864.78	
40 05 19 00-0496 EA 42" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	21,409.83	2,432.82
For Class 52 Rating, Deduct	-1,949.61	
For Class 54 Rating, Add	1,329.28	
For Class 55 Rating, Add	2,954.55	
40 05 19 00-0497 EA 42" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	21,960.27	2,436.41
For Class 52 Rating, Deduct	-2,009.56	
For Class 54 Rating, Add	1,370.16	
For Class 55 Rating, Add	3,045.40	
40 05 19 00-0498 EA 42" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	22,504.21	2,440.00
For Class 52 Rating, Deduct	-2,068.80	
For Class 54 Rating, Add	1,410.54	
For Class 55 Rating, Add	3,135.17	
40 05 19 00-0499 EA 42" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	23,053.58	2,443.60
For Class 52 Rating, Deduct	-2,128.63	
For Class 54 Rating, Add	1,451.34	
For Class 55 Rating, Add	3,225.84	
40 05 19 00-0500 EA 42" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	23,597.53	2,447.19
For Class 52 Rating, Deduct	-2,187.86	
For Class 54 Rating, Add	1,491.72	
For Class 55 Rating, Add	3,315.61	
40 05 19 00-0501 EA 42" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	24,147.99	2,450.78
For Class 52 Rating, Deduct	-2,247.81	
For Class 54 Rating, Add	1,532.60	
For Class 55 Rating, Add	3,406.46	
40 05 19 00-0502 EA 42" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	24,691.93	2,454.38
For Class 52 Rating, Deduct	-2,307.05	
For Class 54 Rating, Add	1,572.99	
For Class 55 Rating, Add	3,496.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0503 EA 42" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,240.22	2,457.97
<i>For Class 52 Rating, Deduct</i>	-2,366.76	
<i>For Class 54 Rating, Add</i>	1,613.70	
<i>For Class 55 Rating, Add</i>	3,586.72	
40 05 19 00-0504 EA 42" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,785.24	2,461.56
<i>For Class 52 Rating, Deduct</i>	-2,426.11	
<i>For Class 54 Rating, Add</i>	1,654.17	
<i>For Class 55 Rating, Add</i>	3,676.67	
40 05 19 00-0505 EA 42" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,220.61	2,465.16
<i>For Class 52 Rating, Deduct</i>	-2,473.41	
<i>For Class 54 Rating, Add</i>	1,686.41	
<i>For Class 55 Rating, Add</i>	3,748.34	
40 05 19 00-0506 EA 42" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,878.55	2,468.75
<i>For Class 52 Rating, Deduct</i>	-2,545.18	
<i>For Class 54 Rating, Add</i>	1,735.35	
<i>For Class 55 Rating, Add</i>	3,857.11	
40 05 19 00-0507 EA 42" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,422.49	2,472.35
<i>For Class 52 Rating, Deduct</i>	-2,604.42	
<i>For Class 54 Rating, Add</i>	1,775.74	
<i>For Class 55 Rating, Add</i>	3,946.87	
40 05 19 00-0508 EA 42" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,971.87	2,475.94
<i>For Class 52 Rating, Deduct</i>	-2,664.25	
<i>For Class 54 Rating, Add</i>	1,816.53	
<i>For Class 55 Rating, Add</i>	4,037.55	
40 05 19 00-0509 EA 42" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,515.81	2,479.53
<i>For Class 52 Rating, Deduct</i>	-2,723.48	
<i>For Class 54 Rating, Add</i>	1,856.92	
<i>For Class 55 Rating, Add</i>	4,127.31	
40 05 19 00-0510 EA 42" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,066.26	2,483.13
<i>For Class 52 Rating, Deduct</i>	-2,783.43	
<i>For Class 54 Rating, Add</i>	1,897.80	
<i>For Class 55 Rating, Add</i>	4,218.17	
40 05 19 00-0511 EA 42" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,609.12	2,486.72
<i>For Class 52 Rating, Deduct</i>	-2,842.55	
<i>For Class 54 Rating, Add</i>	1,938.10	
<i>For Class 55 Rating, Add</i>	4,307.75	
40 05 19 00-0512 EA 42" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,159.58	2,490.31
<i>For Class 52 Rating, Deduct</i>	-2,902.50	
<i>For Class 54 Rating, Add</i>	1,978.98	
<i>For Class 55 Rating, Add</i>	4,398.61	
40 05 19 00-0513 EA 42" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,703.51	2,493.92
<i>For Class 52 Rating, Deduct</i>	-2,961.73	
<i>For Class 54 Rating, Add</i>	2,019.36	
<i>For Class 55 Rating, Add</i>	4,488.37	
40 05 19 00-0514 EA 42" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,252.89	2,497.51
<i>For Class 52 Rating, Deduct</i>	-3,021.57	
<i>For Class 54 Rating, Add</i>	2,060.16	
<i>For Class 55 Rating, Add</i>	4,579.05	
40 05 19 00-0515 48" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0516 EA 48" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,830.96	2,971.85
<i>For Class 52 Rating, Deduct</i>	-1,026.10	
<i>For Class 54 Rating, Add</i>	699.61	
<i>For Class 55 Rating, Add</i>	1,555.00	
40 05 19 00-0517 EA 48" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,630.04	2,975.44
<i>For Class 52 Rating, Deduct</i>	-1,113.40	
<i>For Class 54 Rating, Add</i>	759.13	
<i>For Class 55 Rating, Add</i>	1,687.30	
40 05 19 00-0518 EA 48" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,428.04	2,979.04
<i>For Class 52 Rating, Deduct</i>	-1,200.58	
<i>For Class 54 Rating, Add</i>	818.58	
<i>For Class 55 Rating, Add</i>	1,819.42	
40 05 19 00-0519 EA 48" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,232.54	2,982.63
<i>For Class 52 Rating, Deduct</i>	-1,288.47	
<i>For Class 54 Rating, Add</i>	878.51	
<i>For Class 55 Rating, Add</i>	1,952.62	
40 05 19 00-0520 EA 48" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,031.61	2,986.22
<i>For Class 52 Rating, Deduct</i>	-1,375.77	
<i>For Class 54 Rating, Add</i>	938.03	
<i>For Class 55 Rating, Add</i>	2,084.92	
40 05 19 00-0521 EA 48" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,830.69	2,989.82
<i>For Class 52 Rating, Deduct</i>	-1,463.07	
<i>For Class 54 Rating, Add</i>	997.55	
<i>For Class 55 Rating, Add</i>	2,217.22	
40 05 19 00-0522 EA 48" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,634.11	2,993.41
<i>For Class 52 Rating, Deduct</i>	-1,550.85	
<i>For Class 54 Rating, Add</i>	1,057.40	
<i>For Class 55 Rating, Add</i>	2,350.24	
40 05 19 00-0523 EA 48" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,434.28	2,997.00
<i>For Class 52 Rating, Deduct</i>	-1,638.27	
<i>For Class 54 Rating, Add</i>	1,117.00	
<i>For Class 55 Rating, Add</i>	2,482.72	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0524 EA 48" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	20,232.26	3,000.60
For Class 52 Rating, Deduct	-1,725.45	
For Class 54 Rating, Add	1,176.44	
For Class 55 Rating, Add	2,614.84	
40 05 19 00-0525 EA 48" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	21,036.78	3,004.19
For Class 52 Rating, Deduct	-1,813.35	
For Class 54 Rating, Add	1,236.37	
For Class 55 Rating, Add	2,748.04	
40 05 19 00-0526 EA 48" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	21,835.86	3,007.78
For Class 52 Rating, Deduct	-1,900.65	
For Class 54 Rating, Add	1,295.90	
For Class 55 Rating, Add	2,880.34	
40 05 19 00-0527 EA 48" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	22,640.35	3,011.38
For Class 52 Rating, Deduct	-1,988.54	
For Class 54 Rating, Add	1,355.82	
For Class 55 Rating, Add	3,013.55	
40 05 19 00-0528 EA 48" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	23,438.34	3,014.97
For Class 52 Rating, Deduct	-2,075.72	
For Class 54 Rating, Add	1,415.27	
For Class 55 Rating, Add	3,145.66	
40 05 19 00-0529 EA 48" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	24,237.42	3,018.56
For Class 52 Rating, Deduct	-2,163.02	
For Class 54 Rating, Add	1,474.79	
For Class 55 Rating, Add	3,277.96	
40 05 19 00-0530 EA 48" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	25,041.93	3,022.16
For Class 52 Rating, Deduct	-2,250.92	
For Class 54 Rating, Add	1,534.72	
For Class 55 Rating, Add	3,411.17	
40 05 19 00-0531 EA 48" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	25,841.01	3,025.75
For Class 52 Rating, Deduct	-2,338.22	
For Class 54 Rating, Add	1,594.24	
For Class 55 Rating, Add	3,543.46	
40 05 19 00-0532 EA 48" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	26,639.00	3,029.34
For Class 52 Rating, Deduct	-2,425.40	
For Class 54 Rating, Add	1,653.68	
For Class 55 Rating, Add	3,675.58	
40 05 19 00-0533 EA 48" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	27,443.51	3,032.94
For Class 52 Rating, Deduct	-2,513.30	
For Class 54 Rating, Add	1,713.61	
For Class 55 Rating, Add	3,808.78	
40 05 19 00-0534 EA 48" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	28,242.58	3,036.53
For Class 52 Rating, Deduct	-2,600.59	
For Class 54 Rating, Add	1,773.13	
For Class 55 Rating, Add	3,941.08	
40 05 19 00-0535 EA 48" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	29,040.56	3,040.13
For Class 52 Rating, Deduct	-2,687.77	
For Class 54 Rating, Add	1,832.57	
For Class 55 Rating, Add	4,073.20	
40 05 19 00-0536 EA 48" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	29,845.07	3,043.72
For Class 52 Rating, Deduct	-2,775.67	
For Class 54 Rating, Add	1,892.50	
For Class 55 Rating, Add	4,206.40	
40 05 19 00-0537 EA 48" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	30,645.23	3,047.31
For Class 52 Rating, Deduct	-2,863.09	
For Class 54 Rating, Add	1,952.11	
For Class 55 Rating, Add	4,338.88	
40 05 19 00-0538 EA 48" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	31,443.23	3,050.91
For Class 52 Rating, Deduct	-2,950.27	
For Class 54 Rating, Add	2,011.55	
For Class 55 Rating, Add	4,471.00	
40 05 19 00-0539 EA 48" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	32,247.74	3,054.50
For Class 52 Rating, Deduct	-3,038.17	
For Class 54 Rating, Add	2,071.48	
For Class 55 Rating, Add	4,604.20	
40 05 19 00-0540 EA 48" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	33,046.81	3,058.09
For Class 52 Rating, Deduct	-3,125.47	
For Class 54 Rating, Add	2,131.00	
For Class 55 Rating, Add	4,736.50	
40 05 19 00-0541 EA 48" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	33,844.80	3,061.69
For Class 52 Rating, Deduct	-3,212.65	
For Class 54 Rating, Add	2,190.44	
For Class 55 Rating, Add	4,868.62	
40 05 19 00-0542 EA 48" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	34,649.30	3,065.28
For Class 52 Rating, Deduct	-3,300.54	
For Class 54 Rating, Add	2,250.37	
For Class 55 Rating, Add	5,001.82	
40 05 19 00-0543 EA 48" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	35,448.38	3,068.87
For Class 52 Rating, Deduct	-3,387.84	
For Class 54 Rating, Add	2,309.89	
For Class 55 Rating, Add	5,134.12	
40 05 19 00-0544 EA 48" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	36,149.75	3,072.47
For Class 52 Rating, Deduct	-3,464.39	
For Class 54 Rating, Add	2,362.09	
For Class 55 Rating, Add	5,250.13	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0545 EA 48" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	37,051.96 -3,563.04 2,429.34 5,399.62	3,076.06
40 05 19 00-0546 EA 48" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	37,849.96 -3,650.22 2,488.79 5,531.74	3,079.65
40 05 19 00-0547 EA 48" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	38,655.56 -3,738.24 2,548.80 5,665.13	3,083.25
40 05 19 00-0548 EA 48" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	39,453.53 -3,825.42 2,608.24 5,797.24	3,086.84
40 05 19 00-0549 EA 48" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	40,251.53 -3,912.60 2,667.68 5,929.36	3,090.43
40 05 19 00-0550 EA 48" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	41,057.11 -4,000.61 2,727.69 6,062.74	3,094.03
40 05 19 00-0551 EA 48" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	41,855.11 -4,087.79 2,787.13 6,194.86	3,097.62
40 05 19 00-0552 EA 48" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	42,654.19 -4,175.09 2,846.65 6,327.16	3,101.21
40 05 19 00-0553 EA 48" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	43,458.69 -4,262.99 2,906.58 6,460.36	3,104.81
40 05 19 00-0554 Flanged End x Grooved End (FxF), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0545)</small>		
40 05 19 00-0555 4" Flanged End x Grooved End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0556 EA 4" Flanged x Grooved (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	433.72 -20.30 13.84 30.77	164.45
40 05 19 00-0557 EA 4" Flanged x Grooved (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	466.30 -23.41 15.96 35.47	167.32
40 05 19 00-0558 EA 4" Flanged x Grooved (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	498.89 -26.51 18.08 40.18	170.20
40 05 19 00-0559 EA 4" Flanged x Grooved (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	531.47 -29.62 20.19 44.88	173.07
40 05 19 00-0560 EA 4" Flanged x Grooved (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	564.06 -32.72 22.31 49.59	175.95
40 05 19 00-0561 EA 4" Flanged x Grooved (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	596.63 -35.83 24.43 54.29	178.82
40 05 19 00-0562 EA 4" Flanged x Grooved (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	629.21 -38.93 26.54 59.00	181.69
40 05 19 00-0563 EA 4" Flanged x Grooved (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i>	661.80 -42.04 28.66 63.71	184.57

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0564	EA		4" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	694.39	187.44
			For Class 52 Rating, Deduct	-45.14	
			For Class 54 Rating, Add	30.78	
			For Class 55 Rating, Add	68.41	
40 05 19 00-0565	EA		4" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	726.96	190.32
			For Class 52 Rating, Deduct	-48.25	
			For Class 54 Rating, Add	32.90	
			For Class 55 Rating, Add	73.12	
40 05 19 00-0566	EA		4" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	759.55	193.19
			For Class 52 Rating, Deduct	-51.35	
			For Class 54 Rating, Add	35.01	
			For Class 55 Rating, Add	77.82	
40 05 19 00-0567	EA		4" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	792.14	196.07
			For Class 52 Rating, Deduct	-54.46	
			For Class 54 Rating, Add	37.13	
			For Class 55 Rating, Add	82.53	
40 05 19 00-0568	EA		4" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	824.72	198.94
			For Class 52 Rating, Deduct	-57.56	
			For Class 54 Rating, Add	39.25	
			For Class 55 Rating, Add	87.23	
40 05 19 00-0569	EA		4" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	857.31	201.82
			For Class 52 Rating, Deduct	-60.67	
			For Class 54 Rating, Add	41.36	
			For Class 55 Rating, Add	91.94	
40 05 19 00-0570	EA		4" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	889.88	204.69
			For Class 52 Rating, Deduct	-63.77	
			For Class 54 Rating, Add	43.48	
			For Class 55 Rating, Add	96.64	
40 05 19 00-0571	EA		4" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	922.47	207.57
			For Class 52 Rating, Deduct	-66.88	
			For Class 54 Rating, Add	45.60	
			For Class 55 Rating, Add	101.35	
40 05 19 00-0572	EA		4" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	955.05	210.44
			For Class 52 Rating, Deduct	-69.98	
			For Class 54 Rating, Add	47.72	
			For Class 55 Rating, Add	106.06	
40 05 19 00-0573	EA		4" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	987.64	213.32
			For Class 52 Rating, Deduct	-73.09	
			For Class 54 Rating, Add	49.83	
			For Class 55 Rating, Add	110.76	
40 05 19 00-0574	EA		4" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,020.22	216.19
			For Class 52 Rating, Deduct	-76.19	
			For Class 54 Rating, Add	51.95	
			For Class 55 Rating, Add	115.47	
40 05 19 00-0575	EA		4" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,052.80	219.07
			For Class 52 Rating, Deduct	-79.30	
			For Class 54 Rating, Add	54.07	
			For Class 55 Rating, Add	120.17	
40 05 19 00-0576	EA		4" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,085.39	221.94
			For Class 52 Rating, Deduct	-82.40	
			For Class 54 Rating, Add	56.18	
			For Class 55 Rating, Add	124.88	
40 05 19 00-0577	EA		4" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,117.98	224.82
			For Class 52 Rating, Deduct	-85.51	
			For Class 54 Rating, Add	58.30	
			For Class 55 Rating, Add	129.58	
40 05 19 00-0578	EA		4" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,150.54	227.69
			For Class 52 Rating, Deduct	-88.61	
			For Class 54 Rating, Add	60.42	
			For Class 55 Rating, Add	134.29	
40 05 19 00-0579	EA		4" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,183.13	230.57
			For Class 52 Rating, Deduct	-91.72	
			For Class 54 Rating, Add	62.54	
			For Class 55 Rating, Add	138.99	
40 05 19 00-0580	EA		4" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,215.72	233.44
			For Class 52 Rating, Deduct	-94.82	
			For Class 54 Rating, Add	64.65	
			For Class 55 Rating, Add	143.70	



Process Interconnections	40
Common Work Results For Process Interconnections	40 05
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0581 EA 4" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,248.30	236.32
<i>For Class 52 Rating, Deduct</i>	-97.93	
<i>For Class 54 Rating, Add</i>	66.77	
<i>For Class 55 Rating, Add</i>	148.41	
40 05 19 00-0582 EA 4" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,280.89	239.19
<i>For Class 52 Rating, Deduct</i>	-101.03	
<i>For Class 54 Rating, Add</i>	68.89	
<i>For Class 55 Rating, Add</i>	153.11	
40 05 19 00-0583 EA 4" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,313.47	242.07
<i>For Class 52 Rating, Deduct</i>	-104.14	
<i>For Class 54 Rating, Add</i>	71.00	
<i>For Class 55 Rating, Add</i>	157.82	
40 05 19 00-0584 EA 4" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,346.06	244.94
<i>For Class 52 Rating, Deduct</i>	-107.24	
<i>For Class 54 Rating, Add</i>	73.12	
<i>For Class 55 Rating, Add</i>	162.52	
40 05 19 00-0585 EA 4" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,378.64	247.81
<i>For Class 52 Rating, Deduct</i>	-110.35	
<i>For Class 54 Rating, Add</i>	75.24	
<i>For Class 55 Rating, Add</i>	167.23	
40 05 19 00-0586 EA 4" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,411.23	250.69
<i>For Class 52 Rating, Deduct</i>	-113.45	
<i>For Class 54 Rating, Add</i>	77.36	
<i>For Class 55 Rating, Add</i>	171.93	
40 05 19 00-0587 EA 4" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,443.80	253.56
<i>For Class 52 Rating, Deduct</i>	-116.56	
<i>For Class 54 Rating, Add</i>	79.47	
<i>For Class 55 Rating, Add</i>	176.64	
40 05 19 00-0588 EA 4" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,476.38	256.44
<i>For Class 52 Rating, Deduct</i>	-119.66	
<i>For Class 54 Rating, Add</i>	81.59	
<i>For Class 55 Rating, Add</i>	181.34	
40 05 19 00-0589 EA 4" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,508.97	259.31
<i>For Class 52 Rating, Deduct</i>	-122.77	
<i>For Class 54 Rating, Add</i>	83.71	
<i>For Class 55 Rating, Add</i>	186.05	
40 05 19 00-0590 EA 4" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,541.56	262.19
<i>For Class 52 Rating, Deduct</i>	-125.87	
<i>For Class 54 Rating, Add</i>	85.82	
<i>For Class 55 Rating, Add</i>	190.76	
40 05 19 00-0591 EA 4" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,574.13	265.06
<i>For Class 52 Rating, Deduct</i>	-128.98	
<i>For Class 54 Rating, Add</i>	87.94	
<i>For Class 55 Rating, Add</i>	195.46	
40 05 19 00-0592 EA 4" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,606.72	267.94
<i>For Class 52 Rating, Deduct</i>	-132.08	
<i>For Class 54 Rating, Add</i>	90.06	
<i>For Class 55 Rating, Add</i>	200.17	
40 05 19 00-0593 EA 4" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,639.31	270.81
<i>For Class 52 Rating, Deduct</i>	-135.19	
<i>For Class 54 Rating, Add</i>	92.17	
<i>For Class 55 Rating, Add</i>	204.87	
40 05 19 00-0594 EA 4" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,671.90	273.69
<i>For Class 52 Rating, Deduct</i>	-138.29	
<i>For Class 54 Rating, Add</i>	94.29	
<i>For Class 55 Rating, Add</i>	209.58	
40 05 19 00-0595 6" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0596 EA 6" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	542.70	206.98
<i>For Class 52 Rating, Deduct</i>	-25.20	
<i>For Class 54 Rating, Add</i>	17.18	
<i>For Class 55 Rating, Add</i>	38.19	
40 05 19 00-0597 EA 6" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	581.80	209.86
<i>For Class 52 Rating, Deduct</i>	-29.02	
<i>For Class 54 Rating, Add</i>	19.79	
<i>For Class 55 Rating, Add</i>	43.98	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0598	EA		6" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	620.88	212.73
			For Class 52 Rating, Deduct	-32.84	
			For Class 54 Rating, Add	22.39	
			For Class 55 Rating, Add	49.77	
40 05 19 00-0599	EA		6" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	659.98	215.61
			For Class 52 Rating, Deduct	-36.66	
			For Class 54 Rating, Add	25.00	
			For Class 55 Rating, Add	55.56	
40 05 19 00-0600	EA		6" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	699.09	218.48
			For Class 52 Rating, Deduct	-40.49	
			For Class 54 Rating, Add	27.60	
			For Class 55 Rating, Add	61.35	
40 05 19 00-0601	EA		6" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	738.18	221.36
			For Class 52 Rating, Deduct	-44.31	
			For Class 54 Rating, Add	30.21	
			For Class 55 Rating, Add	67.15	
40 05 19 00-0602	EA		6" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	777.28	224.23
			For Class 52 Rating, Deduct	-48.13	
			For Class 54 Rating, Add	32.81	
			For Class 55 Rating, Add	72.94	
40 05 19 00-0603	EA		6" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	816.38	227.11
			For Class 52 Rating, Deduct	-51.95	
			For Class 54 Rating, Add	35.42	
			For Class 55 Rating, Add	78.73	
40 05 19 00-0604	EA		6" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	855.48	229.98
			For Class 52 Rating, Deduct	-55.77	
			For Class 54 Rating, Add	38.03	
			For Class 55 Rating, Add	84.52	
40 05 19 00-0605	EA		6" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	894.57	232.86
			For Class 52 Rating, Deduct	-59.59	
			For Class 54 Rating, Add	40.63	
			For Class 55 Rating, Add	90.31	
40 05 19 00-0606	EA		6" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	933.68	235.73
			For Class 52 Rating, Deduct	-63.42	
			For Class 54 Rating, Add	43.24	
			For Class 55 Rating, Add	96.10	
40 05 19 00-0607	EA		6" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	972.77	238.61
			For Class 52 Rating, Deduct	-67.24	
			For Class 54 Rating, Add	45.84	
			For Class 55 Rating, Add	101.89	
40 05 19 00-0608	EA		6" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,011.86	241.48
			For Class 52 Rating, Deduct	-71.06	
			For Class 54 Rating, Add	48.45	
			For Class 55 Rating, Add	107.68	
40 05 19 00-0609	EA		6" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,050.96	244.36
			For Class 52 Rating, Deduct	-74.88	
			For Class 54 Rating, Add	51.05	
			For Class 55 Rating, Add	113.48	
40 05 19 00-0610	EA		6" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,090.06	247.23
			For Class 52 Rating, Deduct	-78.70	
			For Class 54 Rating, Add	53.66	
			For Class 55 Rating, Add	119.27	
40 05 19 00-0611	EA		6" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,129.15	250.11
			For Class 52 Rating, Deduct	-82.52	
			For Class 54 Rating, Add	56.27	
			For Class 55 Rating, Add	125.06	
40 05 19 00-0612	EA		6" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,168.26	252.98
			For Class 52 Rating, Deduct	-86.34	
			For Class 54 Rating, Add	58.87	
			For Class 55 Rating, Add	130.85	
40 05 19 00-0613	EA		6" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,207.36	255.86
			For Class 52 Rating, Deduct	-90.17	
			For Class 54 Rating, Add	61.48	
			For Class 55 Rating, Add	136.64	
40 05 19 00-0614	EA		6" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,246.46	258.73
			For Class 52 Rating, Deduct	-93.99	
			For Class 54 Rating, Add	64.08	
			For Class 55 Rating, Add	142.43	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0615 EA 6" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,285.55	261.61
<i>For Class 52 Rating, Deduct</i>	-97.81	
<i>For Class 54 Rating, Add</i>	66.69	
<i>For Class 55 Rating, Add</i>	148.22	
40 05 19 00-0616 EA 6" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,324.64	264.48
<i>For Class 52 Rating, Deduct</i>	-101.63	
<i>For Class 54 Rating, Add</i>	69.29	
<i>For Class 55 Rating, Add</i>	154.02	
40 05 19 00-0617 EA 6" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,363.75	267.36
<i>For Class 52 Rating, Deduct</i>	-105.45	
<i>For Class 54 Rating, Add</i>	71.90	
<i>For Class 55 Rating, Add</i>	159.81	
40 05 19 00-0618 EA 6" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,402.84	270.23
<i>For Class 52 Rating, Deduct</i>	-109.27	
<i>For Class 54 Rating, Add</i>	74.51	
<i>For Class 55 Rating, Add</i>	165.60	
40 05 19 00-0619 EA 6" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,441.94	273.10
<i>For Class 52 Rating, Deduct</i>	-113.10	
<i>For Class 54 Rating, Add</i>	77.11	
<i>For Class 55 Rating, Add</i>	171.39	
40 05 19 00-0620 EA 6" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,481.04	275.98
<i>For Class 52 Rating, Deduct</i>	-116.92	
<i>For Class 54 Rating, Add</i>	79.72	
<i>For Class 55 Rating, Add</i>	177.18	
40 05 19 00-0621 EA 6" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,520.13	278.85
<i>For Class 52 Rating, Deduct</i>	-120.74	
<i>For Class 54 Rating, Add</i>	82.32	
<i>For Class 55 Rating, Add</i>	182.97	
40 05 19 00-0622 EA 6" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,559.23	281.73
<i>For Class 52 Rating, Deduct</i>	-124.56	
<i>For Class 54 Rating, Add</i>	84.93	
<i>For Class 55 Rating, Add</i>	188.76	
40 05 19 00-0623 EA 6" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,598.34	284.60
<i>For Class 52 Rating, Deduct</i>	-128.38	
<i>For Class 54 Rating, Add</i>	87.53	
<i>For Class 55 Rating, Add</i>	194.56	
40 05 19 00-0624 EA 6" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,637.42	287.48
<i>For Class 52 Rating, Deduct</i>	-132.20	
<i>For Class 54 Rating, Add</i>	90.14	
<i>For Class 55 Rating, Add</i>	200.35	
40 05 19 00-0625 EA 6" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,676.52	290.35
<i>For Class 52 Rating, Deduct</i>	-136.02	
<i>For Class 54 Rating, Add</i>	92.74	
<i>For Class 55 Rating, Add</i>	206.14	
40 05 19 00-0626 EA 6" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,715.62	293.23
<i>For Class 52 Rating, Deduct</i>	-139.85	
<i>For Class 54 Rating, Add</i>	95.35	
<i>For Class 55 Rating, Add</i>	211.93	
40 05 19 00-0627 EA 6" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,754.72	296.10
<i>For Class 52 Rating, Deduct</i>	-143.67	
<i>For Class 54 Rating, Add</i>	97.96	
<i>For Class 55 Rating, Add</i>	217.72	
40 05 19 00-0628 EA 6" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,793.81	298.98
<i>For Class 52 Rating, Deduct</i>	-147.49	
<i>For Class 54 Rating, Add</i>	100.56	
<i>For Class 55 Rating, Add</i>	223.51	
40 05 19 00-0629 EA 6" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,832.92	301.85
<i>For Class 52 Rating, Deduct</i>	-151.31	
<i>For Class 54 Rating, Add</i>	103.17	
<i>For Class 55 Rating, Add</i>	229.31	
40 05 19 00-0630 EA 6" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,872.02	304.73
<i>For Class 52 Rating, Deduct</i>	-155.13	
<i>For Class 54 Rating, Add</i>	105.77	
<i>For Class 55 Rating, Add</i>	235.10	
40 05 19 00-0631 EA 6" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,911.11	307.60
<i>For Class 52 Rating, Deduct</i>	-158.95	
<i>For Class 54 Rating, Add</i>	108.38	
<i>For Class 55 Rating, Add</i>	240.89	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0632	EA		6" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,950.21	310.48
			For Class 52 Rating, Deduct	-162.78	
			For Class 54 Rating, Add	110.98	
			For Class 55 Rating, Add	246.68	
40 05 19 00-0633	EA		6" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,989.30	313.35
			For Class 52 Rating, Deduct	-166.60	
			For Class 54 Rating, Add	113.59	
			For Class 55 Rating, Add	252.47	
40 05 19 00-0634	EA		6" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,028.40	316.23
			For Class 52 Rating, Deduct	-170.42	
			For Class 54 Rating, Add	116.20	
			For Class 55 Rating, Add	258.26	
40 05 19 00-0635			8" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
			<small>(40 05 19 00-0554)</small>		
40 05 19 00-0636	EA		8" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	735.12	264.48
			For Class 52 Rating, Deduct	-36.78	
			For Class 54 Rating, Add	25.08	
			For Class 55 Rating, Add	55.74	
40 05 19 00-0637	EA		8" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	787.25	267.36
			For Class 52 Rating, Deduct	-42.04	
			For Class 54 Rating, Add	28.66	
			For Class 55 Rating, Add	63.71	
40 05 19 00-0638	EA		8" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	839.37	270.23
			For Class 52 Rating, Deduct	-47.29	
			For Class 54 Rating, Add	32.24	
			For Class 55 Rating, Add	71.67	
40 05 19 00-0639	EA		8" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	891.50	273.10
			For Class 52 Rating, Deduct	-52.55	
			For Class 54 Rating, Add	35.83	
			For Class 55 Rating, Add	79.63	
40 05 19 00-0640	EA		8" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	943.63	275.98
			For Class 52 Rating, Deduct	-57.80	
			For Class 54 Rating, Add	39.41	
			For Class 55 Rating, Add	87.60	
40 05 19 00-0641	EA		8" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	995.75	278.85
			For Class 52 Rating, Deduct	-63.06	
			For Class 54 Rating, Add	42.99	
			For Class 55 Rating, Add	95.56	
40 05 19 00-0642	EA		8" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,047.88	281.73
			For Class 52 Rating, Deduct	-68.31	
			For Class 54 Rating, Add	46.58	
			For Class 55 Rating, Add	103.52	
40 05 19 00-0643	EA		8" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,100.01	284.60
			For Class 52 Rating, Deduct	-73.57	
			For Class 54 Rating, Add	50.16	
			For Class 55 Rating, Add	111.49	
40 05 19 00-0644	EA		8" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,152.12	287.48
			For Class 52 Rating, Deduct	-78.82	
			For Class 54 Rating, Add	53.74	
			For Class 55 Rating, Add	119.45	
40 05 19 00-0645	EA		8" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,204.25	290.35
			For Class 52 Rating, Deduct	-84.08	
			For Class 54 Rating, Add	57.32	
			For Class 55 Rating, Add	127.41	
40 05 19 00-0646	EA		8" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,256.38	293.23
			For Class 52 Rating, Deduct	-89.33	
			For Class 54 Rating, Add	60.91	
			For Class 55 Rating, Add	135.38	
40 05 19 00-0647	EA		8" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,308.51	296.10
			For Class 52 Rating, Deduct	-94.58	
			For Class 54 Rating, Add	64.49	
			For Class 55 Rating, Add	143.34	
40 05 19 00-0648	EA		8" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,360.63	298.98
			For Class 52 Rating, Deduct	-99.84	
			For Class 54 Rating, Add	68.07	
			For Class 55 Rating, Add	151.30	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0649 EA 8" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,412.76	301.85
<i>For Class 52 Rating, Deduct</i>	-105.09	
<i>For Class 54 Rating, Add</i>	71.66	
<i>For Class 55 Rating, Add</i>	159.27	
40 05 19 00-0650 EA 8" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,464.89	304.73
<i>For Class 52 Rating, Deduct</i>	-110.35	
<i>For Class 54 Rating, Add</i>	75.24	
<i>For Class 55 Rating, Add</i>	167.23	
40 05 19 00-0651 EA 8" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,517.01	307.60
<i>For Class 52 Rating, Deduct</i>	-115.60	
<i>For Class 54 Rating, Add</i>	78.82	
<i>For Class 55 Rating, Add</i>	175.19	
40 05 19 00-0652 EA 8" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,569.14	310.48
<i>For Class 52 Rating, Deduct</i>	-120.86	
<i>For Class 54 Rating, Add</i>	82.40	
<i>For Class 55 Rating, Add</i>	183.15	
40 05 19 00-0653 EA 8" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,621.26	313.35
<i>For Class 52 Rating, Deduct</i>	-126.11	
<i>For Class 54 Rating, Add</i>	85.99	
<i>For Class 55 Rating, Add</i>	191.12	
40 05 19 00-0654 EA 8" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,673.38	316.23
<i>For Class 52 Rating, Deduct</i>	-131.37	
<i>For Class 54 Rating, Add</i>	89.57	
<i>For Class 55 Rating, Add</i>	199.08	
40 05 19 00-0655 EA 8" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,725.51	319.10
<i>For Class 52 Rating, Deduct</i>	-136.62	
<i>For Class 54 Rating, Add</i>	93.15	
<i>For Class 55 Rating, Add</i>	207.04	
40 05 19 00-0656 EA 8" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,777.64	321.98
<i>For Class 52 Rating, Deduct</i>	-141.88	
<i>For Class 54 Rating, Add</i>	96.73	
<i>For Class 55 Rating, Add</i>	215.01	
40 05 19 00-0657 EA 8" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,829.77	324.85
<i>For Class 52 Rating, Deduct</i>	-147.13	
<i>For Class 54 Rating, Add</i>	100.32	
<i>For Class 55 Rating, Add</i>	222.97	
40 05 19 00-0658 EA 8" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,881.89	327.73
<i>For Class 52 Rating, Deduct</i>	-152.39	
<i>For Class 54 Rating, Add</i>	103.90	
<i>For Class 55 Rating, Add</i>	230.93	
40 05 19 00-0659 EA 8" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,934.02	330.60
<i>For Class 52 Rating, Deduct</i>	-157.64	
<i>For Class 54 Rating, Add</i>	107.48	
<i>For Class 55 Rating, Add</i>	238.90	
40 05 19 00-0660 EA 8" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,986.15	333.48
<i>For Class 52 Rating, Deduct</i>	-162.90	
<i>For Class 54 Rating, Add</i>	111.07	
<i>For Class 55 Rating, Add</i>	246.86	
40 05 19 00-0661 EA 8" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,038.27	336.35
<i>For Class 52 Rating, Deduct</i>	-168.15	
<i>For Class 54 Rating, Add</i>	114.65	
<i>For Class 55 Rating, Add</i>	254.82	
40 05 19 00-0662 EA 8" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,090.39	339.22
<i>For Class 52 Rating, Deduct</i>	-173.41	
<i>For Class 54 Rating, Add</i>	118.23	
<i>For Class 55 Rating, Add</i>	262.79	
40 05 19 00-0663 EA 8" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,142.52	342.10
<i>For Class 52 Rating, Deduct</i>	-178.66	
<i>For Class 54 Rating, Add</i>	121.81	
<i>For Class 55 Rating, Add</i>	270.75	
40 05 19 00-0664 EA 8" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,194.64	344.97
<i>For Class 52 Rating, Deduct</i>	-183.91	
<i>For Class 54 Rating, Add</i>	125.40	
<i>For Class 55 Rating, Add</i>	278.71	
40 05 19 00-0665 EA 8" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,246.77	347.85
<i>For Class 52 Rating, Deduct</i>	-189.17	
<i>For Class 54 Rating, Add</i>	128.98	
<i>For Class 55 Rating, Add</i>	286.68	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0666	EA		8" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,298.90	350.72
			<i>For Class 52 Rating, Deduct</i>	-194.42	
			<i>For Class 54 Rating, Add</i>	132.56	
			<i>For Class 55 Rating, Add</i>	294.64	
40 05 19 00-0667	EA		8" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,351.02	353.60
			<i>For Class 52 Rating, Deduct</i>	-199.68	
			<i>For Class 54 Rating, Add</i>	136.14	
			<i>For Class 55 Rating, Add</i>	302.60	
40 05 19 00-0668	EA		8" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,403.15	356.47
			<i>For Class 52 Rating, Deduct</i>	-204.93	
			<i>For Class 54 Rating, Add</i>	139.73	
			<i>For Class 55 Rating, Add</i>	310.57	
40 05 19 00-0669	EA		8" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,455.28	359.35
			<i>For Class 52 Rating, Deduct</i>	-210.19	
			<i>For Class 54 Rating, Add</i>	143.31	
			<i>For Class 55 Rating, Add</i>	318.53	
40 05 19 00-0670	EA		8" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,507.41	362.23
			<i>For Class 52 Rating, Deduct</i>	-215.44	
			<i>For Class 54 Rating, Add</i>	146.89	
			<i>For Class 55 Rating, Add</i>	326.49	
40 05 19 00-0671	EA		8" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,559.52	365.11
			<i>For Class 52 Rating, Deduct</i>	-220.70	
			<i>For Class 54 Rating, Add</i>	150.48	
			<i>For Class 55 Rating, Add</i>	334.46	
40 05 19 00-0672	EA		8" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,611.65	367.98
			<i>For Class 52 Rating, Deduct</i>	-225.95	
			<i>For Class 54 Rating, Add</i>	154.06	
			<i>For Class 55 Rating, Add</i>	342.42	
40 05 19 00-0673	EA		8" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,663.78	370.86
			<i>For Class 52 Rating, Deduct</i>	-231.21	
			<i>For Class 54 Rating, Add</i>	157.64	
			<i>For Class 55 Rating, Add</i>	350.38	
40 05 19 00-0674	EA		8" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,715.90	373.73
			<i>For Class 52 Rating, Deduct</i>	-236.46	
			<i>For Class 54 Rating, Add</i>	161.22	
			<i>For Class 55 Rating, Add</i>	358.35	
40 05 19 00-0675			10" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0654)</small>		
40 05 19 00-0676	EA		10" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	915.61	321.98
			<i>For Class 52 Rating, Deduct</i>	-47.05	
			<i>For Class 54 Rating, Add</i>	32.08	
			<i>For Class 55 Rating, Add</i>	71.31	
40 05 19 00-0677	EA		10" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	982.94	324.85
			<i>For Class 52 Rating, Deduct</i>	-53.98	
			<i>For Class 54 Rating, Add</i>	36.80	
			<i>For Class 55 Rating, Add</i>	81.80	
40 05 19 00-0678	EA		10" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,050.26	327.73
			<i>For Class 52 Rating, Deduct</i>	-60.91	
			<i>For Class 54 Rating, Add</i>	41.53	
			<i>For Class 55 Rating, Add</i>	92.30	
40 05 19 00-0679	EA		10" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,117.59	330.60
			<i>For Class 52 Rating, Deduct</i>	-67.83	
			<i>For Class 54 Rating, Add</i>	46.25	
			<i>For Class 55 Rating, Add</i>	102.80	
40 05 19 00-0680	EA		10" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,184.92	333.48
			<i>For Class 52 Rating, Deduct</i>	-74.76	
			<i>For Class 54 Rating, Add</i>	50.97	
			<i>For Class 55 Rating, Add</i>	113.30	
40 05 19 00-0681	EA		10" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,252.24	336.35
			<i>For Class 52 Rating, Deduct</i>	-81.69	
			<i>For Class 54 Rating, Add</i>	55.70	
			<i>For Class 55 Rating, Add</i>	123.79	
40 05 19 00-0682	EA		10" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,319.55	339.22
			<i>For Class 52 Rating, Deduct</i>	-88.61	
			<i>For Class 54 Rating, Add</i>	60.42	
			<i>For Class 55 Rating, Add</i>	134.29	



Process Interconnections	40
Common Work Results For Process Interconnections	40 05
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0683 EA 10" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,386.88	342.10
<i>For Class 52 Rating, Deduct</i>	-95.54	
<i>For Class 54 Rating, Add</i>	65.14	
<i>For Class 55 Rating, Add</i>	144.79	
40 05 19 00-0684 EA 10" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,454.20	344.97
<i>For Class 52 Rating, Deduct</i>	-102.47	
<i>For Class 54 Rating, Add</i>	69.86	
<i>For Class 55 Rating, Add</i>	155.28	
40 05 19 00-0685 EA 10" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,521.53	347.85
<i>For Class 52 Rating, Deduct</i>	-109.39	
<i>For Class 54 Rating, Add</i>	74.59	
<i>For Class 55 Rating, Add</i>	165.78	
40 05 19 00-0686 EA 10" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,588.86	350.72
<i>For Class 52 Rating, Deduct</i>	-116.32	
<i>For Class 54 Rating, Add</i>	79.31	
<i>For Class 55 Rating, Add</i>	176.28	
40 05 19 00-0687 EA 10" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,656.18	353.60
<i>For Class 52 Rating, Deduct</i>	-123.25	
<i>For Class 54 Rating, Add</i>	84.03	
<i>For Class 55 Rating, Add</i>	186.77	
40 05 19 00-0688 EA 10" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,723.51	356.47
<i>For Class 52 Rating, Deduct</i>	-130.17	
<i>For Class 54 Rating, Add</i>	88.75	
<i>For Class 55 Rating, Add</i>	197.27	
40 05 19 00-0689 EA 10" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,790.84	359.35
<i>For Class 52 Rating, Deduct</i>	-137.10	
<i>For Class 54 Rating, Add</i>	93.48	
<i>For Class 55 Rating, Add</i>	207.77	
40 05 19 00-0690 EA 10" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,858.17	362.23
<i>For Class 52 Rating, Deduct</i>	-144.03	
<i>For Class 54 Rating, Add</i>	98.20	
<i>For Class 55 Rating, Add</i>	218.27	
40 05 19 00-0691 EA 10" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,925.48	365.11
<i>For Class 52 Rating, Deduct</i>	-150.95	
<i>For Class 54 Rating, Add</i>	102.92	
<i>For Class 55 Rating, Add</i>	228.76	
40 05 19 00-0692 EA 10" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,992.81	367.98
<i>For Class 52 Rating, Deduct</i>	-157.88	
<i>For Class 54 Rating, Add</i>	107.65	
<i>For Class 55 Rating, Add</i>	239.26	
40 05 19 00-0693 EA 10" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,060.14	370.86
<i>For Class 52 Rating, Deduct</i>	-164.81	
<i>For Class 54 Rating, Add</i>	112.37	
<i>For Class 55 Rating, Add</i>	249.76	
40 05 19 00-0694 EA 10" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,127.46	373.73
<i>For Class 52 Rating, Deduct</i>	-171.73	
<i>For Class 54 Rating, Add</i>	117.09	
<i>For Class 55 Rating, Add</i>	260.25	
40 05 19 00-0695 EA 10" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,194.79	376.61
<i>For Class 52 Rating, Deduct</i>	-178.66	
<i>For Class 54 Rating, Add</i>	121.81	
<i>For Class 55 Rating, Add</i>	270.75	
40 05 19 00-0696 EA 10" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,262.12	379.48
<i>For Class 52 Rating, Deduct</i>	-185.59	
<i>For Class 54 Rating, Add</i>	126.54	
<i>For Class 55 Rating, Add</i>	281.25	
40 05 19 00-0697 EA 10" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,329.44	382.36
<i>For Class 52 Rating, Deduct</i>	-192.51	
<i>For Class 54 Rating, Add</i>	131.26	
<i>For Class 55 Rating, Add</i>	291.75	
40 05 19 00-0698 EA 10" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,396.77	385.23
<i>For Class 52 Rating, Deduct</i>	-199.44	
<i>For Class 54 Rating, Add</i>	135.98	
<i>For Class 55 Rating, Add</i>	302.24	
40 05 19 00-0699 EA 10" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,464.09	388.11
<i>For Class 52 Rating, Deduct</i>	-206.37	
<i>For Class 54 Rating, Add</i>	140.70	
<i>For Class 55 Rating, Add</i>	312.74	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0700	EA		10" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,531.40	390.98
			<i>For Class 52 Rating, Deduct</i>	-213.29	
			<i>For Class 54 Rating, Add</i>	145.43	
			<i>For Class 55 Rating, Add</i>	323.23	
40 05 19 00-0701	EA		10" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,598.73	393.86
			<i>For Class 52 Rating, Deduct</i>	-220.22	
			<i>For Class 54 Rating, Add</i>	150.15	
			<i>For Class 55 Rating, Add</i>	333.73	
40 05 19 00-0702	EA		10" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,666.06	396.73
			<i>For Class 52 Rating, Deduct</i>	-227.15	
			<i>For Class 54 Rating, Add</i>	154.87	
			<i>For Class 55 Rating, Add</i>	344.23	
40 05 19 00-0703	EA		10" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,733.39	399.61
			<i>For Class 52 Rating, Deduct</i>	-234.07	
			<i>For Class 54 Rating, Add</i>	159.59	
			<i>For Class 55 Rating, Add</i>	354.73	
40 05 19 00-0704	EA		10" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,800.71	402.48
			<i>For Class 52 Rating, Deduct</i>	-241.00	
			<i>For Class 54 Rating, Add</i>	164.32	
			<i>For Class 55 Rating, Add</i>	365.22	
40 05 19 00-0705	EA		10" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,868.04	405.35
			<i>For Class 52 Rating, Deduct</i>	-247.93	
			<i>For Class 54 Rating, Add</i>	169.04	
			<i>For Class 55 Rating, Add</i>	375.72	
40 05 19 00-0706	EA		10" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,935.37	408.23
			<i>For Class 52 Rating, Deduct</i>	-254.85	
			<i>For Class 54 Rating, Add</i>	173.76	
			<i>For Class 55 Rating, Add</i>	386.22	
40 05 19 00-0707	EA		10" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,002.69	411.10
			<i>For Class 52 Rating, Deduct</i>	-261.78	
			<i>For Class 54 Rating, Add</i>	178.49	
			<i>For Class 55 Rating, Add</i>	396.71	
40 05 19 00-0708	EA		10" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,070.01	413.98
			<i>For Class 52 Rating, Deduct</i>	-268.71	
			<i>For Class 54 Rating, Add</i>	183.21	
			<i>For Class 55 Rating, Add</i>	407.21	
40 05 19 00-0709	EA		10" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,137.34	416.85
			<i>For Class 52 Rating, Deduct</i>	-275.63	
			<i>For Class 54 Rating, Add</i>	187.93	
			<i>For Class 55 Rating, Add</i>	417.71	
40 05 19 00-0710	EA		10" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,204.66	419.73
			<i>For Class 52 Rating, Deduct</i>	-282.56	
			<i>For Class 54 Rating, Add</i>	192.65	
			<i>For Class 55 Rating, Add</i>	428.21	
40 05 19 00-0711	EA		10" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,271.99	422.60
			<i>For Class 52 Rating, Deduct</i>	-289.49	
			<i>For Class 54 Rating, Add</i>	197.38	
			<i>For Class 55 Rating, Add</i>	438.70	
40 05 19 00-0712	EA		10" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,339.32	425.48
			<i>For Class 52 Rating, Deduct</i>	-296.41	
			<i>For Class 54 Rating, Add</i>	202.10	
			<i>For Class 55 Rating, Add</i>	449.20	
40 05 19 00-0713	EA		10" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,406.65	428.35
			<i>For Class 52 Rating, Deduct</i>	-303.34	
			<i>For Class 54 Rating, Add</i>	206.82	
			<i>For Class 55 Rating, Add</i>	459.70	
40 05 19 00-0714	EA		10" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,473.97	431.23
			<i>For Class 52 Rating, Deduct</i>	-310.27	
			<i>For Class 54 Rating, Add</i>	211.55	
			<i>For Class 55 Rating, Add</i>	470.19	
40 05 19 00-0715			12" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
			<small>(40 05 19 00-0554)</small>		
40 05 19 00-0716	EA		12" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,176.53	402.48
			<i>For Class 52 Rating, Deduct</i>	-62.34	
			<i>For Class 54 Rating, Add</i>	42.50	
			<i>For Class 55 Rating, Add</i>	94.47	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0717 EA 12" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,260.15	405.35
<i>For Class 52 Rating, Deduct</i>	-71.06	
<i>For Class 54 Rating, Add</i>	48.45	
<i>For Class 55 Rating, Add</i>	107.68	
40 05 19 00-0718 EA 12" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,343.76	408.23
<i>For Class 52 Rating, Deduct</i>	-79.78	
<i>For Class 54 Rating, Add</i>	54.39	
<i>For Class 55 Rating, Add</i>	120.90	
40 05 19 00-0719 EA 12" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,427.37	411.10
<i>For Class 52 Rating, Deduct</i>	-88.49	
<i>For Class 54 Rating, Add</i>	60.34	
<i>For Class 55 Rating, Add</i>	134.11	
40 05 19 00-0720 EA 12" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,510.97	413.98
<i>For Class 52 Rating, Deduct</i>	-97.21	
<i>For Class 54 Rating, Add</i>	66.28	
<i>For Class 55 Rating, Add</i>	147.32	
40 05 19 00-0721 EA 12" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,594.59	416.85
<i>For Class 52 Rating, Deduct</i>	-105.93	
<i>For Class 54 Rating, Add</i>	72.23	
<i>For Class 55 Rating, Add</i>	160.53	
40 05 19 00-0722 EA 12" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,678.19	419.73
<i>For Class 52 Rating, Deduct</i>	-114.65	
<i>For Class 54 Rating, Add</i>	78.17	
<i>For Class 55 Rating, Add</i>	173.74	
40 05 19 00-0723 EA 12" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,761.81	422.60
<i>For Class 52 Rating, Deduct</i>	-123.37	
<i>For Class 54 Rating, Add</i>	84.11	
<i>For Class 55 Rating, Add</i>	186.96	
40 05 19 00-0724 EA 12" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,845.42	425.48
<i>For Class 52 Rating, Deduct</i>	-132.08	
<i>For Class 54 Rating, Add</i>	90.06	
<i>For Class 55 Rating, Add</i>	200.17	
40 05 19 00-0725 EA 12" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,929.04	428.35
<i>For Class 52 Rating, Deduct</i>	-140.80	
<i>For Class 54 Rating, Add</i>	96.00	
<i>For Class 55 Rating, Add</i>	213.38	
40 05 19 00-0726 EA 12" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,012.64	431.23
<i>For Class 52 Rating, Deduct</i>	-149.52	
<i>For Class 54 Rating, Add</i>	101.95	
<i>For Class 55 Rating, Add</i>	226.59	
40 05 19 00-0727 EA 12" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,096.26	434.10
<i>For Class 52 Rating, Deduct</i>	-158.24	
<i>For Class 54 Rating, Add</i>	107.89	
<i>For Class 55 Rating, Add</i>	239.80	
40 05 19 00-0728 EA 12" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,179.86	436.98
<i>For Class 52 Rating, Deduct</i>	-166.96	
<i>For Class 54 Rating, Add</i>	113.83	
<i>For Class 55 Rating, Add</i>	253.01	
40 05 19 00-0729 EA 12" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,263.47	439.85
<i>For Class 52 Rating, Deduct</i>	-175.67	
<i>For Class 54 Rating, Add</i>	119.78	
<i>For Class 55 Rating, Add</i>	266.23	
40 05 19 00-0730 EA 12" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,347.08	442.73
<i>For Class 52 Rating, Deduct</i>	-184.39	
<i>For Class 54 Rating, Add</i>	125.72	
<i>For Class 55 Rating, Add</i>	279.44	
40 05 19 00-0731 EA 12" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,430.69	445.60
<i>For Class 52 Rating, Deduct</i>	-193.11	
<i>For Class 54 Rating, Add</i>	131.67	
<i>For Class 55 Rating, Add</i>	292.65	
40 05 19 00-0732 EA 12" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,514.30	448.48
<i>For Class 52 Rating, Deduct</i>	-201.83	
<i>For Class 54 Rating, Add</i>	137.61	
<i>For Class 55 Rating, Add</i>	305.86	
40 05 19 00-0733 EA 12" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,597.91	451.35
<i>For Class 52 Rating, Deduct</i>	-210.55	
<i>For Class 54 Rating, Add</i>	143.55	
<i>For Class 55 Rating, Add</i>	319.07	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0734	EA		12" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,681.53	454.23
			For Class 52 Rating, Deduct	-219.26	
			For Class 54 Rating, Add	149.50	
			For Class 55 Rating, Add	332.28	
40 05 19 00-0735	EA		12" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,765.13	457.10
			For Class 52 Rating, Deduct	-227.98	
			For Class 54 Rating, Add	155.44	
			For Class 55 Rating, Add	345.50	
40 05 19 00-0736	EA		12" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,848.75	459.98
			For Class 52 Rating, Deduct	-236.70	
			For Class 54 Rating, Add	161.39	
			For Class 55 Rating, Add	358.71	
40 05 19 00-0737	EA		12" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,932.35	462.85
			For Class 52 Rating, Deduct	-245.42	
			For Class 54 Rating, Add	167.33	
			For Class 55 Rating, Add	371.92	
40 05 19 00-0738	EA		12" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,015.97	465.73
			For Class 52 Rating, Deduct	-254.14	
			For Class 54 Rating, Add	173.27	
			For Class 55 Rating, Add	385.13	
40 05 19 00-0739	EA		12" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,099.57	468.60
			For Class 52 Rating, Deduct	-262.85	
			For Class 54 Rating, Add	179.22	
			For Class 55 Rating, Add	398.34	
40 05 19 00-0740	EA		12" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,183.19	471.47
			For Class 52 Rating, Deduct	-271.57	
			For Class 54 Rating, Add	185.16	
			For Class 55 Rating, Add	411.56	
40 05 19 00-0741	EA		12" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,266.80	474.35
			For Class 52 Rating, Deduct	-280.29	
			For Class 54 Rating, Add	191.11	
			For Class 55 Rating, Add	424.77	
40 05 19 00-0742	EA		12" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,350.41	477.22
			For Class 52 Rating, Deduct	-289.01	
			For Class 54 Rating, Add	197.05	
			For Class 55 Rating, Add	437.98	
40 05 19 00-0743	EA		12" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,434.02	480.10
			For Class 52 Rating, Deduct	-297.73	
			For Class 54 Rating, Add	203.00	
			For Class 55 Rating, Add	451.19	
40 05 19 00-0744	EA		12" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,517.63	482.97
			For Class 52 Rating, Deduct	-306.44	
			For Class 54 Rating, Add	208.94	
			For Class 55 Rating, Add	464.40	
40 05 19 00-0745	EA		12" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,601.24	485.85
			For Class 52 Rating, Deduct	-315.16	
			For Class 54 Rating, Add	214.88	
			For Class 55 Rating, Add	477.61	
40 05 19 00-0746	EA		12" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,684.84	488.72
			For Class 52 Rating, Deduct	-323.88	
			For Class 54 Rating, Add	220.83	
			For Class 55 Rating, Add	490.82	
40 05 19 00-0747	EA		12" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,768.46	491.60
			For Class 52 Rating, Deduct	-332.60	
			For Class 54 Rating, Add	226.77	
			For Class 55 Rating, Add	504.04	
40 05 19 00-0748	EA		12" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,852.06	494.47
			For Class 52 Rating, Deduct	-341.32	
			For Class 54 Rating, Add	232.72	
			For Class 55 Rating, Add	517.25	
40 05 19 00-0749	EA		12" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,935.68	497.35
			For Class 52 Rating, Deduct	-350.03	
			For Class 54 Rating, Add	238.66	
			For Class 55 Rating, Add	530.46	
40 05 19 00-0750	EA		12" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,019.29	500.22
			For Class 52 Rating, Deduct	-358.75	
			For Class 54 Rating, Add	244.60	
			For Class 55 Rating, Add	543.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0751 EA 12" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,102.91	503.10
<i>For Class 52 Rating, Deduct</i>	-367.47	
<i>For Class 54 Rating, Add</i>	250.55	
<i>For Class 55 Rating, Add</i>	556.88	
40 05 19 00-0752 EA 12" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,186.51	505.97
<i>For Class 52 Rating, Deduct</i>	-376.19	
<i>For Class 54 Rating, Add</i>	256.49	
<i>For Class 55 Rating, Add</i>	570.10	
40 05 19 00-0753 EA 12" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,270.13	508.85
<i>For Class 52 Rating, Deduct</i>	-384.91	
<i>For Class 54 Rating, Add</i>	262.44	
<i>For Class 55 Rating, Add</i>	583.31	
40 05 19 00-0754 EA 12" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,353.74	511.72
<i>For Class 52 Rating, Deduct</i>	-393.62	
<i>For Class 54 Rating, Add</i>	268.38	
<i>For Class 55 Rating, Add</i>	596.52	
40 05 19 00-0755 14" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-054)</small>		
40 05 19 00-0756 EA 14" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,578.61	482.97
<i>For Class 52 Rating, Deduct</i>	-93.15	
<i>For Class 54 Rating, Add</i>	63.51	
<i>For Class 55 Rating, Add</i>	141.17	
40 05 19 00-0757 EA 14" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,679.59	485.85
<i>For Class 52 Rating, Deduct</i>	-103.78	
<i>For Class 54 Rating, Add</i>	70.76	
<i>For Class 55 Rating, Add</i>	157.27	
40 05 19 00-0758 EA 14" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,780.56	488.72
<i>For Class 52 Rating, Deduct</i>	-114.41	
<i>For Class 54 Rating, Add</i>	78.01	
<i>For Class 55 Rating, Add</i>	173.38	
40 05 19 00-0759 EA 14" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,881.55	491.60
<i>For Class 52 Rating, Deduct</i>	-125.04	
<i>For Class 54 Rating, Add</i>	85.25	
<i>For Class 55 Rating, Add</i>	189.49	
40 05 19 00-0760 EA 14" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,982.52	494.47
<i>For Class 52 Rating, Deduct</i>	-135.67	
<i>For Class 54 Rating, Add</i>	92.50	
<i>For Class 55 Rating, Add</i>	205.60	
40 05 19 00-0761 EA 14" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,083.51	497.35
<i>For Class 52 Rating, Deduct</i>	-146.30	
<i>For Class 54 Rating, Add</i>	99.75	
<i>For Class 55 Rating, Add</i>	221.70	
40 05 19 00-0762 EA 14" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,184.49	500.22
<i>For Class 52 Rating, Deduct</i>	-156.92	
<i>For Class 54 Rating, Add</i>	106.99	
<i>For Class 55 Rating, Add</i>	237.81	
40 05 19 00-0763 EA 14" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,285.48	503.10
<i>For Class 52 Rating, Deduct</i>	-167.55	
<i>For Class 54 Rating, Add</i>	114.24	
<i>For Class 55 Rating, Add</i>	253.92	
40 05 19 00-0764 EA 14" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,386.45	505.97
<i>For Class 52 Rating, Deduct</i>	-178.18	
<i>For Class 54 Rating, Add</i>	121.49	
<i>For Class 55 Rating, Add</i>	270.03	
40 05 19 00-0765 EA 14" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,487.44	508.85
<i>For Class 52 Rating, Deduct</i>	-188.81	
<i>For Class 54 Rating, Add</i>	128.73	
<i>For Class 55 Rating, Add</i>	286.13	
40 05 19 00-0766 EA 14" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,588.43	511.72
<i>For Class 52 Rating, Deduct</i>	-199.44	
<i>For Class 54 Rating, Add</i>	135.98	
<i>For Class 55 Rating, Add</i>	302.24	
40 05 19 00-0767 EA 14" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,689.39	514.60
<i>For Class 52 Rating, Deduct</i>	-210.07	
<i>For Class 54 Rating, Add</i>	143.23	
<i>For Class 55 Rating, Add</i>	318.35	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0768	EA		14" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,790.38	517.47
			For Class 52 Rating, Deduct	-220.70	
			For Class 54 Rating, Add	150.48	
			For Class 55 Rating, Add	334.46	
40 05 19 00-0769	EA		14" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,891.36	520.35
			For Class 52 Rating, Deduct	-231.33	
			For Class 54 Rating, Add	157.72	
			For Class 55 Rating, Add	350.56	
40 05 19 00-0770	EA		14" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,992.34	523.22
			For Class 52 Rating, Deduct	-241.95	
			For Class 54 Rating, Add	164.97	
			For Class 55 Rating, Add	366.67	
40 05 19 00-0771	EA		14" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,093.32	526.10
			For Class 52 Rating, Deduct	-252.58	
			For Class 54 Rating, Add	172.22	
			For Class 55 Rating, Add	382.78	
40 05 19 00-0772	EA		14" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,194.31	528.97
			For Class 52 Rating, Deduct	-263.21	
			For Class 54 Rating, Add	179.46	
			For Class 55 Rating, Add	398.89	
40 05 19 00-0773	EA		14" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,295.29	531.85
			For Class 52 Rating, Deduct	-273.84	
			For Class 54 Rating, Add	186.71	
			For Class 55 Rating, Add	414.99	
40 05 19 00-0774	EA		14" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,396.27	534.72
			For Class 52 Rating, Deduct	-284.47	
			For Class 54 Rating, Add	193.96	
			For Class 55 Rating, Add	431.10	
40 05 19 00-0775	EA		14" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,497.25	537.59
			For Class 52 Rating, Deduct	-295.10	
			For Class 54 Rating, Add	201.20	
			For Class 55 Rating, Add	447.21	
40 05 19 00-0776	EA		14" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,598.23	540.47
			For Class 52 Rating, Deduct	-305.73	
			For Class 54 Rating, Add	208.45	
			For Class 55 Rating, Add	463.32	
40 05 19 00-0777	EA		14" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,699.21	543.34
			For Class 52 Rating, Deduct	-316.36	
			For Class 54 Rating, Add	215.70	
			For Class 55 Rating, Add	479.42	
40 05 19 00-0778	EA		14" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,800.19	546.22
			For Class 52 Rating, Deduct	-326.98	
			For Class 54 Rating, Add	222.94	
			For Class 55 Rating, Add	495.53	
40 05 19 00-0779	EA		14" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,901.18	549.09
			For Class 52 Rating, Deduct	-337.61	
			For Class 54 Rating, Add	230.19	
			For Class 55 Rating, Add	511.64	
40 05 19 00-0780	EA		14" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,002.15	551.97
			For Class 52 Rating, Deduct	-348.24	
			For Class 54 Rating, Add	237.44	
			For Class 55 Rating, Add	527.75	
40 05 19 00-0781	EA		14" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,103.14	554.84
			For Class 52 Rating, Deduct	-358.87	
			For Class 54 Rating, Add	244.69	
			For Class 55 Rating, Add	543.85	
40 05 19 00-0782	EA		14" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,204.12	557.72
			For Class 52 Rating, Deduct	-369.50	
			For Class 54 Rating, Add	251.93	
			For Class 55 Rating, Add	559.96	
40 05 19 00-0783	EA		14" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,305.10	560.59
			For Class 52 Rating, Deduct	-380.13	
			For Class 54 Rating, Add	259.18	
			For Class 55 Rating, Add	576.07	
40 05 19 00-0784	EA		14" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,406.07	563.47
			For Class 52 Rating, Deduct	-390.76	
			For Class 54 Rating, Add	266.43	
			For Class 55 Rating, Add	592.18	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0785 EA 14" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,507.06	566.34
For Class 52 Rating, Deduct	-401.39	
For Class 54 Rating, Add	273.67	
For Class 55 Rating, Add	608.28	
40 05 19 00-0786 EA 14" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,608.05	569.22
For Class 52 Rating, Deduct	-412.02	
For Class 54 Rating, Add	280.92	
For Class 55 Rating, Add	624.39	
40 05 19 00-0787 EA 14" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,709.02	572.09
For Class 52 Rating, Deduct	-422.64	
For Class 54 Rating, Add	288.17	
For Class 55 Rating, Add	640.50	
40 05 19 00-0788 EA 14" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,810.01	574.97
For Class 52 Rating, Deduct	-433.27	
For Class 54 Rating, Add	295.41	
For Class 55 Rating, Add	656.61	
40 05 19 00-0789 EA 14" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,910.99	577.84
For Class 52 Rating, Deduct	-443.90	
For Class 54 Rating, Add	302.66	
For Class 55 Rating, Add	672.71	
40 05 19 00-0790 EA 14" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,011.97	580.72
For Class 52 Rating, Deduct	-454.53	
For Class 54 Rating, Add	309.91	
For Class 55 Rating, Add	688.82	
40 05 19 00-0791 EA 14" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,112.95	583.59
For Class 52 Rating, Deduct	-465.16	
For Class 54 Rating, Add	317.15	
For Class 55 Rating, Add	704.93	
40 05 19 00-0792 EA 14" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,213.94	586.47
For Class 52 Rating, Deduct	-475.79	
For Class 54 Rating, Add	324.40	
For Class 55 Rating, Add	721.04	
40 05 19 00-0793 EA 14" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,314.90	589.34
For Class 52 Rating, Deduct	-486.42	
For Class 54 Rating, Add	331.65	
For Class 55 Rating, Add	737.14	
40 05 19 00-0794 16" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0795 EA 16" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,838.39	551.97
For Class 52 Rating, Deduct	-110.23	
For Class 54 Rating, Add	75.16	
For Class 55 Rating, Add	167.05	
40 05 19 00-0796 EA 16" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,955.66	554.84
For Class 52 Rating, Deduct	-122.65	
For Class 54 Rating, Add	83.62	
For Class 55 Rating, Add	185.87	
40 05 19 00-0797 EA 16" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,072.93	557.72
For Class 52 Rating, Deduct	-135.07	
For Class 54 Rating, Add	92.09	
For Class 55 Rating, Add	204.69	
40 05 19 00-0798 EA 16" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,190.19	560.59
For Class 52 Rating, Deduct	-147.49	
For Class 54 Rating, Add	100.56	
For Class 55 Rating, Add	223.51	
40 05 19 00-0799 EA 16" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,307.46	563.47
For Class 52 Rating, Deduct	-159.91	
For Class 54 Rating, Add	109.03	
For Class 55 Rating, Add	242.34	
40 05 19 00-0800 EA 16" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,424.73	566.34
For Class 52 Rating, Deduct	-172.33	
For Class 54 Rating, Add	117.50	
For Class 55 Rating, Add	261.16	
40 05 19 00-0801 EA 16" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,542.00	569.22
For Class 52 Rating, Deduct	-184.75	
For Class 54 Rating, Add	125.97	
For Class 55 Rating, Add	279.98	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0802	EA		16" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,659.26	572.09
			For Class 52 Rating, Deduct	-197.17	
			For Class 54 Rating, Add	134.43	
			For Class 55 Rating, Add	298.80	
40 05 19 00-0803	EA		16" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,776.53	574.97
			For Class 52 Rating, Deduct	-209.59	
			For Class 54 Rating, Add	142.90	
			For Class 55 Rating, Add	317.63	
40 05 19 00-0804	EA		16" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,882.94	577.84
			For Class 52 Rating, Deduct	-220.82	
			For Class 54 Rating, Add	150.56	
			For Class 55 Rating, Add	334.64	
40 05 19 00-0805	EA		16" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,011.06	580.72
			For Class 52 Rating, Deduct	-234.43	
			For Class 54 Rating, Add	159.84	
			For Class 55 Rating, Add	355.27	
40 05 19 00-0806	EA		16" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,128.33	583.59
			For Class 52 Rating, Deduct	-246.85	
			For Class 54 Rating, Add	168.31	
			For Class 55 Rating, Add	374.09	
40 05 19 00-0807	EA		16" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,245.60	586.47
			For Class 52 Rating, Deduct	-259.27	
			For Class 54 Rating, Add	176.78	
			For Class 55 Rating, Add	392.91	
40 05 19 00-0808	EA		16" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,362.85	589.34
			For Class 52 Rating, Deduct	-271.69	
			For Class 54 Rating, Add	185.24	
			For Class 55 Rating, Add	411.74	
40 05 19 00-0809	EA		16" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,480.12	592.22
			For Class 52 Rating, Deduct	-284.11	
			For Class 54 Rating, Add	193.71	
			For Class 55 Rating, Add	430.56	
40 05 19 00-0810	EA		16" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,597.39	595.09
			For Class 52 Rating, Deduct	-296.53	
			For Class 54 Rating, Add	202.18	
			For Class 55 Rating, Add	449.38	
40 05 19 00-0811	EA		16" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,714.65	597.97
			For Class 52 Rating, Deduct	-308.95	
			For Class 54 Rating, Add	210.65	
			For Class 55 Rating, Add	468.20	
40 05 19 00-0812	EA		16" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,831.92	600.84
			For Class 52 Rating, Deduct	-321.37	
			For Class 54 Rating, Add	219.12	
			For Class 55 Rating, Add	487.02	
40 05 19 00-0813	EA		16" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,949.20	603.71
			For Class 52 Rating, Deduct	-333.79	
			For Class 54 Rating, Add	227.59	
			For Class 55 Rating, Add	505.85	
40 05 19 00-0814	EA		16" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,066.47	606.59
			For Class 52 Rating, Deduct	-346.21	
			For Class 54 Rating, Add	236.05	
			For Class 55 Rating, Add	524.67	
40 05 19 00-0815	EA		16" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,183.73	609.46
			For Class 52 Rating, Deduct	-358.63	
			For Class 54 Rating, Add	244.52	
			For Class 55 Rating, Add	543.49	
40 05 19 00-0816	EA		16" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,300.99	612.34
			For Class 52 Rating, Deduct	-371.05	
			For Class 54 Rating, Add	252.99	
			For Class 55 Rating, Add	562.31	
40 05 19 00-0817	EA		16" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,418.26	615.21
			For Class 52 Rating, Deduct	-383.47	
			For Class 54 Rating, Add	261.46	
			For Class 55 Rating, Add	581.14	
40 05 19 00-0818	EA		16" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,535.52	618.09
			For Class 52 Rating, Deduct	-395.89	
			For Class 54 Rating, Add	269.93	
			For Class 55 Rating, Add	599.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0819 EA 16" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,652.79	620.96
<i>For Class 52 Rating, Deduct</i>	-408.31	
<i>For Class 54 Rating, Add</i>	278.40	
<i>For Class 55 Rating, Add</i>	618.78	
40 05 19 00-0820 EA 16" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,770.06	623.84
<i>For Class 52 Rating, Deduct</i>	-420.73	
<i>For Class 54 Rating, Add</i>	286.86	
<i>For Class 55 Rating, Add</i>	637.60	
40 05 19 00-0821 EA 16" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,887.32	626.71
<i>For Class 52 Rating, Deduct</i>	-433.15	
<i>For Class 54 Rating, Add</i>	295.33	
<i>For Class 55 Rating, Add</i>	656.42	
40 05 19 00-0822 EA 16" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,004.59	629.59
<i>For Class 52 Rating, Deduct</i>	-445.57	
<i>For Class 54 Rating, Add</i>	303.80	
<i>For Class 55 Rating, Add</i>	675.25	
40 05 19 00-0823 EA 16" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,121.86	632.46
<i>For Class 52 Rating, Deduct</i>	-457.99	
<i>For Class 54 Rating, Add</i>	312.27	
<i>For Class 55 Rating, Add</i>	694.07	
40 05 19 00-0824 EA 16" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,239.13	635.34
<i>For Class 52 Rating, Deduct</i>	-470.41	
<i>For Class 54 Rating, Add</i>	320.74	
<i>For Class 55 Rating, Add</i>	712.89	
40 05 19 00-0825 EA 16" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,356.38	638.21
<i>For Class 52 Rating, Deduct</i>	-482.83	
<i>For Class 54 Rating, Add</i>	329.21	
<i>For Class 55 Rating, Add</i>	731.71	
40 05 19 00-0826 EA 16" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,473.66	641.09
<i>For Class 52 Rating, Deduct</i>	-495.26	
<i>For Class 54 Rating, Add</i>	337.67	
<i>For Class 55 Rating, Add</i>	750.54	
40 05 19 00-0827 EA 16" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,590.93	643.96
<i>For Class 52 Rating, Deduct</i>	-507.68	
<i>For Class 54 Rating, Add</i>	346.14	
<i>For Class 55 Rating, Add</i>	769.36	
40 05 19 00-0828 EA 16" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,708.19	646.84
<i>For Class 52 Rating, Deduct</i>	-520.10	
<i>For Class 54 Rating, Add</i>	354.61	
<i>For Class 55 Rating, Add</i>	788.18	
40 05 19 00-0829 EA 16" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,825.46	649.71
<i>For Class 52 Rating, Deduct</i>	-532.52	
<i>For Class 54 Rating, Add</i>	363.08	
<i>For Class 55 Rating, Add</i>	807.00	
40 05 19 00-0830 EA 16" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,942.73	652.59
<i>For Class 52 Rating, Deduct</i>	-544.94	
<i>For Class 54 Rating, Add</i>	371.55	
<i>For Class 55 Rating, Add</i>	825.83	
40 05 19 00-0831 EA 16" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,059.99	655.46
<i>For Class 52 Rating, Deduct</i>	-557.36	
<i>For Class 54 Rating, Add</i>	380.02	
<i>For Class 55 Rating, Add</i>	844.65	
40 05 19 00-0832 EA 16" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,177.26	658.34
<i>For Class 52 Rating, Deduct</i>	-569.78	
<i>For Class 54 Rating, Add</i>	388.48	
<i>For Class 55 Rating, Add</i>	863.47	
40 05 19 00-0833 18" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0834 EA 18" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,131.41	622.12
<i>For Class 52 Rating, Deduct</i>	-130.77	
<i>For Class 54 Rating, Add</i>	89.16	
<i>For Class 55 Rating, Add</i>	198.18	
40 05 19 00-0835 EA 18" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,266.05	624.99
<i>For Class 52 Rating, Deduct</i>	-145.10	
<i>For Class 54 Rating, Add</i>	98.93	
<i>For Class 55 Rating, Add</i>	219.89	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0836	EA		18" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,400.69	627.87
			<i>For Class 52 Rating, Deduct</i>	-159.43	
			<i>For Class 54 Rating, Add</i>	108.70	
			<i>For Class 55 Rating, Add</i>	241.61	
40 05 19 00-0837	EA		18" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,535.32	630.74
			<i>For Class 52 Rating, Deduct</i>	-173.76	
			<i>For Class 54 Rating, Add</i>	118.47	
			<i>For Class 55 Rating, Add</i>	263.33	
40 05 19 00-0838	EA		18" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,669.97	633.62
			<i>For Class 52 Rating, Deduct</i>	-188.09	
			<i>For Class 54 Rating, Add</i>	128.25	
			<i>For Class 55 Rating, Add</i>	285.05	
40 05 19 00-0839	EA		18" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,804.61	636.49
			<i>For Class 52 Rating, Deduct</i>	-202.43	
			<i>For Class 54 Rating, Add</i>	138.02	
			<i>For Class 55 Rating, Add</i>	306.77	
40 05 19 00-0840	EA		18" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,939.24	639.37
			<i>For Class 52 Rating, Deduct</i>	-216.76	
			<i>For Class 54 Rating, Add</i>	147.79	
			<i>For Class 55 Rating, Add</i>	328.48	
40 05 19 00-0841	EA		18" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,073.87	642.24
			<i>For Class 52 Rating, Deduct</i>	-231.09	
			<i>For Class 54 Rating, Add</i>	157.56	
			<i>For Class 55 Rating, Add</i>	350.20	
40 05 19 00-0842	EA		18" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,208.51	645.12
			<i>For Class 52 Rating, Deduct</i>	-245.42	
			<i>For Class 54 Rating, Add</i>	167.33	
			<i>For Class 55 Rating, Add</i>	371.92	
40 05 19 00-0843	EA		18" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,343.14	647.99
			<i>For Class 52 Rating, Deduct</i>	-259.75	
			<i>For Class 54 Rating, Add</i>	177.10	
			<i>For Class 55 Rating, Add</i>	393.64	
40 05 19 00-0844	EA		18" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,477.79	650.87
			<i>For Class 52 Rating, Deduct</i>	-274.08	
			<i>For Class 54 Rating, Add</i>	186.87	
			<i>For Class 55 Rating, Add</i>	415.36	
40 05 19 00-0845	EA		18" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,612.43	653.74
			<i>For Class 52 Rating, Deduct</i>	-288.41	
			<i>For Class 54 Rating, Add</i>	196.64	
			<i>For Class 55 Rating, Add</i>	437.07	
40 05 19 00-0846	EA		18" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,747.06	656.62
			<i>For Class 52 Rating, Deduct</i>	-302.74	
			<i>For Class 54 Rating, Add</i>	206.42	
			<i>For Class 55 Rating, Add</i>	458.79	
40 05 19 00-0847	EA		18" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,881.70	659.49
			<i>For Class 52 Rating, Deduct</i>	-317.07	
			<i>For Class 54 Rating, Add</i>	216.19	
			<i>For Class 55 Rating, Add</i>	480.51	
40 05 19 00-0848	EA		18" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,016.34	662.37
			<i>For Class 52 Rating, Deduct</i>	-331.40	
			<i>For Class 54 Rating, Add</i>	225.96	
			<i>For Class 55 Rating, Add</i>	502.23	
40 05 19 00-0849	EA		18" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,150.98	665.24
			<i>For Class 52 Rating, Deduct</i>	-345.73	
			<i>For Class 54 Rating, Add</i>	235.73	
			<i>For Class 55 Rating, Add</i>	523.94	
40 05 19 00-0850	EA		18" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,285.61	668.12
			<i>For Class 52 Rating, Deduct</i>	-360.07	
			<i>For Class 54 Rating, Add</i>	245.50	
			<i>For Class 55 Rating, Add</i>	545.66	
40 05 19 00-0851	EA		18" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,420.25	670.99
			<i>For Class 52 Rating, Deduct</i>	-374.40	
			<i>For Class 54 Rating, Add</i>	255.27	
			<i>For Class 55 Rating, Add</i>	567.38	
40 05 19 00-0852	EA		18" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,554.89	673.87
			<i>For Class 52 Rating, Deduct</i>	-388.73	
			<i>For Class 54 Rating, Add</i>	265.04	
			<i>For Class 55 Rating, Add</i>	589.10	



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0853 EA 18" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,689.52	676.74
For Class 52 Rating, Deduct	-403.06	
For Class 54 Rating, Add	274.81	
For Class 55 Rating, Add	610.82	
40 05 19 00-0854 EA 18" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,824.16	679.62
For Class 52 Rating, Deduct	-417.39	
For Class 54 Rating, Add	284.58	
For Class 55 Rating, Add	632.53	
40 05 19 00-0855 EA 18" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,958.80	682.49
For Class 52 Rating, Deduct	-431.72	
For Class 54 Rating, Add	294.35	
For Class 55 Rating, Add	654.25	
40 05 19 00-0856 EA 18" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,093.43	685.37
For Class 52 Rating, Deduct	-446.05	
For Class 54 Rating, Add	304.13	
For Class 55 Rating, Add	675.97	
40 05 19 00-0857 EA 18" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,228.08	688.24
For Class 52 Rating, Deduct	-460.38	
For Class 54 Rating, Add	313.90	
For Class 55 Rating, Add	697.69	
40 05 19 00-0858 EA 18" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,362.72	691.11
For Class 52 Rating, Deduct	-474.71	
For Class 54 Rating, Add	323.67	
For Class 55 Rating, Add	719.41	
40 05 19 00-0859 EA 18" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,497.35	693.99
For Class 52 Rating, Deduct	-489.04	
For Class 54 Rating, Add	333.44	
For Class 55 Rating, Add	741.12	
40 05 19 00-0860 EA 18" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,631.98	696.86
For Class 52 Rating, Deduct	-503.38	
For Class 54 Rating, Add	343.21	
For Class 55 Rating, Add	762.84	
40 05 19 00-0861 EA 18" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,766.62	699.74
For Class 52 Rating, Deduct	-517.71	
For Class 54 Rating, Add	352.98	
For Class 55 Rating, Add	784.56	
40 05 19 00-0862 EA 18" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,901.26	702.61
For Class 52 Rating, Deduct	-532.04	
For Class 54 Rating, Add	362.75	
For Class 55 Rating, Add	806.28	
40 05 19 00-0863 EA 18" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,035.90	705.49
For Class 52 Rating, Deduct	-546.37	
For Class 54 Rating, Add	372.52	
For Class 55 Rating, Add	828.00	
40 05 19 00-0864 EA 18" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,170.54	708.36
For Class 52 Rating, Deduct	-560.70	
For Class 54 Rating, Add	382.30	
For Class 55 Rating, Add	849.71	
40 05 19 00-0865 EA 18" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,305.18	711.24
For Class 52 Rating, Deduct	-575.03	
For Class 54 Rating, Add	392.07	
For Class 55 Rating, Add	871.43	
40 05 19 00-0866 EA 18" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,439.81	714.11
For Class 52 Rating, Deduct	-589.36	
For Class 54 Rating, Add	401.84	
For Class 55 Rating, Add	893.15	
40 05 19 00-0867 EA 18" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,574.44	716.99
For Class 52 Rating, Deduct	-603.69	
For Class 54 Rating, Add	411.61	
For Class 55 Rating, Add	914.87	
40 05 19 00-0868 EA 18" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,709.08	719.86
For Class 52 Rating, Deduct	-618.02	
For Class 54 Rating, Add	421.38	
For Class 55 Rating, Add	936.59	
40 05 19 00-0869 EA 18" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,843.72	722.74
For Class 52 Rating, Deduct	-632.35	
For Class 54 Rating, Add	431.15	
For Class 55 Rating, Add	958.30	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0870	EA		18" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,978.36	725.61
			<i>For Class 52 Rating, Deduct</i>	-646.69	
			<i>For Class 54 Rating, Add</i>	440.92	
			<i>For Class 55 Rating, Add</i>	980.02	
40 05 19 00-0871	EA		18" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,113.00	728.49
			<i>For Class 52 Rating, Deduct</i>	-661.02	
			<i>For Class 54 Rating, Add</i>	450.69	
			<i>For Class 55 Rating, Add</i>	1,001.74	
40 05 19 00-0872			20" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0854)</small>		
40 05 19 00-0873	EA		20" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,464.47	710.08
			<i>For Class 52 Rating, Deduct</i>	-152.74	
			<i>For Class 54 Rating, Add</i>	104.14	
			<i>For Class 55 Rating, Add</i>	231.48	
40 05 19 00-0874	EA		20" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,618.64	712.96
			<i>For Class 52 Rating, Deduct</i>	-169.23	
			<i>For Class 54 Rating, Add</i>	115.38	
			<i>For Class 55 Rating, Add</i>	256.45	
40 05 19 00-0875	EA		20" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,772.82	715.83
			<i>For Class 52 Rating, Deduct</i>	-185.71	
			<i>For Class 54 Rating, Add</i>	126.62	
			<i>For Class 55 Rating, Add</i>	281.43	
40 05 19 00-0876	EA		20" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,927.01	718.71
			<i>For Class 52 Rating, Deduct</i>	-202.19	
			<i>For Class 54 Rating, Add</i>	137.85	
			<i>For Class 55 Rating, Add</i>	306.40	
40 05 19 00-0877	EA		20" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,081.18	721.58
			<i>For Class 52 Rating, Deduct</i>	-218.67	
			<i>For Class 54 Rating, Add</i>	149.09	
			<i>For Class 55 Rating, Add</i>	331.38	
40 05 19 00-0878	EA		20" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,235.36	724.46
			<i>For Class 52 Rating, Deduct</i>	-235.15	
			<i>For Class 54 Rating, Add</i>	160.33	
			<i>For Class 55 Rating, Add</i>	356.35	
40 05 19 00-0879	EA		20" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,389.55	727.33
			<i>For Class 52 Rating, Deduct</i>	-251.63	
			<i>For Class 54 Rating, Add</i>	171.56	
			<i>For Class 55 Rating, Add</i>	381.33	
40 05 19 00-0880	EA		20" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,543.72	730.21
			<i>For Class 52 Rating, Deduct</i>	-268.11	
			<i>For Class 54 Rating, Add</i>	182.80	
			<i>For Class 55 Rating, Add</i>	406.31	
40 05 19 00-0881	EA		20" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,697.91	733.08
			<i>For Class 52 Rating, Deduct</i>	-284.59	
			<i>For Class 54 Rating, Add</i>	194.04	
			<i>For Class 55 Rating, Add</i>	431.28	
40 05 19 00-0882	EA		20" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,852.09	735.95
			<i>For Class 52 Rating, Deduct</i>	-301.07	
			<i>For Class 54 Rating, Add</i>	205.28	
			<i>For Class 55 Rating, Add</i>	456.26	
40 05 19 00-0883	EA		20" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,006.26	738.83
			<i>For Class 52 Rating, Deduct</i>	-317.55	
			<i>For Class 54 Rating, Add</i>	216.51	
			<i>For Class 55 Rating, Add</i>	481.23	
40 05 19 00-0884	EA		20" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,160.44	741.70
			<i>For Class 52 Rating, Deduct</i>	-334.03	
			<i>For Class 54 Rating, Add</i>	227.75	
			<i>For Class 55 Rating, Add</i>	506.21	
40 05 19 00-0885	EA		20" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,314.62	744.58
			<i>For Class 52 Rating, Deduct</i>	-350.51	
			<i>For Class 54 Rating, Add</i>	238.99	
			<i>For Class 55 Rating, Add</i>	531.18	
40 05 19 00-0886	EA		20" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,468.80	747.45
			<i>For Class 52 Rating, Deduct</i>	-366.99	
			<i>For Class 54 Rating, Add</i>	250.22	
			<i>For Class 55 Rating, Add</i>	556.16	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0887 EA 20" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,622.98	750.33
<i>For Class 52 Rating, Deduct</i>	-383.47	
<i>For Class 54 Rating, Add</i>	261.46	
<i>For Class 55 Rating, Add</i>	581.14	
40 05 19 00-0888 EA 20" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,777.16	753.20
<i>For Class 52 Rating, Deduct</i>	-399.95	
<i>For Class 54 Rating, Add</i>	272.70	
<i>For Class 55 Rating, Add</i>	606.11	
40 05 19 00-0889 EA 20" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,931.35	756.08
<i>For Class 52 Rating, Deduct</i>	-416.43	
<i>For Class 54 Rating, Add</i>	283.93	
<i>For Class 55 Rating, Add</i>	631.09	
40 05 19 00-0890 EA 20" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,085.52	758.95
<i>For Class 52 Rating, Deduct</i>	-432.91	
<i>For Class 54 Rating, Add</i>	295.17	
<i>For Class 55 Rating, Add</i>	656.06	
40 05 19 00-0891 EA 20" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,239.70	761.83
<i>For Class 52 Rating, Deduct</i>	-449.40	
<i>For Class 54 Rating, Add</i>	306.41	
<i>For Class 55 Rating, Add</i>	681.04	
40 05 19 00-0892 EA 20" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,393.88	764.70
<i>For Class 52 Rating, Deduct</i>	-465.88	
<i>For Class 54 Rating, Add</i>	317.64	
<i>For Class 55 Rating, Add</i>	706.01	
40 05 19 00-0893 EA 20" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,548.05	767.58
<i>For Class 52 Rating, Deduct</i>	-482.36	
<i>For Class 54 Rating, Add</i>	328.88	
<i>For Class 55 Rating, Add</i>	730.99	
40 05 19 00-0894 EA 20" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,702.24	770.45
<i>For Class 52 Rating, Deduct</i>	-498.84	
<i>For Class 54 Rating, Add</i>	340.12	
<i>For Class 55 Rating, Add</i>	755.97	
40 05 19 00-0895 EA 20" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,856.42	773.33
<i>For Class 52 Rating, Deduct</i>	-515.32	
<i>For Class 54 Rating, Add</i>	351.35	
<i>For Class 55 Rating, Add</i>	780.94	
40 05 19 00-0896 EA 20" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,010.60	776.20
<i>For Class 52 Rating, Deduct</i>	-531.80	
<i>For Class 54 Rating, Add</i>	362.59	
<i>For Class 55 Rating, Add</i>	805.92	
40 05 19 00-0897 EA 20" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,164.78	779.08
<i>For Class 52 Rating, Deduct</i>	-548.28	
<i>For Class 54 Rating, Add</i>	373.83	
<i>For Class 55 Rating, Add</i>	830.89	
40 05 19 00-0898 EA 20" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,318.96	781.95
<i>For Class 52 Rating, Deduct</i>	-564.76	
<i>For Class 54 Rating, Add</i>	385.06	
<i>For Class 55 Rating, Add</i>	855.87	
40 05 19 00-0899 EA 20" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,473.14	784.83
<i>For Class 52 Rating, Deduct</i>	-581.24	
<i>For Class 54 Rating, Add</i>	396.30	
<i>For Class 55 Rating, Add</i>	880.84	
40 05 19 00-0900 EA 20" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,627.31	787.70
<i>For Class 52 Rating, Deduct</i>	-597.72	
<i>For Class 54 Rating, Add</i>	407.54	
<i>For Class 55 Rating, Add</i>	905.82	
40 05 19 00-0901 EA 20" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,781.49	790.58
<i>For Class 52 Rating, Deduct</i>	-614.20	
<i>For Class 54 Rating, Add</i>	418.77	
<i>For Class 55 Rating, Add</i>	930.79	
40 05 19 00-0902 EA 20" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,935.68	793.45
<i>For Class 52 Rating, Deduct</i>	-630.68	
<i>For Class 54 Rating, Add</i>	430.01	
<i>For Class 55 Rating, Add</i>	955.77	
40 05 19 00-0903 EA 20" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,089.85	796.33
<i>For Class 52 Rating, Deduct</i>	-647.16	
<i>For Class 54 Rating, Add</i>	441.25	
<i>For Class 55 Rating, Add</i>	980.75	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0904	EA		20" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,244.03	799.20
			For Class 52 Rating, Deduct	-663.64	
			For Class 54 Rating, Add	452.48	
			For Class 55 Rating, Add	1,005.72	
40 05 19 00-0905	EA		20" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,398.22	802.07
			For Class 52 Rating, Deduct	-680.12	
			For Class 54 Rating, Add	463.72	
			For Class 55 Rating, Add	1,030.70	
40 05 19 00-0906	EA		20" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,552.40	804.95
			For Class 52 Rating, Deduct	-696.60	
			For Class 54 Rating, Add	474.96	
			For Class 55 Rating, Add	1,055.67	
40 05 19 00-0907	EA		20" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,706.58	807.82
			For Class 52 Rating, Deduct	-713.09	
			For Class 54 Rating, Add	486.20	
			For Class 55 Rating, Add	1,080.65	
40 05 19 00-0908	EA		20" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,860.76	810.70
			For Class 52 Rating, Deduct	-729.57	
			For Class 54 Rating, Add	497.43	
			For Class 55 Rating, Add	1,105.62	
40 05 19 00-0909	EA		20" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,014.93	813.57
			For Class 52 Rating, Deduct	-746.05	
			For Class 54 Rating, Add	508.67	
			For Class 55 Rating, Add	1,130.60	
40 05 19 00-0910	EA		20" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,169.11	816.45
			For Class 52 Rating, Deduct	-762.53	
			For Class 54 Rating, Add	519.91	
			For Class 55 Rating, Add	1,155.58	
40 05 19 00-0911			24" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0912	EA		24" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,026.35	839.45
			For Class 52 Rating, Deduct	-192.99	
			For Class 54 Rating, Add	131.58	
			For Class 55 Rating, Add	292.47	
40 05 19 00-0913	EA		24" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,216.36	842.32
			For Class 52 Rating, Deduct	-213.41	
			For Class 54 Rating, Add	145.51	
			For Class 55 Rating, Add	323.42	
40 05 19 00-0914	EA		24" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,406.36	845.20
			For Class 52 Rating, Deduct	-233.83	
			For Class 54 Rating, Add	159.43	
			For Class 55 Rating, Add	354.36	
40 05 19 00-0915	EA		24" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,596.37	848.07
			For Class 52 Rating, Deduct	-254.26	
			For Class 54 Rating, Add	173.36	
			For Class 55 Rating, Add	385.31	
40 05 19 00-0916	EA		24" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,786.38	850.95
			For Class 52 Rating, Deduct	-274.68	
			For Class 54 Rating, Add	187.28	
			For Class 55 Rating, Add	416.26	
40 05 19 00-0917	EA		24" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,976.39	853.82
			For Class 52 Rating, Deduct	-295.10	
			For Class 54 Rating, Add	201.20	
			For Class 55 Rating, Add	447.21	
40 05 19 00-0918	EA		24" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,166.40	856.70
			For Class 52 Rating, Deduct	-315.52	
			For Class 54 Rating, Add	215.13	
			For Class 55 Rating, Add	478.16	
40 05 19 00-0919	EA		24" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,356.41	859.57
			For Class 52 Rating, Deduct	-335.94	
			For Class 54 Rating, Add	229.05	
			For Class 55 Rating, Add	509.11	
40 05 19 00-0920	EA		24" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,546.40	862.45
			For Class 52 Rating, Deduct	-356.36	
			For Class 54 Rating, Add	242.98	
			For Class 55 Rating, Add	540.05	



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0921 EA 24" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,736.41	865.32
For Class 52 Rating, Deduct	-376.79	
For Class 54 Rating, Add	256.90	
For Class 55 Rating, Add	571.00	
40 05 19 00-0922 EA 24" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,926.42	868.20
For Class 52 Rating, Deduct	-397.21	
For Class 54 Rating, Add	270.82	
For Class 55 Rating, Add	601.95	
40 05 19 00-0923 EA 24" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,116.42	871.07
For Class 52 Rating, Deduct	-417.63	
For Class 54 Rating, Add	284.75	
For Class 55 Rating, Add	632.90	
40 05 19 00-0924 EA 24" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,306.43	873.94
For Class 52 Rating, Deduct	-438.05	
For Class 54 Rating, Add	298.67	
For Class 55 Rating, Add	663.84	
40 05 19 00-0925 EA 24" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,496.45	876.82
For Class 52 Rating, Deduct	-458.47	
For Class 54 Rating, Add	312.59	
For Class 55 Rating, Add	694.79	
40 05 19 00-0926 EA 24" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,686.46	879.69
For Class 52 Rating, Deduct	-478.89	
For Class 54 Rating, Add	326.52	
For Class 55 Rating, Add	725.74	
40 05 19 00-0927 EA 24" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,876.46	882.57
For Class 52 Rating, Deduct	-499.32	
For Class 54 Rating, Add	340.44	
For Class 55 Rating, Add	756.69	
40 05 19 00-0928 EA 24" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,066.47	885.44
For Class 52 Rating, Deduct	-519.74	
For Class 54 Rating, Add	354.37	
For Class 55 Rating, Add	787.64	
40 05 19 00-0929 EA 24" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,256.47	888.32
For Class 52 Rating, Deduct	-540.16	
For Class 54 Rating, Add	368.29	
For Class 55 Rating, Add	818.59	
40 05 19 00-0930 EA 24" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,446.47	891.19
For Class 52 Rating, Deduct	-560.58	
For Class 54 Rating, Add	382.21	
For Class 55 Rating, Add	849.53	
40 05 19 00-0931 EA 24" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,636.48	894.07
For Class 52 Rating, Deduct	-581.00	
For Class 54 Rating, Add	396.14	
For Class 55 Rating, Add	880.48	
40 05 19 00-0932 EA 24" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,826.49	896.94
For Class 52 Rating, Deduct	-601.42	
For Class 54 Rating, Add	410.06	
For Class 55 Rating, Add	911.43	
40 05 19 00-0933 EA 24" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,016.50	899.82
For Class 52 Rating, Deduct	-621.85	
For Class 54 Rating, Add	423.99	
For Class 55 Rating, Add	942.38	
40 05 19 00-0934 EA 24" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,206.51	902.69
For Class 52 Rating, Deduct	-642.27	
For Class 54 Rating, Add	437.91	
For Class 55 Rating, Add	973.33	
40 05 19 00-0935 EA 24" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,396.52	905.57
For Class 52 Rating, Deduct	-662.69	
For Class 54 Rating, Add	451.83	
For Class 55 Rating, Add	1,004.27	
40 05 19 00-0936 EA 24" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,586.53	908.44
For Class 52 Rating, Deduct	-683.11	
For Class 54 Rating, Add	465.76	
For Class 55 Rating, Add	1,035.22	
40 05 19 00-0937 EA 24" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,776.53	911.32
For Class 52 Rating, Deduct	-703.53	
For Class 54 Rating, Add	479.68	
For Class 55 Rating, Add	1,066.17	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0938	EA		24" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,966.53	914.19
			For Class 52 Rating, Deduct	-723.95	
			For Class 54 Rating, Add	493.60	
			For Class 55 Rating, Add	1,097.12	
40 05 19 00-0939	EA		24" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,156.54	917.07
			For Class 52 Rating, Deduct	-744.37	
			For Class 54 Rating, Add	507.53	
			For Class 55 Rating, Add	1,128.07	
40 05 19 00-0940	EA		24" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,346.54	919.94
			For Class 52 Rating, Deduct	-764.80	
			For Class 54 Rating, Add	521.45	
			For Class 55 Rating, Add	1,159.01	
40 05 19 00-0941	EA		24" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,610.61	971.69
			For Class 52 Rating, Deduct	-785.22	
			For Class 54 Rating, Add	535.38	
			For Class 55 Rating, Add	1,189.96	
40 05 19 00-0942	EA		24" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,800.61	974.56
			For Class 52 Rating, Deduct	-805.64	
			For Class 54 Rating, Add	549.30	
			For Class 55 Rating, Add	1,220.91	
40 05 19 00-0943	EA		24" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,990.62	977.44
			For Class 52 Rating, Deduct	-826.06	
			For Class 54 Rating, Add	563.22	
			For Class 55 Rating, Add	1,251.86	
40 05 19 00-0944	EA		24" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,180.63	980.31
			For Class 52 Rating, Deduct	-846.48	
			For Class 54 Rating, Add	577.15	
			For Class 55 Rating, Add	1,282.81	
40 05 19 00-0945	EA		24" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,370.64	983.19
			For Class 52 Rating, Deduct	-866.90	
			For Class 54 Rating, Add	591.07	
			For Class 55 Rating, Add	1,313.75	
40 05 19 00-0946	EA		24" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,560.64	986.06
			For Class 52 Rating, Deduct	-887.33	
			For Class 54 Rating, Add	605.00	
			For Class 55 Rating, Add	1,344.70	
40 05 19 00-0947	EA		24" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,750.64	988.94
			For Class 52 Rating, Deduct	-907.75	
			For Class 54 Rating, Add	618.92	
			For Class 55 Rating, Add	1,375.65	
40 05 19 00-0948	EA		24" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,940.65	991.81
			For Class 52 Rating, Deduct	-928.17	
			For Class 54 Rating, Add	632.84	
			For Class 55 Rating, Add	1,406.60	
40 05 19 00-0949	EA		24" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,130.66	994.69
			For Class 52 Rating, Deduct	-948.59	
			For Class 54 Rating, Add	646.77	
			For Class 55 Rating, Add	1,437.55	
40 05 19 00-0950			30" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0954)</small>		
40 05 19 00-0951	EA		30" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,595.64	1,184.43
			For Class 52 Rating, Deduct	-308.12	
			For Class 54 Rating, Add	210.08	
			For Class 55 Rating, Add	466.94	
40 05 19 00-0952	EA		30" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,868.16	1,187.31
			For Class 52 Rating, Deduct	-337.61	
			For Class 54 Rating, Add	230.19	
			For Class 55 Rating, Add	511.64	
40 05 19 00-0953	EA		30" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,140.68	1,190.18
			For Class 52 Rating, Deduct	-367.11	
			For Class 54 Rating, Add	250.30	
			For Class 55 Rating, Add	556.34	
40 05 19 00-0954	EA		30" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,413.19	1,193.06
			For Class 52 Rating, Deduct	-396.61	
			For Class 54 Rating, Add	270.42	
			For Class 55 Rating, Add	601.04	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0955 EA 30" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,685.72	1,195.93
<i>For Class 52 Rating, Deduct</i>	-426.11	
<i>For Class 54 Rating, Add</i>	290.53	
<i>For Class 55 Rating, Add</i>	645.75	
40 05 19 00-0956 EA 30" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,958.24	1,198.81
<i>For Class 52 Rating, Deduct</i>	-455.61	
<i>For Class 54 Rating, Add</i>	310.64	
<i>For Class 55 Rating, Add</i>	690.45	
40 05 19 00-0957 EA 30" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,230.75	1,201.68
<i>For Class 52 Rating, Deduct</i>	-485.10	
<i>For Class 54 Rating, Add</i>	330.75	
<i>For Class 55 Rating, Add</i>	735.15	
40 05 19 00-0958 EA 30" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,503.28	1,204.55
<i>For Class 52 Rating, Deduct</i>	-514.60	
<i>For Class 54 Rating, Add</i>	350.87	
<i>For Class 55 Rating, Add</i>	779.86	
40 05 19 00-0959 EA 30" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,775.80	1,207.43
<i>For Class 52 Rating, Deduct</i>	-544.10	
<i>For Class 54 Rating, Add</i>	370.98	
<i>For Class 55 Rating, Add</i>	824.56	
40 05 19 00-0960 EA 30" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,048.31	1,210.30
<i>For Class 52 Rating, Deduct</i>	-573.60	
<i>For Class 54 Rating, Add</i>	391.09	
<i>For Class 55 Rating, Add</i>	869.26	
40 05 19 00-0961 EA 30" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,320.82	1,213.18
<i>For Class 52 Rating, Deduct</i>	-603.09	
<i>For Class 54 Rating, Add</i>	411.20	
<i>For Class 55 Rating, Add</i>	913.96	
40 05 19 00-0962 EA 30" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,593.35	1,216.05
<i>For Class 52 Rating, Deduct</i>	-632.59	
<i>For Class 54 Rating, Add</i>	431.31	
<i>For Class 55 Rating, Add</i>	958.67	
40 05 19 00-0963 EA 30" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,865.87	1,218.93
<i>For Class 52 Rating, Deduct</i>	-662.09	
<i>For Class 54 Rating, Add</i>	451.43	
<i>For Class 55 Rating, Add</i>	1,003.37	
40 05 19 00-0964 EA 30" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,138.38	1,221.80
<i>For Class 52 Rating, Deduct</i>	-691.59	
<i>For Class 54 Rating, Add</i>	471.54	
<i>For Class 55 Rating, Add</i>	1,048.07	
40 05 19 00-0965 EA 30" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,410.91	1,224.68
<i>For Class 52 Rating, Deduct</i>	-721.09	
<i>For Class 54 Rating, Add</i>	491.65	
<i>For Class 55 Rating, Add</i>	1,092.78	
40 05 19 00-0966 EA 30" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,683.43	1,227.55
<i>For Class 52 Rating, Deduct</i>	-750.59	
<i>For Class 54 Rating, Add</i>	511.76	
<i>For Class 55 Rating, Add</i>	1,137.48	
40 05 19 00-0967 EA 30" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,955.94	1,230.43
<i>For Class 52 Rating, Deduct</i>	-780.08	
<i>For Class 54 Rating, Add</i>	531.87	
<i>For Class 55 Rating, Add</i>	1,182.18	
40 05 19 00-0968 EA 30" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,228.46	1,233.30
<i>For Class 52 Rating, Deduct</i>	-809.58	
<i>For Class 54 Rating, Add</i>	551.99	
<i>For Class 55 Rating, Add</i>	1,226.88	
40 05 19 00-0969 EA 30" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,500.99	1,236.18
<i>For Class 52 Rating, Deduct</i>	-839.08	
<i>For Class 54 Rating, Add</i>	572.10	
<i>For Class 55 Rating, Add</i>	1,271.59	
40 05 19 00-0970 EA 30" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,773.49	1,239.05
<i>For Class 52 Rating, Deduct</i>	-868.58	
<i>For Class 54 Rating, Add</i>	592.21	
<i>For Class 55 Rating, Add</i>	1,316.29	
40 05 19 00-0971 EA 30" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,046.01	1,241.93
<i>For Class 52 Rating, Deduct</i>	-898.07	
<i>For Class 54 Rating, Add</i>	612.32	
<i>For Class 55 Rating, Add</i>	1,360.99	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0972	EA		30" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,318.54	1,244.80
			For Class 52 Rating, Deduct	-927.57	
			For Class 54 Rating, Add	632.44	
			For Class 55 Rating, Add	1,405.69	
40 05 19 00-0973	EA		30" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,591.06	1,247.68
			For Class 52 Rating, Deduct	-957.07	
			For Class 54 Rating, Add	652.55	
			For Class 55 Rating, Add	1,450.40	
40 05 19 00-0974	EA		30" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,863.57	1,250.55
			For Class 52 Rating, Deduct	-986.57	
			For Class 54 Rating, Add	672.66	
			For Class 55 Rating, Add	1,495.10	
40 05 19 00-0975	EA		30" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,136.10	1,253.43
			For Class 52 Rating, Deduct	-1,016.07	
			For Class 54 Rating, Add	692.77	
			For Class 55 Rating, Add	1,539.80	
40 05 19 00-0976	EA		30" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,408.62	1,256.30
			For Class 52 Rating, Deduct	-1,045.56	
			For Class 54 Rating, Add	712.88	
			For Class 55 Rating, Add	1,584.51	
40 05 19 00-0977	EA		30" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,681.13	1,259.18
			For Class 52 Rating, Deduct	-1,075.06	
			For Class 54 Rating, Add	733.00	
			For Class 55 Rating, Add	1,629.21	
40 05 19 00-0978	EA		30" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,953.64	1,262.05
			For Class 52 Rating, Deduct	-1,104.56	
			For Class 54 Rating, Add	753.11	
			For Class 55 Rating, Add	1,673.91	
40 05 19 00-0979	EA		30" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,226.17	1,264.93
			For Class 52 Rating, Deduct	-1,134.06	
			For Class 54 Rating, Add	773.22	
			For Class 55 Rating, Add	1,718.61	
40 05 19 00-0980	EA		30" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,498.68	1,267.80
			For Class 52 Rating, Deduct	-1,163.56	
			For Class 54 Rating, Add	793.33	
			For Class 55 Rating, Add	1,763.32	
40 05 19 00-0981	EA		30" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,771.20	1,270.68
			For Class 52 Rating, Deduct	-1,193.05	
			For Class 54 Rating, Add	813.45	
			For Class 55 Rating, Add	1,808.02	
40 05 19 00-0982	EA		30" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,043.73	1,273.55
			For Class 52 Rating, Deduct	-1,222.55	
			For Class 54 Rating, Add	833.56	
			For Class 55 Rating, Add	1,852.72	
40 05 19 00-0983	EA		30" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,316.24	1,276.42
			For Class 52 Rating, Deduct	-1,252.05	
			For Class 54 Rating, Add	853.67	
			For Class 55 Rating, Add	1,897.42	
40 05 19 00-0984	EA		30" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,588.76	1,279.30
			For Class 52 Rating, Deduct	-1,281.55	
			For Class 54 Rating, Add	873.78	
			For Class 55 Rating, Add	1,942.13	
40 05 19 00-0985	EA		30" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,861.29	1,282.17
			For Class 52 Rating, Deduct	-1,311.05	
			For Class 54 Rating, Add	893.90	
			For Class 55 Rating, Add	1,986.83	
40 05 19 00-0986	EA		30" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	14,133.81	1,285.05
			For Class 52 Rating, Deduct	-1,340.54	
			For Class 54 Rating, Add	914.01	
			For Class 55 Rating, Add	2,031.53	
40 05 19 00-0987	EA		30" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	14,406.31	1,287.92
			For Class 52 Rating, Deduct	-1,370.04	
			For Class 54 Rating, Add	934.12	
			For Class 55 Rating, Add	2,076.24	
40 05 19 00-0988	EA		30" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	14,678.83	1,290.80
			For Class 52 Rating, Deduct	-1,399.54	
			For Class 54 Rating, Add	954.23	
			For Class 55 Rating, Add	2,120.94	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0989				36" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0990	EA			36" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,222.35	1,500.66
				For Class 52 Rating, Deduct	-434.35	
				For Class 54 Rating, Add	296.15	
				For Class 55 Rating, Add	658.23	
40 05 19 00-0991	EA			36" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,591.49	1,503.53
				For Class 52 Rating, Deduct	-474.48	
				For Class 54 Rating, Add	323.51	
				For Class 55 Rating, Add	719.05	
40 05 19 00-0992	EA			36" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,960.64	1,506.41
				For Class 52 Rating, Deduct	-514.60	
				For Class 54 Rating, Add	350.87	
				For Class 55 Rating, Add	779.86	
40 05 19 00-0993	EA			36" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,329.78	1,509.28
				For Class 52 Rating, Deduct	-554.73	
				For Class 54 Rating, Add	378.22	
				For Class 55 Rating, Add	840.66	
40 05 19 00-0994	EA			36" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,698.91	1,512.16
				For Class 52 Rating, Deduct	-594.85	
				For Class 54 Rating, Add	405.58	
				For Class 55 Rating, Add	901.48	
40 05 19 00-0995	EA			36" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,068.06	1,515.03
				For Class 52 Rating, Deduct	-634.98	
				For Class 54 Rating, Add	432.94	
				For Class 55 Rating, Add	962.29	
40 05 19 00-0996	EA			36" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,437.21	1,517.91
				For Class 52 Rating, Deduct	-675.11	
				For Class 54 Rating, Add	460.30	
				For Class 55 Rating, Add	1,023.10	
40 05 19 00-0997	EA			36" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,806.35	1,520.78
				For Class 52 Rating, Deduct	-715.24	
				For Class 54 Rating, Add	487.66	
				For Class 55 Rating, Add	1,083.91	
40 05 19 00-0998	EA			36" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,175.50	1,523.66
				For Class 52 Rating, Deduct	-755.36	
				For Class 54 Rating, Add	515.02	
				For Class 55 Rating, Add	1,144.72	
40 05 19 00-0999	EA			36" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,544.64	1,526.53
				For Class 52 Rating, Deduct	-795.49	
				For Class 54 Rating, Add	542.38	
				For Class 55 Rating, Add	1,205.53	
40 05 19 00-1000	EA			36" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,913.79	1,529.41
				For Class 52 Rating, Deduct	-835.62	
				For Class 54 Rating, Add	569.74	
				For Class 55 Rating, Add	1,266.34	
40 05 19 00-1001	EA			36" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,282.93	1,532.28
				For Class 52 Rating, Deduct	-875.74	
				For Class 54 Rating, Add	597.10	
				For Class 55 Rating, Add	1,327.15	
40 05 19 00-1002	EA			36" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,652.08	1,535.16
				For Class 52 Rating, Deduct	-915.87	
				For Class 54 Rating, Add	624.46	
				For Class 55 Rating, Add	1,387.96	
40 05 19 00-1003	EA			36" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,021.22	1,538.03
				For Class 52 Rating, Deduct	-956.00	
				For Class 54 Rating, Add	651.82	
				For Class 55 Rating, Add	1,448.77	
40 05 19 00-1004	EA			36" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,390.36	1,540.90
				For Class 52 Rating, Deduct	-996.12	
				For Class 54 Rating, Add	679.17	
				For Class 55 Rating, Add	1,509.58	
40 05 19 00-1005	EA			36" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,759.51	1,543.78
				For Class 52 Rating, Deduct	-1,036.25	
				For Class 54 Rating, Add	706.53	
				For Class 55 Rating, Add	1,570.39	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1006	EA		36" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,128.65	1,546.65
			For Class 52 Rating, Deduct	-1,076.38	
			For Class 54 Rating, Add	733.89	
			For Class 55 Rating, Add	1,631.20	
40 05 19 00-1007	EA		36" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,497.79	1,549.53
			For Class 52 Rating, Deduct	-1,116.50	
			For Class 54 Rating, Add	761.25	
			For Class 55 Rating, Add	1,692.01	
40 05 19 00-1008	EA		36" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,866.94	1,552.40
			For Class 52 Rating, Deduct	-1,156.63	
			For Class 54 Rating, Add	788.61	
			For Class 55 Rating, Add	1,752.82	
40 05 19 00-1009	EA		36" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,236.09	1,555.28
			For Class 52 Rating, Deduct	-1,196.76	
			For Class 54 Rating, Add	815.97	
			For Class 55 Rating, Add	1,813.63	
40 05 19 00-1010	EA		36" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,605.24	1,558.15
			For Class 52 Rating, Deduct	-1,236.88	
			For Class 54 Rating, Add	843.33	
			For Class 55 Rating, Add	1,874.44	
40 05 19 00-1011	EA		36" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,974.38	1,561.03
			For Class 52 Rating, Deduct	-1,277.01	
			For Class 54 Rating, Add	870.69	
			For Class 55 Rating, Add	1,935.25	
40 05 19 00-1012	EA		36" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	14,343.51	1,563.90
			For Class 52 Rating, Deduct	-1,317.14	
			For Class 54 Rating, Add	898.05	
			For Class 55 Rating, Add	1,996.06	
40 05 19 00-1013	EA		36" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	14,712.66	1,566.78
			For Class 52 Rating, Deduct	-1,357.26	
			For Class 54 Rating, Add	925.41	
			For Class 55 Rating, Add	2,056.87	
40 05 19 00-1014	EA		36" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	15,081.80	1,569.65
			For Class 52 Rating, Deduct	-1,397.39	
			For Class 54 Rating, Add	952.77	
			For Class 55 Rating, Add	2,117.68	
40 05 19 00-1015	EA		36" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	15,450.95	1,572.53
			For Class 52 Rating, Deduct	-1,437.52	
			For Class 54 Rating, Add	980.12	
			For Class 55 Rating, Add	2,178.49	
40 05 19 00-1016	EA		36" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	15,820.10	1,575.40
			For Class 52 Rating, Deduct	-1,477.64	
			For Class 54 Rating, Add	1,007.48	
			For Class 55 Rating, Add	2,239.30	
40 05 19 00-1017	EA		36" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	16,189.24	1,578.28
			For Class 52 Rating, Deduct	-1,517.77	
			For Class 54 Rating, Add	1,034.84	
			For Class 55 Rating, Add	2,300.11	
40 05 19 00-1018	EA		36" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	16,558.39	1,581.15
			For Class 52 Rating, Deduct	-1,557.90	
			For Class 54 Rating, Add	1,062.20	
			For Class 55 Rating, Add	2,360.92	
40 05 19 00-1019	EA		36" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	16,927.53	1,584.03
			For Class 52 Rating, Deduct	-1,598.02	
			For Class 54 Rating, Add	1,089.56	
			For Class 55 Rating, Add	2,421.73	
40 05 19 00-1020	EA		36" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	17,296.66	1,586.90
			For Class 52 Rating, Deduct	-1,638.15	
			For Class 54 Rating, Add	1,116.92	
			For Class 55 Rating, Add	2,482.54	
40 05 19 00-1021	EA		36" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	17,665.81	1,589.78
			For Class 52 Rating, Deduct	-1,678.28	
			For Class 54 Rating, Add	1,144.28	
			For Class 55 Rating, Add	2,543.35	
40 05 19 00-1022	EA		36" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	18,034.96	1,592.65
			For Class 52 Rating, Deduct	-1,718.40	
			For Class 54 Rating, Add	1,171.64	
			For Class 55 Rating, Add	2,604.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1023 EA 36" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	18,404.11	1,595.53
For Class 52 Rating, Deduct	-1,758.53	
For Class 54 Rating, Add	1,199.00	
For Class 55 Rating, Add	2,664.97	
40 05 19 00-1024 EA 36" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	18,773.25	1,598.40
For Class 52 Rating, Deduct	-1,798.66	
For Class 54 Rating, Add	1,226.36	
For Class 55 Rating, Add	2,725.78	
40 05 19 00-1025 EA 36" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	19,142.40	1,601.28
For Class 52 Rating, Deduct	-1,838.78	
For Class 54 Rating, Add	1,253.72	
For Class 55 Rating, Add	2,786.59	
40 05 19 00-1026 EA 36" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	19,511.54	1,604.15
For Class 52 Rating, Deduct	-1,878.91	
For Class 54 Rating, Add	1,281.08	
For Class 55 Rating, Add	2,847.40	
40 05 19 00-1027 EA 36" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	19,880.68	1,607.02
For Class 52 Rating, Deduct	-1,919.04	
For Class 54 Rating, Add	1,308.43	
For Class 55 Rating, Add	2,908.21	
40 05 19 00-1028 Flanged End x Plain End (FxPE), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0001)</small>		
40 05 19 00-1029 4" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1030 EA 4" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	370.45	140.59
For Class 52 Rating, Deduct	-17.32	
For Class 54 Rating, Add	11.81	
For Class 55 Rating, Add	26.24	
40 05 19 00-1031 EA 4" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	402.39	143.05
For Class 52 Rating, Deduct	-20.42	
For Class 54 Rating, Add	13.92	
For Class 55 Rating, Add	30.95	
40 05 19 00-1032 EA 4" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	434.35	145.51
For Class 52 Rating, Deduct	-23.53	
For Class 54 Rating, Add	16.04	
For Class 55 Rating, Add	35.65	
40 05 19 00-1033 EA 4" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	466.30	147.96
For Class 52 Rating, Deduct	-26.63	
For Class 54 Rating, Add	18.16	
For Class 55 Rating, Add	40.36	
40 05 19 00-1034 EA 4" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	498.25	150.43
For Class 52 Rating, Deduct	-29.74	
For Class 54 Rating, Add	20.27	
For Class 55 Rating, Add	45.06	
40 05 19 00-1035 EA 4" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	530.20	152.89
For Class 52 Rating, Deduct	-32.84	
For Class 54 Rating, Add	22.39	
For Class 55 Rating, Add	49.77	
40 05 19 00-1036 EA 4" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	562.15	155.35
For Class 52 Rating, Deduct	-35.95	
For Class 54 Rating, Add	24.51	
For Class 55 Rating, Add	54.48	
40 05 19 00-1037 EA 4" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	594.11	157.80
For Class 52 Rating, Deduct	-39.05	
For Class 54 Rating, Add	26.63	
For Class 55 Rating, Add	59.18	
40 05 19 00-1038 EA 4" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	626.06	160.26
For Class 52 Rating, Deduct	-42.16	
For Class 54 Rating, Add	28.74	
For Class 55 Rating, Add	63.89	
40 05 19 00-1039 EA 4" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	658.01	162.72
For Class 52 Rating, Deduct	-45.26	
For Class 54 Rating, Add	30.86	
For Class 55 Rating, Add	68.59	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1040	EA		4" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	689.96	165.18
			For Class 52 Rating, Deduct	-48.37	
			For Class 54 Rating, Add	32.98	
			For Class 55 Rating, Add	73.30	
40 05 19 00-1041	EA		4" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	721.92	167.64
			For Class 52 Rating, Deduct	-51.47	
			For Class 54 Rating, Add	35.09	
			For Class 55 Rating, Add	78.00	
40 05 19 00-1042	EA		4" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	753.87	170.09
			For Class 52 Rating, Deduct	-54.58	
			For Class 54 Rating, Add	37.21	
			For Class 55 Rating, Add	82.71	
40 05 19 00-1043	EA		4" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	785.82	172.55
			For Class 52 Rating, Deduct	-57.68	
			For Class 54 Rating, Add	39.33	
			For Class 55 Rating, Add	87.41	
40 05 19 00-1044	EA		4" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	817.76	175.00
			For Class 52 Rating, Deduct	-60.79	
			For Class 54 Rating, Add	41.45	
			For Class 55 Rating, Add	92.12	
40 05 19 00-1045	EA		4" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	849.72	177.46
			For Class 52 Rating, Deduct	-63.89	
			For Class 54 Rating, Add	43.56	
			For Class 55 Rating, Add	96.83	
40 05 19 00-1046	EA		4" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	881.68	179.93
			For Class 52 Rating, Deduct	-67.00	
			For Class 54 Rating, Add	45.68	
			For Class 55 Rating, Add	101.53	
40 05 19 00-1047	EA		4" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	913.62	182.38
			For Class 52 Rating, Deduct	-70.10	
			For Class 54 Rating, Add	47.80	
			For Class 55 Rating, Add	106.24	
40 05 19 00-1048	EA		4" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	945.58	184.84
			For Class 52 Rating, Deduct	-73.21	
			For Class 54 Rating, Add	49.91	
			For Class 55 Rating, Add	110.94	
40 05 19 00-1049	EA		4" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	977.53	187.30
			For Class 52 Rating, Deduct	-76.31	
			For Class 54 Rating, Add	52.03	
			For Class 55 Rating, Add	115.65	
40 05 19 00-1050	EA		4" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,009.48	189.76
			For Class 52 Rating, Deduct	-79.42	
			For Class 54 Rating, Add	54.15	
			For Class 55 Rating, Add	120.35	
40 05 19 00-1051	EA		4" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,041.43	192.21
			For Class 52 Rating, Deduct	-82.52	
			For Class 54 Rating, Add	56.27	
			For Class 55 Rating, Add	125.06	
40 05 19 00-1052	EA		4" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,073.39	194.68
			For Class 52 Rating, Deduct	-85.63	
			For Class 54 Rating, Add	58.38	
			For Class 55 Rating, Add	129.76	
40 05 19 00-1053	EA		4" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,105.33	197.14
			For Class 52 Rating, Deduct	-88.73	
			For Class 54 Rating, Add	60.50	
			For Class 55 Rating, Add	134.47	
40 05 19 00-1054	EA		4" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,137.29	199.58
			For Class 52 Rating, Deduct	-91.84	
			For Class 54 Rating, Add	62.62	
			For Class 55 Rating, Add	139.18	
40 05 19 00-1055	EA		4" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,169.25	202.04
			For Class 52 Rating, Deduct	-94.94	
			For Class 54 Rating, Add	64.73	
			For Class 55 Rating, Add	143.88	
40 05 19 00-1056	EA		4" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,201.19	204.50
			For Class 52 Rating, Deduct	-98.05	
			For Class 54 Rating, Add	66.85	
			For Class 55 Rating, Add	148.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1057 EA 4" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,233.15	206.96
For Class 52 Rating, Deduct	-101.15	
For Class 54 Rating, Add	68.97	
For Class 55 Rating, Add	153.29	
40 05 19 00-1058 EA 4" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,265.09	209.42
For Class 52 Rating, Deduct	-104.26	
For Class 54 Rating, Add	71.09	
For Class 55 Rating, Add	158.00	
40 05 19 00-1059 EA 4" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,297.05	211.88
For Class 52 Rating, Deduct	-107.36	
For Class 54 Rating, Add	73.20	
For Class 55 Rating, Add	162.70	
40 05 19 00-1060 EA 4" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,329.00	214.34
For Class 52 Rating, Deduct	-110.47	
For Class 54 Rating, Add	75.32	
For Class 55 Rating, Add	167.41	
40 05 19 00-1061 EA 4" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,360.95	216.80
For Class 52 Rating, Deduct	-113.57	
For Class 54 Rating, Add	77.44	
For Class 55 Rating, Add	172.11	
40 05 19 00-1062 EA 4" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,392.90	219.25
For Class 52 Rating, Deduct	-116.68	
For Class 54 Rating, Add	79.55	
For Class 55 Rating, Add	176.82	
40 05 19 00-1063 EA 4" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,424.86	221.71
For Class 52 Rating, Deduct	-119.78	
For Class 54 Rating, Add	81.67	
For Class 55 Rating, Add	181.53	
40 05 19 00-1064 EA 4" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,456.80	224.17
For Class 52 Rating, Deduct	-122.89	
For Class 54 Rating, Add	83.79	
For Class 55 Rating, Add	186.23	
40 05 19 00-1065 EA 4" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,488.76	226.62
For Class 52 Rating, Deduct	-125.99	
For Class 54 Rating, Add	85.90	
For Class 55 Rating, Add	190.94	
40 05 19 00-1066 EA 4" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,520.72	229.08
For Class 52 Rating, Deduct	-129.10	
For Class 54 Rating, Add	88.02	
For Class 55 Rating, Add	195.64	
40 05 19 00-1067 EA 4" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,552.66	231.54
For Class 52 Rating, Deduct	-132.20	
For Class 54 Rating, Add	90.14	
For Class 55 Rating, Add	200.35	
40 05 19 00-1068 EA 4" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,584.62	234.00
For Class 52 Rating, Deduct	-135.31	
For Class 54 Rating, Add	92.26	
For Class 55 Rating, Add	205.05	
40 05 19 00-1069 6" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1070 EA 6" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	464.65	176.98
For Class 52 Rating, Deduct	-21.62	
For Class 54 Rating, Add	14.74	
For Class 55 Rating, Add	32.76	
40 05 19 00-1071 EA 6" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	503.12	179.44
For Class 52 Rating, Deduct	-25.44	
For Class 54 Rating, Add	17.34	
For Class 55 Rating, Add	38.55	
40 05 19 00-1072 EA 6" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	541.58	181.89
For Class 52 Rating, Deduct	-29.26	
For Class 54 Rating, Add	19.95	
For Class 55 Rating, Add	44.34	
40 05 19 00-1073 EA 6" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	580.04	184.35
For Class 52 Rating, Deduct	-33.08	
For Class 54 Rating, Add	22.55	
For Class 55 Rating, Add	50.13	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1074	EA		6" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	618.52	186.81
			<i>For Class 52 Rating, Deduct</i>	-36.90	
			<i>For Class 54 Rating, Add</i>	25.16	
			<i>For Class 55 Rating, Add</i>	55.92	
40 05 19 00-1075	EA		6" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	656.98	189.26
			<i>For Class 52 Rating, Deduct</i>	-40.72	
			<i>For Class 54 Rating, Add</i>	27.77	
			<i>For Class 55 Rating, Add</i>	61.72	
40 05 19 00-1076	EA		6" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	695.45	191.72
			<i>For Class 52 Rating, Deduct</i>	-44.55	
			<i>For Class 54 Rating, Add</i>	30.37	
			<i>For Class 55 Rating, Add</i>	67.51	
40 05 19 00-1077	EA		6" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	733.92	194.18
			<i>For Class 52 Rating, Deduct</i>	-48.37	
			<i>For Class 54 Rating, Add</i>	32.98	
			<i>For Class 55 Rating, Add</i>	73.30	
40 05 19 00-1078	EA		6" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	772.37	196.64
			<i>For Class 52 Rating, Deduct</i>	-52.19	
			<i>For Class 54 Rating, Add</i>	35.58	
			<i>For Class 55 Rating, Add</i>	79.09	
40 05 19 00-1079	EA		6" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	810.84	199.09
			<i>For Class 52 Rating, Deduct</i>	-56.01	
			<i>For Class 54 Rating, Add</i>	38.19	
			<i>For Class 55 Rating, Add</i>	84.88	
40 05 19 00-1080	EA		6" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	849.32	201.55
			<i>For Class 52 Rating, Deduct</i>	-59.83	
			<i>For Class 54 Rating, Add</i>	40.79	
			<i>For Class 55 Rating, Add</i>	90.67	
40 05 19 00-1081	EA		6" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	887.78	204.02
			<i>For Class 52 Rating, Deduct</i>	-63.65	
			<i>For Class 54 Rating, Add</i>	43.40	
			<i>For Class 55 Rating, Add</i>	96.46	
40 05 19 00-1082	EA		6" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	926.24	206.47
			<i>For Class 52 Rating, Deduct</i>	-67.48	
			<i>For Class 54 Rating, Add</i>	46.01	
			<i>For Class 55 Rating, Add</i>	102.26	
40 05 19 00-1083	EA		6" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	964.71	208.93
			<i>For Class 52 Rating, Deduct</i>	-71.30	
			<i>For Class 54 Rating, Add</i>	48.61	
			<i>For Class 55 Rating, Add</i>	108.05	
40 05 19 00-1084	EA		6" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,003.17	211.39
			<i>For Class 52 Rating, Deduct</i>	-75.12	
			<i>For Class 54 Rating, Add</i>	51.22	
			<i>For Class 55 Rating, Add</i>	113.84	
40 05 19 00-1085	EA		6" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,041.64	213.85
			<i>For Class 52 Rating, Deduct</i>	-78.94	
			<i>For Class 54 Rating, Add</i>	53.82	
			<i>For Class 55 Rating, Add</i>	119.63	
40 05 19 00-1086	EA		6" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,080.11	216.29
			<i>For Class 52 Rating, Deduct</i>	-82.76	
			<i>For Class 54 Rating, Add</i>	56.43	
			<i>For Class 55 Rating, Add</i>	125.42	
40 05 19 00-1087	EA		6" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,118.57	218.76
			<i>For Class 52 Rating, Deduct</i>	-86.58	
			<i>For Class 54 Rating, Add</i>	59.03	
			<i>For Class 55 Rating, Add</i>	131.21	
40 05 19 00-1088	EA		6" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,157.04	221.22
			<i>For Class 52 Rating, Deduct</i>	-90.40	
			<i>For Class 54 Rating, Add</i>	61.64	
			<i>For Class 55 Rating, Add</i>	137.00	
40 05 19 00-1089	EA		6" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,195.50	223.68
			<i>For Class 52 Rating, Deduct</i>	-94.23	
			<i>For Class 54 Rating, Add</i>	64.25	
			<i>For Class 55 Rating, Add</i>	142.80	
40 05 19 00-1090	EA		6" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,233.97	226.13
			<i>For Class 52 Rating, Deduct</i>	-98.05	
			<i>For Class 54 Rating, Add</i>	66.85	
			<i>For Class 55 Rating, Add</i>	148.59	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1091 EA 6" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,272.43	228.59
<i>For Class 52 Rating, Deduct</i>	-101.87	
<i>For Class 54 Rating, Add</i>	69.46	
<i>For Class 55 Rating, Add</i>	154.38	
40 05 19 00-1092 EA 6" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,310.90	231.05
<i>For Class 52 Rating, Deduct</i>	-105.69	
<i>For Class 54 Rating, Add</i>	72.06	
<i>For Class 55 Rating, Add</i>	160.17	
40 05 19 00-1093 EA 6" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,349.37	233.51
<i>For Class 52 Rating, Deduct</i>	-109.51	
<i>For Class 54 Rating, Add</i>	74.67	
<i>For Class 55 Rating, Add</i>	165.96	
40 05 19 00-1094 EA 6" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,387.84	235.97
<i>For Class 52 Rating, Deduct</i>	-113.33	
<i>For Class 54 Rating, Add</i>	77.27	
<i>For Class 55 Rating, Add</i>	171.75	
40 05 19 00-1095 EA 6" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,426.30	238.43
<i>For Class 52 Rating, Deduct</i>	-117.16	
<i>For Class 54 Rating, Add</i>	79.88	
<i>For Class 55 Rating, Add</i>	177.54	
40 05 19 00-1096 EA 6" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,464.76	240.89
<i>For Class 52 Rating, Deduct</i>	-120.98	
<i>For Class 54 Rating, Add</i>	82.48	
<i>For Class 55 Rating, Add</i>	183.33	
40 05 19 00-1097 EA 6" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,503.24	243.33
<i>For Class 52 Rating, Deduct</i>	-124.80	
<i>For Class 54 Rating, Add</i>	85.09	
<i>For Class 55 Rating, Add</i>	189.13	
40 05 19 00-1098 EA 6" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,541.70	245.79
<i>For Class 52 Rating, Deduct</i>	-128.62	
<i>For Class 54 Rating, Add</i>	87.70	
<i>For Class 55 Rating, Add</i>	194.92	
40 05 19 00-1099 EA 6" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,580.17	248.26
<i>For Class 52 Rating, Deduct</i>	-132.44	
<i>For Class 54 Rating, Add</i>	90.30	
<i>For Class 55 Rating, Add</i>	200.71	
40 05 19 00-1100 EA 6" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,618.62	250.71
<i>For Class 52 Rating, Deduct</i>	-136.26	
<i>For Class 54 Rating, Add</i>	92.91	
<i>For Class 55 Rating, Add</i>	206.50	
40 05 19 00-1101 EA 6" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,657.09	253.17
<i>For Class 52 Rating, Deduct</i>	-140.09	
<i>For Class 54 Rating, Add</i>	95.51	
<i>For Class 55 Rating, Add</i>	212.29	
40 05 19 00-1102 EA 6" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,695.56	255.63
<i>For Class 52 Rating, Deduct</i>	-143.91	
<i>For Class 54 Rating, Add</i>	98.12	
<i>For Class 55 Rating, Add</i>	218.08	
40 05 19 00-1103 EA 6" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,734.03	258.09
<i>For Class 52 Rating, Deduct</i>	-147.73	
<i>For Class 54 Rating, Add</i>	100.72	
<i>For Class 55 Rating, Add</i>	223.88	
40 05 19 00-1104 EA 6" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,772.50	260.54
<i>For Class 52 Rating, Deduct</i>	-151.55	
<i>For Class 54 Rating, Add</i>	103.33	
<i>For Class 55 Rating, Add</i>	229.67	
40 05 19 00-1105 EA 6" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,810.96	263.00
<i>For Class 52 Rating, Deduct</i>	-155.37	
<i>For Class 54 Rating, Add</i>	105.94	
<i>For Class 55 Rating, Add</i>	235.46	
40 05 19 00-1106 EA 6" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,849.42	265.47
<i>For Class 52 Rating, Deduct</i>	-159.19	
<i>For Class 54 Rating, Add</i>	108.54	
<i>For Class 55 Rating, Add</i>	241.25	
40 05 19 00-1107 EA 6" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,887.89	267.92
<i>For Class 52 Rating, Deduct</i>	-163.01	
<i>For Class 54 Rating, Add</i>	111.15	
<i>For Class 55 Rating, Add</i>	247.04	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1108	EA	6" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,926.37	270.38
		<i>For Class 52 Rating, Deduct</i>	-166.84	
		<i>For Class 54 Rating, Add</i>	113.75	
		<i>For Class 55 Rating, Add</i>	252.83	
40 05 19 00-1109		8" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1110	EA	8" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	628.16	226.13
		<i>For Class 52 Rating, Deduct</i>	-31.41	
		<i>For Class 54 Rating, Add</i>	21.41	
		<i>For Class 55 Rating, Add</i>	47.60	
40 05 19 00-1111	EA	8" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	679.65	228.59
		<i>For Class 52 Rating, Deduct</i>	-36.66	
		<i>For Class 54 Rating, Add</i>	25.00	
		<i>For Class 55 Rating, Add</i>	55.56	
40 05 19 00-1112	EA	8" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	731.14	231.05
		<i>For Class 52 Rating, Deduct</i>	-41.92	
		<i>For Class 54 Rating, Add</i>	28.58	
		<i>For Class 55 Rating, Add</i>	63.52	
40 05 19 00-1113	EA	8" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	782.64	233.51
		<i>For Class 52 Rating, Deduct</i>	-47.17	
		<i>For Class 54 Rating, Add</i>	32.16	
		<i>For Class 55 Rating, Add</i>	71.49	
40 05 19 00-1114	EA	8" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	834.14	235.97
		<i>For Class 52 Rating, Deduct</i>	-52.43	
		<i>For Class 54 Rating, Add</i>	35.75	
		<i>For Class 55 Rating, Add</i>	79.45	
40 05 19 00-1115	EA	8" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	885.63	238.43
		<i>For Class 52 Rating, Deduct</i>	-57.68	
		<i>For Class 54 Rating, Add</i>	39.33	
		<i>For Class 55 Rating, Add</i>	87.41	
40 05 19 00-1116	EA	8" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	937.12	240.89
		<i>For Class 52 Rating, Deduct</i>	-62.94	
		<i>For Class 54 Rating, Add</i>	42.91	
		<i>For Class 55 Rating, Add</i>	95.38	
40 05 19 00-1117	EA	8" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	988.62	243.33
		<i>For Class 52 Rating, Deduct</i>	-68.19	
		<i>For Class 54 Rating, Add</i>	46.49	
		<i>For Class 55 Rating, Add</i>	103.34	
40 05 19 00-1118	EA	8" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,040.11	245.79
		<i>For Class 52 Rating, Deduct</i>	-73.45	
		<i>For Class 54 Rating, Add</i>	50.08	
		<i>For Class 55 Rating, Add</i>	111.30	
40 05 19 00-1119	EA	8" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,091.61	248.26
		<i>For Class 52 Rating, Deduct</i>	-78.70	
		<i>For Class 54 Rating, Add</i>	53.66	
		<i>For Class 55 Rating, Add</i>	119.27	
40 05 19 00-1120	EA	8" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,143.09	250.71
		<i>For Class 52 Rating, Deduct</i>	-83.96	
		<i>For Class 54 Rating, Add</i>	57.24	
		<i>For Class 55 Rating, Add</i>	127.23	
40 05 19 00-1121	EA	8" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,194.59	253.17
		<i>For Class 52 Rating, Deduct</i>	-89.21	
		<i>For Class 54 Rating, Add</i>	60.83	
		<i>For Class 55 Rating, Add</i>	135.19	
40 05 19 00-1122	EA	8" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,246.09	255.63
		<i>For Class 52 Rating, Deduct</i>	-94.46	
		<i>For Class 54 Rating, Add</i>	64.41	
		<i>For Class 55 Rating, Add</i>	143.16	
40 05 19 00-1123	EA	8" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,297.58	258.09
		<i>For Class 52 Rating, Deduct</i>	-99.72	
		<i>For Class 54 Rating, Add</i>	67.99	
		<i>For Class 55 Rating, Add</i>	151.12	
40 05 19 00-1124	EA	8" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,349.08	260.54
		<i>For Class 52 Rating, Deduct</i>	-104.97	
		<i>For Class 54 Rating, Add</i>	71.57	
		<i>For Class 55 Rating, Add</i>	159.08	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40 05
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1125 EA 8" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,400.57	263.00
<i>For Class 52 Rating, Deduct</i>	-110.23	
<i>For Class 54 Rating, Add</i>	75.16	
<i>For Class 55 Rating, Add</i>	167.05	
40 05 19 00-1126 EA 8" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,452.06	265.47
<i>For Class 52 Rating, Deduct</i>	-115.48	
<i>For Class 54 Rating, Add</i>	78.74	
<i>For Class 55 Rating, Add</i>	175.01	
40 05 19 00-1127 EA 8" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,503.56	267.92
<i>For Class 52 Rating, Deduct</i>	-120.74	
<i>For Class 54 Rating, Add</i>	82.32	
<i>For Class 55 Rating, Add</i>	182.97	
40 05 19 00-1128 EA 8" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,555.06	270.38
<i>For Class 52 Rating, Deduct</i>	-125.99	
<i>For Class 54 Rating, Add</i>	85.90	
<i>For Class 55 Rating, Add</i>	190.94	
40 05 19 00-1129 EA 8" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,606.54	272.83
<i>For Class 52 Rating, Deduct</i>	-131.25	
<i>For Class 54 Rating, Add</i>	89.49	
<i>For Class 55 Rating, Add</i>	198.90	
40 05 19 00-1130 EA 8" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,658.04	275.29
<i>For Class 52 Rating, Deduct</i>	-136.50	
<i>For Class 54 Rating, Add</i>	93.07	
<i>For Class 55 Rating, Add</i>	206.86	
40 05 19 00-1131 EA 8" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,709.54	277.74
<i>For Class 52 Rating, Deduct</i>	-141.76	
<i>For Class 54 Rating, Add</i>	96.65	
<i>For Class 55 Rating, Add</i>	214.83	
40 05 19 00-1132 EA 8" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,761.03	280.21
<i>For Class 52 Rating, Deduct</i>	-147.01	
<i>For Class 54 Rating, Add</i>	100.24	
<i>For Class 55 Rating, Add</i>	222.79	
40 05 19 00-1133 EA 8" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,812.53	282.67
<i>For Class 52 Rating, Deduct</i>	-152.27	
<i>For Class 54 Rating, Add</i>	103.82	
<i>For Class 55 Rating, Add</i>	230.75	
40 05 19 00-1134 EA 8" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,864.01	285.13
<i>For Class 52 Rating, Deduct</i>	-157.52	
<i>For Class 54 Rating, Add</i>	107.40	
<i>For Class 55 Rating, Add</i>	238.72	
40 05 19 00-1135 EA 8" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,915.51	287.58
<i>For Class 52 Rating, Deduct</i>	-162.78	
<i>For Class 54 Rating, Add</i>	110.98	
<i>For Class 55 Rating, Add</i>	246.68	
40 05 19 00-1136 EA 8" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,967.01	290.04
<i>For Class 52 Rating, Deduct</i>	-168.03	
<i>For Class 54 Rating, Add</i>	114.57	
<i>For Class 55 Rating, Add</i>	254.64	
40 05 19 00-1137 EA 8" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,018.50	292.50
<i>For Class 52 Rating, Deduct</i>	-173.29	
<i>For Class 54 Rating, Add</i>	118.15	
<i>For Class 55 Rating, Add</i>	262.61	
40 05 19 00-1138 EA 8" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,069.99	294.96
<i>For Class 52 Rating, Deduct</i>	-178.54	
<i>For Class 54 Rating, Add</i>	121.73	
<i>For Class 55 Rating, Add</i>	270.57	
40 05 19 00-1139 EA 8" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,121.49	297.42
<i>For Class 52 Rating, Deduct</i>	-183.79	
<i>For Class 54 Rating, Add</i>	125.31	
<i>For Class 55 Rating, Add</i>	278.53	
40 05 19 00-1140 EA 8" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,172.98	299.88
<i>For Class 52 Rating, Deduct</i>	-189.05	
<i>For Class 54 Rating, Add</i>	128.90	
<i>For Class 55 Rating, Add</i>	286.50	
40 05 19 00-1141 EA 8" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,224.48	302.33
<i>For Class 52 Rating, Deduct</i>	-194.30	
<i>For Class 54 Rating, Add</i>	132.48	
<i>For Class 55 Rating, Add</i>	294.46	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1142	EA		8" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,275.98	304.78
			For Class 52 Rating, Deduct	-199.56	
			For Class 54 Rating, Add	136.06	
			For Class 55 Rating, Add	302.42	
40 05 19 00-1143	EA		8" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,327.46	307.24
			For Class 52 Rating, Deduct	-204.81	
			For Class 54 Rating, Add	139.65	
			For Class 55 Rating, Add	310.39	
40 05 19 00-1144	EA		8" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,378.96	309.71
			For Class 52 Rating, Deduct	-210.07	
			For Class 54 Rating, Add	143.23	
			For Class 55 Rating, Add	318.35	
40 05 19 00-1145	EA		8" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,430.45	312.16
			For Class 52 Rating, Deduct	-215.32	
			For Class 54 Rating, Add	146.81	
			For Class 55 Rating, Add	326.31	
40 05 19 00-1146	EA		8" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,481.95	314.62
			For Class 52 Rating, Deduct	-220.58	
			For Class 54 Rating, Add	150.39	
			For Class 55 Rating, Add	334.28	
40 05 19 00-1147	EA		8" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,533.44	317.08
			For Class 52 Rating, Deduct	-225.83	
			For Class 54 Rating, Add	153.98	
			For Class 55 Rating, Add	342.24	
40 05 19 00-1148	EA		8" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,584.93	319.54
			For Class 52 Rating, Deduct	-231.09	
			For Class 54 Rating, Add	157.56	
			For Class 55 Rating, Add	350.20	
40 05 19 00-1149			10" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1150	EA		10" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	785.16	275.29
			For Class 52 Rating, Deduct	-40.49	
			For Class 54 Rating, Add	27.60	
			For Class 55 Rating, Add	61.35	
40 05 19 00-1151	EA		10" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	851.86	277.74
			For Class 52 Rating, Deduct	-47.41	
			For Class 54 Rating, Add	32.33	
			For Class 55 Rating, Add	71.85	
40 05 19 00-1152	EA		10" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	918.54	280.21
			For Class 52 Rating, Deduct	-54.34	
			For Class 54 Rating, Add	37.05	
			For Class 55 Rating, Add	82.35	
40 05 19 00-1153	EA		10" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	985.24	282.67
			For Class 52 Rating, Deduct	-61.26	
			For Class 54 Rating, Add	41.77	
			For Class 55 Rating, Add	92.84	
40 05 19 00-1154	EA		10" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,051.92	285.13
			For Class 52 Rating, Deduct	-68.19	
			For Class 54 Rating, Add	46.49	
			For Class 55 Rating, Add	103.34	
40 05 19 00-1155	EA		10" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,118.62	287.58
			For Class 52 Rating, Deduct	-75.12	
			For Class 54 Rating, Add	51.22	
			For Class 55 Rating, Add	113.84	
40 05 19 00-1156	EA		10" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,185.32	290.04
			For Class 52 Rating, Deduct	-82.04	
			For Class 54 Rating, Add	55.94	
			For Class 55 Rating, Add	124.33	
40 05 19 00-1157	EA		10" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,252.01	292.50
			For Class 52 Rating, Deduct	-88.97	
			For Class 54 Rating, Add	60.66	
			For Class 55 Rating, Add	134.83	
40 05 19 00-1158	EA		10" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,318.70	294.96
			For Class 52 Rating, Deduct	-95.90	
			For Class 54 Rating, Add	65.39	
			For Class 55 Rating, Add	145.33	



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

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	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1159	EA			10" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,385.40	297.42
				For Class 52 Rating, Deduct	-102.82	
				For Class 54 Rating, Add	70.11	
				For Class 55 Rating, Add	155.83	
40 05 19 00-1160	EA			10" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,452.09	299.88
				For Class 52 Rating, Deduct	-109.75	
				For Class 54 Rating, Add	74.83	
				For Class 55 Rating, Add	166.32	
40 05 19 00-1161	EA			10" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,518.79	302.33
				For Class 52 Rating, Deduct	-116.68	
				For Class 54 Rating, Add	79.55	
				For Class 55 Rating, Add	176.82	
40 05 19 00-1162	EA			10" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,585.49	304.78
				For Class 52 Rating, Deduct	-123.60	
				For Class 54 Rating, Add	84.28	
				For Class 55 Rating, Add	187.32	
40 05 19 00-1163	EA			10" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,652.17	307.24
				For Class 52 Rating, Deduct	-130.53	
				For Class 54 Rating, Add	89.00	
				For Class 55 Rating, Add	197.81	
40 05 19 00-1164	EA			10" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,718.87	309.71
				For Class 52 Rating, Deduct	-137.46	
				For Class 54 Rating, Add	93.72	
				For Class 55 Rating, Add	208.31	
40 05 19 00-1165	EA			10" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,785.56	312.16
				For Class 52 Rating, Deduct	-144.38	
				For Class 54 Rating, Add	98.44	
				For Class 55 Rating, Add	218.81	
40 05 19 00-1166	EA			10" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,852.26	314.62
				For Class 52 Rating, Deduct	-151.31	
				For Class 54 Rating, Add	103.17	
				For Class 55 Rating, Add	229.31	
40 05 19 00-1167	EA			10" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,918.95	317.08
				For Class 52 Rating, Deduct	-158.24	
				For Class 54 Rating, Add	107.89	
				For Class 55 Rating, Add	239.80	
40 05 19 00-1168	EA			10" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,985.64	319.54
				For Class 52 Rating, Deduct	-165.17	
				For Class 54 Rating, Add	112.61	
				For Class 55 Rating, Add	250.30	
40 05 19 00-1169	EA			10" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,052.33	321.99
				For Class 52 Rating, Deduct	-172.09	
				For Class 54 Rating, Add	117.33	
				For Class 55 Rating, Add	260.80	
40 05 19 00-1170	EA			10" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,119.03	324.46
				For Class 52 Rating, Deduct	-179.02	
				For Class 54 Rating, Add	122.06	
				For Class 55 Rating, Add	271.29	
40 05 19 00-1171	EA			10" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,185.72	326.92
				For Class 52 Rating, Deduct	-185.94	
				For Class 54 Rating, Add	126.78	
				For Class 55 Rating, Add	281.79	
40 05 19 00-1172	EA			10" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,252.41	329.36
				For Class 52 Rating, Deduct	-192.87	
				For Class 54 Rating, Add	131.50	
				For Class 55 Rating, Add	292.29	
40 05 19 00-1173	EA			10" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,319.11	331.82
				For Class 52 Rating, Deduct	-199.80	
				For Class 54 Rating, Add	136.23	
				For Class 55 Rating, Add	302.78	
40 05 19 00-1174	EA			10" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,385.80	334.28
				For Class 52 Rating, Deduct	-206.72	
				For Class 54 Rating, Add	140.95	
				For Class 55 Rating, Add	313.28	
40 05 19 00-1175	EA			10" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,452.50	336.74
				For Class 52 Rating, Deduct	-213.65	
				For Class 54 Rating, Add	145.67	
				For Class 55 Rating, Add	323.78	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1176	EA		10" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,519.20	339.20
			<i>For Class 52 Rating, Deduct</i>	-220.58	
			<i>For Class 54 Rating, Add</i>	150.39	
			<i>For Class 55 Rating, Add</i>	334.28	
40 05 19 00-1177	EA		10" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,585.88	341.66
			<i>For Class 52 Rating, Deduct</i>	-227.50	
			<i>For Class 54 Rating, Add</i>	155.12	
			<i>For Class 55 Rating, Add</i>	344.77	
40 05 19 00-1178	EA		10" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,652.58	344.12
			<i>For Class 52 Rating, Deduct</i>	-234.43	
			<i>For Class 54 Rating, Add</i>	159.84	
			<i>For Class 55 Rating, Add</i>	355.27	
40 05 19 00-1179	EA		10" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,719.27	346.58
			<i>For Class 52 Rating, Deduct</i>	-241.36	
			<i>For Class 54 Rating, Add</i>	164.56	
			<i>For Class 55 Rating, Add</i>	365.77	
40 05 19 00-1180	EA		10" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,785.97	349.03
			<i>For Class 52 Rating, Deduct</i>	-248.28	
			<i>For Class 54 Rating, Add</i>	169.28	
			<i>For Class 55 Rating, Add</i>	376.26	
40 05 19 00-1181	EA		10" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,852.66	351.49
			<i>For Class 52 Rating, Deduct</i>	-255.21	
			<i>For Class 54 Rating, Add</i>	174.01	
			<i>For Class 55 Rating, Add</i>	386.76	
40 05 19 00-1182	EA		10" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,919.35	353.96
			<i>For Class 52 Rating, Deduct</i>	-262.14	
			<i>For Class 54 Rating, Add</i>	178.73	
			<i>For Class 55 Rating, Add</i>	397.26	
40 05 19 00-1183	EA		10" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,986.05	356.40
			<i>For Class 52 Rating, Deduct</i>	-269.06	
			<i>For Class 54 Rating, Add</i>	183.45	
			<i>For Class 55 Rating, Add</i>	407.75	
40 05 19 00-1184	EA		10" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,052.75	358.86
			<i>For Class 52 Rating, Deduct</i>	-275.99	
			<i>For Class 54 Rating, Add</i>	188.18	
			<i>For Class 55 Rating, Add</i>	418.25	
40 05 19 00-1185	EA		10" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,119.44	361.32
			<i>For Class 52 Rating, Deduct</i>	-282.92	
			<i>For Class 54 Rating, Add</i>	192.90	
			<i>For Class 55 Rating, Add</i>	428.75	
40 05 19 00-1186	EA		10" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,186.13	363.78
			<i>For Class 52 Rating, Deduct</i>	-289.84	
			<i>For Class 54 Rating, Add</i>	197.62	
			<i>For Class 55 Rating, Add</i>	439.25	
40 05 19 00-1187	EA		10" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,252.82	366.23
			<i>For Class 52 Rating, Deduct</i>	-296.77	
			<i>For Class 54 Rating, Add</i>	202.34	
			<i>For Class 55 Rating, Add</i>	449.74	
40 05 19 00-1188	EA		10" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,319.51	368.70
			<i>For Class 52 Rating, Deduct</i>	-303.70	
			<i>For Class 54 Rating, Add</i>	207.07	
			<i>For Class 55 Rating, Add</i>	460.24	
40 05 19 00-1189			12" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1190	EA		12" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,012.12	344.12
			<i>For Class 52 Rating, Deduct</i>	-53.98	
			<i>For Class 54 Rating, Add</i>	36.80	
			<i>For Class 55 Rating, Add</i>	81.80	
40 05 19 00-1191	EA		12" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,095.09	346.58
			<i>For Class 52 Rating, Deduct</i>	-62.70	
			<i>For Class 54 Rating, Add</i>	42.75	
			<i>For Class 55 Rating, Add</i>	95.02	
40 05 19 00-1192	EA		12" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,178.08	349.03
			<i>For Class 52 Rating, Deduct</i>	-71.42	
			<i>For Class 54 Rating, Add</i>	48.69	
			<i>For Class 55 Rating, Add</i>	108.23	



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1193 EA 12" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,261.05	351.49
<i>For Class 52 Rating, Deduct</i>	-80.13	
<i>For Class 54 Rating, Add</i>	54.64	
<i>For Class 55 Rating, Add</i>	121.44	
40 05 19 00-1194 EA 12" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,344.03	353.96
<i>For Class 52 Rating, Deduct</i>	-88.85	
<i>For Class 54 Rating, Add</i>	60.58	
<i>For Class 55 Rating, Add</i>	134.65	
40 05 19 00-1195 EA 12" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,427.01	356.40
<i>For Class 52 Rating, Deduct</i>	-97.57	
<i>For Class 54 Rating, Add</i>	66.53	
<i>For Class 55 Rating, Add</i>	147.86	
40 05 19 00-1196 EA 12" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,510.00	358.86
<i>For Class 52 Rating, Deduct</i>	-106.29	
<i>For Class 54 Rating, Add</i>	72.47	
<i>For Class 55 Rating, Add</i>	161.08	
40 05 19 00-1197 EA 12" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,592.97	361.32
<i>For Class 52 Rating, Deduct</i>	-115.01	
<i>For Class 54 Rating, Add</i>	78.41	
<i>For Class 55 Rating, Add</i>	174.29	
40 05 19 00-1198 EA 12" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,675.94	363.78
<i>For Class 52 Rating, Deduct</i>	-123.72	
<i>For Class 54 Rating, Add</i>	84.36	
<i>For Class 55 Rating, Add</i>	187.50	
40 05 19 00-1199 EA 12" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,758.93	366.23
<i>For Class 52 Rating, Deduct</i>	-132.44	
<i>For Class 54 Rating, Add</i>	90.30	
<i>For Class 55 Rating, Add</i>	200.71	
40 05 19 00-1200 EA 12" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,841.90	368.70
<i>For Class 52 Rating, Deduct</i>	-141.16	
<i>For Class 54 Rating, Add</i>	96.25	
<i>For Class 55 Rating, Add</i>	213.92	
40 05 19 00-1201 EA 12" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,924.89	371.16
<i>For Class 52 Rating, Deduct</i>	-149.88	
<i>For Class 54 Rating, Add</i>	102.19	
<i>For Class 55 Rating, Add</i>	227.13	
40 05 19 00-1202 EA 12" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,007.86	373.61
<i>For Class 52 Rating, Deduct</i>	-158.60	
<i>For Class 54 Rating, Add</i>	108.13	
<i>For Class 55 Rating, Add</i>	240.34	
40 05 19 00-1203 EA 12" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,090.84	376.07
<i>For Class 52 Rating, Deduct</i>	-167.31	
<i>For Class 54 Rating, Add</i>	114.08	
<i>For Class 55 Rating, Add</i>	253.56	
40 05 19 00-1204 EA 12" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,173.82	378.53
<i>For Class 52 Rating, Deduct</i>	-176.03	
<i>For Class 54 Rating, Add</i>	120.02	
<i>For Class 55 Rating, Add</i>	266.77	
40 05 19 00-1205 EA 12" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,256.80	380.99
<i>For Class 52 Rating, Deduct</i>	-184.75	
<i>For Class 54 Rating, Add</i>	125.97	
<i>For Class 55 Rating, Add</i>	279.98	
40 05 19 00-1206 EA 12" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,339.78	383.45
<i>For Class 52 Rating, Deduct</i>	-193.47	
<i>For Class 54 Rating, Add</i>	131.91	
<i>For Class 55 Rating, Add</i>	293.19	
40 05 19 00-1207 EA 12" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,422.76	385.91
<i>For Class 52 Rating, Deduct</i>	-202.19	
<i>For Class 54 Rating, Add</i>	137.85	
<i>For Class 55 Rating, Add</i>	306.40	
40 05 19 00-1208 EA 12" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,505.73	388.36
<i>For Class 52 Rating, Deduct</i>	-210.90	
<i>For Class 54 Rating, Add</i>	143.80	
<i>For Class 55 Rating, Add</i>	319.62	
40 05 19 00-1209 EA 12" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,588.72	390.81
<i>For Class 52 Rating, Deduct</i>	-219.62	
<i>For Class 54 Rating, Add</i>	149.74	
<i>For Class 55 Rating, Add</i>	332.83	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1210	EA		12" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,671.70	393.27
			<i>For Class 52 Rating, Deduct</i>	-228.34	
			<i>For Class 54 Rating, Add</i>	155.69	
			<i>For Class 55 Rating, Add</i>	346.04	
40 05 19 00-1211	EA		12" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,754.66	395.73
			<i>For Class 52 Rating, Deduct</i>	-237.06	
			<i>For Class 54 Rating, Add</i>	161.63	
			<i>For Class 55 Rating, Add</i>	359.25	
40 05 19 00-1212	EA		12" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,837.65	398.19
			<i>For Class 52 Rating, Deduct</i>	-245.78	
			<i>For Class 54 Rating, Add</i>	167.57	
			<i>For Class 55 Rating, Add</i>	372.46	
40 05 19 00-1213	EA		12" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,920.63	400.65
			<i>For Class 52 Rating, Deduct</i>	-254.49	
			<i>For Class 54 Rating, Add</i>	173.52	
			<i>For Class 55 Rating, Add</i>	385.67	
40 05 19 00-1214	EA		12" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,003.61	403.11
			<i>For Class 52 Rating, Deduct</i>	-263.21	
			<i>For Class 54 Rating, Add</i>	179.46	
			<i>For Class 55 Rating, Add</i>	398.89	
40 05 19 00-1215	EA		12" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,086.59	405.57
			<i>For Class 52 Rating, Deduct</i>	-271.93	
			<i>For Class 54 Rating, Add</i>	185.41	
			<i>For Class 55 Rating, Add</i>	412.10	
40 05 19 00-1216	EA		12" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,169.56	408.03
			<i>For Class 52 Rating, Deduct</i>	-280.65	
			<i>For Class 54 Rating, Add</i>	191.35	
			<i>For Class 55 Rating, Add</i>	425.31	
40 05 19 00-1217	EA		12" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,252.54	410.48
			<i>For Class 52 Rating, Deduct</i>	-289.37	
			<i>For Class 54 Rating, Add</i>	197.30	
			<i>For Class 55 Rating, Add</i>	438.52	
40 05 19 00-1218	EA		12" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,335.53	412.94
			<i>For Class 52 Rating, Deduct</i>	-298.08	
			<i>For Class 54 Rating, Add</i>	203.24	
			<i>For Class 55 Rating, Add</i>	451.73	
40 05 19 00-1219	EA		12" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,418.50	415.41
			<i>For Class 52 Rating, Deduct</i>	-306.80	
			<i>For Class 54 Rating, Add</i>	209.18	
			<i>For Class 55 Rating, Add</i>	464.94	
40 05 19 00-1220	EA		12" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,501.48	417.85
			<i>For Class 52 Rating, Deduct</i>	-315.52	
			<i>For Class 54 Rating, Add</i>	215.13	
			<i>For Class 55 Rating, Add</i>	478.16	
40 05 19 00-1221	EA		12" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,584.46	420.31
			<i>For Class 52 Rating, Deduct</i>	-324.24	
			<i>For Class 54 Rating, Add</i>	221.07	
			<i>For Class 55 Rating, Add</i>	491.37	
40 05 19 00-1222	EA		12" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,667.44	422.77
			<i>For Class 52 Rating, Deduct</i>	-332.96	
			<i>For Class 54 Rating, Add</i>	227.02	
			<i>For Class 55 Rating, Add</i>	504.58	
40 05 19 00-1223	EA		12" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,750.42	425.23
			<i>For Class 52 Rating, Deduct</i>	-341.67	
			<i>For Class 54 Rating, Add</i>	232.96	
			<i>For Class 55 Rating, Add</i>	517.79	
40 05 19 00-1224	EA		12" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,833.41	427.68
			<i>For Class 52 Rating, Deduct</i>	-350.39	
			<i>For Class 54 Rating, Add</i>	238.90	
			<i>For Class 55 Rating, Add</i>	531.00	
40 05 19 00-1225	EA		12" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,916.37	430.15
			<i>For Class 52 Rating, Deduct</i>	-359.11	
			<i>For Class 54 Rating, Add</i>	244.85	
			<i>For Class 55 Rating, Add</i>	544.22	
40 05 19 00-1226	EA		12" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,999.35	432.61
			<i>For Class 52 Rating, Deduct</i>	-367.83	
			<i>For Class 54 Rating, Add</i>	250.79	
			<i>For Class 55 Rating, Add</i>	557.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1227 EA 12" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,082.34	435.06
<i>For Class 52 Rating, Deduct</i>	-376.55	
<i>For Class 54 Rating, Add</i>	256.74	
<i>For Class 55 Rating, Add</i>	570.64	
40 05 19 00-1228 EA 12" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,165.31	437.52
<i>For Class 52 Rating, Deduct</i>	-385.26	
<i>For Class 54 Rating, Add</i>	262.68	
<i>For Class 55 Rating, Add</i>	583.85	
40 05 19 00-1229 14" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
<small>(40 05 19 00-1028)</small>		
40 05 19 00-1230 EA 14" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,325.93	412.94
<i>For Class 52 Rating, Deduct</i>	-77.03	
<i>For Class 54 Rating, Add</i>	52.52	
<i>For Class 55 Rating, Add</i>	116.73	
40 05 19 00-1231 EA 14" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,426.28	415.41
<i>For Class 52 Rating, Deduct</i>	-87.66	
<i>For Class 54 Rating, Add</i>	59.77	
<i>For Class 55 Rating, Add</i>	132.84	
40 05 19 00-1232 EA 14" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,526.62	417.85
<i>For Class 52 Rating, Deduct</i>	-98.29	
<i>For Class 54 Rating, Add</i>	67.01	
<i>For Class 55 Rating, Add</i>	148.95	
40 05 19 00-1233 EA 14" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,626.98	420.31
<i>For Class 52 Rating, Deduct</i>	-108.92	
<i>For Class 54 Rating, Add</i>	74.26	
<i>For Class 55 Rating, Add</i>	165.06	
40 05 19 00-1234 EA 14" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,727.33	422.77
<i>For Class 52 Rating, Deduct</i>	-119.54	
<i>For Class 54 Rating, Add</i>	81.51	
<i>For Class 55 Rating, Add</i>	181.16	
40 05 19 00-1235 EA 14" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,827.68	425.23
<i>For Class 52 Rating, Deduct</i>	-130.17	
<i>For Class 54 Rating, Add</i>	88.75	
<i>For Class 55 Rating, Add</i>	197.27	
40 05 19 00-1236 EA 14" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,928.04	427.68
<i>For Class 52 Rating, Deduct</i>	-140.80	
<i>For Class 54 Rating, Add</i>	96.00	
<i>For Class 55 Rating, Add</i>	213.38	
40 05 19 00-1237 EA 14" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,028.37	430.15
<i>For Class 52 Rating, Deduct</i>	-151.43	
<i>For Class 54 Rating, Add</i>	103.25	
<i>For Class 55 Rating, Add</i>	229.49	
40 05 19 00-1238 EA 14" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,128.73	432.61
<i>For Class 52 Rating, Deduct</i>	-162.06	
<i>For Class 54 Rating, Add</i>	110.50	
<i>For Class 55 Rating, Add</i>	245.59	
40 05 19 00-1239 EA 14" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,229.08	435.06
<i>For Class 52 Rating, Deduct</i>	-172.69	
<i>For Class 54 Rating, Add</i>	117.74	
<i>For Class 55 Rating, Add</i>	261.70	
40 05 19 00-1240 EA 14" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,329.43	437.52
<i>For Class 52 Rating, Deduct</i>	-183.32	
<i>For Class 54 Rating, Add</i>	124.99	
<i>For Class 55 Rating, Add</i>	277.81	
40 05 19 00-1241 EA 14" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,429.77	439.98
<i>For Class 52 Rating, Deduct</i>	-193.95	
<i>For Class 54 Rating, Add</i>	132.24	
<i>For Class 55 Rating, Add</i>	293.92	
40 05 19 00-1242 EA 14" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,530.12	442.44
<i>For Class 52 Rating, Deduct</i>	-204.57	
<i>For Class 54 Rating, Add</i>	139.48	
<i>For Class 55 Rating, Add</i>	310.02	
40 05 19 00-1243 EA 14" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,630.48	444.89
<i>For Class 52 Rating, Deduct</i>	-215.20	
<i>For Class 54 Rating, Add</i>	146.73	
<i>For Class 55 Rating, Add</i>	326.13	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1244	EA		14" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,730.83	447.35
			<i>For Class 52 Rating, Deduct</i>	-225.83	
			<i>For Class 54 Rating, Add</i>	153.98	
			<i>For Class 55 Rating, Add</i>	342.24	
40 05 19 00-1245	EA		14" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,831.18	449.81
			<i>For Class 52 Rating, Deduct</i>	-236.46	
			<i>For Class 54 Rating, Add</i>	161.22	
			<i>For Class 55 Rating, Add</i>	358.35	
40 05 19 00-1246	EA		14" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,931.52	452.26
			<i>For Class 52 Rating, Deduct</i>	-247.09	
			<i>For Class 54 Rating, Add</i>	168.47	
			<i>For Class 55 Rating, Add</i>	374.45	
40 05 19 00-1247	EA		14" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,031.88	454.72
			<i>For Class 52 Rating, Deduct</i>	-257.72	
			<i>For Class 54 Rating, Add</i>	175.72	
			<i>For Class 55 Rating, Add</i>	390.56	
40 05 19 00-1248	EA		14" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,132.22	457.18
			<i>For Class 52 Rating, Deduct</i>	-268.35	
			<i>For Class 54 Rating, Add</i>	182.96	
			<i>For Class 55 Rating, Add</i>	406.67	
40 05 19 00-1249	EA		14" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,232.58	459.65
			<i>For Class 52 Rating, Deduct</i>	-278.98	
			<i>For Class 54 Rating, Add</i>	190.21	
			<i>For Class 55 Rating, Add</i>	422.78	
40 05 19 00-1250	EA		14" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,332.92	462.10
			<i>For Class 52 Rating, Deduct</i>	-289.60	
			<i>For Class 54 Rating, Add</i>	197.46	
			<i>For Class 55 Rating, Add</i>	438.88	
40 05 19 00-1251	EA		14" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,433.27	464.56
			<i>For Class 52 Rating, Deduct</i>	-300.23	
			<i>For Class 54 Rating, Add</i>	204.71	
			<i>For Class 55 Rating, Add</i>	454.99	
40 05 19 00-1252	EA		14" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,533.62	467.02
			<i>For Class 52 Rating, Deduct</i>	-310.86	
			<i>For Class 54 Rating, Add</i>	211.95	
			<i>For Class 55 Rating, Add</i>	471.10	
40 05 19 00-1253	EA		14" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,633.98	469.48
			<i>For Class 52 Rating, Deduct</i>	-321.49	
			<i>For Class 54 Rating, Add</i>	219.20	
			<i>For Class 55 Rating, Add</i>	487.21	
40 05 19 00-1254	EA		14" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,734.33	471.92
			<i>For Class 52 Rating, Deduct</i>	-332.12	
			<i>For Class 54 Rating, Add</i>	226.45	
			<i>For Class 55 Rating, Add</i>	503.31	
40 05 19 00-1255	EA		14" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,834.67	474.39
			<i>For Class 52 Rating, Deduct</i>	-342.75	
			<i>For Class 54 Rating, Add</i>	233.69	
			<i>For Class 55 Rating, Add</i>	519.42	
40 05 19 00-1256	EA		14" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,935.02	476.85
			<i>For Class 52 Rating, Deduct</i>	-353.38	
			<i>For Class 54 Rating, Add</i>	240.94	
			<i>For Class 55 Rating, Add</i>	535.53	
40 05 19 00-1257	EA		14" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,035.37	479.30
			<i>For Class 52 Rating, Deduct</i>	-364.01	
			<i>For Class 54 Rating, Add</i>	248.19	
			<i>For Class 55 Rating, Add</i>	551.64	
40 05 19 00-1258	EA		14" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,135.73	481.76
			<i>For Class 52 Rating, Deduct</i>	-374.64	
			<i>For Class 54 Rating, Add</i>	255.43	
			<i>For Class 55 Rating, Add</i>	567.74	
40 05 19 00-1259	EA		14" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,236.06	484.22
			<i>For Class 52 Rating, Deduct</i>	-385.26	
			<i>For Class 54 Rating, Add</i>	262.68	
			<i>For Class 55 Rating, Add</i>	583.85	
40 05 19 00-1260	EA		14" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,336.42	486.68
			<i>For Class 52 Rating, Deduct</i>	-395.89	
			<i>For Class 54 Rating, Add</i>	269.93	
			<i>For Class 55 Rating, Add</i>	599.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1261 EA 14" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,436.77	489.14
For Class 52 Rating, Deduct	-406.52	
For Class 54 Rating, Add	277.17	
For Class 55 Rating, Add	616.06	
40 05 19 00-1262 EA 14" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,537.12	491.60
For Class 52 Rating, Deduct	-417.15	
For Class 54 Rating, Add	284.42	
For Class 55 Rating, Add	632.17	
40 05 19 00-1263 EA 14" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,637.48	494.06
For Class 52 Rating, Deduct	-427.78	
For Class 54 Rating, Add	291.67	
For Class 55 Rating, Add	648.28	
40 05 19 00-1264 EA 14" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,737.82	496.51
For Class 52 Rating, Deduct	-438.41	
For Class 54 Rating, Add	298.91	
For Class 55 Rating, Add	664.39	
40 05 19 00-1265 EA 14" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,838.17	498.97
For Class 52 Rating, Deduct	-449.04	
For Class 54 Rating, Add	306.16	
For Class 55 Rating, Add	680.50	
40 05 19 00-1266 EA 14" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,938.52	501.42
For Class 52 Rating, Deduct	-459.67	
For Class 54 Rating, Add	313.41	
For Class 55 Rating, Add	696.60	
40 05 19 00-1267 EA 14" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,038.88	503.88
For Class 52 Rating, Deduct	-470.30	
For Class 54 Rating, Add	320.66	
For Class 55 Rating, Add	712.71	
40 05 19 00-1268 16" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
<small>(40 05 19 00-1028)</small>		
40 05 19 00-1269 EA 16" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,543.42	471.92
For Class 52 Rating, Deduct	-91.12	
For Class 54 Rating, Add	62.13	
For Class 55 Rating, Add	138.09	
40 05 19 00-1270 EA 16" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,660.05	474.39
For Class 52 Rating, Deduct	-103.54	
For Class 54 Rating, Add	70.60	
For Class 55 Rating, Add	156.91	
40 05 19 00-1271 EA 16" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,776.69	476.85
For Class 52 Rating, Deduct	-115.96	
For Class 54 Rating, Add	79.07	
For Class 55 Rating, Add	175.74	
40 05 19 00-1272 EA 16" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,893.33	479.30
For Class 52 Rating, Deduct	-128.38	
For Class 54 Rating, Add	87.53	
For Class 55 Rating, Add	194.56	
40 05 19 00-1273 EA 16" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,009.97	481.76
For Class 52 Rating, Deduct	-140.80	
For Class 54 Rating, Add	96.00	
For Class 55 Rating, Add	213.38	
40 05 19 00-1274 EA 16" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,126.59	484.22
For Class 52 Rating, Deduct	-153.22	
For Class 54 Rating, Add	104.47	
For Class 55 Rating, Add	232.20	
40 05 19 00-1275 EA 16" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,243.23	486.68
For Class 52 Rating, Deduct	-165.64	
For Class 54 Rating, Add	112.94	
For Class 55 Rating, Add	251.02	
40 05 19 00-1276 EA 16" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,359.87	489.14
For Class 52 Rating, Deduct	-178.06	
For Class 54 Rating, Add	121.41	
For Class 55 Rating, Add	269.85	
40 05 19 00-1277 EA 16" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,476.50	491.60
For Class 52 Rating, Deduct	-190.48	
For Class 54 Rating, Add	129.87	
For Class 55 Rating, Add	288.67	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1278	EA		16" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,593.14	494.06
			For Class 52 Rating, Deduct	-202.90	
			For Class 54 Rating, Add	138.34	
			For Class 55 Rating, Add	307.49	
40 05 19 00-1279	EA		16" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,709.77	496.51
			For Class 52 Rating, Deduct	-215.32	
			For Class 54 Rating, Add	146.81	
			For Class 55 Rating, Add	326.31	
40 05 19 00-1280	EA		16" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,826.40	498.97
			For Class 52 Rating, Deduct	-227.74	
			For Class 54 Rating, Add	155.28	
			For Class 55 Rating, Add	345.13	
40 05 19 00-1281	EA		16" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,943.04	501.42
			For Class 52 Rating, Deduct	-240.16	
			For Class 54 Rating, Add	163.75	
			For Class 55 Rating, Add	363.96	
40 05 19 00-1282	EA		16" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,059.68	503.88
			For Class 52 Rating, Deduct	-252.58	
			For Class 54 Rating, Add	172.22	
			For Class 55 Rating, Add	382.78	
40 05 19 00-1283	EA		16" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,176.30	506.34
			For Class 52 Rating, Deduct	-265.00	
			For Class 54 Rating, Add	180.68	
			For Class 55 Rating, Add	401.60	
40 05 19 00-1284	EA		16" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,292.94	508.80
			For Class 52 Rating, Deduct	-277.42	
			For Class 54 Rating, Add	189.15	
			For Class 55 Rating, Add	420.42	
40 05 19 00-1285	EA		16" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,409.58	511.26
			For Class 52 Rating, Deduct	-289.84	
			For Class 54 Rating, Add	197.62	
			For Class 55 Rating, Add	439.25	
40 05 19 00-1286	EA		16" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,526.22	513.71
			For Class 52 Rating, Deduct	-302.26	
			For Class 54 Rating, Add	206.09	
			For Class 55 Rating, Add	458.07	
40 05 19 00-1287	EA		16" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,642.86	516.17
			For Class 52 Rating, Deduct	-314.68	
			For Class 54 Rating, Add	214.56	
			For Class 55 Rating, Add	476.89	
40 05 19 00-1288	EA		16" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,759.48	518.63
			For Class 52 Rating, Deduct	-327.10	
			For Class 54 Rating, Add	223.03	
			For Class 55 Rating, Add	495.71	
40 05 19 00-1289	EA		16" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,876.12	521.10
			For Class 52 Rating, Deduct	-339.52	
			For Class 54 Rating, Add	231.49	
			For Class 55 Rating, Add	514.53	
40 05 19 00-1290	EA		16" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,992.76	523.55
			For Class 52 Rating, Deduct	-351.95	
			For Class 54 Rating, Add	239.96	
			For Class 55 Rating, Add	533.36	
40 05 19 00-1291	EA		16" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,109.39	526.01
			For Class 52 Rating, Deduct	-364.37	
			For Class 54 Rating, Add	248.43	
			For Class 55 Rating, Add	552.18	
40 05 19 00-1292	EA		16" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,226.02	528.47
			For Class 52 Rating, Deduct	-376.79	
			For Class 54 Rating, Add	256.90	
			For Class 55 Rating, Add	571.00	
40 05 19 00-1293	EA		16" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,342.66	530.93
			For Class 52 Rating, Deduct	-389.21	
			For Class 54 Rating, Add	265.37	
			For Class 55 Rating, Add	589.82	
40 05 19 00-1294	EA		16" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,459.29	533.37
			For Class 52 Rating, Deduct	-401.63	
			For Class 54 Rating, Add	273.84	
			For Class 55 Rating, Add	608.65	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1295 EA 16" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,575.93	535.84
<i>For Class 52 Rating, Deduct</i>	-414.05	
<i>For Class 54 Rating, Add</i>	282.30	
<i>For Class 55 Rating, Add</i>	627.47	
40 05 19 00-1296 EA 16" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,692.57	538.30
<i>For Class 52 Rating, Deduct</i>	-426.47	
<i>For Class 54 Rating, Add</i>	290.77	
<i>For Class 55 Rating, Add</i>	646.29	
40 05 19 00-1297 EA 16" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,809.19	540.75
<i>For Class 52 Rating, Deduct</i>	-438.89	
<i>For Class 54 Rating, Add</i>	299.24	
<i>For Class 55 Rating, Add</i>	665.11	
40 05 19 00-1298 EA 16" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,925.83	543.21
<i>For Class 52 Rating, Deduct</i>	-451.31	
<i>For Class 54 Rating, Add</i>	307.71	
<i>For Class 55 Rating, Add</i>	683.93	
40 05 19 00-1299 EA 16" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,042.47	545.67
<i>For Class 52 Rating, Deduct</i>	-463.73	
<i>For Class 54 Rating, Add</i>	316.18	
<i>For Class 55 Rating, Add</i>	702.76	
40 05 19 00-1300 EA 16" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,159.11	548.13
<i>For Class 52 Rating, Deduct</i>	-476.15	
<i>For Class 54 Rating, Add</i>	324.65	
<i>For Class 55 Rating, Add</i>	721.58	
40 05 19 00-1301 EA 16" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,275.74	550.59
<i>For Class 52 Rating, Deduct</i>	-488.57	
<i>For Class 54 Rating, Add</i>	333.11	
<i>For Class 55 Rating, Add</i>	740.40	
40 05 19 00-1302 EA 16" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,392.37	553.05
<i>For Class 52 Rating, Deduct</i>	-500.99	
<i>For Class 54 Rating, Add</i>	341.58	
<i>For Class 55 Rating, Add</i>	759.22	
40 05 19 00-1303 EA 16" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,509.01	555.51
<i>For Class 52 Rating, Deduct</i>	-513.41	
<i>For Class 54 Rating, Add</i>	350.05	
<i>For Class 55 Rating, Add</i>	778.05	
40 05 19 00-1304 EA 16" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,625.65	557.95
<i>For Class 52 Rating, Deduct</i>	-525.83	
<i>For Class 54 Rating, Add</i>	358.52	
<i>For Class 55 Rating, Add</i>	796.87	
40 05 19 00-1305 EA 16" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,742.28	560.41
<i>For Class 52 Rating, Deduct</i>	-538.25	
<i>For Class 54 Rating, Add</i>	366.99	
<i>For Class 55 Rating, Add</i>	815.69	
40 05 19 00-1306 EA 16" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,858.91	562.87
<i>For Class 52 Rating, Deduct</i>	-550.67	
<i>For Class 54 Rating, Add</i>	375.46	
<i>For Class 55 Rating, Add</i>	834.51	
40 05 19 00-1307 18" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1308 EA 18" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,777.60	531.91
<i>For Class 52 Rating, Deduct</i>	-106.88	
<i>For Class 54 Rating, Add</i>	72.88	
<i>For Class 55 Rating, Add</i>	161.98	
40 05 19 00-1309 EA 18" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,911.61	534.37
<i>For Class 52 Rating, Deduct</i>	-121.22	
<i>For Class 54 Rating, Add</i>	82.65	
<i>For Class 55 Rating, Add</i>	183.70	
40 05 19 00-1310 EA 18" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,045.62	536.82
<i>For Class 52 Rating, Deduct</i>	-135.55	
<i>For Class 54 Rating, Add</i>	92.42	
<i>For Class 55 Rating, Add</i>	205.42	
40 05 19 00-1311 EA 18" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,179.62	539.28
<i>For Class 52 Rating, Deduct</i>	-149.88	
<i>For Class 54 Rating, Add</i>	102.19	
<i>For Class 55 Rating, Add</i>	227.13	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1312	EA		18" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,313.63	541.74
			For Class 52 Rating, Deduct	-164.21	
			For Class 54 Rating, Add	111.96	
			For Class 55 Rating, Add	248.85	
40 05 19 00-1313	EA		18" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,447.63	544.19
			For Class 52 Rating, Deduct	-178.54	
			For Class 54 Rating, Add	121.73	
			For Class 55 Rating, Add	270.57	
40 05 19 00-1314	EA		18" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,581.63	546.66
			For Class 52 Rating, Deduct	-192.87	
			For Class 54 Rating, Add	131.50	
			For Class 55 Rating, Add	292.29	
40 05 19 00-1315	EA		18" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,715.64	549.12
			For Class 52 Rating, Deduct	-207.20	
			For Class 54 Rating, Add	141.27	
			For Class 55 Rating, Add	314.00	
40 05 19 00-1316	EA		18" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,849.66	551.58
			For Class 52 Rating, Deduct	-221.53	
			For Class 54 Rating, Add	151.05	
			For Class 55 Rating, Add	335.72	
40 05 19 00-1317	EA		18" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,983.66	554.02
			For Class 52 Rating, Deduct	-235.86	
			For Class 54 Rating, Add	160.82	
			For Class 55 Rating, Add	357.44	
40 05 19 00-1318	EA		18" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,117.66	556.48
			For Class 52 Rating, Deduct	-250.20	
			For Class 54 Rating, Add	170.59	
			For Class 55 Rating, Add	379.16	
40 05 19 00-1319	EA		18" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,251.66	558.94
			For Class 52 Rating, Deduct	-264.53	
			For Class 54 Rating, Add	180.36	
			For Class 55 Rating, Add	400.88	
40 05 19 00-1320	EA		18" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,385.67	561.40
			For Class 52 Rating, Deduct	-278.86	
			For Class 54 Rating, Add	190.13	
			For Class 55 Rating, Add	422.59	
40 05 19 00-1321	EA		18" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,519.68	563.86
			For Class 52 Rating, Deduct	-293.19	
			For Class 54 Rating, Add	199.90	
			For Class 55 Rating, Add	444.31	
40 05 19 00-1322	EA		18" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,653.69	566.32
			For Class 52 Rating, Deduct	-307.52	
			For Class 54 Rating, Add	209.67	
			For Class 55 Rating, Add	466.03	
40 05 19 00-1323	EA		18" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,787.69	568.78
			For Class 52 Rating, Deduct	-321.85	
			For Class 54 Rating, Add	219.44	
			For Class 55 Rating, Add	487.75	
40 05 19 00-1324	EA		18" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,921.70	571.23
			For Class 52 Rating, Deduct	-336.18	
			For Class 54 Rating, Add	229.21	
			For Class 55 Rating, Add	509.47	
40 05 19 00-1325	EA		18" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,055.70	573.69
			For Class 52 Rating, Deduct	-350.51	
			For Class 54 Rating, Add	238.99	
			For Class 55 Rating, Add	531.18	
40 05 19 00-1326	EA		18" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,189.71	576.16
			For Class 52 Rating, Deduct	-364.84	
			For Class 54 Rating, Add	248.76	
			For Class 55 Rating, Add	552.90	
40 05 19 00-1327	EA		18" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,323.71	578.61
			For Class 52 Rating, Deduct	-379.17	
			For Class 54 Rating, Add	258.53	
			For Class 55 Rating, Add	574.62	
40 05 19 00-1328	EA		18" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,457.72	581.06
			For Class 52 Rating, Deduct	-393.51	
			For Class 54 Rating, Add	268.30	
			For Class 55 Rating, Add	596.34	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1329 EA 18" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,591.73	583.52
<i>For Class 52 Rating, Deduct</i>	-407.84	
<i>For Class 54 Rating, Add</i>	278.07	
<i>For Class 55 Rating, Add</i>	618.06	
40 05 19 00-1330 EA 18" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,725.74	585.98
<i>For Class 52 Rating, Deduct</i>	-422.17	
<i>For Class 54 Rating, Add</i>	287.84	
<i>For Class 55 Rating, Add</i>	639.77	
40 05 19 00-1331 EA 18" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,859.74	588.43
<i>For Class 52 Rating, Deduct</i>	-436.50	
<i>For Class 54 Rating, Add</i>	297.61	
<i>For Class 55 Rating, Add</i>	661.49	
40 05 19 00-1332 EA 18" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,993.74	590.90
<i>For Class 52 Rating, Deduct</i>	-450.83	
<i>For Class 54 Rating, Add</i>	307.38	
<i>For Class 55 Rating, Add</i>	683.21	
40 05 19 00-1333 EA 18" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,127.74	593.36
<i>For Class 52 Rating, Deduct</i>	-465.16	
<i>For Class 54 Rating, Add</i>	317.15	
<i>For Class 55 Rating, Add</i>	704.93	
40 05 19 00-1334 EA 18" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,261.76	595.82
<i>For Class 52 Rating, Deduct</i>	-479.49	
<i>For Class 54 Rating, Add</i>	326.93	
<i>For Class 55 Rating, Add</i>	726.65	
40 05 19 00-1335 EA 18" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,395.77	598.27
<i>For Class 52 Rating, Deduct</i>	-493.82	
<i>For Class 54 Rating, Add</i>	336.70	
<i>For Class 55 Rating, Add</i>	748.36	
40 05 19 00-1336 EA 18" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,529.76	600.73
<i>For Class 52 Rating, Deduct</i>	-508.15	
<i>For Class 54 Rating, Add</i>	346.47	
<i>For Class 55 Rating, Add</i>	770.08	
40 05 19 00-1337 EA 18" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,663.77	603.19
<i>For Class 52 Rating, Deduct</i>	-522.48	
<i>For Class 54 Rating, Add</i>	356.24	
<i>For Class 55 Rating, Add</i>	791.80	
40 05 19 00-1338 EA 18" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,797.78	605.64
<i>For Class 52 Rating, Deduct</i>	-536.81	
<i>For Class 54 Rating, Add</i>	366.01	
<i>For Class 55 Rating, Add</i>	813.52	
40 05 19 00-1339 EA 18" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,931.78	608.11
<i>For Class 52 Rating, Deduct</i>	-551.15	
<i>For Class 54 Rating, Add</i>	375.78	
<i>For Class 55 Rating, Add</i>	835.24	
40 05 19 00-1340 EA 18" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,065.79	610.56
<i>For Class 52 Rating, Deduct</i>	-565.48	
<i>For Class 54 Rating, Add</i>	385.55	
<i>For Class 55 Rating, Add</i>	856.95	
40 05 19 00-1341 EA 18" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,199.80	613.02
<i>For Class 52 Rating, Deduct</i>	-579.81	
<i>For Class 54 Rating, Add</i>	395.32	
<i>For Class 55 Rating, Add</i>	878.67	
40 05 19 00-1342 EA 18" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,333.80	615.47
<i>For Class 52 Rating, Deduct</i>	-594.14	
<i>For Class 54 Rating, Add</i>	405.09	
<i>For Class 55 Rating, Add</i>	900.39	
40 05 19 00-1343 EA 18" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,467.81	617.93
<i>For Class 52 Rating, Deduct</i>	-608.47	
<i>For Class 54 Rating, Add</i>	414.87	
<i>For Class 55 Rating, Add</i>	922.11	
40 05 19 00-1344 EA 18" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,601.82	620.39
<i>For Class 52 Rating, Deduct</i>	-622.80	
<i>For Class 54 Rating, Add</i>	424.64	
<i>For Class 55 Rating, Add</i>	943.83	
40 05 19 00-1345 EA 18" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,735.81	622.85
<i>For Class 52 Rating, Deduct</i>	-637.13	
<i>For Class 54 Rating, Add</i>	434.41	
<i>For Class 55 Rating, Add</i>	965.54	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1346		20" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1347	EA	20" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,064.18	607.12
		For Class 52 Rating, Deduct	-125.87	
		For Class 54 Rating, Add	85.82	
		For Class 55 Rating, Add	190.76	
40 05 19 00-1348	EA	20" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,217.73	609.59
		For Class 52 Rating, Deduct	-142.35	
		For Class 54 Rating, Add	97.06	
		For Class 55 Rating, Add	215.73	
40 05 19 00-1349	EA	20" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,371.28	612.04
		For Class 52 Rating, Deduct	-158.83	
		For Class 54 Rating, Add	108.30	
		For Class 55 Rating, Add	240.71	
40 05 19 00-1350	EA	20" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,524.83	614.50
		For Class 52 Rating, Deduct	-175.32	
		For Class 54 Rating, Add	119.53	
		For Class 55 Rating, Add	265.68	
40 05 19 00-1351	EA	20" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,678.38	616.95
		For Class 52 Rating, Deduct	-191.80	
		For Class 54 Rating, Add	130.77	
		For Class 55 Rating, Add	290.66	
40 05 19 00-1352	EA	20" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,831.93	619.40
		For Class 52 Rating, Deduct	-208.28	
		For Class 54 Rating, Add	142.01	
		For Class 55 Rating, Add	315.63	
40 05 19 00-1353	EA	20" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,985.47	621.86
		For Class 52 Rating, Deduct	-224.76	
		For Class 54 Rating, Add	153.24	
		For Class 55 Rating, Add	340.61	
40 05 19 00-1354	EA	20" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,139.02	624.33
		For Class 52 Rating, Deduct	-241.24	
		For Class 54 Rating, Add	164.48	
		For Class 55 Rating, Add	365.58	
40 05 19 00-1355	EA	20" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,292.58	626.79
		For Class 52 Rating, Deduct	-257.72	
		For Class 54 Rating, Add	175.72	
		For Class 55 Rating, Add	390.56	
40 05 19 00-1356	EA	20" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,446.11	629.24
		For Class 52 Rating, Deduct	-274.20	
		For Class 54 Rating, Add	186.95	
		For Class 55 Rating, Add	415.54	
40 05 19 00-1357	EA	20" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,599.67	631.70
		For Class 52 Rating, Deduct	-290.68	
		For Class 54 Rating, Add	198.19	
		For Class 55 Rating, Add	440.51	
40 05 19 00-1358	EA	20" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,753.22	634.16
		For Class 52 Rating, Deduct	-307.16	
		For Class 54 Rating, Add	209.43	
		For Class 55 Rating, Add	465.49	
40 05 19 00-1359	EA	20" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,906.76	636.61
		For Class 52 Rating, Deduct	-323.64	
		For Class 54 Rating, Add	220.66	
		For Class 55 Rating, Add	490.46	
40 05 19 00-1360	EA	20" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,060.32	639.08
		For Class 52 Rating, Deduct	-340.12	
		For Class 54 Rating, Add	231.90	
		For Class 55 Rating, Add	515.44	
40 05 19 00-1361	EA	20" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,213.85	641.54
		For Class 52 Rating, Deduct	-356.60	
		For Class 54 Rating, Add	243.14	
		For Class 55 Rating, Add	540.41	
40 05 19 00-1362	EA	20" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,367.40	644.00
		For Class 52 Rating, Deduct	-373.08	
		For Class 54 Rating, Add	254.37	
		For Class 55 Rating, Add	565.39	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1363 EA 20" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,520.96	646.44
<i>For Class 52 Rating, Deduct</i>	-389.56	
<i>For Class 54 Rating, Add</i>	265.61	
<i>For Class 55 Rating, Add</i>	590.37	
40 05 19 00-1364 EA 20" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,674.50	648.90
<i>For Class 52 Rating, Deduct</i>	-406.04	
<i>For Class 54 Rating, Add</i>	276.85	
<i>For Class 55 Rating, Add</i>	615.34	
40 05 19 00-1365 EA 20" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,828.05	651.36
<i>For Class 52 Rating, Deduct</i>	-422.53	
<i>For Class 54 Rating, Add</i>	288.09	
<i>For Class 55 Rating, Add</i>	640.32	
40 05 19 00-1366 EA 20" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,981.60	653.82
<i>For Class 52 Rating, Deduct</i>	-439.01	
<i>For Class 54 Rating, Add</i>	299.32	
<i>For Class 55 Rating, Add</i>	665.29	
40 05 19 00-1367 EA 20" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,135.14	656.28
<i>For Class 52 Rating, Deduct</i>	-455.49	
<i>For Class 54 Rating, Add</i>	310.56	
<i>For Class 55 Rating, Add</i>	690.27	
40 05 19 00-1368 EA 20" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,288.70	658.74
<i>For Class 52 Rating, Deduct</i>	-471.97	
<i>For Class 54 Rating, Add</i>	321.80	
<i>For Class 55 Rating, Add</i>	715.24	
40 05 19 00-1369 EA 20" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,442.25	661.20
<i>For Class 52 Rating, Deduct</i>	-488.45	
<i>For Class 54 Rating, Add</i>	333.03	
<i>For Class 55 Rating, Add</i>	740.22	
40 05 19 00-1370 EA 20" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,595.79	663.65
<i>For Class 52 Rating, Deduct</i>	-504.93	
<i>For Class 54 Rating, Add</i>	344.27	
<i>For Class 55 Rating, Add</i>	765.20	
40 05 19 00-1371 EA 20" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,749.34	666.11
<i>For Class 52 Rating, Deduct</i>	-521.41	
<i>For Class 54 Rating, Add</i>	355.51	
<i>For Class 55 Rating, Add</i>	790.17	
40 05 19 00-1372 EA 20" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,902.89	668.57
<i>For Class 52 Rating, Deduct</i>	-537.89	
<i>For Class 54 Rating, Add</i>	366.74	
<i>For Class 55 Rating, Add</i>	815.15	
40 05 19 00-1373 EA 20" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,056.44	671.04
<i>For Class 52 Rating, Deduct</i>	-554.37	
<i>For Class 54 Rating, Add</i>	377.98	
<i>For Class 55 Rating, Add</i>	840.12	
40 05 19 00-1374 EA 20" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,209.98	673.48
<i>For Class 52 Rating, Deduct</i>	-570.85	
<i>For Class 54 Rating, Add</i>	389.22	
<i>For Class 55 Rating, Add</i>	865.10	
40 05 19 00-1375 EA 20" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,363.52	675.94
<i>For Class 52 Rating, Deduct</i>	-587.33	
<i>For Class 54 Rating, Add</i>	400.45	
<i>For Class 55 Rating, Add</i>	890.07	
40 05 19 00-1376 EA 20" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,517.08	678.40
<i>For Class 52 Rating, Deduct</i>	-603.81	
<i>For Class 54 Rating, Add</i>	411.69	
<i>For Class 55 Rating, Add</i>	915.05	
40 05 19 00-1377 EA 20" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,670.63	680.85
<i>For Class 52 Rating, Deduct</i>	-620.29	
<i>For Class 54 Rating, Add</i>	422.93	
<i>For Class 55 Rating, Add</i>	940.02	
40 05 19 00-1378 EA 20" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,824.18	683.31
<i>For Class 52 Rating, Deduct</i>	-636.77	
<i>For Class 54 Rating, Add</i>	434.16	
<i>For Class 55 Rating, Add</i>	965.00	
40 05 19 00-1379 EA 20" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,977.72	685.78
<i>For Class 52 Rating, Deduct</i>	-653.25	
<i>For Class 54 Rating, Add</i>	445.40	
<i>For Class 55 Rating, Add</i>	989.98	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1380	EA		20" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,131.27	688.24
			<i>For Class 52 Rating, Deduct</i>	-669.73	
			<i>For Class 54 Rating, Add</i>	456.64	
			<i>For Class 55 Rating, Add</i>	1,014.95	
40 05 19 00-1381	EA		20" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,284.82	690.69
			<i>For Class 52 Rating, Deduct</i>	-686.22	
			<i>For Class 54 Rating, Add</i>	467.87	
			<i>For Class 55 Rating, Add</i>	1,039.93	
40 05 19 00-1382	EA		20" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,438.37	693.15
			<i>For Class 52 Rating, Deduct</i>	-702.70	
			<i>For Class 54 Rating, Add</i>	479.11	
			<i>For Class 55 Rating, Add</i>	1,064.90	
40 05 19 00-1383	EA		20" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,591.91	695.61
			<i>For Class 52 Rating, Deduct</i>	-719.18	
			<i>For Class 54 Rating, Add</i>	490.35	
			<i>For Class 55 Rating, Add</i>	1,089.88	
40 05 19 00-1384	EA		20" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,745.46	698.06
			<i>For Class 52 Rating, Deduct</i>	-735.66	
			<i>For Class 54 Rating, Add</i>	501.58	
			<i>For Class 55 Rating, Add</i>	1,114.85	
40 05 19 00-1385			24" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1386	EA		24" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,516.21	717.73
			<i>For Class 52 Rating, Deduct</i>	-157.16	
			<i>For Class 54 Rating, Add</i>	107.16	
			<i>For Class 55 Rating, Add</i>	238.17	
40 05 19 00-1387	EA		24" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,705.60	720.19
			<i>For Class 52 Rating, Deduct</i>	-177.59	
			<i>For Class 54 Rating, Add</i>	121.08	
			<i>For Class 55 Rating, Add</i>	269.12	
40 05 19 00-1388	EA		24" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,894.98	722.65
			<i>For Class 52 Rating, Deduct</i>	-198.01	
			<i>For Class 54 Rating, Add</i>	135.00	
			<i>For Class 55 Rating, Add</i>	300.07	
40 05 19 00-1389	EA		24" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,084.35	725.10
			<i>For Class 52 Rating, Deduct</i>	-218.43	
			<i>For Class 54 Rating, Add</i>	148.93	
			<i>For Class 55 Rating, Add</i>	331.02	
40 05 19 00-1390	EA		24" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,273.73	727.56
			<i>For Class 52 Rating, Deduct</i>	-238.85	
			<i>For Class 54 Rating, Add</i>	162.85	
			<i>For Class 55 Rating, Add</i>	361.97	
40 05 19 00-1391	EA		24" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,463.10	730.03
			<i>For Class 52 Rating, Deduct</i>	-259.27	
			<i>For Class 54 Rating, Add</i>	176.78	
			<i>For Class 55 Rating, Add</i>	392.91	
40 05 19 00-1392	EA		24" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,652.47	732.48
			<i>For Class 52 Rating, Deduct</i>	-279.69	
			<i>For Class 54 Rating, Add</i>	190.70	
			<i>For Class 55 Rating, Add</i>	423.86	
40 05 19 00-1393	EA		24" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,841.85	734.93
			<i>For Class 52 Rating, Deduct</i>	-300.11	
			<i>For Class 54 Rating, Add</i>	204.62	
			<i>For Class 55 Rating, Add</i>	454.81	
40 05 19 00-1394	EA		24" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,031.23	737.39
			<i>For Class 52 Rating, Deduct</i>	-320.54	
			<i>For Class 54 Rating, Add</i>	218.55	
			<i>For Class 55 Rating, Add</i>	485.76	
40 05 19 00-1395	EA		24" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,220.60	739.85
			<i>For Class 52 Rating, Deduct</i>	-340.96	
			<i>For Class 54 Rating, Add</i>	232.47	
			<i>For Class 55 Rating, Add</i>	516.71	
40 05 19 00-1396	EA		24" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,409.98	742.30
			<i>For Class 52 Rating, Deduct</i>	-361.38	
			<i>For Class 54 Rating, Add</i>	246.40	
			<i>For Class 55 Rating, Add</i>	547.65	



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1397 EA 24" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,599.35	744.77
<i>For Class 52 Rating, Deduct</i>	-381.80	
<i>For Class 54 Rating, Add</i>	260.32	
<i>For Class 55 Rating, Add</i>	578.60	
40 05 19 00-1398 EA 24" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,788.73	747.23
<i>For Class 52 Rating, Deduct</i>	-402.22	
<i>For Class 54 Rating, Add</i>	274.24	
<i>For Class 55 Rating, Add</i>	609.55	
40 05 19 00-1399 EA 24" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,978.11	749.69
<i>For Class 52 Rating, Deduct</i>	-422.64	
<i>For Class 54 Rating, Add</i>	288.17	
<i>For Class 55 Rating, Add</i>	640.50	
40 05 19 00-1400 EA 24" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,167.47	752.14
<i>For Class 52 Rating, Deduct</i>	-443.07	
<i>For Class 54 Rating, Add</i>	302.09	
<i>For Class 55 Rating, Add</i>	671.45	
40 05 19 00-1401 EA 24" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,356.85	754.60
<i>For Class 52 Rating, Deduct</i>	-463.49	
<i>For Class 54 Rating, Add</i>	316.01	
<i>For Class 55 Rating, Add</i>	702.39	
40 05 19 00-1402 EA 24" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,546.24	757.06
<i>For Class 52 Rating, Deduct</i>	-483.91	
<i>For Class 54 Rating, Add</i>	329.94	
<i>For Class 55 Rating, Add</i>	733.34	
40 05 19 00-1403 EA 24" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,735.61	759.51
<i>For Class 52 Rating, Deduct</i>	-504.33	
<i>For Class 54 Rating, Add</i>	343.86	
<i>For Class 55 Rating, Add</i>	764.29	
40 05 19 00-1404 EA 24" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,924.98	761.97
<i>For Class 52 Rating, Deduct</i>	-524.75	
<i>For Class 54 Rating, Add</i>	357.79	
<i>For Class 55 Rating, Add</i>	795.24	
40 05 19 00-1405 EA 24" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,114.36	764.43
<i>For Class 52 Rating, Deduct</i>	-545.17	
<i>For Class 54 Rating, Add</i>	371.71	
<i>For Class 55 Rating, Add</i>	826.19	
40 05 19 00-1406 EA 24" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,303.73	766.89
<i>For Class 52 Rating, Deduct</i>	-565.60	
<i>For Class 54 Rating, Add</i>	385.63	
<i>For Class 55 Rating, Add</i>	857.13	
40 05 19 00-1407 EA 24" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,493.11	769.34
<i>For Class 52 Rating, Deduct</i>	-586.02	
<i>For Class 54 Rating, Add</i>	399.56	
<i>For Class 55 Rating, Add</i>	888.08	
40 05 19 00-1408 EA 24" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,682.48	771.80
<i>For Class 52 Rating, Deduct</i>	-606.44	
<i>For Class 54 Rating, Add</i>	413.48	
<i>For Class 55 Rating, Add</i>	919.03	
40 05 19 00-1409 EA 24" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,871.85	774.26
<i>For Class 52 Rating, Deduct</i>	-626.86	
<i>For Class 54 Rating, Add</i>	427.40	
<i>For Class 55 Rating, Add</i>	949.98	
40 05 19 00-1410 EA 24" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,061.24	776.73
<i>For Class 52 Rating, Deduct</i>	-647.28	
<i>For Class 54 Rating, Add</i>	441.33	
<i>For Class 55 Rating, Add</i>	980.93	
40 05 19 00-1411 EA 24" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,250.61	779.18
<i>For Class 52 Rating, Deduct</i>	-667.70	
<i>For Class 54 Rating, Add</i>	455.25	
<i>For Class 55 Rating, Add</i>	1,011.88	
40 05 19 00-1412 EA 24" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,439.99	781.64
<i>For Class 52 Rating, Deduct</i>	-688.13	
<i>For Class 54 Rating, Add</i>	469.18	
<i>For Class 55 Rating, Add</i>	1,042.82	
40 05 19 00-1413 EA 24" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,629.36	784.10
<i>For Class 52 Rating, Deduct</i>	-708.55	
<i>For Class 54 Rating, Add</i>	483.10	
<i>For Class 55 Rating, Add</i>	1,073.77	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1414	EA		24" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,818.73	786.54
			<i>For Class 52 Rating, Deduct</i>	-728.97	
			<i>For Class 54 Rating, Add</i>	497.02	
			<i>For Class 55 Rating, Add</i>	1,104.72	
40 05 19 00-1415	EA		24" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,071.42	830.79
			<i>For Class 52 Rating, Deduct</i>	-749.39	
			<i>For Class 54 Rating, Add</i>	510.95	
			<i>For Class 55 Rating, Add</i>	1,135.67	
40 05 19 00-1416	EA		24" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,260.79	833.25
			<i>For Class 52 Rating, Deduct</i>	-769.81	
			<i>For Class 54 Rating, Add</i>	524.87	
			<i>For Class 55 Rating, Add</i>	1,166.61	
40 05 19 00-1417	EA		24" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,450.17	835.72
			<i>For Class 52 Rating, Deduct</i>	-790.23	
			<i>For Class 54 Rating, Add</i>	538.80	
			<i>For Class 55 Rating, Add</i>	1,197.56	
40 05 19 00-1418	EA		24" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,639.56	838.18
			<i>For Class 52 Rating, Deduct</i>	-810.66	
			<i>For Class 54 Rating, Add</i>	552.72	
			<i>For Class 55 Rating, Add</i>	1,228.51	
40 05 19 00-1419	EA		24" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,828.92	840.63
			<i>For Class 52 Rating, Deduct</i>	-831.08	
			<i>For Class 54 Rating, Add</i>	566.64	
			<i>For Class 55 Rating, Add</i>	1,259.46	
40 05 19 00-1420	EA		24" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,018.30	843.09
			<i>For Class 52 Rating, Deduct</i>	-851.50	
			<i>For Class 54 Rating, Add</i>	580.57	
			<i>For Class 55 Rating, Add</i>	1,290.41	
40 05 19 00-1421	EA		24" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,207.68	845.54
			<i>For Class 52 Rating, Deduct</i>	-871.92	
			<i>For Class 54 Rating, Add</i>	594.49	
			<i>For Class 55 Rating, Add</i>	1,321.36	
40 05 19 00-1422	EA		24" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,397.05	847.99
			<i>For Class 52 Rating, Deduct</i>	-892.34	
			<i>For Class 54 Rating, Add</i>	608.42	
			<i>For Class 55 Rating, Add</i>	1,352.30	
40 05 19 00-1423	EA		24" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,586.43	850.46
			<i>For Class 52 Rating, Deduct</i>	-912.76	
			<i>For Class 54 Rating, Add</i>	622.34	
			<i>For Class 55 Rating, Add</i>	1,383.25	
40 05 19 00-1424			30" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1425	EA		30" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,792.58	1,012.69
			<i>For Class 52 Rating, Deduct</i>	-248.40	
			<i>For Class 54 Rating, Add</i>	169.37	
			<i>For Class 55 Rating, Add</i>	376.44	
40 05 19 00-1426	EA		30" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,064.48	1,015.14
			<i>For Class 52 Rating, Deduct</i>	-277.90	
			<i>For Class 54 Rating, Add</i>	189.48	
			<i>For Class 55 Rating, Add</i>	421.15	
40 05 19 00-1427	EA		30" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,336.36	1,017.60
			<i>For Class 52 Rating, Deduct</i>	-307.40	
			<i>For Class 54 Rating, Add</i>	209.59	
			<i>For Class 55 Rating, Add</i>	465.85	
40 05 19 00-1428	EA		30" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,608.24	1,020.06
			<i>For Class 52 Rating, Deduct</i>	-336.90	
			<i>For Class 54 Rating, Add</i>	229.70	
			<i>For Class 55 Rating, Add</i>	510.55	
40 05 19 00-1429	EA		30" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,880.14	1,022.52
			<i>For Class 52 Rating, Deduct</i>	-366.40	
			<i>For Class 54 Rating, Add</i>	249.82	
			<i>For Class 55 Rating, Add</i>	555.26	
40 05 19 00-1430	EA		30" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,152.03	1,024.97
			<i>For Class 52 Rating, Deduct</i>	-395.89	
			<i>For Class 54 Rating, Add</i>	269.93	
			<i>For Class 55 Rating, Add</i>	599.96	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1431 EA 30" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,423.91	1,027.43
<i>For Class 52 Rating, Deduct</i>	-425.39	
<i>For Class 54 Rating, Add</i>	290.04	
<i>For Class 55 Rating, Add</i>	644.66	
40 05 19 00-1432 EA 30" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,695.80	1,029.89
<i>For Class 52 Rating, Deduct</i>	-454.89	
<i>For Class 54 Rating, Add</i>	310.15	
<i>For Class 55 Rating, Add</i>	689.36	
40 05 19 00-1433 EA 30" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,967.68	1,032.35
<i>For Class 52 Rating, Deduct</i>	-484.39	
<i>For Class 54 Rating, Add</i>	330.26	
<i>For Class 55 Rating, Add</i>	734.07	
40 05 19 00-1434 EA 30" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,239.57	1,034.81
<i>For Class 52 Rating, Deduct</i>	-513.88	
<i>For Class 54 Rating, Add</i>	350.38	
<i>For Class 55 Rating, Add</i>	778.77	
40 05 19 00-1435 EA 30" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,511.46	1,037.27
<i>For Class 52 Rating, Deduct</i>	-543.38	
<i>For Class 54 Rating, Add</i>	370.49	
<i>For Class 55 Rating, Add</i>	823.47	
40 05 19 00-1436 EA 30" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,783.35	1,039.73
<i>For Class 52 Rating, Deduct</i>	-572.88	
<i>For Class 54 Rating, Add</i>	390.60	
<i>For Class 55 Rating, Add</i>	868.18	
40 05 19 00-1437 EA 30" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,055.23	1,042.18
<i>For Class 52 Rating, Deduct</i>	-602.38	
<i>For Class 54 Rating, Add</i>	410.71	
<i>For Class 55 Rating, Add</i>	912.88	
40 05 19 00-1438 EA 30" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,327.12	1,044.63
<i>For Class 52 Rating, Deduct</i>	-631.88	
<i>For Class 54 Rating, Add</i>	430.82	
<i>For Class 55 Rating, Add</i>	957.58	
40 05 19 00-1439 EA 30" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,599.01	1,047.10
<i>For Class 52 Rating, Deduct</i>	-661.38	
<i>For Class 54 Rating, Add</i>	450.94	
<i>For Class 55 Rating, Add</i>	1,002.28	
40 05 19 00-1440 EA 30" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,870.90	1,049.55
<i>For Class 52 Rating, Deduct</i>	-690.87	
<i>For Class 54 Rating, Add</i>	471.05	
<i>For Class 55 Rating, Add</i>	1,046.99	
40 05 19 00-1441 EA 30" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,142.78	1,052.01
<i>For Class 52 Rating, Deduct</i>	-720.37	
<i>For Class 54 Rating, Add</i>	491.16	
<i>For Class 55 Rating, Add</i>	1,091.69	
40 05 19 00-1442 EA 30" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,414.66	1,054.47
<i>For Class 52 Rating, Deduct</i>	-749.87	
<i>For Class 54 Rating, Add</i>	511.27	
<i>For Class 55 Rating, Add</i>	1,136.39	
40 05 19 00-1443 EA 30" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,686.56	1,056.93
<i>For Class 52 Rating, Deduct</i>	-779.37	
<i>For Class 54 Rating, Add</i>	531.39	
<i>For Class 55 Rating, Add</i>	1,181.09	
40 05 19 00-1444 EA 30" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,958.45	1,059.38
<i>For Class 52 Rating, Deduct</i>	-808.86	
<i>For Class 54 Rating, Add</i>	551.50	
<i>For Class 55 Rating, Add</i>	1,225.80	
40 05 19 00-1445 EA 30" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,230.33	1,061.85
<i>For Class 52 Rating, Deduct</i>	-838.36	
<i>For Class 54 Rating, Add</i>	571.61	
<i>For Class 55 Rating, Add</i>	1,270.50	
40 05 19 00-1446 EA 30" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,502.22	1,064.31
<i>For Class 52 Rating, Deduct</i>	-867.86	
<i>For Class 54 Rating, Add</i>	591.72	
<i>For Class 55 Rating, Add</i>	1,315.20	
40 05 19 00-1447 EA 30" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,774.10	1,066.76
<i>For Class 52 Rating, Deduct</i>	-897.36	
<i>For Class 54 Rating, Add</i>	611.84	
<i>For Class 55 Rating, Add</i>	1,359.91	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1448	EA		30" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,045.99	1,069.22
			<i>For Class 52 Rating, Deduct</i>	-926.86	
			<i>For Class 54 Rating, Add</i>	631.95	
			<i>For Class 55 Rating, Add</i>	1,404.61	
40 05 19 00-1449	EA		30" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,317.89	1,071.68
			<i>For Class 52 Rating, Deduct</i>	-956.35	
			<i>For Class 54 Rating, Add</i>	652.06	
			<i>For Class 55 Rating, Add</i>	1,449.31	
40 05 19 00-1450	EA		30" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,589.76	1,074.14
			<i>For Class 52 Rating, Deduct</i>	-985.85	
			<i>For Class 54 Rating, Add</i>	672.17	
			<i>For Class 55 Rating, Add</i>	1,494.01	
40 05 19 00-1451	EA		30" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,861.65	1,076.59
			<i>For Class 52 Rating, Deduct</i>	-1,015.35	
			<i>For Class 54 Rating, Add</i>	692.28	
			<i>For Class 55 Rating, Add</i>	1,538.72	
40 05 19 00-1452	EA		30" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,133.54	1,079.05
			<i>For Class 52 Rating, Deduct</i>	-1,044.85	
			<i>For Class 54 Rating, Add</i>	712.40	
			<i>For Class 55 Rating, Add</i>	1,583.42	
40 05 19 00-1453	EA		30" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,405.43	1,081.51
			<i>For Class 52 Rating, Deduct</i>	-1,074.35	
			<i>For Class 54 Rating, Add</i>	732.51	
			<i>For Class 55 Rating, Add</i>	1,628.12	
40 05 19 00-1454	EA		30" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,677.32	1,083.97
			<i>For Class 52 Rating, Deduct</i>	-1,103.84	
			<i>For Class 54 Rating, Add</i>	752.62	
			<i>For Class 55 Rating, Add</i>	1,672.82	
40 05 19 00-1455	EA		30" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,949.20	1,086.42
			<i>For Class 52 Rating, Deduct</i>	-1,133.34	
			<i>For Class 54 Rating, Add</i>	772.73	
			<i>For Class 55 Rating, Add</i>	1,717.53	
40 05 19 00-1456	EA		30" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,221.09	1,088.88
			<i>For Class 52 Rating, Deduct</i>	-1,162.84	
			<i>For Class 54 Rating, Add</i>	792.85	
			<i>For Class 55 Rating, Add</i>	1,762.23	
40 05 19 00-1457	EA		30" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,492.98	1,091.35
			<i>For Class 52 Rating, Deduct</i>	-1,192.34	
			<i>For Class 54 Rating, Add</i>	812.96	
			<i>For Class 55 Rating, Add</i>	1,806.93	
40 05 19 00-1458	EA		30" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,764.87	1,093.80
			<i>For Class 52 Rating, Deduct</i>	-1,221.83	
			<i>For Class 54 Rating, Add</i>	833.07	
			<i>For Class 55 Rating, Add</i>	1,851.64	
40 05 19 00-1459	EA		30" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,036.75	1,096.26
			<i>For Class 52 Rating, Deduct</i>	-1,251.33	
			<i>For Class 54 Rating, Add</i>	853.18	
			<i>For Class 55 Rating, Add</i>	1,896.34	
40 05 19 00-1460	EA		30" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,308.64	1,098.72
			<i>For Class 52 Rating, Deduct</i>	-1,280.83	
			<i>For Class 54 Rating, Add</i>	873.29	
			<i>For Class 55 Rating, Add</i>	1,941.04	
40 05 19 00-1461	EA		30" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,580.52	1,101.18
			<i>For Class 52 Rating, Deduct</i>	-1,310.33	
			<i>For Class 54 Rating, Add</i>	893.41	
			<i>For Class 55 Rating, Add</i>	1,985.74	
40 05 19 00-1462	EA		30" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,852.41	1,103.62
			<i>For Class 52 Rating, Deduct</i>	-1,339.83	
			<i>For Class 54 Rating, Add</i>	913.52	
			<i>For Class 55 Rating, Add</i>	2,030.45	
40 05 19 00-1463			36" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1464	EA		36" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,159.82	1,283.06
			<i>For Class 52 Rating, Deduct</i>	-353.74	
			<i>For Class 54 Rating, Add</i>	241.18	
			<i>For Class 55 Rating, Add</i>	536.07	



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1465 EA 36" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,528.33	1,285.52
For Class 52 Rating, Deduct	-393.86	
For Class 54 Rating, Add	268.54	
For Class 55 Rating, Add	596.88	
40 05 19 00-1466 EA 36" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,896.84	1,287.98
For Class 52 Rating, Deduct	-433.99	
For Class 54 Rating, Add	295.90	
For Class 55 Rating, Add	657.69	
40 05 19 00-1467 EA 36" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,265.36	1,290.44
For Class 52 Rating, Deduct	-474.12	
For Class 54 Rating, Add	323.26	
For Class 55 Rating, Add	718.50	
40 05 19 00-1468 EA 36" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,633.87	1,292.90
For Class 52 Rating, Deduct	-514.24	
For Class 54 Rating, Add	350.62	
For Class 55 Rating, Add	779.31	
40 05 19 00-1469 EA 36" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,002.39	1,295.35
For Class 52 Rating, Deduct	-554.37	
For Class 54 Rating, Add	377.98	
For Class 55 Rating, Add	840.12	
40 05 19 00-1470 EA 36" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,370.90	1,297.81
For Class 52 Rating, Deduct	-594.50	
For Class 54 Rating, Add	405.34	
For Class 55 Rating, Add	900.93	
40 05 19 00-1471 EA 36" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,739.40	1,300.27
For Class 52 Rating, Deduct	-634.62	
For Class 54 Rating, Add	432.70	
For Class 55 Rating, Add	961.74	
40 05 19 00-1472 EA 36" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,107.92	1,302.74
For Class 52 Rating, Deduct	-674.75	
For Class 54 Rating, Add	460.06	
For Class 55 Rating, Add	1,022.55	
40 05 19 00-1473 EA 36" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,476.44	1,305.18
For Class 52 Rating, Deduct	-714.88	
For Class 54 Rating, Add	487.42	
For Class 55 Rating, Add	1,083.36	
40 05 19 00-1474 EA 36" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,844.94	1,307.64
For Class 52 Rating, Deduct	-755.00	
For Class 54 Rating, Add	514.78	
For Class 55 Rating, Add	1,144.17	
40 05 19 00-1475 EA 36" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,213.46	1,310.10
For Class 52 Rating, Deduct	-795.13	
For Class 54 Rating, Add	542.13	
For Class 55 Rating, Add	1,204.98	
40 05 19 00-1476 EA 36" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,581.98	1,312.55
For Class 52 Rating, Deduct	-835.26	
For Class 54 Rating, Add	569.49	
For Class 55 Rating, Add	1,265.79	
40 05 19 00-1477 EA 36" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,950.48	1,315.01
For Class 52 Rating, Deduct	-875.38	
For Class 54 Rating, Add	596.85	
For Class 55 Rating, Add	1,326.60	
40 05 19 00-1478 EA 36" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,319.00	1,317.48
For Class 52 Rating, Deduct	-915.51	
For Class 54 Rating, Add	624.21	
For Class 55 Rating, Add	1,387.41	
40 05 19 00-1479 EA 36" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,687.51	1,319.94
For Class 52 Rating, Deduct	-955.64	
For Class 54 Rating, Add	651.57	
For Class 55 Rating, Add	1,448.22	
40 05 19 00-1480 EA 36" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,056.02	1,322.39
For Class 52 Rating, Deduct	-995.76	
For Class 54 Rating, Add	678.93	
For Class 55 Rating, Add	1,509.04	
40 05 19 00-1481 EA 36" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,424.54	1,324.85
For Class 52 Rating, Deduct	-1,035.89	
For Class 54 Rating, Add	706.29	
For Class 55 Rating, Add	1,569.85	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1482	EA		36" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,793.05	1,327.31
			<i>For Class 52 Rating, Deduct</i>	-1,076.02	
			<i>For Class 54 Rating, Add</i>	733.65	
			<i>For Class 55 Rating, Add</i>	1,630.66	
40 05 19 00-1483	EA		36" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,161.56	1,329.77
			<i>For Class 52 Rating, Deduct</i>	-1,116.14	
			<i>For Class 54 Rating, Add</i>	761.01	
			<i>For Class 55 Rating, Add</i>	1,691.47	
40 05 19 00-1484	EA		36" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,530.07	1,332.22
			<i>For Class 52 Rating, Deduct</i>	-1,156.27	
			<i>For Class 54 Rating, Add</i>	788.37	
			<i>For Class 55 Rating, Add</i>	1,752.28	
40 05 19 00-1485	EA		36" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,898.58	1,334.68
			<i>For Class 52 Rating, Deduct</i>	-1,196.40	
			<i>For Class 54 Rating, Add</i>	815.73	
			<i>For Class 55 Rating, Add</i>	1,813.09	
40 05 19 00-1486	EA		36" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,267.10	1,337.14
			<i>For Class 52 Rating, Deduct</i>	-1,236.52	
			<i>For Class 54 Rating, Add</i>	843.08	
			<i>For Class 55 Rating, Add</i>	1,873.90	
40 05 19 00-1487	EA		36" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,635.62	1,339.59
			<i>For Class 52 Rating, Deduct</i>	-1,276.65	
			<i>For Class 54 Rating, Add</i>	870.44	
			<i>For Class 55 Rating, Add</i>	1,934.71	
40 05 19 00-1488	EA		36" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,004.12	1,342.05
			<i>For Class 52 Rating, Deduct</i>	-1,316.78	
			<i>For Class 54 Rating, Add</i>	897.80	
			<i>For Class 55 Rating, Add</i>	1,995.52	
40 05 19 00-1489	EA		36" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,372.64	1,344.51
			<i>For Class 52 Rating, Deduct</i>	-1,356.91	
			<i>For Class 54 Rating, Add</i>	925.16	
			<i>For Class 55 Rating, Add</i>	2,056.33	
40 05 19 00-1490	EA		36" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,741.15	1,346.98
			<i>For Class 52 Rating, Deduct</i>	-1,397.03	
			<i>For Class 54 Rating, Add</i>	952.52	
			<i>For Class 55 Rating, Add</i>	2,117.14	
40 05 19 00-1491	EA		36" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,109.66	1,349.43
			<i>For Class 52 Rating, Deduct</i>	-1,437.16	
			<i>For Class 54 Rating, Add</i>	979.88	
			<i>For Class 55 Rating, Add</i>	2,177.95	
40 05 19 00-1492	EA		36" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,478.17	1,351.89
			<i>For Class 52 Rating, Deduct</i>	-1,477.28	
			<i>For Class 54 Rating, Add</i>	1,007.24	
			<i>For Class 55 Rating, Add</i>	2,238.76	
40 05 19 00-1493	EA		36" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,846.69	1,354.35
			<i>For Class 52 Rating, Deduct</i>	-1,517.41	
			<i>For Class 54 Rating, Add</i>	1,034.60	
			<i>For Class 55 Rating, Add</i>	2,299.57	
40 05 19 00-1494	EA		36" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,215.20	1,356.80
			<i>For Class 52 Rating, Deduct</i>	-1,557.54	
			<i>For Class 54 Rating, Add</i>	1,061.96	
			<i>For Class 55 Rating, Add</i>	2,360.38	
40 05 19 00-1495	EA		36" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,583.72	1,359.25
			<i>For Class 52 Rating, Deduct</i>	-1,597.67	
			<i>For Class 54 Rating, Add</i>	1,089.32	
			<i>For Class 55 Rating, Add</i>	2,421.19	
40 05 19 00-1496	EA		36" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,952.23	1,361.72
			<i>For Class 52 Rating, Deduct</i>	-1,637.79	
			<i>For Class 54 Rating, Add</i>	1,116.68	
			<i>For Class 55 Rating, Add</i>	2,482.00	
40 05 19 00-1497	EA		36" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,320.73	1,364.18
			<i>For Class 52 Rating, Deduct</i>	-1,677.92	
			<i>For Class 54 Rating, Add</i>	1,144.04	
			<i>For Class 55 Rating, Add</i>	2,542.81	
40 05 19 00-1498	EA		36" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,689.25	1,366.63
			<i>For Class 52 Rating, Deduct</i>	-1,718.04	
			<i>For Class 54 Rating, Add</i>	1,171.39	
			<i>For Class 55 Rating, Add</i>	2,603.62	



Process Interconnections	40
Common Work Results For Process Interconnections	40 05
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1499 EA 36" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,057.76	1,369.09
<i>For Class 52 Rating, Deduct</i>	-1,758.17	
<i>For Class 54 Rating, Add</i>	1,198.75	
<i>For Class 55 Rating, Add</i>	2,664.43	
40 05 19 00-1500 EA 36" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,426.28	1,371.55
<i>For Class 52 Rating, Deduct</i>	-1,798.30	
<i>For Class 54 Rating, Add</i>	1,226.11	
<i>For Class 55 Rating, Add</i>	2,725.24	
40 05 19 00-1501 EA 36" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,794.79	1,374.00
<i>For Class 52 Rating, Deduct</i>	-1,838.43	
<i>For Class 54 Rating, Add</i>	1,253.47	
<i>For Class 55 Rating, Add</i>	2,786.05	
40 05 19 00-1502 42" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
<small>(40 05 19 00-1028)</small>		
40 05 19 00-1503 EA 42" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,761.77	1,617.36
<i>For Class 52 Rating, Deduct</i>	-474.24	
<i>For Class 54 Rating, Add</i>	323.34	
<i>For Class 55 Rating, Add</i>	718.68	
40 05 19 00-1504 EA 42" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,310.50	1,619.80
<i>For Class 52 Rating, Deduct</i>	-534.19	
<i>For Class 54 Rating, Add</i>	364.22	
<i>For Class 55 Rating, Add</i>	809.54	
40 05 19 00-1505 EA 42" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,852.71	1,622.26
<i>For Class 52 Rating, Deduct</i>	-593.42	
<i>For Class 54 Rating, Add</i>	404.61	
<i>For Class 55 Rating, Add</i>	899.30	
40 05 19 00-1506 EA 42" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,400.37	1,624.72
<i>For Class 52 Rating, Deduct</i>	-653.25	
<i>For Class 54 Rating, Add</i>	445.40	
<i>For Class 55 Rating, Add</i>	989.98	
40 05 19 00-1507 EA 42" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,942.60	1,627.18
<i>For Class 52 Rating, Deduct</i>	-712.49	
<i>For Class 54 Rating, Add</i>	485.79	
<i>For Class 55 Rating, Add</i>	1,079.74	
40 05 19 00-1508 EA 42" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,491.32	1,629.63
<i>For Class 52 Rating, Deduct</i>	-772.44	
<i>For Class 54 Rating, Add</i>	526.66	
<i>For Class 55 Rating, Add</i>	1,170.60	
40 05 19 00-1509 EA 42" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,032.46	1,632.10
<i>For Class 52 Rating, Deduct</i>	-831.55	
<i>For Class 54 Rating, Add</i>	566.97	
<i>For Class 55 Rating, Add</i>	1,260.18	
40 05 19 00-1510 EA 42" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,581.20	1,634.56
<i>For Class 52 Rating, Deduct</i>	-891.51	
<i>For Class 54 Rating, Add</i>	607.85	
<i>For Class 55 Rating, Add</i>	1,351.04	
40 05 19 00-1511 EA 42" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,123.42	1,637.02
<i>For Class 52 Rating, Deduct</i>	-950.74	
<i>For Class 54 Rating, Add</i>	648.23	
<i>For Class 55 Rating, Add</i>	1,440.80	
40 05 19 00-1512 EA 42" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,671.07	1,639.47
<i>For Class 52 Rating, Deduct</i>	-1,010.57	
<i>For Class 54 Rating, Add</i>	689.03	
<i>For Class 55 Rating, Add</i>	1,531.48	
40 05 19 00-1513 EA 42" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,213.29	1,641.93
<i>For Class 52 Rating, Deduct</i>	-1,069.81	
<i>For Class 54 Rating, Add</i>	729.41	
<i>For Class 55 Rating, Add</i>	1,621.24	
40 05 19 00-1514 EA 42" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,760.94	1,644.39
<i>For Class 52 Rating, Deduct</i>	-1,129.64	
<i>For Class 54 Rating, Add</i>	770.21	
<i>For Class 55 Rating, Add</i>	1,711.92	
40 05 19 00-1515 EA 42" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,303.16	1,646.84
<i>For Class 52 Rating, Deduct</i>	-1,188.87	
<i>For Class 54 Rating, Add</i>	810.60	
<i>For Class 55 Rating, Add</i>	1,801.68	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1516	EA		42" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,846.48	1,649.30
			For Class 52 Rating, Deduct	-1,248.23	
			For Class 54 Rating, Add	851.06	
			For Class 55 Rating, Add	1,891.63	
40 05 19 00-1517	EA		42" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	14,393.03	1,651.76
			For Class 52 Rating, Deduct	-1,307.94	
			For Class 54 Rating, Add	891.78	
			For Class 55 Rating, Add	1,982.12	
40 05 19 00-1518	EA		42" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	14,935.25	1,654.22
			For Class 52 Rating, Deduct	-1,367.17	
			For Class 54 Rating, Add	932.16	
			For Class 55 Rating, Add	2,071.89	
40 05 19 00-1519	EA		42" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	15,483.99	1,656.67
			For Class 52 Rating, Deduct	-1,427.13	
			For Class 54 Rating, Add	973.04	
			For Class 55 Rating, Add	2,162.75	
40 05 19 00-1520	EA		42" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	16,026.21	1,659.13
			For Class 52 Rating, Deduct	-1,486.36	
			For Class 54 Rating, Add	1,013.43	
			For Class 55 Rating, Add	2,252.51	
40 05 19 00-1521	EA		42" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	16,573.87	1,661.59
			For Class 52 Rating, Deduct	-1,546.19	
			For Class 54 Rating, Add	1,054.22	
			For Class 55 Rating, Add	2,343.19	
40 05 19 00-1522	EA		42" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	17,116.08	1,664.05
			For Class 52 Rating, Deduct	-1,605.43	
			For Class 54 Rating, Add	1,094.61	
			For Class 55 Rating, Add	2,432.95	
40 05 19 00-1523	EA		42" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	17,664.82	1,666.51
			For Class 52 Rating, Deduct	-1,665.38	
			For Class 54 Rating, Add	1,135.49	
			For Class 55 Rating, Add	2,523.81	
40 05 19 00-1524	EA		42" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	18,207.04	1,668.97
			For Class 52 Rating, Deduct	-1,724.61	
			For Class 54 Rating, Add	1,175.87	
			For Class 55 Rating, Add	2,613.57	
40 05 19 00-1525	EA		42" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	18,754.69	1,671.43
			For Class 52 Rating, Deduct	-1,784.45	
			For Class 54 Rating, Add	1,216.67	
			For Class 55 Rating, Add	2,704.25	
40 05 19 00-1526	EA		42" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	19,296.91	1,673.87
			For Class 52 Rating, Deduct	-1,843.68	
			For Class 54 Rating, Add	1,257.05	
			For Class 55 Rating, Add	2,794.01	
40 05 19 00-1527	EA		42" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	19,845.65	1,676.33
			For Class 52 Rating, Deduct	-1,903.63	
			For Class 54 Rating, Add	1,297.93	
			For Class 55 Rating, Add	2,884.87	
40 05 19 00-1528	EA		42" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	20,387.87	1,678.80
			For Class 52 Rating, Deduct	-1,962.87	
			For Class 54 Rating, Add	1,338.32	
			For Class 55 Rating, Add	2,974.63	
40 05 19 00-1529	EA		42" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	20,934.44	1,681.25
			For Class 52 Rating, Deduct	-2,022.58	
			For Class 54 Rating, Add	1,379.03	
			For Class 55 Rating, Add	3,065.13	
40 05 19 00-1530	EA		42" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	21,477.74	1,683.71
			For Class 52 Rating, Deduct	-2,081.93	
			For Class 54 Rating, Add	1,419.50	
			For Class 55 Rating, Add	3,155.07	
40 05 19 00-1531	EA		42" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	21,911.39	1,686.17
			For Class 52 Rating, Deduct	-2,129.22	
			For Class 54 Rating, Add	1,451.74	
			For Class 55 Rating, Add	3,226.74	
40 05 19 00-1532	EA		42" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	22,567.61	1,688.63
			For Class 52 Rating, Deduct	-2,201.00	
			For Class 54 Rating, Add	1,500.68	
			For Class 55 Rating, Add	3,335.51	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1533 EA 42" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,109.83	1,691.08
For Class 52 Rating, Deduct	-2,260.23	
For Class 54 Rating, Add	1,541.07	
For Class 55 Rating, Add	3,425.28	
40 05 19 00-1534 EA 42" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,657.49	1,693.55
For Class 52 Rating, Deduct	-2,320.07	
For Class 54 Rating, Add	1,581.86	
For Class 55 Rating, Add	3,515.95	
40 05 19 00-1535 EA 42" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,199.70	1,696.01
For Class 52 Rating, Deduct	-2,379.30	
For Class 54 Rating, Add	1,622.25	
For Class 55 Rating, Add	3,605.72	
40 05 19 00-1536 EA 42" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,748.43	1,698.47
For Class 52 Rating, Deduct	-2,439.25	
For Class 54 Rating, Add	1,663.13	
For Class 55 Rating, Add	3,696.57	
40 05 19 00-1537 EA 42" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,289.58	1,700.92
For Class 52 Rating, Deduct	-2,498.37	
For Class 54 Rating, Add	1,703.43	
For Class 55 Rating, Add	3,786.16	
40 05 19 00-1538 EA 42" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,838.32	1,703.37
For Class 52 Rating, Deduct	-2,558.32	
For Class 54 Rating, Add	1,744.31	
For Class 55 Rating, Add	3,877.02	
40 05 19 00-1539 EA 42" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,380.53	1,705.83
For Class 52 Rating, Deduct	-2,617.55	
For Class 54 Rating, Add	1,784.69	
For Class 55 Rating, Add	3,966.78	
40 05 19 00-1540 EA 42" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,928.18	1,708.29
For Class 52 Rating, Deduct	-2,677.38	
For Class 54 Rating, Add	1,825.49	
For Class 55 Rating, Add	4,057.45	
40 05 19 00-1541 48" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
<small>(40 05 19 00-1028)</small>		
40 05 19 00-1542 EA 48" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,686.37	2,032.74
For Class 52 Rating, Deduct	-616.71	
For Class 54 Rating, Add	420.48	
For Class 55 Rating, Add	934.60	
40 05 19 00-1543 EA 48" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,483.72	2,035.20
For Class 52 Rating, Deduct	-704.01	
For Class 54 Rating, Add	480.01	
For Class 55 Rating, Add	1,066.89	
40 05 19 00-1544 EA 48" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,280.00	2,037.66
For Class 52 Rating, Deduct	-791.19	
For Class 54 Rating, Add	539.45	
For Class 55 Rating, Add	1,199.01	
40 05 19 00-1545 EA 48" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,082.79	2,040.13
For Class 52 Rating, Deduct	-879.09	
For Class 54 Rating, Add	599.38	
For Class 55 Rating, Add	1,332.21	
40 05 19 00-1546 EA 48" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,880.13	2,042.58
For Class 52 Rating, Deduct	-966.39	
For Class 54 Rating, Add	658.90	
For Class 55 Rating, Add	1,464.51	
40 05 19 00-1547 EA 48" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,677.49	2,045.04
For Class 52 Rating, Deduct	-1,053.68	
For Class 54 Rating, Add	718.42	
For Class 55 Rating, Add	1,596.81	
40 05 19 00-1548 EA 48" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,479.19	2,047.49
For Class 52 Rating, Deduct	-1,141.46	
For Class 54 Rating, Add	778.27	
For Class 55 Rating, Add	1,729.83	
40 05 19 00-1549 EA 48" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,277.64	2,049.94
For Class 52 Rating, Deduct	-1,228.88	
For Class 54 Rating, Add	837.87	
For Class 55 Rating, Add	1,862.31	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1550	EA		48" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,073.90	2,052.40
			<i>For Class 52 Rating, Deduct</i>	-1,316.06	
			<i>For Class 54 Rating, Add</i>	897.31	
			<i>For Class 55 Rating, Add</i>	1,994.43	
40 05 19 00-1551	EA		48" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,876.68	2,054.87
			<i>For Class 52 Rating, Deduct</i>	-1,403.96	
			<i>For Class 54 Rating, Add</i>	957.24	
			<i>For Class 55 Rating, Add</i>	2,127.63	
40 05 19 00-1552	EA		48" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,674.05	2,057.33
			<i>For Class 52 Rating, Deduct</i>	-1,491.26	
			<i>For Class 54 Rating, Add</i>	1,016.77	
			<i>For Class 55 Rating, Add</i>	2,259.93	
40 05 19 00-1553	EA		48" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,476.84	2,059.78
			<i>For Class 52 Rating, Deduct</i>	-1,579.15	
			<i>For Class 54 Rating, Add</i>	1,076.70	
			<i>For Class 55 Rating, Add</i>	2,393.14	
40 05 19 00-1554	EA		48" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,273.10	2,062.24
			<i>For Class 52 Rating, Deduct</i>	-1,666.33	
			<i>For Class 54 Rating, Add</i>	1,136.14	
			<i>For Class 55 Rating, Add</i>	2,525.25	
40 05 19 00-1555	EA		48" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,070.46	2,064.70
			<i>For Class 52 Rating, Deduct</i>	-1,753.63	
			<i>For Class 54 Rating, Add</i>	1,195.66	
			<i>For Class 55 Rating, Add</i>	2,657.55	
40 05 19 00-1556	EA		48" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,873.25	2,067.16
			<i>For Class 52 Rating, Deduct</i>	-1,841.53	
			<i>For Class 54 Rating, Add</i>	1,255.59	
			<i>For Class 55 Rating, Add</i>	2,790.76	
40 05 19 00-1557	EA		48" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,670.60	2,069.62
			<i>For Class 52 Rating, Deduct</i>	-1,928.83	
			<i>For Class 54 Rating, Add</i>	1,315.11	
			<i>For Class 55 Rating, Add</i>	2,923.05	
40 05 19 00-1558	EA		48" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,466.87	2,072.08
			<i>For Class 52 Rating, Deduct</i>	-2,016.01	
			<i>For Class 54 Rating, Add</i>	1,374.55	
			<i>For Class 55 Rating, Add</i>	3,055.17	
40 05 19 00-1559	EA		48" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,269.65	2,074.54
			<i>For Class 52 Rating, Deduct</i>	-2,103.91	
			<i>For Class 54 Rating, Add</i>	1,434.48	
			<i>For Class 55 Rating, Add</i>	3,188.37	
40 05 19 00-1560	EA		48" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,067.01	2,076.98
			<i>For Class 52 Rating, Deduct</i>	-2,191.21	
			<i>For Class 54 Rating, Add</i>	1,494.00	
			<i>For Class 55 Rating, Add</i>	3,320.67	
40 05 19 00-1561	EA		48" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,863.28	2,079.44
			<i>For Class 52 Rating, Deduct</i>	-2,278.39	
			<i>For Class 54 Rating, Add</i>	1,553.45	
			<i>For Class 55 Rating, Add</i>	3,452.79	
40 05 19 00-1562	EA		48" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,666.06	2,081.90
			<i>For Class 52 Rating, Deduct</i>	-2,366.28	
			<i>For Class 54 Rating, Add</i>	1,613.37	
			<i>For Class 55 Rating, Add</i>	3,585.99	
40 05 19 00-1563	EA		48" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,464.51	2,084.37
			<i>For Class 52 Rating, Deduct</i>	-2,453.70	
			<i>For Class 54 Rating, Add</i>	1,672.98	
			<i>For Class 55 Rating, Add</i>	3,718.47	
40 05 19 00-1564	EA		48" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,260.78	2,086.82
			<i>For Class 52 Rating, Deduct</i>	-2,540.88	
			<i>For Class 54 Rating, Add</i>	1,732.42	
			<i>For Class 55 Rating, Add</i>	3,850.59	
40 05 19 00-1565	EA		48" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,063.56	2,089.28
			<i>For Class 52 Rating, Deduct</i>	-2,628.78	
			<i>For Class 54 Rating, Add</i>	1,792.35	
			<i>For Class 55 Rating, Add</i>	3,983.79	
40 05 19 00-1566	EA		48" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,860.92	2,091.74
			<i>For Class 52 Rating, Deduct</i>	-2,716.08	
			<i>For Class 54 Rating, Add</i>	1,851.87	
			<i>For Class 55 Rating, Add</i>	4,116.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1567 EA 48" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,657.20	2,094.19
<i>For Class 52 Rating, Deduct</i>	-2,803.26	
<i>For Class 54 Rating, Add</i>	1,911.31	
<i>For Class 55 Rating, Add</i>	4,248.21	
40 05 19 00-1568 EA 48" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,459.97	2,096.65
<i>For Class 52 Rating, Deduct</i>	-2,891.16	
<i>For Class 54 Rating, Add</i>	1,971.24	
<i>For Class 55 Rating, Add</i>	4,381.41	
40 05 19 00-1569 EA 48" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,257.33	2,099.12
<i>For Class 52 Rating, Deduct</i>	-2,978.45	
<i>For Class 54 Rating, Add</i>	2,030.76	
<i>For Class 55 Rating, Add</i>	4,513.71	
40 05 19 00-1570 EA 48" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,956.98	2,101.58
<i>For Class 52 Rating, Deduct</i>	-3,055.01	
<i>For Class 54 Rating, Add</i>	2,082.96	
<i>For Class 55 Rating, Add</i>	4,629.72	
40 05 19 00-1571 EA 48" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,857.47	2,104.02
<i>For Class 52 Rating, Deduct</i>	-3,153.65	
<i>For Class 54 Rating, Add</i>	2,150.22	
<i>For Class 55 Rating, Add</i>	4,779.21	
40 05 19 00-1572 EA 48" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,653.75	2,106.48
<i>For Class 52 Rating, Deduct</i>	-3,240.83	
<i>For Class 54 Rating, Add</i>	2,209.66	
<i>For Class 55 Rating, Add</i>	4,911.33	
40 05 19 00-1573 EA 48" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,457.60	2,108.94
<i>For Class 52 Rating, Deduct</i>	-3,328.85	
<i>For Class 54 Rating, Add</i>	2,269.67	
<i>For Class 55 Rating, Add</i>	5,044.72	
40 05 19 00-1574 EA 48" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,253.88	2,111.39
<i>For Class 52 Rating, Deduct</i>	-3,416.03	
<i>For Class 54 Rating, Add</i>	2,329.11	
<i>For Class 55 Rating, Add</i>	5,176.83	
40 05 19 00-1575 EA 48" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,050.16	2,113.86
<i>For Class 52 Rating, Deduct</i>	-3,503.21	
<i>For Class 54 Rating, Add</i>	2,388.55	
<i>For Class 55 Rating, Add</i>	5,308.95	
40 05 19 00-1576 EA 48" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,854.02	2,116.32
<i>For Class 52 Rating, Deduct</i>	-3,591.22	
<i>For Class 54 Rating, Add</i>	2,448.56	
<i>For Class 55 Rating, Add</i>	5,442.33	
40 05 19 00-1577 EA 48" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,650.29	2,118.78
<i>For Class 52 Rating, Deduct</i>	-3,678.40	
<i>For Class 54 Rating, Add</i>	2,508.00	
<i>For Class 55 Rating, Add</i>	5,574.45	
40 05 19 00-1578 EA 48" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,447.65	2,121.23
<i>For Class 52 Rating, Deduct</i>	-3,765.70	
<i>For Class 54 Rating, Add</i>	2,567.52	
<i>For Class 55 Rating, Add</i>	5,706.75	
40 05 19 00-1579 EA 48" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,250.43	2,123.69
<i>For Class 52 Rating, Deduct</i>	-3,853.60	
<i>For Class 54 Rating, Add</i>	2,627.45	
<i>For Class 55 Rating, Add</i>	5,839.95	
40 05 19 00-1580 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbows		
<small>(40 05 19 00-0001)</small>		
40 05 19 00-1581 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	328.41	118.58
40 05 19 00-1582 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	459.93	151.64
40 05 19 00-1583 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	639.16	171.77
40 05 19 00-1584 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	931.42	217.76
40 05 19 00-1585 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,149.74	241.48
40 05 19 00-1586 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,428.86	262.32
40 05 19 00-1587 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,760.28	323.41
40 05 19 00-1588 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	2,305.58	388.11
40 05 19 00-1589 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	2,841.27	488.72
40 05 19 00-1590 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	4,301.81	553.41
40 05 19 00-1591 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	7,213.34	733.08
40 05 19 00-1592 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	10,202.66	830.10
40 05 19 00-1593 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	17,039.72	948.69
40 05 19 00-1594 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	22,677.54	1,164.31

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1595			Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbows (40 05 19 00-0001)		
40 05 19 00-1596	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	312.12	118.58
40 05 19 00-1597	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	433.88	151.64
40 05 19 00-1598	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	572.94	171.77
40 05 19 00-1599	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	835.88	217.76
40 05 19 00-1600	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,028.14	241.48
40 05 19 00-1601	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,181.32	262.32
40 05 19 00-1602	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,486.68	323.41
40 05 19 00-1603	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,937.53	388.11
40 05 19 00-1604	EA		20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	2,505.80	488.72
40 05 19 00-1605	EA		24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	3,289.96	553.41
40 05 19 00-1606	EA		30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	6,472.90	733.08
40 05 19 00-1607	EA		36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	9,661.99	830.10
40 05 19 00-1608	EA		42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	14,715.28	948.69
40 05 19 00-1609	EA		48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	20,048.03	1,164.31
40 05 19 00-1610			Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbows (40 05 19 00-0001)		
40 05 19 00-1611	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	311.04	118.58
40 05 19 00-1612	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	425.19	151.64
40 05 19 00-1613	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	565.34	171.77
40 05 19 00-1614	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	814.16	217.76
40 05 19 00-1615	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	1,075.91	241.48
40 05 19 00-1616	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	1,332.23	262.32
40 05 19 00-1617	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	1,520.34	323.41
40 05 19 00-1618	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	1,978.79	388.11
40 05 19 00-1619	EA		20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	2,684.93	488.72
40 05 19 00-1620	EA		24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	3,698.17	553.41
40 05 19 00-1621	EA		30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	6,545.64	733.08
40 05 19 00-1622	EA		36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	9,829.18	830.10
40 05 19 00-1623	EA		42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	15,048.58	948.69
40 05 19 00-1624	EA		48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	20,482.30	1,164.31
40 05 19 00-1625			Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbows (40 05 19 00-0001)		
40 05 19 00-1626	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow.....	338.18	118.58
40 05 19 00-1627	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow.....	476.22	151.64
40 05 19 00-1628	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow.....	587.05	171.77
40 05 19 00-1629	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow.....	891.25	217.76
40 05 19 00-1630	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow.....	1,218.14	241.48
40 05 19 00-1631	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow.....	1,369.14	262.32
40 05 19 00-1632	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow.....	1,674.51	323.41
40 05 19 00-1633	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow.....	1,978.79	388.11
40 05 19 00-1634	EA		20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow.....	2,684.93	488.72
40 05 19 00-1635	EA		24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow.....	3,844.74	553.41
40 05 19 00-1636	EA		30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow.....	6,618.38	733.08
40 05 19 00-1637	EA		36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow.....	9,900.84	830.10
40 05 19 00-1638	EA		42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow.....	15,124.58	948.69
40 05 19 00-1639	EA		48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow.....	20,635.38	1,164.31
40 05 19 00-1640			Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbows (40 05 19 00-0001)		
40 05 19 00-1641	EA		6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	433.81	135.11
40 05 19 00-1642	EA		8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	532.65	145.18
40 05 19 00-1643	EA		8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	600.04	161.71
40 05 19 00-1644	EA		10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	795.48	168.17
40 05 19 00-1645	EA		10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	841.16	184.70
40 05 19 00-1646	EA		10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	918.28	194.77
40 05 19 00-1647	EA		12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	855.25	180.39
40 05 19 00-1648	EA		12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	962.81	196.92
40 05 19 00-1649	EA		12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,104.00	206.98
40 05 19 00-1650	EA		12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,177.93	229.98
40 05 19 00-1651	EA		14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,104.00	206.98
40 05 19 00-1652	EA		14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,221.29	217.05
40 05 19 00-1653	EA		14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,360.36	240.04
40 05 19 00-1654	EA		14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,503.73	252.26
40 05 19 00-1655	EA		16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,272.96	237.53
40 05 19 00-1656	EA		16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,371.80	247.59
40 05 19 00-1657	EA		16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,572.75	270.59
40 05 19 00-1658	EA		16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,714.49	282.45
40 05 19 00-1659	EA		16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,834.51	292.87
40 05 19 00-1660	EA		18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,488.07	269.87
40 05 19 00-1661	EA		18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,773.64	279.93
40 05 19 00-1662	EA		18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,829.12	302.93
40 05 19 00-1663	EA		18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,930.69	314.79



	MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1664	EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	2,091.95	325.21
40 05 19 00-1665	EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	2,281.55	355.75
40 05 19 00-1666	EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,916.06	320.18
40 05 19 00-1667	EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	2,043.12	330.24
40 05 19 00-1668	EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	2,524.18	353.24
40 05 19 00-1669	EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	2,619.23	365.11
40 05 19 00-1670	EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	2,884.73	375.53
40 05 19 00-1671	EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	2,827.88	406.07
40 05 19 00-1672	EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	3,011.49	438.41
40 05 19 00-1673	EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	2,679.43	352.52
40 05 19 00-1674	EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	2,807.58	362.59
40 05 19 00-1675	EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	3,020.49	385.59
40 05 19 00-1676	EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	3,173.08	397.45
40 05 19 00-1677	EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	3,457.03	407.87
40 05 19 00-1678	EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	3,725.87	438.41
40 05 19 00-1679	EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	3,819.39	470.76
40 05 19 00-1680	EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	4,012.35	465.55
40 05 19 00-1681	EA 30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	4,759.66	487.29
40 05 19 00-1682	EA 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	5,063.16	497.71
40 05 19 00-1683	EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	5,702.23	528.25
40 05 19 00-1684	EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	6,619.77	560.59
40 05 19 00-1685	EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	7,648.14	610.90
40 05 19 00-1686	EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	8,077.13	643.24
40 05 19 00-1687	EA 36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	6,534.43	535.80
40 05 19 00-1688	EA 36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	8,439.30	546.22
40 05 19 00-1689	EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	6,884.20	576.76
40 05 19 00-1690	EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	8,965.60	609.11
40 05 19 00-1691	EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	8,589.10	659.41
40 05 19 00-1692	EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	9,360.09	691.76
40 05 19 00-1693	EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	9,993.44	781.59
40 05 19 00-1694	EA 42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	11,503.91	605.51
40 05 19 00-1695	EA 42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	9,722.99	636.06
40 05 19 00-1696	EA 42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	13,064.85	668.40
40 05 19 00-1697	EA 42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	12,866.41	718.71
40 05 19 00-1698	EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	11,251.06	751.05
40 05 19 00-1699	EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	13,250.21	840.88
40 05 19 00-1700	EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	18,660.92	889.40
40 05 19 00-1701	EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	17,862.84	867.84
40 05 19 00-1702	EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	19,428.80	957.67
40 05 19 00-1703	EA 48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	20,001.72	1,006.18
40 05 19 00-1704	EA 48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	25,540.59	1,065.48
40 05 19 00-1705	Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbows (40 05 19 00-0001)		
40 05 19 00-1706	EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	388.12	118.58
40 05 19 00-1707	EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	593.47	151.64
40 05 19 00-1708	EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	862.81	171.77
40 05 19 00-1709	EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	1,222.38	217.76
40 05 19 00-1710	EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	1,715.38	241.48
40 05 19 00-1711	EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	1,996.67	262.32
40 05 19 00-1712	EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	2,587.56	323.41
40 05 19 00-1713	EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	3,203.43	388.11
40 05 19 00-1714	EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	4,361.22	488.72
40 05 19 00-1715	EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	6,379.80	553.41
40 05 19 00-1716	EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	11,190.18	733.08
40 05 19 00-1717	EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	16,987.07	830.10
40 05 19 00-1718	EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	26,284.28	948.69
40 05 19 00-1719	Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbows With Base (40 05 19 00-0001)		
40 05 19 00-1720	EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	408.75	118.58
40 05 19 00-1721	EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	553.30	151.64
40 05 19 00-1722	EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	891.04	171.77
40 05 19 00-1723	EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	1,201.75	217.76
40 05 19 00-1724	EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	1,605.73	241.48
40 05 19 00-1725	EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	1,892.44	262.32
40 05 19 00-1726	EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	2,337.86	323.41
40 05 19 00-1727	EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	2,934.18	388.11
40 05 19 00-1728	EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	3,868.32	488.72
40 05 19 00-1729	EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	5,441.77	553.41
40 05 19 00-1730	EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	8,891.80	733.08
40 05 19 00-1731	EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	12,678.01	830.10
40 05 19 00-1732	EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	23,448.49	948.69
40 05 19 00-1733	EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base.....	25,308.15	1,164.31
40 05 19 00-1734	Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees (40 05 19 00-0001)		
40 05 19 00-1735	EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	559.99	190.45

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

40 05 19 00-1736	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	693.73	234.30
40 05 19 00-1737	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	962.02	261.61
40 05 19 00-1738	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	1,374.93	339.94
40 05 19 00-1739	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	1,812.60	370.86
40 05 19 00-1740	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	2,409.86	398.89
40 05 19 00-1741	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	2,739.29	503.10
40 05 19 00-1742	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	3,333.48	574.97
40 05 19 00-1743	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	4,204.88	725.89
40 05 19 00-1744	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	6,145.34	801.36
40 05 19 00-1745	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	10,413.45	1,106.81
40 05 19 00-1746	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	14,952.32	1,268.52
40 05 19 00-1747	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	30,719.46	1,466.16

40 05 19 00-1748 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tees

(40 05 19 00-0001)

40 05 19 00-1749	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	696.88	212.73
40 05 19 00-1750	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	854.33	217.05
40 05 19 00-1751	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	858.80	244.36
40 05 19 00-1752	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,118.26	240.04
40 05 19 00-1753	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,109.70	267.36
40 05 19 00-1754	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,170.58	284.60
40 05 19 00-1755	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,408.19	252.26
40 05 19 00-1756	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,409.40	279.57
40 05 19 00-1757	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,488.73	296.82
40 05 19 00-1758	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,773.44	352.16
40 05 19 00-1759	EA	14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,033.58	262.32
40 05 19 00-1760	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,995.71	289.63
40 05 19 00-1761	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,084.81	306.88
40 05 19 00-1762	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,208.84	362.23
40 05 19 00-1763	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,341.92	381.28
40 05 19 00-1764	EA	16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,462.03	292.87
40 05 19 00-1765	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,277.59	320.18
40 05 19 00-1766	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,245.09	337.43
40 05 19 00-1767	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,634.02	392.78
40 05 19 00-1768	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,561.91	411.82
40 05 19 00-1769	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,851.31	429.43
40 05 19 00-1770	EA	18" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,005.00	325.21
40 05 19 00-1771	EA	18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,284.25	352.52
40 05 19 00-1772	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,741.40	369.78
40 05 19 00-1773	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,761.19	425.12
40 05 19 00-1774	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,001.75	444.16
40 05 19 00-1775	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,272.71	461.77
40 05 19 00-1776	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,509.18	535.44
40 05 19 00-1777	EA	20" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	6,579.29	375.53
40 05 19 00-1778	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,337.58	402.84
40 05 19 00-1779	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,408.23	420.09
40 05 19 00-1780	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,559.39	475.43
40 05 19 00-1781	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,698.98	494.47
40 05 19 00-1782	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,748.47	512.08
40 05 19 00-1783	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	4,508.24	585.75
40 05 19 00-1784	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	4,612.65	625.28
40 05 19 00-1785	EA	24" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	4,395.06	407.87
40 05 19 00-1786	EA	24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,811.09	435.18
40 05 19 00-1787	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,983.79	452.43
40 05 19 00-1788	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	4,149.06	507.77
40 05 19 00-1789	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	4,642.59	526.81
40 05 19 00-1790	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	4,758.30	544.42
40 05 19 00-1791	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	4,928.54	618.09
40 05 19 00-1792	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	6,448.67	657.62
40 05 19 00-1793	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	6,674.43	702.72
40 05 19 00-1794	EA	30" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	7,763.36	525.02
40 05 19 00-1795	EA	30" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	7,812.30	542.27
40 05 19 00-1796	EA	30" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	8,040.56	597.61
40 05 19 00-1797	EA	30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	8,069.41	616.65
40 05 19 00-1798	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	8,096.09	634.26
40 05 19 00-1799	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	8,279.36	707.93
40 05 19 00-1800	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	8,387.02	747.45
40 05 19 00-1801	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	8,657.81	848.07
40 05 19 00-1802	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	11,046.50	891.19
40 05 19 00-1803	EA	36" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	10,714.19	751.41
40 05 19 00-1804	EA	36" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	11,454.69	765.06
40 05 19 00-1805	EA	36" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	11,537.93	804.23
40 05 19 00-1806	EA	36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	11,632.99	819.68
40 05 19 00-1807	EA	36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	11,678.11	833.70
40 05 19 00-1808	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	11,804.83	885.80
40 05 19 00-1809	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	11,883.16	921.74
40 05 19 00-1810	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	12,093.04	997.20
40 05 19 00-1811	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	12,366.26	1,034.93
40 05 19 00-1812	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	16,163.04	1,187.67
40 05 19 00-1813	EA	42" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	19,034.38	650.07
40 05 19 00-1814	EA	42" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	17,233.49	705.41



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1815 EA 42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,262.35	724.46
40 05 19 00-1816 EA 42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,314.00	742.06
40 05 19 00-1817 EA 42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,476.64	815.73
40 05 19 00-1818 EA 42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,664.65	855.26
40 05 19 00-1819 EA 42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,817.10	955.88
40 05 19 00-1820 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	18,086.55	999.00
40 05 19 00-1821 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	22,906.85	1,214.62
40 05 19 00-1822 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	29,386.17	1,327.81
40 05 19 00-1823 EA 48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	23,312.84	841.24
40 05 19 00-1824 EA 48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	23,339.52	858.85
40 05 19 00-1825 EA 48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	23,527.13	932.52
40 05 19 00-1826 EA 48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	23,587.03	972.05
40 05 19 00-1827 EA 48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	23,840.44	1,072.67
40 05 19 00-1828 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	24,084.92	1,115.80
40 05 19 00-1829 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	24,769.88	1,331.40
40 05 19 00-1830	Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees With Base (40 05 19 00-0001)	
40 05 19 00-1831 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	601.25	190.45
40 05 19 00-1832 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	812.07	234.30
40 05 19 00-1833 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	1,166.13	261.61
40 05 19 00-1834 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	1,760.35	339.94
40 05 19 00-1835 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	2,346.76	370.86
40 05 19 00-1836 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	2,618.31	398.89
40 05 19 00-1837 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	3,251.73	503.10
40 05 19 00-1838 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	3,942.55	574.97
40 05 19 00-1839 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	5,255.82	725.89
40 05 19 00-1840 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	7,515.47	801.36
40 05 19 00-1841 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	12,546.81	1,106.81
40 05 19 00-1842 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	17,817.43	1,268.52
40 05 19 00-1843	Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wyes (40 05 19 00-0001)	
40 05 19 00-1844 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	497.02	190.45
40 05 19 00-1845 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	688.30	234.30
40 05 19 00-1846 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	978.30	261.61
40 05 19 00-1847 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	1,284.82	339.94
40 05 19 00-1848 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	1,807.18	370.86
40 05 19 00-1849 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	2,327.34	398.89
40 05 19 00-1850	Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Crosses (40 05 19 00-0001)	
40 05 19 00-1851 EA 4" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	682.99	262.32
40 05 19 00-1852 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	887.75	284.24
40 05 19 00-1853 EA 6" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	943.81	316.94
40 05 19 00-1854 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,081.56	288.92
40 05 19 00-1855 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,181.62	327.01
40 05 19 00-1856 EA 8" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,226.25	351.44
40 05 19 00-1857 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,385.67	311.91
40 05 19 00-1858 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,526.97	350.01
40 05 19 00-1859 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,668.22	374.45
40 05 19 00-1860 EA 10" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,070.32	462.13
40 05 19 00-1861 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,777.11	323.77
40 05 19 00-1862 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,876.08	361.87
40 05 19 00-1863 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,018.41	386.31
40 05 19 00-1864 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,441.14	473.99
40 05 19 00-1865 EA 12" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,310.43	500.22
40 05 19 00-1866 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,224.07	372.29
40 05 19 00-1867 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,365.33	396.73
40 05 19 00-1868 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,643.67	484.41
40 05 19 00-1869 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,871.23	510.64
40 05 19 00-1870 EA 14" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,011.94	535.44
40 05 19 00-1871 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,644.91	402.84
40 05 19 00-1872 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,805.71	427.27
40 05 19 00-1873 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,084.04	514.96
40 05 19 00-1874 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,332.24	541.19
40 05 19 00-1875 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,606.40	565.98
40 05 19 00-1876 EA 16" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,795.38	682.77
40 05 19 00-1877 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,756.89	435.18
40 05 19 00-1878 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,916.60	459.62
40 05 19 00-1879 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,153.68	547.30
40 05 19 00-1880 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,400.79	573.53
40 05 19 00-1881 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,894.34	598.32
40 05 19 00-1882 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,259.11	715.11
40 05 19 00-1883 EA 18" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,454.76	761.83
40 05 19 00-1884 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,574.63	485.49
40 05 19 00-1885 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,745.20	509.93
40 05 19 00-1886 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,967.09	597.61
40 05 19 00-1887 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,230.48	623.84

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

40 05 19 00-1888	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	4,312.56	648.63
40 05 19 00-1889	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	5,249.49	765.42
40 05 19 00-1890	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	5,453.81	812.14
40 05 19 00-1891	EA	20" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	5,996.25	963.06
40 05 19 00-1892	EA	24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	4,696.29	517.83
40 05 19 00-1893	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	4,821.26	542.27
40 05 19 00-1894	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	5,110.44	629.95
40 05 19 00-1895	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	5,284.82	656.18
40 05 19 00-1896	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	5,389.70	680.97
40 05 19 00-1897	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	5,722.99	797.76
40 05 19 00-1898	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	7,381.03	844.48
40 05 19 00-1899	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	7,814.38	939.90
40 05 19 00-1900	EA	24" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	8,606.62	1,049.31
40 05 19 00-1901	EA	30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	8,624.78	746.02
40 05 19 00-1902	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	8,686.23	770.81
40 05 19 00-1903	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	9,030.38	887.60
40 05 19 00-1904	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	9,148.94	934.32
40 05 19 00-1905	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	9,641.44	1,085.25
40 05 19 00-1906	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,476.38	1,139.15
40 05 19 00-1907	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	14,212.86	1,480.53
40 05 19 00-1908	EA	36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,162.30	949.05
40 05 19 00-1909	EA	36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,194.43	970.25
40 05 19 00-1910	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,484.20	1,065.48
40 05 19 00-1911	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,596.21	1,108.61
40 05 19 00-1912	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	13,002.83	1,234.38
40 05 19 00-1913	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	13,459.59	1,282.89
40 05 19 00-1914	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	18,165.64	1,561.39
40 05 19 00-1915	EA	36" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	19,918.06	1,706.92
40 05 19 00-1916	EA	42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	17,841.60	853.82
40 05 19 00-1917	EA	42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	17,879.17	878.62
40 05 19 00-1918	EA	42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	18,209.21	995.40
40 05 19 00-1919	EA	42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	18,304.96	1,042.12
40 05 19 00-1920	EA	42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	18,763.80	1,193.06
40 05 19 00-1921	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	19,228.73	1,246.96
40 05 19 00-1922	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	24,749.86	1,588.34
40 05 19 00-1923	EA	42" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	34,110.87	1,766.22
40 05 19 00-1924	EA	48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	25,425.88	1,983.63
40 05 19 00-1925	EA	48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	23,902.51	995.40
40 05 19 00-1926	EA	48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	24,233.64	1,112.20
40 05 19 00-1927	EA	48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	24,329.39	1,158.92
40 05 19 00-1928	EA	48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	24,762.18	1,309.84
40 05 19 00-1929	EA	48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	25,227.09	1,363.75
40 05 19 00-1930	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	26,433.75	1,705.13

40 05 19 00-1931 Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducers (40 05 19 00-0001)

40 05 19 00-1932	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	363.24	135.11
40 05 19 00-1933	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	457.73	145.18
40 05 19 00-1934	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	504.50	161.71
40 05 19 00-1935	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	609.83	168.17
40 05 19 00-1936	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	618.59	184.70
40 05 19 00-1937	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	718.52	194.77
40 05 19 00-1938	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	771.66	180.39
40 05 19 00-1939	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	799.95	196.92
40 05 19 00-1940	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	874.92	206.98
40 05 19 00-1941	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	983.59	229.98
40 05 19 00-1942	EA	14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,188.63	196.92
40 05 19 00-1943	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	957.43	206.98
40 05 19 00-1944	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,056.27	217.05
40 05 19 00-1945	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,161.68	240.04
40 05 19 00-1946	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,133.51	252.26
40 05 19 00-1947	EA	16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,404.25	221.00
40 05 19 00-1948	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,150.28	237.53
40 05 19 00-1949	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,091.70	247.59
40 05 19 00-1950	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,215.56	270.59
40 05 19 00-1951	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,495.18	282.45
40 05 19 00-1952	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,606.51	292.87
40 05 19 00-1953	EA	18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,774.69	269.87
40 05 19 00-1954	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,420.79	279.93
40 05 19 00-1955	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,559.87	302.93
40 05 19 00-1956	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,552.87	314.79
40 05 19 00-1957	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,779.27	325.21
40 05 19 00-1958	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,783.22	355.75
40 05 19 00-1959	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,825.94	320.18
40 05 19 00-1960	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,774.96	330.24
40 05 19 00-1961	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,921.62	353.24
40 05 19 00-1962	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,877.71	365.11
40 05 19 00-1963	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,157.32	375.53
40 05 19 00-1964	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,036.42	406.07
40 05 19 00-1965	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,497.96	438.41



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1966 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	2,382.00	362.59
40 05 19 00-1967 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	2,685.01	385.59
40 05 19 00-1968 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	2,884.29	397.45
40 05 19 00-1969 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	2,960.88	407.87
40 05 19 00-1970 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	2,636.93	438.41
40 05 19 00-1971 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	3,171.24	470.76
40 05 19 00-1972 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	3,342.49	465.55
40 05 19 00-1973 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	4,535.12	528.25
40 05 19 00-1974 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	4,728.51	560.59
40 05 19 00-1975 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	5,092.45	610.90
40 05 19 00-1976 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	5,620.23	643.24
40 05 19 00-1977 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	6,165.48	576.76
40 05 19 00-1978 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	6,477.22	609.11
40 05 19 00-1979 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	6,888.92	659.41
40 05 19 00-1980 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	7,489.46	691.76
40 05 19 00-1981 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	8,630.91	781.59
40 05 19 00-1982 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	10,433.54	751.05
40 05 19 00-1983 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	11,794.31	840.88
40 05 19 00-1984 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	13,323.72	889.40
40 05 19 00-1985 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	13,240.02	867.84
40 05 19 00-1986 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	14,857.00	957.67
40 05 19 00-1987 EA 48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	16,590.51	1,006.18
40 05 19 00-1988 EA 48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	18,570.52	1,065.48

40 05 19 00-1989

Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducers (40 05 19 00-0001)

40 05 19 00-1990 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	392.55	135.11
40 05 19 00-1991 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	491.39	145.18
40 05 19 00-1992 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	557.70	161.71
40 05 19 00-1993 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	609.83	168.17
40 05 19 00-1994 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	654.42	184.70
40 05 19 00-1995 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	752.17	194.77
40 05 19 00-1996 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	771.66	180.39
40 05 19 00-1997 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	839.04	196.92
40 05 19 00-1998 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	916.17	206.98
40 05 19 00-1999 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,055.25	229.98
40 05 19 00-2000 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	957.43	206.98
40 05 19 00-2001 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,035.64	217.05
40 05 19 00-2002 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,154.09	240.04
40 05 19 00-2003 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,316.99	252.26
40 05 19 00-2004 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,150.28	237.53
40 05 19 00-2005 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,246.95	247.59
40 05 19 00-2006 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,386.02	270.59
40 05 19 00-2007 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,528.84	282.45
40 05 19 00-2008 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,606.51	292.87
40 05 19 00-2009 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,420.79	279.93
40 05 19 00-2010 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,559.87	302.93
40 05 19 00-2011 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,702.69	314.79
40 05 19 00-2012 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,779.27	325.21
40 05 19 00-2013 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,950.41	355.75
40 05 19 00-2014 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,058.28	320.18
40 05 19 00-2015 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,886.78	330.24
40 05 19 00-2016 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,921.62	353.24
40 05 19 00-2017 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,095.93	365.11
40 05 19 00-2018 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,157.32	375.53
40 05 19 00-2019 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,357.78	406.07
40 05 19 00-2020 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,496.88	438.41
40 05 19 00-2021 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,605.65	362.59
40 05 19 00-2022 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,685.01	385.59
40 05 19 00-2023 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,747.49	397.45
40 05 19 00-2024 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,807.80	407.87
40 05 19 00-2025 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,011.49	438.41
40 05 19 00-2026 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,171.24	470.76
40 05 19 00-2027 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,342.49	465.55
40 05 19 00-2028 EA 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	5,399.72	497.71
40 05 19 00-2029 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	5,277.72	528.25
40 05 19 00-2030 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	4,752.40	560.59
40 05 19 00-2031 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	5,092.45	610.90
40 05 19 00-2032 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	5,620.23	643.24
40 05 19 00-2033 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	6,213.25	576.76
40 05 19 00-2034 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	6,477.22	609.11
40 05 19 00-2035 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	6,865.04	659.41
40 05 19 00-2036 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	7,463.40	691.76
40 05 19 00-2037 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	8,607.02	781.59
40 05 19 00-2038 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	10,433.54	751.05
40 05 19 00-2039 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	8,862.97	840.88
40 05 19 00-2040 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	13,323.72	889.40
40 05 19 00-2041 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	14,857.00	957.67
40 05 19 00-2042 EA 48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	16,590.51	1,006.18
40 05 19 00-2043 EA 48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	18,570.52	1,065.48

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2044			Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flanges ⁽⁴⁰⁾		
			<small>05 19 00-0001</small>		
40 05 19 00-2045	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	139.18	46.72
40 05 19 00-2046	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	208.77	68.99
40 05 19 00-2047	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	298.93	81.93
40 05 19 00-2048	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	407.56	95.59
40 05 19 00-2049	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	523.81	112.12
40 05 19 00-2050	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	687.81	125.77
40 05 19 00-2051	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	820.34	143.74
40 05 19 00-2052	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,112.66	201.23
40 05 19 00-2053	EA		20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,474.41	251.54
40 05 19 00-2054	EA		24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	2,089.16	305.45
40 05 19 00-2055	EA		30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	2,929.70	355.75
40 05 19 00-2056	EA		36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	5,181.55	391.70
40 05 19 00-2057	EA		42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	7,280.36	431.23
40 05 19 00-2058	EA		48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	9,603.96	485.13
40 05 19 00-2059			Ductile Iron Bolt Packs ^(40 05 19)		
			Note: Labor installation is included with pipe fittings or valves.		
40 05 19 00-2060	EA		4" Pipe Diameter, Ductile Iron Flange Bolt Pack	38.62	
			Note: Includes eight (8) 5/8" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	10.81	
			For Hot Dip Galvanized, Add	15.45	
40 05 19 00-2061	EA		6" Pipe Diameter, Ductile Iron Flange Bolt Pack	59.59	
			Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	16.69	
			For Hot Dip Galvanized, Add	23.84	
40 05 19 00-2062	EA		8" Pipe Diameter, Ductile Iron Flange Bolt Pack	64.71	
			Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	18.12	
			For Hot Dip Galvanized, Add	25.88	
40 05 19 00-2063	EA		10" Pipe Diameter, Ductile Iron Flange Bolt Pack	145.35	
			Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	40.70	
			For Hot Dip Galvanized, Add	58.14	
40 05 19 00-2064	EA		12" Pipe Diameter, Ductile Iron Flange Bolt Pack	146.63	
			Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	41.06	
			For Hot Dip Galvanized, Add	58.65	
40 05 19 00-2065	EA		14" Pipe Diameter, Ductile Iron Flange Bolt Pack	164.28	
			Note: Includes twelve (12) 1" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	46.00	
			For Hot Dip Galvanized, Add	65.71	
40 05 19 00-2066	EA		16" Pipe Diameter, Ductile Iron Flange Bolt Pack	276.17	
			Note: Includes sixteen (16) 1" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	77.33	
			For Hot Dip Galvanized, Add	110.47	
40 05 19 00-2067	EA		18" Pipe Diameter, Ductile Iron Flange Bolt Pack	401.20	
			Note: Includes sixteen (16) 1-1/8" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	112.34	
			For Hot Dip Galvanized, Add	160.48	
40 05 19 00-2068	EA		20" Pipe Diameter, Ductile Iron Flange Bolt Pack	506.57	
			Note: Includes twenty (20) 1-1/8" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	141.84	
			For Hot Dip Galvanized, Add	202.63	
40 05 19 00-2069	EA		24" Pipe Diameter, Ductile Iron Flange Bolt Pack	724.81	
			Note: Includes twenty (20) 1-1/4" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	202.95	
			For Hot Dip Galvanized, Add	289.92	
40 05 19 00-2070	EA		30" Pipe Diameter, Ductile Iron Flange Bolt Pack	1,145.31	
			Note: Includes twenty-eight (28) 1-1/4" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	320.69	
			For Hot Dip Galvanized, Add	458.12	
40 05 19 00-2071	EA		36" Pipe Diameter, Ductile Iron Flange Bolt Pack	1,633.81	
			Note: Includes thirty-two (32) 1-1/2" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	457.47	
			For Hot Dip Galvanized, Add	653.52	
40 05 19 00-2072	EA		42" Pipe Diameter, Ductile Iron Flange Bolt Pack	2,101.85	
			Note: Includes thirty-six (36) 1-1/2" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	588.52	
			For Hot Dip Galvanized, Add	840.74	
40 05 19 00-2073	EA		48" Pipe Diameter, Ductile Iron Flange Bolt Pack	2,568.93	
			Note: Includes forty-four (44) 1-1/2" diameter plain finish bolts with washers and nut.		
			For Zinc Plated, Add	719.30	
			For Hot Dip Galvanized, Add	1,027.57	
40 05 19 00-2074			Full Face Flange Gaskets, ANSI/AWWA C115/A21.15 ^(40 05 19)		
			Note: Labor installation is included with pipe fittings or valves.		
40 05 19 00-2075			Full Face Flange Styrene Butadiene (SBR) Gaskets ^(40 05 19 00-2074)		
40 05 19 00-2076	EA		4" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	6.52	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2077	EA			6" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	8.30	
40 05 19 00-2078	EA			8" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	11.26	
40 05 19 00-2079	EA			10" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	13.04	
40 05 19 00-2080	EA			12" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	14.22	
40 05 19 00-2081	EA			14" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	23.70	
40 05 19 00-2082	EA			16" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	29.03	
40 05 19 00-2083	EA			18" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	30.81	
40 05 19 00-2084	EA			20" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	47.40	
40 05 19 00-2085	EA			24" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	50.96	
40 05 19 00-2086	EA			30" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	65.77	
40 05 19 00-2087	EA			36" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	75.25	
40 05 19 00-2088	EA			42" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	80.58	
40 05 19 00-2089	EA			48" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	88.28	
40 05 19 00-2090	Full Face Flange Nitrile Buna-N (NBR) Gaskets (40 05 19 00-2074)					
Note: (Acrylonitrile Butadiene)						
40 05 19 00-2091	EA			4" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	20.14	
40 05 19 00-2092	EA			6" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	28.44	
40 05 19 00-2093	EA			8" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	43.84	
40 05 19 00-2094	EA			10" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	47.99	
40 05 19 00-2095	EA			12" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	51.55	
40 05 19 00-2096	EA			14" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	97.17	
40 05 19 00-2097	EA			16" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	119.68	
40 05 19 00-2098	EA			18" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	120.28	
40 05 19 00-2099	EA			20" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	125.02	
40 05 19 00-2100	EA			24" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	132.13	
40 05 19 00-2101	EA			30" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	146.35	
40 05 19 00-2102	EA			36" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	161.16	
40 05 19 00-2103	EA			42" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	229.30	
40 05 19 00-2104	EA			48" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	250.63	
40 05 19 00-2105	Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gaskets (40 05 19 00-2074)					
40 05 19 00-2106	EA			4" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	17.78	
40 05 19 00-2107	EA			6" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	23.11	
40 05 19 00-2108	EA			8" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	31.40	
40 05 19 00-2109	EA			10" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	36.74	
40 05 19 00-2110	EA			12" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	40.88	
40 05 19 00-2111	EA			14" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	67.54	
40 05 19 00-2112	EA			16" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	81.17	
40 05 19 00-2113	EA			18" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	81.76	
40 05 19 00-2114	EA			20" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	83.54	
40 05 19 00-2115	EA			24" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	97.17	
40 05 19 00-2116	EA			30" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	119.09	
40 05 19 00-2117	EA			36" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	135.68	
40 05 19 00-2118	EA			42" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	194.34	
40 05 19 00-2119	EA			48" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	214.48	
40 05 19 00-2120	Full Face Flange Neoprene Gaskets (40 05 19 00-2074)					
Note: (Polychloroprene)						
40 05 19 00-2121	EA			4" Full Face Flange Neoprene Gasket, 1/8" Thick.....	20.74	
40 05 19 00-2122	EA			6" Full Face Flange Neoprene Gasket, 1/8" Thick.....	29.03	
40 05 19 00-2123	EA			8" Full Face Flange Neoprene Gasket, 1/8" Thick.....	44.44	
40 05 19 00-2124	EA			10" Full Face Flange Neoprene Gasket, 1/8" Thick.....	47.99	
40 05 19 00-2125	EA			12" Full Face Flange Neoprene Gasket, 1/8" Thick.....	51.55	
40 05 19 00-2126	EA			14" Full Face Flange Neoprene Gasket, 1/8" Thick.....	68.73	
40 05 19 00-2127	EA			16" Full Face Flange Neoprene Gasket, 1/8" Thick.....	120.87	
40 05 19 00-2128	EA			18" Full Face Flange Neoprene Gasket, 1/8" Thick.....	121.46	
40 05 19 00-2129	EA			20" Full Face Flange Neoprene Gasket, 1/8" Thick.....	128.57	
40 05 19 00-2130	EA			24" Full Face Flange Neoprene Gasket, 1/8" Thick.....	130.35	
40 05 19 00-2131	EA			30" Full Face Flange Neoprene Gasket, 1/8" Thick.....	141.61	
40 05 19 00-2132	EA			36" Full Face Flange Neoprene Gasket, 1/8" Thick.....	159.38	
40 05 19 00-2133	EA			42" Full Face Flange Neoprene Gasket, 1/8" Thick.....	231.08	
40 05 19 00-2134	EA			48" Full Face Flange Neoprene Gasket, 1/8" Thick.....	253.00	
40 05 19 00-2135	Full Face Flange FKM Gaskets (40 05 19 00-2074)					
Note: (Fluoroelastomer Fluorel Viton®)						
40 05 19 00-2136	EA			4" Full Face Flange FKM Gasket, 1/8" Thick.....	61.07	
40 05 19 00-2137	EA			6" Full Face Flange FKM Gasket, 1/8" Thick.....	90.93	
40 05 19 00-2138	EA			8" Full Face Flange FKM Gasket, 1/8" Thick.....	121.46	
40 05 19 00-2139	EA			10" Full Face Flange FKM Gasket, 1/8" Thick.....	146.57	
40 05 19 00-2140	EA			12" Full Face Flange FKM Gasket, 1/8" Thick.....	190.67	
40 05 19 00-2141	EA			14" Full Face Flange FKM Gasket, 1/8" Thick.....	348.77	
40 05 19 00-2142	EA			16" Full Face Flange FKM Gasket, 1/8" Thick.....	399.67	
40 05 19 00-2143	EA			18" Full Face Flange FKM Gasket, 1/8" Thick.....	418.67	
40 05 19 00-2144	EA			20" Full Face Flange FKM Gasket, 1/8" Thick.....	446.49	
40 05 19 00-2145	EA			24" Full Face Flange FKM Gasket, 1/8" Thick.....	617.48	
40 05 19 00-2146	EA			30" Full Face Flange FKM Gasket, 1/8" Thick.....	740.30	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2147 EA 36" Full Face Flange FKM Gasket, 1/8" Thick.....	781.01	
40 05 19 00-2148 EA 42" Full Face Flange FKM Gasket, 1/8" Thick.....	973.72	
40 05 19 00-2149 EA 48" Full Face Flange FKM Gasket, 1/8" Thick.....	1,020.54	
40 05 19 00-2150 Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100) (40 05 19)		
40 05 19 00-2151 EA 4" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	328.20	64.90
40 05 19 00-2152 EA 6" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	454.08	79.23
40 05 19 00-2153 EA 8" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	670.04	96.63
40 05 19 00-2154 EA 10" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	918.74	117.88
40 05 19 00-2155 EA 12" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	1,165.80	143.74
40 05 19 00-2156 EA 14" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	1,867.28	175.38
40 05 19 00-2157 EA 16" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	2,930.23	214.03
40 05 19 00-2158 EA 18" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	3,029.70	261.04
40 05 19 00-2159 EA 20" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	3,711.70	318.54
40 05 19 00-2160 EA 24" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	4,139.08	388.54
40 05 19 00-2161 EA 30" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	5,331.63	474.11
40 05 19 00-2162 EA 36" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	7,913.17	578.33
40 05 19 00-2163 EA 42" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	20,546.59	705.64
40 05 19 00-2164 EA 48" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	26,240.40	860.83
40 05 23 Stainless Steel Process Pipe and Tubing (40 05)		
40 05 23 23 300- and 400-Series Stainless Steel Process Pipe (40 05 23)		
40 05 23 23-0001 Schedule 40 Pipe, Type 304, With 150 LB Screwed Fittings Assembly (40 05 23)		
<i>23</i> Note: Includes hangers and fittings. Fittings are assumed every 10'. Not for use where detail is available.		
40 05 23 23-0002 LF 1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly.....	28.64	8.66
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Type 316, Add</i>	2.92	
<i>For Work In Restricted Working Space, Add</i>	5.22	
40 05 23 23-0003 LF 3/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly.....	32.46	9.92
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Type 316, Add</i>	3.06	
<i>For Work In Restricted Working Space, Add</i>	6.20	
40 05 23 23-0004 LF 1" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly.....	37.79	11.19
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Type 316, Add</i>	3.59	
<i>For Work In Restricted Working Space, Add</i>	7.20	
40 05 23 23-0005 LF 1-1/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly.....	43.26	13.52
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Type 316, Add</i>	4.53	
<i>For Work In Restricted Working Space, Add</i>	7.75	
40 05 23 23-0006 LF 1-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly.....	47.65	13.91
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Type 316, Add</i>	5.19	
<i>For Work In Restricted Working Space, Add</i>	8.31	
40 05 23 23-0007 LF 2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly.....	57.70	18.39
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Type 316, Add</i>	6.33	
<i>For Work In Restricted Working Space, Add</i>	10.01	
40 05 23 23-0008 LF 2-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly.....	83.18	22.66
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Type 316, Add</i>	10.88	
<i>For Work In Restricted Working Space, Add</i>	12.40	
40 05 23 23-0009 LF 3" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly.....	105.06	26.26
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Type 316, Add</i>	14.17	
<i>For Work In Restricted Working Space, Add</i>	15.17	
40 05 23 23-0010 LF 4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly.....	142.63	26.26
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	19.25	
40 05 23 23-0011 Stainless Steel Tubing And Fittings (40 05 23 23)		
40 05 23 23-0012 Type 304 Tubing (40 05 23 23-0011)		
40 05 23 23-0013 0.035" Wall (40 05 23 23-0012)		
40 05 23 23-0014 LF 1/4", 0.035" Wall, Type 304, Stainless Steel Tubing.....	7.73	2.87
<i>For Work In Restricted Working Space, Add</i>	1.71	
40 05 23 23-0015 LF 3/8", 0.035" Wall, Type 304, Stainless Steel Tubing.....	8.96	3.41
<i>For Work In Restricted Working Space, Add</i>	2.05	
40 05 23 23-0016 LF 1/2", 0.035" Wall, Type 304, Stainless Steel Tubing.....	10.69	4.04
<i>For Work In Restricted Working Space, Add</i>	2.40	
40 05 23 23-0017 LF 5/8", 0.035" Wall, Type 304, Stainless Steel Tubing.....	17.37	4.58
<i>For Work In Restricted Working Space, Add</i>	2.74	
40 05 23 23-0018 LF 3/4", 0.035" Wall, Type 304, Stainless Steel Tubing.....	20.59	5.11
<i>For Work In Restricted Working Space, Add</i>	3.08	
40 05 23 23-0019 LF 7/8", 0.035" Wall, Type 304, Stainless Steel Tubing.....	22.79	5.75
<i>For Work In Restricted Working Space, Add</i>	3.43	
40 05 23 23-0020 LF 1", 0.035" Wall, Type 304, Stainless Steel Tubing.....	25.48	6.91
<i>For Work In Restricted Working Space, Add</i>	4.12	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0021				0.049" Wall <small>(40 05 23 23-0012)</small>		
			LF	1/4", 0.049" Wall, Type 304, Stainless Steel Tubing	12.83	3.41
				<i>For Work In Restricted Working Space, Add</i>	2.05	
			LF	3/8", 0.049" Wall, Type 304, Stainless Steel Tubing	14.30	4.04
				<i>For Work In Restricted Working Space, Add</i>	2.40	
			LF	1/2", 0.049" Wall, Type 304, Stainless Steel Tubing	17.19	4.58
				<i>For Work In Restricted Working Space, Add</i>	2.74	
			LF	5/8", 0.049" Wall, Type 304, Stainless Steel Tubing	21.75	5.75
				<i>For Work In Restricted Working Space, Add</i>	3.43	
			LF	3/4", 0.049" Wall, Type 304, Stainless Steel Tubing	24.90	6.91
				<i>For Work In Restricted Working Space, Add</i>	4.12	
			LF	7/8", 0.049" Wall, Type 304, Stainless Steel Tubing	27.98	7.97
				<i>For Work In Restricted Working Space, Add</i>	4.80	
			LF	1", 0.049" Wall, Type 304, Stainless Steel Tubing	32.28	9.04
				<i>For Work In Restricted Working Space, Add</i>	5.45	
40 05 23 23-0029				0.065" Wall <small>(40 05 23 23-0012)</small>		
			LF	1/4", 0.065" Wall, Type 304, Stainless Steel Tubing	14.97	4.04
				<i>For Work In Restricted Working Space, Add</i>	2.40	
			LF	3/8", 0.065" Wall, Type 304, Stainless Steel Tubing	17.24	4.58
				<i>For Work In Restricted Working Space, Add</i>	2.74	
			LF	1/2", 0.065" Wall, Type 304, Stainless Steel Tubing	21.26	5.75
				<i>For Work In Restricted Working Space, Add</i>	3.43	
			LF	5/8", 0.065" Wall, Type 304, Stainless Steel Tubing	24.99	6.91
				<i>For Work In Restricted Working Space, Add</i>	4.12	
			LF	3/4", 0.065" Wall, Type 304, Stainless Steel Tubing	29.47	7.97
				<i>For Work In Restricted Working Space, Add</i>	4.80	
			LF	7/8", 0.065" Wall, Type 304, Stainless Steel Tubing	33.85	9.04
				<i>For Work In Restricted Working Space, Add</i>	5.45	
			LF	1", 0.065" Wall, Type 304, Stainless Steel Tubing	38.15	10.21
				<i>For Work In Restricted Working Space, Add</i>	6.14	
40 05 23 23-0037				Type 304 Tube Fittings <small>(40 05 23 23-0011)</small>		
40 05 23 23-0038				90 Degree Elbows <small>(40 05 23 23-0037)</small>		
			EA	1/4", Type 304, Stainless Steel, 90 Degree Elbow	48.34	11.49
				<i>For Work In Restricted Working Space, Add</i>	6.86	
			EA	3/8", Type 304, Stainless Steel, 90 Degree Elbow	57.14	12.55
				<i>For Work In Restricted Working Space, Add</i>	7.51	
			EA	1/2", Type 304, Stainless Steel, 90 Degree Elbow	85.94	14.14
				<i>For Work In Restricted Working Space, Add</i>	8.51	
			EA	5/8", Type 304, Stainless Steel, 90 Degree Elbow	91.82	15.84
				<i>For Work In Restricted Working Space, Add</i>	9.53	
			EA	3/4", Type 304, Stainless Steel, 90 Degree Elbow	102.68	17.13
				<i>For Work In Restricted Working Space, Add</i>	10.29	
			EA	7/8", Type 304, Stainless Steel, 90 Degree Elbow	140.14	19.04
				<i>For Work In Restricted Working Space, Add</i>	11.40	
			EA	1", Type 304, Stainless Steel, 90 Degree Elbow	178.41	22.66
				<i>For Work In Restricted Working Space, Add</i>	13.58	
40 05 23 23-0046				Union Tees <small>(40 05 23 23-0037)</small>		
			EA	1/4", Type 304, Stainless Steel, Union Tee	76.66	17.13
				<i>For Work In Restricted Working Space, Add</i>	10.29	
			EA	3/8", Type 304, Stainless Steel, Union Tee	92.94	19.04
				<i>For Work In Restricted Working Space, Add</i>	11.40	
			EA	1/2", Type 304, Stainless Steel, Union Tee	126.84	21.27
				<i>For Work In Restricted Working Space, Add</i>	12.77	
			EA	5/8", Type 304, Stainless Steel, Union Tee	136.51	24.14
				<i>For Work In Restricted Working Space, Add</i>	14.50	
			EA	3/4", Type 304, Stainless Steel, Union Tee	174.23	25.95
				<i>For Work In Restricted Working Space, Add</i>	15.56	
			EA	7/8", Type 304, Stainless Steel, Union Tee	276.45	28.72
				<i>For Work In Restricted Working Space, Add</i>	17.25	
			EA	1", Type 304, Stainless Steel, Union Tee	331.32	34.35
				<i>For Work In Restricted Working Space, Add</i>	20.59	
40 05 23 23-0054				Unions <small>(40 05 23 23-0037)</small>		
			EA	1/4", Type 304, Stainless Steel, Union	73.29	17.13
				<i>For Work In Restricted Working Space, Add</i>	10.29	
			EA	3/8", Type 304, Stainless Steel, Union	94.84	19.04
				<i>For Work In Restricted Working Space, Add</i>	11.40	
			EA	1/2", Type 304, Stainless Steel, Union	128.09	21.27
				<i>For Work In Restricted Working Space, Add</i>	12.77	
			EA	5/8", Type 304, Stainless Steel, Union	156.08	24.14
				<i>For Work In Restricted Working Space, Add</i>	14.50	
			EA	3/4", Type 304, Stainless Steel, Union	186.14	25.95
				<i>For Work In Restricted Working Space, Add</i>	15.56	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23	23-0060	EA	7/8", Type 304, Stainless Steel, Union <i>For Work In Restricted Working Space, Add</i>	285.96 17.25	28.72
40 05 23	23-0061	EA	1", Type 304, Stainless Steel, Union <i>For Work In Restricted Working Space, Add</i>	304.39 20.59	34.35
40 05 23	23-0062		Male Connectors <small>(40 05 23 23-0037)</small>		
40 05 23	23-0063	EA	1/4" x 1/4", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	36.27 6.86	11.49
40 05 23	23-0064	EA	3/8" x 3/8", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	45.28 7.51	12.55
40 05 23	23-0065	EA	1/2" x 1/2", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	58.66 8.51	14.14
40 05 23	23-0066	EA	5/8" x 5/8" Male Connection, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	66.10 9.53	15.84
40 05 23	23-0067	EA	3/4" x 3/4", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	79.83 10.29	17.13
40 05 23	23-0068	EA	7/8" x 7/8", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	120.09 11.40	19.04
40 05 23	23-0069	EA	1" x 1", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	125.82 13.58	22.66
40 05 23	23-0070		Type 304 Valves <small>(40 05 23 23-0011)</small>		
40 05 23	23-0071		Gate Valves <small>(40 05 23 23-0070)</small>		
40 05 23	23-0072	EA	1/4" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	165.59 9.29	17.13
40 05 23	23-0073	EA	3/8" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	275.34 9.78	20.10
40 05 23	23-0074	EA	1/2" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	288.00 13.58	22.66
40 05 23	23-0075	EA	3/4" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	319.58 15.56	25.95
40 05 23	23-0076	EA	1" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	297.31 20.59	34.35
40 05 23	23-0077		Globe Valves <small>(40 05 23 23-0070)</small>		
40 05 23	23-0078	EA	1/4" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	167.79 9.29	17.13
40 05 23	23-0079	EA	3/8" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	113.13 9.78	20.10
40 05 23	23-0080	EA	1/2" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	200.75 13.58	22.66
40 05 23	23-0081	EA	3/4" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	223.76 15.56	25.95
40 05 23	23-0082	EA	1" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	325.08 20.59	34.35
40 05 23	23-0083		Check Valves <small>(40 05 23 23-0070)</small>		
40 05 23	23-0084	EA	1/4" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	232.61 9.29	17.13
40 05 23	23-0085	EA	3/8" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	234.24 9.78	20.10
40 05 23	23-0086	EA	1/2" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	157.97 13.58	22.66
40 05 23	23-0087	EA	3/4" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	166.23 15.56	25.95
40 05 23	23-0088	EA	1" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	186.23 20.59	34.35
40 05 23	23-0089		Plug Valves <small>(40 05 23 23-0070)</small>		
40 05 23	23-0090	EA	1/2" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	359.29 13.58	22.66
40 05 23	23-0091	EA	3/4" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	393.82 15.56	25.95
40 05 23	23-0092	EA	1" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	447.78 20.59	34.35
40 05 23	23-0093	EA	1-1/2" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	618.58 23.29	38.83
40 05 23	23-0094	EA	2" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	806.51 31.91	53.18
40 05 23	23-0095		Type 316 Tubing <small>(40 05 23 23-0011)</small>		
40 05 23	23-0096		0.035" Wall <small>(40 05 23 23-0095)</small>		
40 05 23	23-0097	LF	1/4" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	8.03 1.71	2.87



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0098 LF 3/8" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	10.46 2.05	3.41
40 05 23 23-0099 LF 1/2" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	11.61 2.40	4.04
40 05 23 23-0100 LF 5/8" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	19.81 2.74	4.58
40 05 23 23-0101 LF 3/4" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	22.48 3.08	5.11
40 05 23 23-0102 LF 7/8" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	28.60 3.43	5.75
40 05 23 23-0103 LF 1" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	29.98 4.12	6.91
40 05 23 23-0104 0.049" Wall <small>(40 05 23 23-0095)</small>		
40 05 23 23-0105 LF 1/4" Stainless Steel Tubing, Type 316, 0.049" Wall <i>For Work In Restricted Working Space, Add</i>	14.13 2.05	3.41
40 05 23 23-0106 LF 3/8" Stainless Steel Tubing, Type 316, 0.049" Wall <i>For Work In Restricted Working Space, Add</i>	15.66 2.40	4.04
40 05 23 23-0107 LF 1/2" Stainless Steel Tubing, Type 316, 0.049" Wall <i>For Work In Restricted Working Space, Add</i>	18.47 2.74	4.58
40 05 23 23-0108 LF 5/8" Stainless Steel Tubing, Type 316, 0.049" Wall <i>For Work In Restricted Working Space, Add</i>	24.12 3.43	5.75
40 05 23 23-0109 LF 3/4" Stainless Steel Tubing, Type 316, 0.049" Wall <i>For Work In Restricted Working Space, Add</i>	27.84 4.12	6.91
40 05 23 23-0110 LF 7/8" Stainless Steel Tubing, Type 316, 0.049" Wall <i>For Work In Restricted Working Space, Add</i>	35.54 4.80	7.97
40 05 23 23-0111 LF 1" Stainless Steel Tubing, Type 316, 0.049" Wall <i>For Work In Restricted Working Space, Add</i>	36.24 5.45	9.04
40 05 23 23-0112 0.065" Wall <small>(40 05 23 23-0095)</small>		
40 05 23 23-0113 LF 1/4" Stainless Steel Tubing, Type 316, 0.065" Wall <i>For Work In Restricted Working Space, Add</i>	16.52 2.40	4.04
40 05 23 23-0114 LF 3/8" Stainless Steel Tubing, Type 316, 0.065" Wall <i>For Work In Restricted Working Space, Add</i>	18.42 2.74	4.58
40 05 23 23-0115 LF 1/2" Stainless Steel Tubing, Type 316, 0.065" Wall <i>For Work In Restricted Working Space, Add</i>	23.12 3.43	5.75
40 05 23 23-0116 LF 5/8" Stainless Steel Tubing, Type 316, 0.065" Wall <i>For Work In Restricted Working Space, Add</i>	27.55 4.12	6.91
40 05 23 23-0117 LF 3/4" Stainless Steel Tubing, Type 316, 0.065" Wall <i>For Work In Restricted Working Space, Add</i>	33.40 4.80	7.97
40 05 23 23-0118 LF 7/8" Stainless Steel Tubing, Type 316, 0.065" Wall <i>For Work In Restricted Working Space, Add</i>	36.77 5.45	9.04
40 05 23 23-0119 LF 1" Stainless Steel Tubing, Type 316, 0.065" Wall <i>For Work In Restricted Working Space, Add</i>	42.85 6.14	10.21
40 05 23 23-0120 Type 316 Tube Fittings <small>(40 05 23 23-0011)</small>		
40 05 23 23-0121 90 Degree Elbows <small>(40 05 23 23-0120)</small>		
40 05 23 23-0122 EA 1/4" 90 Degree Elbow, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	66.72 6.86	11.49
40 05 23 23-0123 EA 3/8" 90 Degree Elbow, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	80.32 7.51	12.55
40 05 23 23-0124 EA 1/2" 90 Degree Elbow, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	127.51 8.51	14.14
40 05 23 23-0125 EA 5/8" 90 Degree Elbow, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	135.19 9.53	15.84
40 05 23 23-0126 EA 3/4" 90 Degree Elbow, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	152.05 10.29	17.13
40 05 23 23-0127 EA 7/8" 90 Degree Elbow, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	213.88 11.40	19.04
40 05 23 23-0128 EA 1" 90 Degree Elbow, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	274.54 13.58	22.66
40 05 23 23-0129 Union Tees <small>(40 05 23 23-0120)</small>		
40 05 23 23-0130 EA 1/4" Union Tee, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	107.24 10.29	17.13
40 05 23 23-0131 EA 3/8" Union Tee, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	132.61 11.40	19.04
40 05 23 23-0132 EA 1/2" Union Tee, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	187.70 12.77	21.27
40 05 23 23-0133 EA 5/8" Union Tee, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	200.16 14.50	24.14
40 05 23 23-0134 EA 3/4" Union Tee, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	262.57 15.56	25.95
40 05 23 23-0135 EA 7/8" Union Tee, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	434.54 17.25	28.72
40 05 23 23-0136 EA 1" Union Tee, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	520.98 20.59	34.35

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0137			Unions <small>(40 05 23 23-0120)</small>		
40 05 23 23-0138	EA		1/4" Union, Stainless Steel Type 316.....	68.63	17.13
			<i>For Work In Restricted Working Space, Add</i>	10.29	
40 05 23 23-0139	EA		3/8" Union, Stainless Steel Type 316.....	88.04	19.04
			<i>For Work In Restricted Working Space, Add</i>	11.40	
40 05 23 23-0140	EA		1/2" Union, Stainless Steel Type 316.....	117.86	21.27
			<i>For Work In Restricted Working Space, Add</i>	12.77	
40 05 23 23-0141	EA		5/8" Union, Stainless Steel Type 316.....	143.20	24.14
			<i>For Work In Restricted Working Space, Add</i>	14.50	
40 05 23 23-0142	EA		3/4" Union, Stainless Steel Type 316.....	170.09	25.95
			<i>For Work In Restricted Working Space, Add</i>	15.56	
40 05 23 23-0143	EA		7/8" Union, Stainless Steel Type 316.....	258.65	28.72
			<i>For Work In Restricted Working Space, Add</i>	17.25	
40 05 23 23-0144	EA		1" Union, Stainless Steel Type 316.....	276.21	34.35
			<i>For Work In Restricted Working Space, Add</i>	20.59	
40 05 23 23-0145			Male Connectors <small>(40 05 23 23-0120)</small>		
40 05 23 23-0146	EA		1/4" x 1/4" Male Connector, Stainless Steel Type 316.....	45.75	11.49
			<i>For Work In Restricted Working Space, Add</i>	6.86	
40 05 23 23-0147	EA		3/8" x 3/8" Male Connector, Stainless Steel Type 316.....	59.59	12.55
			<i>For Work In Restricted Working Space, Add</i>	7.51	
40 05 23 23-0148	EA		1/2" x 1/2" Male Connector, Stainless Steel Type 316.....	80.08	14.14
			<i>For Work In Restricted Working Space, Add</i>	8.51	
40 05 23 23-0149	EA		5/8" x 5/8" Male Connector, Stainless Steel Type 316.....	90.38	15.84
			<i>For Work In Restricted Working Space, Add</i>	9.53	
40 05 23 23-0150	EA		3/4" x 3/4" Male Connector, Stainless Steel Type 316.....	112.01	17.13
			<i>For Work In Restricted Working Space, Add</i>	10.29	
40 05 23 23-0151	EA		7/8" x 7/8" Male Connector, Stainless Steel Type 316.....	178.13	19.04
			<i>For Work In Restricted Working Space, Add</i>	11.40	
40 05 23 23-0152	EA		1" x 1" Male Connector, Stainless Steel Type 316.....	182.78	22.66
			<i>For Work In Restricted Working Space, Add</i>	13.58	
40 05 23 23-0153			Type 316 Valves <small>(40 05 23 23-0011)</small>		
40 05 23 23-0154			Gate Valves <small>(40 05 23 23-0153)</small>		
40 05 23 23-0155	EA		1/4" Gate Valve, Stainless Steel Type 316.....	209.05	17.13
			<i>For Work In Restricted Working Space, Add</i>	9.29	
40 05 23 23-0156	EA		3/8" Gate Valve, Stainless Steel Type 316.....	353.71	20.10
			<i>For Work In Restricted Working Space, Add</i>	9.78	
40 05 23 23-0157	EA		1/2" Gate Valve, Stainless Steel Type 316.....	366.37	22.66
			<i>For Work In Restricted Working Space, Add</i>	13.58	
40 05 23 23-0158	EA		3/4" Gate Valve, Stainless Steel Type 316.....	406.01	25.95
			<i>For Work In Restricted Working Space, Add</i>	15.56	
40 05 23 23-0159	EA		1" Gate Valve, Stainless Steel Type 316.....	371.15	34.35
			<i>For Work In Restricted Working Space, Add</i>	20.59	
40 05 23 23-0160	EA		1-1/4" Gate Valve, Stainless Steel Type 316.....	506.06	35.63
			<i>For Work In Restricted Working Space, Add</i>	21.38	
40 05 23 23-0161	EA		1-1/2" Gate Valve, Stainless Steel Type 316.....	806.94	38.83
			<i>For Work In Restricted Working Space, Add</i>	23.29	
40 05 23 23-0162	EA		2" Gate Valve, Stainless Steel Type 316.....	962.08	53.18
			<i>For Work In Restricted Working Space, Add</i>	31.91	
40 05 23 23-0163	EA		2-1/2" Gate Valve, Stainless Steel Type 316.....	1,458.74	170.28
			<i>For Work In Restricted Working Space, Add</i>	102.14	
40 05 23 23-0164			Globe Valves <small>(40 05 23 23-0153)</small>		
40 05 23 23-0165	EA		1/4" Globe Valve, Stainless Steel Type 316.....	211.97	17.13
			<i>For Work In Restricted Working Space, Add</i>	9.29	
40 05 23 23-0166	EA		3/8" Globe Valve, Stainless Steel Type 316.....	139.13	20.10
			<i>For Work In Restricted Working Space, Add</i>	9.78	
40 05 23 23-0167	EA		1/2" Globe Valve, Stainless Steel Type 316.....	250.96	22.66
			<i>For Work In Restricted Working Space, Add</i>	13.58	
40 05 23 23-0168	EA		3/4" Globe Valve, Stainless Steel Type 316.....	279.25	25.95
			<i>For Work In Restricted Working Space, Add</i>	15.56	
40 05 23 23-0169	EA		1" Globe Valve, Stainless Steel Type 316.....	407.88	34.35
			<i>For Work In Restricted Working Space, Add</i>	20.59	
40 05 23 23-0170	EA		1-1/4" Globe Valve, Stainless Steel Type 316.....	506.93	35.42
			<i>For Work In Restricted Working Space, Add</i>	21.22	
40 05 23 23-0171	EA		1-1/2" Globe Valve, Stainless Steel Type 316.....	836.11	38.83
			<i>For Work In Restricted Working Space, Add</i>	23.29	
40 05 23 23-0172	EA		2" Globe Valve, Stainless Steel Type 316.....	991.26	53.18
			<i>For Work In Restricted Working Space, Add</i>	31.91	
40 05 23 23-0173	EA		2-1/2" Globe Valve, Stainless Steel Type 316.....	1,273.98	170.28
			<i>For Work In Restricted Working Space, Add</i>	102.14	
40 05 23 23-0174			Check Valves <small>(40 05 23 23-0153)</small>		
40 05 23 23-0175	EA		1/4" Check Valve, Stainless Steel Type 316.....	297.71	17.13
			<i>For Work In Restricted Working Space, Add</i>	9.29	
40 05 23 23-0176	EA		3/8" Check Valve, Stainless Steel Type 316.....	299.34	20.10
			<i>For Work In Restricted Working Space, Add</i>	9.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0177 EA 1/2" Check Valve, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	194.36 13.58	22.66
40 05 23 23-0178 EA 3/4" Check Valve, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	203.14 15.56	25.95
40 05 23 23-0179 EA 1" Check Valve, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	224.21 20.59	34.35
40 05 23 23-0180 EA 1-1/4" Check Valve, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	306.39 21.38	35.63
40 05 23 23-0181 EA 1-1/2" Check Valve, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	670.80 23.29	38.83
40 05 23 23-0182 EA 2" Check Valve, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	816.22 31.91	53.18
40 05 23 23-0183 EA 2-1/2" Check Valve, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	1,637.01 102.14	170.28
40 05 23 23-0184 Diaphragm Valves, Ethylene Propylene Diene Monomer (EPDM) Lined <small>(40 05 23 23-0153)</small>		
40 05 23 23-0185 EA 1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined <i>For Work In Restricted Working Space, Add</i>	321.70 13.58	22.66
40 05 23 23-0186 EA 3/4" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined <i>For Work In Restricted Working Space, Add</i>	375.65 15.56	25.95
40 05 23 23-0187 EA 1" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined <i>For Work In Restricted Working Space, Add</i>	479.49 20.59	34.35
40 05 23 23-0188 EA 1-1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined <i>For Work In Restricted Working Space, Add</i>	759.26 23.29	38.83
40 05 23 23-0189 EA 2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined <i>For Work In Restricted Working Space, Add</i>	1,060.64 31.91	53.18
40 05 23 23-0190 Diaphragm Valves, Teflon Lined <small>(40 05 23 23-0153)</small>		
40 05 23 23-0191 EA 1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined <i>For Work In Restricted Working Space, Add</i>	423.94 13.58	22.66
40 05 23 23-0192 EA 3/4" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined <i>For Work In Restricted Working Space, Add</i>	487.36 15.56	25.95
40 05 23 23-0193 EA 1" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined <i>For Work In Restricted Working Space, Add</i>	591.20 20.59	34.35
40 05 23 23-0194 EA 1-1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined <i>For Work In Restricted Working Space, Add</i>	916.41 23.29	38.83
40 05 23 23-0195 EA 2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined <i>For Work In Restricted Working Space, Add</i>	1,248.08 31.91	53.18
40 05 23 23-0196 Strainers <small>(40 05 23 23-0153)</small>		
40 05 23 23-0197 EA 1/2" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	424.93 13.58	22.66
40 05 23 23-0198 EA 3/4" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	508.23 15.64	26.06
40 05 23 23-0199 EA 1" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	665.11 20.74	34.56
40 05 23 23-0200 EA 1-1/4" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	823.72 21.38	35.63
40 05 23 23-0201 EA 1-1/2" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	1,032.17 23.30	38.83
40 05 23 23-0202 EA 2" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	1,487.69 31.91	53.18
40 05 23 23-0203 EA 2-1/2" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	2,043.80 42.44	70.73
40 05 23 23-0204 EA 3" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	2,977.33 63.82	106.36
40 05 23 23-0205 EA 4" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	3,821.07 102.10	170.18
40 05 23 23-0206 Plug Valves <small>(40 05 23 23-0153)</small>		
40 05 23 23-0207 EA 1/2" Plug Valve, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	452.37 13.58	22.66
40 05 23 23-0208 EA 3/4" Plug Valve, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	495.18 15.56	25.95
40 05 23 23-0209 EA 1" Plug Valve, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	560.17 20.59	34.35
40 05 23 23-0210 EA 1-1/2" Plug Valve, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	778.93 23.29	38.83
40 05 23 23-0211 EA 2" Plug Valve, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	1,014.05 31.91	53.18
40 05 23 23-0212 Cut And Prepare Existing Pipe In-Place <small>(40 05 23 23-0011)</small>		
Note: For use when connecting pipe to an existing in-place system.		
40 05 23 23-0213 EA Cut And Prepare 1/2" Stainless Steel Pipe	21.13	
40 05 23 23-0214 EA Cut And Prepare 3/4" Stainless Steel Pipe	22.81	
40 05 23 23-0215 EA Cut And Prepare 1" Stainless Steel Pipe	25.67	
40 05 23 23-0216 EA Cut And Prepare 1-1/4" Stainless Steel Pipe	26.93	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0217	EA		Cut And Prepare 1-1/2" Stainless Steel Pipe	28.51	
40 05 23 23-0218	EA		Cut And Prepare 2" Stainless Steel Pipe	30.63	
40 05 23 23-0219	EA		Cut And Prepare 2-1/2" Stainless Steel Pipe	32.75	
40 05 23 23-0220	EA		Cut And Prepare 3" Stainless Steel Pipe	35.91	
40 05 23 23-0221	EA		Cut And Prepare 4" Stainless Steel Pipe	39.08	
40 05 23 23-0222	EA		Cut And Prepare 6" Stainless Steel Pipe	42.25	
40 05 23 23-0223	EA		Cut And Prepare 8" Stainless Steel Pipe	45.42	
40 05 23 23-0224	EA		Cut And Prepare 10" Stainless Steel Pipe	49.64	
40 05 23 23-0225	EA		Cut And Prepare 12" Stainless Steel Pipe	53.87	
40 05 23 23-0226	EA		Cut And Prepare 14" Stainless Steel Pipe	58.10	
40 05 23 23-0227	EA		Cut And Prepare 16" Stainless Steel Pipe	62.32	
40 05 23 23-0228	EA		Cut And Prepare 18" Stainless Steel Pipe	65.49	
40 05 23 23-0229	EA		Cut And Prepare 20" Stainless Steel Pipe	68.65	
40 05 23 23-0230	EA		Cut And Prepare 24" Stainless Steel Pipe	72.89	
40 05 23 23-0231			Stainless Steel Pipe And Fittings (40 05 23 23)		
40 05 23 23-0232			Type 304, Schedule 40 Stainless Steel Pipe And 150 LB Threaded Fittings		
40 05 23 23-0233			Type 304, Schedule 40 Stainless Steel Threaded Pipe (40 05 23 23-0232)		
40 05 23 23-0234	LF		1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting.....	14.66	4.58
			<i>For Work In Restricted Working Space, Add</i>	2.74	
40 05 23 23-0235	LF		3/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting.....	18.09	5.75
			<i>For Work In Restricted Working Space, Add</i>	3.43	
40 05 23 23-0236	LF		1" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting.....	22.18	6.91
			<i>For Work In Restricted Working Space, Add</i>	4.12	
40 05 23 23-0237	LF		1-1/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	26.55	7.97
			<i>For Work In Restricted Working Space, Add</i>	4.80	
40 05 23 23-0238	LF		1-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	30.66	9.04
			<i>For Work In Restricted Working Space, Add</i>	5.45	
40 05 23 23-0239	LF		2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting.....	39.11	11.49
			<i>For Work In Restricted Working Space, Add</i>	6.86	
40 05 23 23-0240	LF		2-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	52.35	13.62
			<i>For Work In Restricted Working Space, Add</i>	8.18	
40 05 23 23-0241	LF		3" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting.....	65.79	17.13
			<i>For Work In Restricted Working Space, Add</i>	10.29	
40 05 23 23-0242	LF		4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting.....	88.85	22.66
			<i>For Work In Restricted Working Space, Add</i>	13.58	
40 05 23 23-0243			150#, Type 304 Stainless Steel Threaded 90 Degree Elbows (40 05 23 23-0232)		
40 05 23 23-0244	EA		1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow.....	36.74	17.13
			<i>For Work In Restricted Working Space, Add</i>	10.29	
40 05 23 23-0245	EA		3/4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow.....	48.74	22.66
			<i>For Work In Restricted Working Space, Add</i>	13.58	
40 05 23 23-0246	EA		1", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow.....	62.56	28.72
			<i>For Work In Restricted Working Space, Add</i>	17.25	
40 05 23 23-0247	EA		1-1/4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	87.44	39.35
			<i>For Work In Restricted Working Space, Add</i>	23.63	
40 05 23 23-0248	EA		1-1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	104.02	46.26
			<i>For Work In Restricted Working Space, Add</i>	27.75	
40 05 23 23-0249	EA		2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow.....	126.60	55.94
			<i>For Work In Restricted Working Space, Add</i>	33.59	
40 05 23 23-0250	EA		2-1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	210.60	88.60
			<i>For Work In Restricted Working Space, Add</i>	53.18	
40 05 23 23-0251	EA		3", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow.....	271.18	114.34
			<i>For Work In Restricted Working Space, Add</i>	68.62	
40 05 23 23-0252	EA		4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow.....	366.48	141.78
			<i>For Work In Restricted Working Space, Add</i>	85.09	
40 05 23 23-0253			150#, Type 304 Stainless Steel Threaded 45 Degree Elbows (40 05 23 23-0232)		
40 05 23 23-0254	EA		1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow.....	37.31	17.13
			<i>For Work In Restricted Working Space, Add</i>	10.29	
40 05 23 23-0255	EA		3/4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow.....	49.64	22.66
			<i>For Work In Restricted Working Space, Add</i>	13.58	
40 05 23 23-0256	EA		1", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow.....	62.84	28.72
			<i>For Work In Restricted Working Space, Add</i>	17.25	
40 05 23 23-0257	EA		1-1/4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	87.33	39.35
			<i>For Work In Restricted Working Space, Add</i>	23.63	
40 05 23 23-0258	EA		1-1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	102.68	46.26
			<i>For Work In Restricted Working Space, Add</i>	27.75	
40 05 23 23-0259	EA		2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow.....	126.28	55.94
			<i>For Work In Restricted Working Space, Add</i>	33.59	
40 05 23 23-0260	EA		2-1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	216.67	88.60
			<i>For Work In Restricted Working Space, Add</i>	53.18	
40 05 23 23-0261	EA		3", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow.....	283.03	114.34
			<i>For Work In Restricted Working Space, Add</i>	68.62	
40 05 23 23-0262	EA		4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow.....	380.27	141.78
			<i>For Work In Restricted Working Space, Add</i>	85.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0263 150#, Type 304 Stainless Steel Threaded Tees (40 05 23 23-0232)		
40 05 23 23-0264 EA 1/2", 150#, Type 304 Stainless Steel Threaded Tee.....	55.19	25.95
For Work In Restricted Working Space, Add	15.56	
40 05 23 23-0265 EA 3/4", 150#, Type 304 Stainless Steel Threaded Tee.....	73.86	34.35
For Work In Restricted Working Space, Add	20.59	
40 05 23 23-0266 EA 1", 150#, Type 304 Stainless Steel Threaded Tee.....	91.77	42.55
For Work In Restricted Working Space, Add	25.53	
40 05 23 23-0267 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Tee.....	131.46	59.14
For Work In Restricted Working Space, Add	35.45	
40 05 23 23-0268 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Tee.....	149.46	66.47
For Work In Restricted Working Space, Add	39.89	
40 05 23 23-0269 EA 2", 150#, Type 304 Stainless Steel Threaded Tee.....	198.47	88.60
For Work In Restricted Working Space, Add	53.18	
40 05 23 23-0270 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Tee.....	301.76	128.16
For Work In Restricted Working Space, Add	76.89	
40 05 23 23-0271 EA 3", 150#, Type 304 Stainless Steel Threaded Tee.....	408.62	171.56
For Work In Restricted Working Space, Add	102.93	
40 05 23 23-0272 EA 4", 150#, Type 304 Stainless Steel Threaded Tee.....	543.78	212.72
For Work In Restricted Working Space, Add	127.64	
40 05 23 23-0273 150#, Type 304 Stainless Steel Threaded Reducers (40 05 23 23-0232)		
40 05 23 23-0274 EA 3/4", 150#, Type 304 Stainless Steel Threaded Reducer.....	48.32	22.66
For Work In Restricted Working Space, Add	13.58	
40 05 23 23-0275 EA 1", 150#, Type 304 Stainless Steel Threaded Reducer.....	61.67	28.72
For Work In Restricted Working Space, Add	17.25	
40 05 23 23-0276 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Reducer.....	84.90	39.35
For Work In Restricted Working Space, Add	23.63	
40 05 23 23-0277 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Reducer.....	101.29	46.26
For Work In Restricted Working Space, Add	27.75	
40 05 23 23-0278 EA 2", 150#, Type 304 Stainless Steel Threaded Reducer.....	126.66	55.94
For Work In Restricted Working Space, Add	33.59	
40 05 23 23-0279 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Reducer.....	208.80	88.60
For Work In Restricted Working Space, Add	53.18	
40 05 23 23-0280 EA 3", 150#, Type 304 Stainless Steel Threaded Reducer.....	273.63	114.34
For Work In Restricted Working Space, Add	68.62	
40 05 23 23-0281 EA 4", 150#, Type 304 Stainless Steel Threaded Reducer.....	358.01	141.78
For Work In Restricted Working Space, Add	85.09	
40 05 23 23-0282 150#, Type 304 Stainless Steel Threaded Caps (40 05 23 23-0232)		
40 05 23 23-0283 EA 1/2", 150#, Type 304 Stainless Steel Threaded Cap.....	18.78	8.62
For Work In Restricted Working Space, Add	5.15	
40 05 23 23-0284 EA 3/4", 150#, Type 304 Stainless Steel Threaded Cap.....	24.90	11.49
For Work In Restricted Working Space, Add	6.86	
40 05 23 23-0285 EA 1", 150#, Type 304 Stainless Steel Threaded Cap.....	31.40	14.14
For Work In Restricted Working Space, Add	8.51	
40 05 23 23-0286 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Cap.....	45.65	20.10
For Work In Restricted Working Space, Add	12.04	
40 05 23 23-0287 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Cap.....	52.48	22.66
For Work In Restricted Working Space, Add	13.58	
40 05 23 23-0288 EA 2", 150#, Type 304 Stainless Steel Threaded Cap.....	66.70	28.72
For Work In Restricted Working Space, Add	17.25	
40 05 23 23-0289 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Cap.....	101.71	42.55
For Work In Restricted Working Space, Add	25.53	
40 05 23 23-0290 EA 3", 150#, Type 304 Stainless Steel Threaded Cap.....	134.93	55.94
For Work In Restricted Working Space, Add	33.59	
40 05 23 23-0291 EA 4", 150#, Type 304 Stainless Steel Threaded Cap.....	180.69	70.94
For Work In Restricted Working Space, Add	42.55	
40 05 23 23-0292 150#, Type 304 Stainless Steel Threaded Unions (40 05 23 23-0232)		
40 05 23 23-0293 EA 1/2", 150#, Type 304 Stainless Steel Threaded Union.....	58.71	25.95
For Work In Restricted Working Space, Add	15.56	
40 05 23 23-0294 EA 3/4", 150#, Type 304 Stainless Steel Threaded Union.....	77.28	34.35
For Work In Restricted Working Space, Add	20.59	
40 05 23 23-0295 EA 1", 150#, Type 304 Stainless Steel Threaded Union.....	98.16	42.55
For Work In Restricted Working Space, Add	25.53	
40 05 23 23-0296 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Union.....	140.87	59.14
For Work In Restricted Working Space, Add	35.45	
40 05 23 23-0297 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Union.....	158.58	66.47
For Work In Restricted Working Space, Add	39.89	
40 05 23 23-0298 EA 2", 150#, Type 304 Stainless Steel Threaded Union.....	207.98	88.60
For Work In Restricted Working Space, Add	53.18	
40 05 23 23-0299 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Union.....	349.07	132.95
For Work In Restricted Working Space, Add	79.77	
40 05 23 23-0300 EA 3", 150#, Type 304 Stainless Steel Threaded Union.....	447.85	171.56
For Work In Restricted Working Space, Add	102.94	
40 05 23 23-0301 EA 4", 150#, Type 304 Stainless Steel Threaded Union.....	453.66	141.83
For Work In Restricted Working Space, Add	85.10	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0302 150#, Type 304 Stainless Steel Threaded Couplings (40 05 23 23-0232)		
40 05 23 23-0303 EA 1/2", 150#, Type 304 Stainless Steel Threaded Coupling.....	36.51	17.13
For Work In Restricted Working Space, Add	10.29	
40 05 23 23-0304 EA 3/4", 150#, Type 304 Stainless Steel Threaded Coupling.....	48.43	22.66
For Work In Restricted Working Space, Add	13.58	
40 05 23 23-0305 EA 1", 150#, Type 304 Stainless Steel Threaded Coupling.....	62.31	28.72
For Work In Restricted Working Space, Add	17.25	
40 05 23 23-0306 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Coupling.....	86.44	39.35
For Work In Restricted Working Space, Add	23.63	
40 05 23 23-0307 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Coupling.....	101.59	46.26
For Work In Restricted Working Space, Add	27.75	
40 05 23 23-0308 EA 2", 150#, Type 304 Stainless Steel Threaded Coupling.....	124.79	55.94
For Work In Restricted Working Space, Add	33.59	
40 05 23 23-0309 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Coupling.....	205.42	88.60
For Work In Restricted Working Space, Add	53.18	
40 05 23 23-0310 EA 3", 150#, Type 304 Stainless Steel Threaded Coupling.....	265.11	114.34
For Work In Restricted Working Space, Add	68.62	
40 05 23 23-0311 EA 4", 150#, Type 304 Stainless Steel Threaded Coupling.....	340.17	141.78
For Work In Restricted Working Space, Add	85.09	
40 05 23 23-0312 Type 316, Schedule 40 Stainless Steel Pipe And 150 LB Threaded Fittings (40 05 23 23-0231)		
40 05 23 23-0313 Type 316, Schedule 40 Stainless Steel Threaded Pipe (40 05 23 23-0312)		
40 05 23 23-0314 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting.....	17.59	4.58
For Work In Restricted Working Space, Add	2.74	
40 05 23 23-0315 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting.....	20.97	5.75
For Work In Restricted Working Space, Add	3.43	
40 05 23 23-0316 LF 1" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting.....	26.32	6.91
For Work In Restricted Working Space, Add	4.12	
40 05 23 23-0317 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting.....	31.97	7.97
For Work In Restricted Working Space, Add	4.80	
40 05 23 23-0318 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting.....	37.08	9.04
For Work In Restricted Working Space, Add	5.45	
40 05 23 23-0319 LF 2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting.....	47.70	11.49
For Work In Restricted Working Space, Add	6.86	
40 05 23 23-0320 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting.....	64.36	13.62
For Work In Restricted Working Space, Add	8.18	
40 05 23 23-0321 LF 3" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting.....	83.71	17.13
For Work In Restricted Working Space, Add	10.29	
40 05 23 23-0322 LF 4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting.....	112.16	22.66
For Work In Restricted Working Space, Add	13.58	
40 05 23 23-0323 150#, Type 316 Stainless Steel Threaded 90 Degree Elbows (40 05 23 23-0312)		
40 05 23 23-0324 EA 1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow.....	37.48	17.13
For Work In Restricted Working Space, Add	10.29	
40 05 23 23-0325 EA 3/4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow.....	49.83	22.66
For Work In Restricted Working Space, Add	13.58	
40 05 23 23-0326 EA 1", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow.....	63.23	28.72
For Work In Restricted Working Space, Add	17.25	
40 05 23 23-0327 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow.....	88.64	39.35
For Work In Restricted Working Space, Add	23.63	
40 05 23 23-0328 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow.....	105.63	46.26
For Work In Restricted Working Space, Add	27.75	
40 05 23 23-0329 EA 2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow.....	128.58	55.94
For Work In Restricted Working Space, Add	33.59	
40 05 23 23-0330 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow.....	213.76	88.60
For Work In Restricted Working Space, Add	53.18	
40 05 23 23-0331 EA 3", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow.....	278.94	114.34
For Work In Restricted Working Space, Add	68.62	
40 05 23 23-0332 EA 4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow.....	375.90	141.78
For Work In Restricted Working Space, Add	85.09	
40 05 23 23-0333 150#, Type 316 Stainless Steel Threaded 45 Degree Elbows (40 05 23 23-0312)		
40 05 23 23-0334 EA 1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow.....	38.07	17.13
For Work In Restricted Working Space, Add	10.29	
40 05 23 23-0335 EA 3/4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow.....	50.21	22.66
For Work In Restricted Working Space, Add	13.58	
40 05 23 23-0336 EA 1", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow.....	63.67	28.72
For Work In Restricted Working Space, Add	17.25	
40 05 23 23-0337 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow.....	88.52	39.35
For Work In Restricted Working Space, Add	23.63	
40 05 23 23-0338 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow.....	104.07	46.26
For Work In Restricted Working Space, Add	27.75	
40 05 23 23-0339 EA 2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow.....	128.14	55.94
For Work In Restricted Working Space, Add	33.59	
40 05 23 23-0340 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow.....	219.65	88.60
For Work In Restricted Working Space, Add	53.18	
40 05 23 23-0341 EA 3", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow.....	289.89	114.34
For Work In Restricted Working Space, Add	68.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0342 EA 4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	398.79 85.09	141.78
40 05 23 23-0343 150#, Type 316 Stainless Steel Threaded Tees (40 05 23 23-0312)		
40 05 23 23-0344 EA 1/2", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	55.97 15.56	25.95
40 05 23 23-0345 EA 3/4", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	74.66 20.59	34.35
40 05 23 23-0346 EA 1", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	92.66 25.53	42.55
40 05 23 23-0347 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	133.27 35.45	59.14
40 05 23 23-0348 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	151.25 39.89	66.47
40 05 23 23-0349 EA 2", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	200.83 53.18	88.60
40 05 23 23-0350 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	311.38 76.89	128.16
40 05 23 23-0351 EA 3", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	421.75 102.93	171.56
40 05 23 23-0352 EA 4", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	553.56 127.64	212.72
40 05 23 23-0353 150#, Type 316 Stainless Steel Threaded Reducers (40 05 23 23-0312)		
40 05 23 23-0354 EA 3/4", 150#, Type 316 Stainless Steel Threaded Reducer..... <i>For Work In Restricted Working Space, Add</i>	48.99 13.58	22.66
40 05 23 23-0355 EA 1", 150#, Type 316 Stainless Steel Threaded Reducer..... <i>For Work In Restricted Working Space, Add</i>	63.65 17.25	28.72
40 05 23 23-0356 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Reducer..... <i>For Work In Restricted Working Space, Add</i>	85.27 23.63	39.35
40 05 23 23-0357 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Reducer..... <i>For Work In Restricted Working Space, Add</i>	103.24 27.75	46.26
40 05 23 23-0358 EA 2", 150#, Type 316 Stainless Steel Threaded Reducer..... <i>For Work In Restricted Working Space, Add</i>	130.07 33.59	55.94
40 05 23 23-0359 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Reducer..... <i>For Work In Restricted Working Space, Add</i>	216.57 53.18	88.60
40 05 23 23-0360 EA 3", 150#, Type 316 Stainless Steel Threaded Reducer..... <i>For Work In Restricted Working Space, Add</i>	282.21 68.62	114.34
40 05 23 23-0361 EA 4", 150#, Type 316 Stainless Steel Threaded Reducer..... <i>For Work In Restricted Working Space, Add</i>	372.31 85.09	141.78
40 05 23 23-0362 150#, Type 316 Stainless Steel Threaded Caps (40 05 23 23-0312)		
40 05 23 23-0363 EA 1/2", 150#, Type 316 Stainless Steel Threaded Cap..... <i>For Work In Restricted Working Space, Add</i>	19.22 5.15	8.62
40 05 23 23-0364 EA 3/4", 150#, Type 316 Stainless Steel Threaded Cap..... <i>For Work In Restricted Working Space, Add</i>	25.23 6.86	11.49
40 05 23 23-0365 EA 1", 150#, Type 316 Stainless Steel Threaded Cap..... <i>For Work In Restricted Working Space, Add</i>	31.98 8.51	14.14
40 05 23 23-0366 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Cap..... <i>For Work In Restricted Working Space, Add</i>	47.25 12.04	20.10
40 05 23 23-0367 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Cap..... <i>For Work In Restricted Working Space, Add</i>	54.39 13.58	22.66
40 05 23 23-0368 EA 2", 150#, Type 316 Stainless Steel Threaded Cap..... <i>For Work In Restricted Working Space, Add</i>	69.18 17.25	28.72
40 05 23 23-0369 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Cap..... <i>For Work In Restricted Working Space, Add</i>	105.81 25.53	42.55
40 05 23 23-0370 EA 3", 150#, Type 316 Stainless Steel Threaded Cap..... <i>For Work In Restricted Working Space, Add</i>	139.09 33.59	55.94
40 05 23 23-0371 EA 4", 150#, Type 316 Stainless Steel Threaded Cap..... <i>For Work In Restricted Working Space, Add</i>	188.95 42.55	70.94
40 05 23 23-0372 150#, Type 316 Stainless Steel Threaded Unions (40 05 23 23-0312)		
40 05 23 23-0373 EA 1/2", 150#, Type 316 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	59.65 15.56	25.95
40 05 23 23-0374 EA 3/4", 150#, Type 316 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	80.82 20.59	34.35
40 05 23 23-0375 EA 1", 150#, Type 316 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	99.96 25.53	42.55
40 05 23 23-0376 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	143.91 35.45	59.14
40 05 23 23-0377 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	162.14 39.89	66.47
40 05 23 23-0378 EA 2", 150#, Type 316 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	212.09 53.18	88.60
40 05 23 23-0379 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	355.39 79.77	132.95
40 05 23 23-0380 EA 3", 150#, Type 316 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	467.54 102.94	171.56

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0381 EA 4", 150#, Type 316 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	495.63 85.10	141.83
40 05 23 23-0382 150#, Type 316 Stainless Steel Threaded Couplings (40 05 23 23-0312)		
40 05 23 23-0383 EA 1/2", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	37.99 10.29	17.13
40 05 23 23-0384 EA 3/4", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	49.11 13.58	22.66
40 05 23 23-0385 EA 1", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	62.97 17.25	28.72
40 05 23 23-0386 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	87.49 23.63	39.35
40 05 23 23-0387 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	102.83 27.75	46.26
40 05 23 23-0388 EA 2", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	126.52 33.59	55.94
40 05 23 23-0389 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	211.47 53.18	88.60
40 05 23 23-0390 EA 3", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	272.92 68.62	114.34
40 05 23 23-0391 EA 4", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	351.87 85.09	141.78
40 05 23 23-0392 Type 304, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)		
40 05 23 23-0393 Type 304, Schedule 10 Stainless Steel Pipe (40 05 23 23-0392)		
40 05 23 23-0394 LF 1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	16.09 2.68	4.47
40 05 23 23-0395 LF 3/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	19.21 3.28	5.46
40 05 23 23-0396 LF 1" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	25.15 3.84	6.45
40 05 23 23-0397 LF 1-1/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	30.77 4.80	8.04
40 05 23 23-0398 LF 1-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	34.28 5.42	9.03
40 05 23 23-0399 LF 2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	42.40 6.71	11.22
40 05 23 23-0400 LF 2-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	50.48 7.67	12.81
40 05 23 23-0401 LF 3" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	59.32 8.63	14.39
40 05 23 23-0402 LF 4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	74.13 10.22	17.08
40 05 23 23-0403 LF 6" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	107.28 13.41	22.43
40 05 23 23-0404 LF 8" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	179.32 25.06	39.00
40 05 23 23-0405 LF 10" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	226.78 27.56	42.88
40 05 23 23-0406 LF 12" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	270.23 30.62	47.68
40 05 23 23-0407 LF 14" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	330.82 34.45	53.60
40 05 23 23-0408 LF 16" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	364.99 39.38	61.25
40 05 23 23-0409 LF 18" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	409.86 45.94	71.45
40 05 23 23-0410 LF 20" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	564.65 55.13	85.75
40 05 23 23-0411 LF 24" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	734.86 68.91	107.19
40 05 23 23-0412 Type 304, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbow (40 05 23 23-0392)		
40 05 23 23-0413 EA 1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	116.14 33.95	50.92
40 05 23 23-0414 EA 3/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	123.10 36.03	54.05
40 05 23 23-0415 EA 1", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	135.52 39.60	59.40
40 05 23 23-0416 EA 1-1/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	147.83 43.16	64.74
40 05 23 23-0417 EA 1-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	163.27 47.66	71.49
40 05 23 23-0418 EA 2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	182.21 53.03	79.54
40 05 23 23-0419 EA 2-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	235.54 67.86	101.80
40 05 23 23-0420 EA 3", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	276.21 79.54	119.30



Process Interconnections	40
Common Work Results For Process Interconnections	40 05
Stainless Steel Process Pipe and Tubing	40 05 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0421 EA 4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	335.46	142.80
<i>For Work In Restricted Working Space, Add</i>	95.20	
40 05 23 23-0422 EA 6", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	444.99	178.38
<i>For Work In Restricted Working Space, Add</i>	118.92	
40 05 23 23-0423 EA 8", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	745.39	295.31
<i>For Work In Restricted Working Space, Add</i>	196.88	
40 05 23 23-0424 EA 10", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	1,066.20	393.74
<i>For Work In Restricted Working Space, Add</i>	262.49	
40 05 23 23-0425 EA 12", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	1,607.10	590.62
<i>For Work In Restricted Working Space, Add</i>	393.74	
40 05 23 23-0426 EA 14", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	1,892.84	689.05
<i>For Work In Restricted Working Space, Add</i>	459.37	
40 05 23 23-0427 EA 16", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	2,204.59	785.99
<i>For Work In Restricted Working Space, Add</i>	524.00	
40 05 23 23-0428 EA 18", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	2,779.05	984.36
<i>For Work In Restricted Working Space, Add</i>	656.24	
40 05 23 23-0429 EA 20", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	3,879.08	1,378.11
<i>For Work In Restricted Working Space, Add</i>	918.74	
40 05 23 23-0430 EA 24", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	5,560.89	1,968.73
<i>For Work In Restricted Working Space, Add</i>	1,312.48	
40 05 23 23-0431 Type 304, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbow (40 05 23 23-0392)		
40 05 23 23-0432 EA 1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	117.02	50.92
<i>For Work In Restricted Working Space, Add</i>	33.95	
40 05 23 23-0433 EA 3/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	123.98	54.05
<i>For Work In Restricted Working Space, Add</i>	36.03	
40 05 23 23-0434 EA 1", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	136.58	59.40
<i>For Work In Restricted Working Space, Add</i>	39.60	
40 05 23 23-0435 EA 1-1/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	149.24	64.74
<i>For Work In Restricted Working Space, Add</i>	43.16	
40 05 23 23-0436 EA 1-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	163.45	71.49
<i>For Work In Restricted Working Space, Add</i>	47.66	
40 05 23 23-0437 EA 2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	182.21	79.54
<i>For Work In Restricted Working Space, Add</i>	53.03	
40 05 23 23-0438 EA 2-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	234.66	101.80
<i>For Work In Restricted Working Space, Add</i>	67.86	
40 05 23 23-0439 EA 3", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	274.62	119.30
<i>For Work In Restricted Working Space, Add</i>	79.54	
40 05 23 23-0440 EA 4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	332.47	142.80
<i>For Work In Restricted Working Space, Add</i>	95.20	
40 05 23 23-0441 EA 6", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	429.32	178.38
<i>For Work In Restricted Working Space, Add</i>	118.92	
40 05 23 23-0442 EA 8", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	715.18	295.31
<i>For Work In Restricted Working Space, Add</i>	196.88	
40 05 23 23-0443 EA 10", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	1,012.41	393.74
<i>For Work In Restricted Working Space, Add</i>	262.49	
40 05 23 23-0444 EA 12", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	1,521.94	590.62
<i>For Work In Restricted Working Space, Add</i>	393.74	
40 05 23 23-0445 EA 14", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	1,788.31	689.05
<i>For Work In Restricted Working Space, Add</i>	459.37	
40 05 23 23-0446 EA 16", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	2,075.59	785.99
<i>For Work In Restricted Working Space, Add</i>	524.00	
40 05 23 23-0447 EA 18", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	2,609.64	984.36
<i>For Work In Restricted Working Space, Add</i>	656.24	
40 05 23 23-0448 EA 20", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	3,650.48	1,378.11
<i>For Work In Restricted Working Space, Add</i>	918.74	
40 05 23 23-0449 EA 24", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	5,236.61	1,968.73
<i>For Work In Restricted Working Space, Add</i>	1,312.48	
40 05 23 23-0450 Type 304, Schedule 10 Stainless Steel Butt Weld Tee (40 05 23 23-0392)		
40 05 23 23-0451 EA 1/2", Type 304, Schedule 10 Stainless Steel Tee.....	153.50	64.72
<i>For Work In Restricted Working Space, Add</i>	43.15	
40 05 23 23-0452 EA 3/4", Type 304, Schedule 10 Stainless Steel Tee.....	186.23	79.45
<i>For Work In Restricted Working Space, Add</i>	52.97	
40 05 23 23-0453 EA 1", Type 304, Schedule 10 Stainless Steel Tee.....	208.04	89.27
<i>For Work In Restricted Working Space, Add</i>	59.51	
40 05 23 23-0454 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Tee.....	236.96	101.80
<i>For Work In Restricted Working Space, Add</i>	67.86	
40 05 23 23-0455 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Tee.....	252.50	109.27
<i>For Work In Restricted Working Space, Add</i>	72.85	
40 05 23 23-0456 EA 2", Type 304, Schedule 10 Stainless Steel Tee.....	275.22	119.17
<i>For Work In Restricted Working Space, Add</i>	79.45	
40 05 23 23-0457 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Tee.....	346.63	142.80
<i>For Work In Restricted Working Space, Add</i>	95.20	
40 05 23 23-0458 EA 3", Type 304, Schedule 10 Stainless Steel Tee.....	416.70	178.96
<i>For Work In Restricted Working Space, Add</i>	119.31	
40 05 23 23-0459 EA 4", Type 304, Schedule 10 Stainless Steel Tee.....	474.83	200.85
<i>For Work In Restricted Working Space, Add</i>	133.90	
40 05 23 23-0460 EA 6", Type 304, Schedule 10 Stainless Steel Tee.....	670.95	267.79
<i>For Work In Restricted Working Space, Add</i>	178.53	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0461 EA 8", Type 304, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	1,053.85 262.49	393.74
40 05 23 23-0462 EA 10", Type 304, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	1,607.10 393.74	590.62
40 05 23 23-0463 EA 12", Type 304, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	2,049.84 492.18	738.27
40 05 23 23-0464 EA 14", Type 304, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	2,505.14 591.46	887.19
40 05 23 23-0465 EA 16", Type 304, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	3,040.53 721.52	1,082.29
40 05 23 23-0466 EA 18", Type 304, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	3,869.69 918.74	1,378.11
40 05 23 23-0467 EA 20", Type 304, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	5,151.64 1,208.87	1,813.30
40 05 23 23-0468 EA 24", Type 304, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	7,752.71 1,837.48	2,756.22
40 05 23 23-0469 Type 304, Schedule 10 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0392)		
40 05 23 23-0470 EA 3/4", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	137.40 36.05	54.07
40 05 23 23-0471 EA 1", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	164.48 44.17	66.25
40 05 23 23-0472 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	196.93 49.63	74.45
40 05 23 23-0473 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	210.24 56.58	84.86
40 05 23 23-0474 EA 2", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	222.21 60.80	91.19
40 05 23 23-0475 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	273.84 66.26	99.39
40 05 23 23-0476 EA 3", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	324.22 79.42	119.12
40 05 23 23-0477 EA 4", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	401.27 99.26	148.89
40 05 23 23-0478 EA 6", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	507.95 113.42	170.13
40 05 23 23-0479 EA 8", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	890.53 164.06	246.09
40 05 23 23-0480 EA 10", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	1,407.18 218.75	328.12
40 05 23 23-0481 EA 12", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	2,028.93 328.12	492.18
40 05 23 23-0482 EA 14", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	2,457.04 394.20	591.30
40 05 23 23-0483 EA 16", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	3,034.37 480.85	721.27
40 05 23 23-0484 EA 18", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	3,908.44 612.49	918.74
40 05 23 23-0485 EA 20", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	5,481.95 805.91	1,208.86
40 05 23 23-0486 EA 24", Type 304, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	8,532.13 1,223.90	1,835.84
40 05 23 23-0487 Type 304, Schedule 10 Stainless Steel Butt Weld Reducers (40 05 23 23-0392)		
40 05 23 23-0488 EA 3/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	115.25 32.78	49.18
40 05 23 23-0489 EA 1", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	126.47 35.72	53.58
40 05 23 23-0490 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	140.19 39.60	59.40
40 05 23 23-0491 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	150.37 43.16	64.74
40 05 23 23-0492 EA 2", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	164.68 47.66	71.49
40 05 23 23-0493 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	215.78 59.56	89.34
40 05 23 23-0494 EA 3", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	244.49 67.80	101.71
40 05 23 23-0495 EA 4", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	285.99 79.45	119.17
40 05 23 23-0496 EA 6", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	367.44 101.15	151.72
40 05 23 23-0497 EA 8", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	573.62 157.50	236.25
40 05 23 23-0498 EA 10", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	725.63 196.88	295.31
40 05 23 23-0499 EA 12", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	973.25 262.49	393.74
40 05 23 23-0500 EA 14", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,352.81 344.53	516.79
40 05 23 23-0501 EA 16", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,569.93 392.62	588.93



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0502 EA 18", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,943.02 492.18	738.27
40 05 23 23-0503 EA 20", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,687.08 656.24	984.36
40 05 23 23-0504 EA 24", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,919.21 984.36	1,476.55
40 05 23 23-0505 EA 3/4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	131.80 32.78	49.18
40 05 23 23-0506 EA 1", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	138.62 35.72	53.58
40 05 23 23-0507 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	148.51 39.60	59.40
40 05 23 23-0508 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	165.51 43.16	64.74
40 05 23 23-0509 EA 2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	175.59 47.66	71.49
40 05 23 23-0510 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	227.75 59.56	89.34
40 05 23 23-0511 EA 3", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	256.28 67.80	101.71
40 05 23 23-0512 EA 4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	295.11 79.45	119.17
40 05 23 23-0513 EA 6", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	400.35 101.15	151.72
40 05 23 23-0514 EA 8", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	644.17 157.50	236.25
40 05 23 23-0515 EA 10", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	863.25 196.88	295.31
40 05 23 23-0516 EA 12", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,100.41 262.49	393.74
40 05 23 23-0517 EA 14", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,646.16 344.53	516.79
40 05 23 23-0518 EA 16", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,906.06 392.62	588.93
40 05 23 23-0519 EA 18", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,353.25 492.18	738.27
40 05 23 23-0520 EA 20", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,344.46 656.24	984.36
40 05 23 23-0521 EA 24", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	4,790.44 984.36	1,476.55
40 05 23 23-0522 Type 304, Schedule 10 Stainless Steel Butt Weld Caps (40 05 23 23-0392)		
40 05 23 23-0523 EA 1/2", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	62.04 16.97	25.46
40 05 23 23-0524 EA 3/4", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	67.44 18.02	27.02
40 05 23 23-0525 EA 1", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	74.10 19.80	29.70
40 05 23 23-0526 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	81.35 21.58	32.37
40 05 23 23-0527 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	88.06 23.83	35.75
40 05 23 23-0528 EA 2", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	95.94 26.51	39.76
40 05 23 23-0529 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	124.02 33.93	50.90
40 05 23 23-0530 EA 3", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	141.90 39.77	59.65
40 05 23 23-0531 EA 4", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	170.64 47.60	71.39
40 05 23 23-0532 EA 6", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	218.07 59.56	89.34
40 05 23 23-0533 EA 8", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	363.29 98.44	147.65
40 05 23 23-0534 EA 10", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	483.96 131.25	196.87
40 05 23 23-0535 EA 12", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	716.79 196.88	295.30
40 05 23 23-0536 EA 14", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	839.82 229.69	344.52
40 05 23 23-0537 EA 16", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	969.03 262.00	392.99
40 05 23 23-0538 EA 18", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,220.85 328.12	492.18
40 05 23 23-0539 EA 20", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,692.86 459.37	689.05
40 05 23 23-0540 EA 24", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	2,472.28 656.24	984.35
40 05 23 23-0541 Type 304, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)		
40 05 23 23-0542 Type 304, Schedule 40 Stainless Steel Pipe (40 05 23 23-0541)		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0543 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting.....	17.85	4.47
<i>For Work In Restricted Working Space, Add</i>	2.68	
40 05 23 23-0544 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting.....	21.70	5.46
<i>For Work In Restricted Working Space, Add</i>	3.28	
40 05 23 23-0545 LF 1" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting.....	26.50	6.45
<i>For Work In Restricted Working Space, Add</i>	3.84	
40 05 23 23-0546 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting.....	33.12	7.94
<i>For Work In Restricted Working Space, Add</i>	4.80	
40 05 23 23-0547 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting.....	38.09	8.93
<i>For Work In Restricted Working Space, Add</i>	5.42	
40 05 23 23-0548 LF 2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting.....	48.68	11.42
<i>For Work In Restricted Working Space, Add</i>	6.71	
40 05 23 23-0549 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting.....	60.06	12.91
<i>For Work In Restricted Working Space, Add</i>	7.67	
40 05 23 23-0550 LF 3" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting.....	59.15	14.39
<i>For Work In Restricted Working Space, Add</i>	8.63	
40 05 23 23-0551 LF 4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting.....	95.49	16.87
<i>For Work In Restricted Working Space, Add</i>	10.22	
40 05 23 23-0552 LF 6" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting.....	147.36	22.33
<i>For Work In Restricted Working Space, Add</i>	13.41	
40 05 23 23-0553 LF 8" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting.....	259.49	38.79
<i>For Work In Restricted Working Space, Add</i>	25.06	
40 05 23 23-0554 LF 10" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting.....	326.49	42.88
<i>For Work In Restricted Working Space, Add</i>	27.56	
40 05 23 23-0555 LF 12" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting.....	405.14	47.47
<i>For Work In Restricted Working Space, Add</i>	30.62	
40 05 23 23-0556 Type 304, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows <small>(40 05 23 23-0541)</small>		
40 05 23 23-0557 EA 1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	116.85	50.92
<i>For Work In Restricted Working Space, Add</i>	33.95	
40 05 23 23-0558 EA 3/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	123.81	54.05
<i>For Work In Restricted Working Space, Add</i>	36.03	
40 05 23 23-0559 EA 1", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	136.05	59.40
<i>For Work In Restricted Working Space, Add</i>	39.60	
40 05 23 23-0560 EA 1-1/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	148.21	64.74
<i>For Work In Restricted Working Space, Add</i>	43.16	
40 05 23 23-0561 EA 1-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	163.62	71.49
<i>For Work In Restricted Working Space, Add</i>	47.66	
40 05 23 23-0562 EA 2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	183.44	79.54
<i>For Work In Restricted Working Space, Add</i>	53.03	
40 05 23 23-0563 EA 2-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	240.11	101.80
<i>For Work In Restricted Working Space, Add</i>	67.86	
40 05 23 23-0564 EA 3", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	282.90	119.30
<i>For Work In Restricted Working Space, Add</i>	79.54	
40 05 23 23-0565 EA 4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	346.72	142.80
<i>For Work In Restricted Working Space, Add</i>	95.20	
40 05 23 23-0566 EA 6", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	516.97	178.38
<i>For Work In Restricted Working Space, Add</i>	118.92	
40 05 23 23-0567 EA 8", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	843.48	295.31
<i>For Work In Restricted Working Space, Add</i>	196.88	
40 05 23 23-0568 EA 10", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	1,265.22	393.74
<i>For Work In Restricted Working Space, Add</i>	262.49	
40 05 23 23-0569 EA 12", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	1,865.23	590.62
<i>For Work In Restricted Working Space, Add</i>	393.74	
40 05 23 23-0570 EA 14", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	2,205.98	689.05
<i>For Work In Restricted Working Space, Add</i>	459.37	
40 05 23 23-0571 EA 16", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	2,606.87	785.99
<i>For Work In Restricted Working Space, Add</i>	524.00	
40 05 23 23-0572 EA 18", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	3,338.00	984.36
<i>For Work In Restricted Working Space, Add</i>	656.24	
40 05 23 23-0573 EA 20", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	4,568.98	1,378.11
<i>For Work In Restricted Working Space, Add</i>	918.74	
40 05 23 23-0574 EA 24", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	6,545.15	1,968.73
<i>For Work In Restricted Working Space, Add</i>	1,312.48	
40 05 23 23-0575 Type 304, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows <small>(40 05 23 23-0541)</small>		
40 05 23 23-0576 EA 1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	118.08	50.92
<i>For Work In Restricted Working Space, Add</i>	33.95	
40 05 23 23-0577 EA 3/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	125.04	54.05
<i>For Work In Restricted Working Space, Add</i>	36.03	
40 05 23 23-0578 EA 1", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	136.93	59.40
<i>For Work In Restricted Working Space, Add</i>	39.60	
40 05 23 23-0579 EA 1-1/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	149.11	64.74
<i>For Work In Restricted Working Space, Add</i>	43.16	
40 05 23 23-0580 EA 1-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	164.50	71.49
<i>For Work In Restricted Working Space, Add</i>	47.66	
40 05 23 23-0581 EA 2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	183.63	79.54
<i>For Work In Restricted Working Space, Add</i>	53.03	
40 05 23 23-0582 EA 2-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	240.11	101.80
<i>For Work In Restricted Working Space, Add</i>	67.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0583 EA 3", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	277.97 79.54	119.30
40 05 23 23-0584 EA 4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	349.36 95.20	142.80
40 05 23 23-0585 EA 6", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	456.95 118.92	178.38
40 05 23 23-0586 EA 8", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	780.56 196.88	295.31
40 05 23 23-0587 EA 10", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,108.03 262.49	393.74
40 05 23 23-0588 EA 12", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,633.34 393.74	590.62
40 05 23 23-0589 EA 14", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,866.87 459.37	689.05
40 05 23 23-0590 EA 16", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,203.12 524.00	785.99
40 05 23 23-0591 EA 18", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,774.72 656.24	984.36
40 05 23 23-0592 EA 20", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	3,808.92 918.74	1,378.11
40 05 23 23-0593 EA 24", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	5,505.62 1,312.48	1,968.73
40 05 23 23-0594 Type 304, Schedule 40 Stainless Steel Butt Weld Tees (40 05 23 23-0541)		
40 05 23 23-0595 EA 1/2", Type 304, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	154.20 43.15	64.72
40 05 23 23-0596 EA 3/4", Type 304, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	186.93 52.97	79.45
40 05 23 23-0597 EA 1", Type 304, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	208.74 59.51	89.27
40 05 23 23-0598 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	238.75 67.86	101.80
40 05 23 23-0599 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	253.20 72.85	109.27
40 05 23 23-0600 EA 2", Type 304, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	276.10 79.45	119.17
40 05 23 23-0601 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	349.01 95.20	142.80
40 05 23 23-0602 EA 3", Type 304, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	420.39 119.31	178.96
40 05 23 23-0603 EA 4", Type 304, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	478.88 133.90	200.85
40 05 23 23-0604 EA 6", Type 304, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	698.93 178.53	267.79
40 05 23 23-0605 EA 8", Type 304, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	1,136.91 262.49	393.74
40 05 23 23-0606 EA 10", Type 304, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	1,862.01 393.74	590.62
40 05 23 23-0607 EA 12", Type 304, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	2,318.62 492.18	738.27
40 05 23 23-0608 EA 14", Type 304, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	3,046.73 591.46	887.19
40 05 23 23-0609 EA 16", Type 304, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	3,831.22 721.52	1,082.29
40 05 23 23-0610 EA 18", Type 304, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	4,943.24 918.74	1,378.11
40 05 23 23-0611 EA 20", Type 304, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	6,410.90 1,208.87	1,813.30
40 05 23 23-0612 EA 24", Type 304, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	9,797.90 1,837.48	2,756.22
40 05 23 23-0613 Type 304, Schedule 40 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0541)		
40 05 23 23-0614 EA 3/4", Type 304, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	139.69 36.05	54.07
40 05 23 23-0615 EA 1", Type 304, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	166.77 44.17	66.25
40 05 23 23-0616 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	207.94 49.63	74.45
40 05 23 23-0617 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	213.58 56.58	84.86
40 05 23 23-0618 EA 2", Type 304, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	222.21 60.80	91.19
40 05 23 23-0619 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	262.59 66.26	99.39
40 05 23 23-0620 EA 3", Type 304, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	299.40 79.42	119.12
40 05 23 23-0621 EA 4", Type 304, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	388.25 99.26	148.89
40 05 23 23-0622 EA 6", Type 304, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	510.06 113.42	170.13
40 05 23 23-0623 EA 8", Type 304, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	815.83 164.06	246.09

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0624 EA 10", Type 304, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	1,430.55 218.75	328.12
40 05 23 23-0625 EA 12", Type 304, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	2,075.69 328.12	492.18
40 05 23 23-0626 EA 14", Type 304, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	2,391.43 394.20	591.30
40 05 23 23-0627 EA 16", Type 304, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	2,952.20 480.85	721.27
40 05 23 23-0628 EA 18", Type 304, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	3,801.29 612.49	918.74
40 05 23 23-0629 EA 20", Type 304, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	5,321.48 805.91	1,208.86
40 05 23 23-0630 EA 24", Type 304, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	8,276.57 1,223.90	1,835.84
40 05 23 23-0631 Type 304, Schedule 40 Stainless Steel Butt Weld Reducers (40 05 23 23-0641)		
40 05 23 23-0632 EA 3/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	117.01 32.78	49.18
40 05 23 23-0633 EA 1", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	128.23 35.72	53.58
40 05 23 23-0634 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	140.32 39.60	59.40
40 05 23 23-0635 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	152.13 43.16	64.74
40 05 23 23-0636 EA 2", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	165.73 47.66	71.49
40 05 23 23-0637 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	215.78 59.56	89.34
40 05 23 23-0638 EA 3", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	238.15 67.80	101.71
40 05 23 23-0639 EA 4", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	276.98 79.45	119.17
40 05 23 23-0640 EA 6", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	368.85 101.15	151.72
40 05 23 23-0641 EA 8", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	603.51 157.50	236.25
40 05 23 23-0642 EA 10", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	776.95 196.88	295.31
40 05 23 23-0643 EA 12", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,019.06 262.49	393.74
40 05 23 23-0644 EA 14", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,455.61 344.53	516.79
40 05 23 23-0645 EA 16", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,699.16 392.62	588.93
40 05 23 23-0646 EA 18", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,204.71 492.18	738.27
40 05 23 23-0647 EA 20", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,995.76 656.24	984.36
40 05 23 23-0648 EA 24", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	4,238.88 984.36	1,476.55
40 05 23 23-0649 EA 3/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	132.51 32.78	49.18
40 05 23 23-0650 EA 1", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	142.31 35.72	53.58
40 05 23 23-0651 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	161.18 39.60	59.40
40 05 23 23-0652 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	172.02 43.16	64.74
40 05 23 23-0653 EA 2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	185.62 47.66	71.49
40 05 23 23-0654 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	227.75 59.56	89.34
40 05 23 23-0655 EA 3", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	278.11 67.80	101.71
40 05 23 23-0656 EA 4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	309.90 79.45	119.17
40 05 23 23-0657 EA 6", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	414.96 101.15	151.72
40 05 23 23-0658 EA 8", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	645.70 157.50	236.25
40 05 23 23-0659 EA 10", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	861.92 196.88	295.31
40 05 23 23-0660 EA 12", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,169.60 262.49	393.74
40 05 23 23-0661 EA 14", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,824.61 344.53	516.79
40 05 23 23-0662 EA 16", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,071.58 392.62	588.93
40 05 23 23-0663 EA 18", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,686.51 492.18	738.27
40 05 23 23-0664 EA 20", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	3,508.93 656.24	984.36



Process Interconnections	40
Common Work Results For Process Interconnections	40 05
Stainless Steel Process Pipe and Tubing	40 05 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0665 EA 24", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	5,519.43 984.36	1,476.55
40 05 23 23-0666 Type 304, Schedule 40 Stainless Steel Butt Weld Caps (40 05 23 23-0541)		
40 05 23 23-0667 EA 1/2", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	62.56 16.97	25.46
40 05 23 23-0668 EA 3/4", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	66.91 18.02	27.02
40 05 23 23-0669 EA 1", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	74.62 19.80	29.70
40 05 23 23-0670 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	83.71 21.58	32.37
40 05 23 23-0671 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	90.35 23.83	35.75
40 05 23 23-0672 EA 2", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	95.76 26.51	39.76
40 05 23 23-0673 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	122.84 33.93	50.90
40 05 23 23-0674 EA 3", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	142.60 39.77	59.65
40 05 23 23-0675 EA 4", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	172.75 47.60	71.39
40 05 23 23-0676 EA 6", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	231.09 59.56	89.34
40 05 23 23-0677 EA 8", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	384.20 98.44	147.65
40 05 23 23-0678 EA 10", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	513.53 131.25	196.87
40 05 23 23-0679 EA 12", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	773.15 196.88	295.30
40 05 23 23-0680 EA 14", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	891.44 229.69	344.52
40 05 23 23-0681 EA 16", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,040.04 262.00	392.99
40 05 23 23-0682 EA 18", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,305.01 328.12	492.18
40 05 23 23-0683 EA 20", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,805.09 459.37	689.05
40 05 23 23-0684 EA 24", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	2,659.93 656.24	984.35
40 05 23 23-0685 Type 316, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)		
40 05 23 23-0686 Type 316, Schedule 10 Stainless Steel Pipe (40 05 23 23-0685)		
40 05 23 23-0687 LF 1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	18.33 2.68	4.47
40 05 23 23-0688 LF 3/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	21.79 3.28	5.46
40 05 23 23-0689 LF 1" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	29.01 3.84	6.45
40 05 23 23-0690 LF 1-1/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	35.38 4.80	8.04
40 05 23 23-0691 LF 1-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	39.35 5.42	9.03
40 05 23 23-0692 LF 2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	48.66 6.71	11.22
40 05 23 23-0693 LF 2-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	58.26 7.67	12.81
40 05 23 23-0694 LF 3" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	68.86 8.63	14.39
40 05 23 23-0695 LF 4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	86.65 10.22	17.08
40 05 23 23-0696 LF 6" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	126.82 13.41	22.43
40 05 23 23-0697 LF 8" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	209.24 25.06	39.00
40 05 23 23-0698 LF 10" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	268.91 27.56	42.88
40 05 23 23-0699 LF 12" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	322.74 30.62	47.68
40 05 23 23-0700 LF 14" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	398.26 34.45	53.60
40 05 23 23-0701 LF 16" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	437.99 39.38	61.25
40 05 23 23-0702 LF 18" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	490.04 45.94	71.45
40 05 23 23-0703 LF 20" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	683.60 55.13	85.75
40 05 23 23-0704 LF 24" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	892.63 68.91	107.19

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0705			Type 316, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 23-0685)		
40 05 23 23-0706	EA		1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....117.02	50.92	
			<i>For Work In Restricted Working Space, Add</i> .....33.95		
40 05 23 23-0707	EA		3/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....123.98	54.05	
			<i>For Work In Restricted Working Space, Add</i> .....36.03		
40 05 23 23-0708	EA		1", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....136.58	59.40	
			<i>For Work In Restricted Working Space, Add</i> .....39.60		
40 05 23 23-0709	EA		1-1/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....149.36	64.74	
			<i>For Work In Restricted Working Space, Add</i> .....43.16		
40 05 23 23-0710	EA		1-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....164.33	71.49	
			<i>For Work In Restricted Working Space, Add</i> .....47.66		
40 05 23 23-0711	EA		2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....183.44	79.54	
			<i>For Work In Restricted Working Space, Add</i> .....53.03		
40 05 23 23-0712	EA		2-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....237.83	101.80	
			<i>For Work In Restricted Working Space, Add</i> .....67.86		
40 05 23 23-0713	EA		3", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....279.55	119.30	
			<i>For Work In Restricted Working Space, Add</i> .....79.54		
40 05 23 23-0714	EA		4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....340.56	142.80	
			<i>For Work In Restricted Working Space, Add</i> .....95.20		
40 05 23 23-0715	EA		6", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....458.36	178.38	
			<i>For Work In Restricted Working Space, Add</i> .....118.92		
40 05 23 23-0716	EA		8", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....770.30	295.31	
			<i>For Work In Restricted Working Space, Add</i> .....196.88		
40 05 23 23-0717	EA		10", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....1,123.79	393.74	
			<i>For Work In Restricted Working Space, Add</i> .....262.49		
40 05 23 23-0718	EA		12", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....1,685.61	590.62	
			<i>For Work In Restricted Working Space, Add</i> .....393.74		
40 05 23 23-0719	EA		14", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....1,966.72	689.05	
			<i>For Work In Restricted Working Space, Add</i> .....459.37		
40 05 23 23-0720	EA		16", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....2,321.44	785.99	
			<i>For Work In Restricted Working Space, Add</i> .....524.00		
40 05 23 23-0721	EA		18", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....2,919.17	984.36	
			<i>For Work In Restricted Working Space, Add</i> .....656.24		
40 05 23 23-0722	EA		20", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....4,079.24	1,378.11	
			<i>For Work In Restricted Working Space, Add</i> .....918.74		
40 05 23 23-0723	EA		24", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow .....5,858.31	1,968.73	
			<i>For Work In Restricted Working Space, Add</i> .....1,312.48		
40 05 23 23-0724			Type 316, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 23-0685)		
40 05 23 23-0725	EA		1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow .....118.08	50.92	
			<i>For Work In Restricted Working Space, Add</i> .....33.95		
40 05 23 23-0726	EA		3/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow .....125.04	54.05	
			<i>For Work In Restricted Working Space, Add</i> .....36.03		
40 05 23 23-0727	EA		1", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow .....137.63	59.40	
			<i>For Work In Restricted Working Space, Add</i> .....39.60		
40 05 23 23-0728	EA		1-1/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow .....150.77	64.74	
			<i>For Work In Restricted Working Space, Add</i> .....43.16		
40 05 23 23-0729	EA		1-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow .....164.33	71.49	
			<i>For Work In Restricted Working Space, Add</i> .....47.66		
40 05 23 23-0730	EA		2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow .....183.44	79.54	
			<i>For Work In Restricted Working Space, Add</i> .....53.03		
40 05 23 23-0731	EA		2-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow .....236.77	101.80	
			<i>For Work In Restricted Working Space, Add</i> .....67.86		
40 05 23 23-0732	EA		3", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow .....277.97	119.30	
			<i>For Work In Restricted Working Space, Add</i> .....79.54		
40 05 23 23-0733	EA		4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow .....336.87	142.80	
			<i>For Work In Restricted Working Space, Add</i> .....95.20		
40 05 23 23-0734	EA		6", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow .....436.54	178.38	
			<i>For Work In Restricted Working Space, Add</i> .....118.92		
40 05 23 23-0735	EA		8", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow .....731.14	295.31	
			<i>For Work In Restricted Working Space, Add</i> .....196.88		
40 05 23 23-0736	EA		10", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow .....1,108.03	393.74	
			<i>For Work In Restricted Working Space, Add</i> .....262.49		
40 05 23 23-0737	EA		12", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow .....1,633.34	590.62	
			<i>For Work In Restricted Working Space, Add</i> .....393.74		
40 05 23 23-0738	EA		14", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow .....1,917.73	689.05	
			<i>For Work In Restricted Working Space, Add</i> .....459.37		
40 05 23 23-0739	EA		16", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow .....2,231.64	785.99	
			<i>For Work In Restricted Working Space, Add</i> .....524.00		
40 05 23 23-0740	EA		18", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow .....2,813.41	984.36	
			<i>For Work In Restricted Working Space, Add</i> .....656.24		
40 05 23 23-0741	EA		20", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow .....3,984.22	1,378.11	
			<i>For Work In Restricted Working Space, Add</i> .....918.74		
40 05 23 23-0742	EA		24", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow .....5,731.75	1,968.73	
			<i>For Work In Restricted Working Space, Add</i> .....1,312.48		
40 05 23 23-0743			Type 316, Schedule 10 Stainless Steel Butt Weld Tees (40 05 23 23-0685)		
40 05 23 23-0744	EA		1/2", Type 316, Schedule 10 Stainless Steel Tee .....155.79	64.72	
			<i>For Work In Restricted Working Space, Add</i> .....43.15		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0745 EA 3/4", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	188.52 52.97	79.45
40 05 23 23-0746 EA 1", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	210.33 59.51	89.27
40 05 23 23-0747 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	241.19 67.86	101.80
40 05 23 23-0748 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	255.84 72.85	109.27
40 05 23 23-0749 EA 2", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	278.22 79.45	119.17
40 05 23 23-0750 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	337.04 95.20	142.80
40 05 23 23-0751 EA 3", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	422.51 119.31	178.96
40 05 23 23-0752 EA 4", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	482.75 133.90	200.85
40 05 23 23-0753 EA 6", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	693.65 178.53	267.79
40 05 23 23-0754 EA 8", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	1,113.53 262.49	393.74
40 05 23 23-0755 EA 10", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	1,721.72 393.74	590.62
40 05 23 23-0756 EA 12", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	2,201.71 492.18	738.27
40 05 23 23-0757 EA 14", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	2,786.74 591.46	887.19
40 05 23 23-0758 EA 16", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	3,313.24 721.52	1,082.29
40 05 23 23-0759 EA 18", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	4,212.81 918.74	1,378.11
40 05 23 23-0760 EA 20", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	5,652.01 1,208.87	1,813.30
40 05 23 23-0761 EA 24", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	8,191.56 1,837.48	2,756.22
40 05 23 23-0762 Type 316, Schedule 10 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0685)		
40 05 23 23-0763 EA 3/4", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	142.85 36.05	54.07
40 05 23 23-0764 EA 1", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	170.99 44.17	66.25
40 05 23 23-0765 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	204.86 49.63	74.45
40 05 23 23-0766 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	215.69 56.58	84.86
40 05 23 23-0767 EA 2", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	229.77 60.80	91.19
40 05 23 23-0768 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	296.72 66.26	99.39
40 05 23 23-0769 EA 3", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	303.63 79.42	119.12
40 05 23 23-0770 EA 4", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	401.27 99.26	148.89
40 05 23 23-0771 EA 6", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	540.51 113.42	170.13
40 05 23 23-0772 EA 8", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	985.20 164.06	246.09
40 05 23 23-0773 EA 10", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	1,722.90 218.75	328.12
40 05 23 23-0774 EA 12", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	2,297.89 328.12	492.18
40 05 23 23-0775 EA 14", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	2,635.24 394.20	591.30
40 05 23 23-0776 EA 16", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	3,257.54 480.85	721.27
40 05 23 23-0777 EA 18", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	4,199.47 612.49	918.74
40 05 23 23-0778 EA 20", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	5,917.76 805.91	1,208.86
40 05 23 23-0779 EA 24", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	9,226.25 1,223.90	1,835.84
40 05 23 23-0780 Type 316, Schedule 10 Stainless Steel Butt Weld Reducers (40 05 23 23-0685)		
40 05 23 23-0781 EA 3/4", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	116.84 32.78	49.18
40 05 23 23-0782 EA 1", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	128.41 35.72	53.58
40 05 23 23-0783 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	143.01 39.60	59.40
40 05 23 23-0784 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	151.60 43.16	64.74
40 05 23 23-0785 EA 2", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	165.73 47.66	71.49

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0786 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	215.04 59.56	89.34
40 05 23 23-0787 EA 3", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	248.71 67.80	101.71
40 05 23 23-0788 EA 4", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	278.24 79.45	119.17
40 05 23 23-0789 EA 6", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	376.07 101.15	151.72
40 05 23 23-0790 EA 8", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	582.64 157.50	236.25
40 05 23 23-0791 EA 10", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	746.74 196.88	295.31
40 05 23 23-0792 EA 12", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	998.16 262.49	393.74
40 05 23 23-0793 EA 14", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,387.11 344.53	516.79
40 05 23 23-0794 EA 16", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,602.41 392.62	588.93
40 05 23 23-0795 EA 18", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,990.76 492.18	738.27
40 05 23 23-0796 EA 20", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,760.85 656.24	984.36
40 05 23 23-0797 EA 24", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	4,050.00 984.36	1,476.55
40 05 23 23-0798 EA 3/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	130.52 32.78	49.18
40 05 23 23-0799 EA 1", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	144.66 35.72	53.58
40 05 23 23-0800 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	162.27 39.60	59.40
40 05 23 23-0801 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	174.13 43.16	64.74
40 05 23 23-0802 EA 2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	179.64 47.66	71.49
40 05 23 23-0803 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	234.26 59.56	89.34
40 05 23 23-0804 EA 3", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	268.43 67.80	101.71
40 05 23 23-0805 EA 4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	304.97 79.45	119.17
40 05 23 23-0806 EA 6", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	422.00 101.15	151.72
40 05 23 23-0807 EA 8", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	682.19 157.50	236.25
40 05 23 23-0808 EA 10", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	918.18 196.88	295.31
40 05 23 23-0809 EA 12", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,176.06 262.49	393.74
40 05 23 23-0810 EA 14", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,724.48 344.53	516.79
40 05 23 23-0811 EA 16", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,010.17 392.62	588.93
40 05 23 23-0812 EA 18", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,497.38 492.18	738.27
40 05 23 23-0813 EA 20", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,571.09 656.24	984.36
40 05 23 23-0814 EA 24", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	5,012.22 984.36	1,476.55
40 05 23 23-0815 Type 316, Schedule 10 Stainless Steel Butt Weld Caps (40 05 23 23-0885)		
40 05 23 23-0816 EA 1/2", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	64.32 16.97	25.46
40 05 23 23-0817 EA 3/4", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	70.43 18.02	27.02
40 05 23 23-0818 EA 1", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	77.26 19.80	29.70
40 05 23 23-0819 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	84.41 21.58	32.37
40 05 23 23-0820 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	91.76 23.83	35.75
40 05 23 23-0821 EA 2", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	98.05 26.51	39.76
40 05 23 23-0822 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	123.35 33.93	50.90
40 05 23 23-0823 EA 3", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	145.59 39.77	59.65
40 05 23 23-0824 EA 4", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	174.33 47.60	71.39
40 05 23 23-0825 EA 6", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	224.58 59.56	89.34
40 05 23 23-0826 EA 8", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	374.88 98.44	147.65



Process Interconnections	40
Common Work Results For Process Interconnections	40 05
Stainless Steel Process Pipe and Tubing	40 05 23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0827 EA 10", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	498.04 131.25	196.87
40 05 23 23-0828 EA 12", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	737.39 196.88	295.30
40 05 23 23-0829 EA 14", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	858.39 229.69	344.52
40 05 23 23-0830 EA 16", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	984.72 262.00	392.99
40 05 23 23-0831 EA 18", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,238.83 328.12	492.18
40 05 23 23-0832 EA 20", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,721.54 459.37	689.05
40 05 23 23-0833 EA 24", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	2,560.58 656.24	984.35
40 05 23 23-0834 Type 316, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)		
40 05 23 23-0835 Type 316, Schedule 40 Stainless Steel Pipe (40 05 23 23-0834)		
40 05 23 23-0836 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	20.83 2.68	4.47
40 05 23 23-0837 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	25.30 3.28	5.46
40 05 23 23-0838 LF 1" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	31.07 3.84	6.45
40 05 23 23-0839 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	38.84 4.80	7.94
40 05 23 23-0840 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	44.79 5.42	8.93
40 05 23 23-0841 LF 2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	57.49 6.71	11.42
40 05 23 23-0842 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	71.60 7.67	12.91
40 05 23 23-0843 LF 3" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	69.31 8.63	14.39
40 05 23 23-0844 LF 4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	116.05 10.22	16.87
40 05 23 23-0845 LF 6" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	181.70 13.41	22.33
40 05 23 23-0846 LF 8" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	318.35 25.06	38.79
40 05 23 23-0847 LF 10" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	404.98 27.56	42.88
40 05 23 23-0848 LF 12" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	506.51 30.62	47.47
40 05 23 23-0849 Type 316, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 23-0834)		
40 05 23 23-0850 EA 1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	117.90 33.95	50.92
40 05 23 23-0851 EA 3/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	124.86 36.03	54.05
40 05 23 23-0852 EA 1", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	137.46 39.60	59.40
40 05 23 23-0853 EA 1-1/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	149.75 43.16	64.74
40 05 23 23-0854 EA 1-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	165.21 47.66	71.49
40 05 23 23-0855 EA 2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	185.55 53.03	79.54
40 05 23 23-0856 EA 2-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	244.34 67.86	101.80
40 05 23 23-0857 EA 3", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	288.70 79.54	119.30
40 05 23 23-0858 EA 4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	360.63 95.20	142.80
40 05 23 23-0859 EA 6", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	528.76 118.92	178.38
40 05 23 23-0860 EA 8", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	905.06 196.88	295.31
40 05 23 23-0861 EA 10", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,418.41 262.49	393.74
40 05 23 23-0862 EA 12", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,042.01 393.74	590.62
40 05 23 23-0863 EA 14", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,303.11 459.37	689.05
40 05 23 23-0864 EA 16", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,760.62 524.00	785.99
40 05 23 23-0865 EA 18", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	3,511.47 656.24	984.36
40 05 23 23-0866 EA 20", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	4,775.89 918.74	1,378.11

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0867 EA 24", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	6,909.87 1,312.48	1,968.73
40 05 23 23-0868 Type 316, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 23-0834)		
40 05 23 23-0869 EA 1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	119.66 33.95	50.92
40 05 23 23-0870 EA 3/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	126.62 36.03	54.05
40 05 23 23-0871 EA 1", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	138.51 39.60	59.40
40 05 23 23-0872 EA 1-1/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	150.26 43.16	64.74
40 05 23 23-0873 EA 1-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	166.26 47.66	71.49
40 05 23 23-0874 EA 2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	185.55 53.03	79.54
40 05 23 23-0875 EA 2-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	244.34 67.86	101.80
40 05 23 23-0876 EA 3", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	281.84 79.54	119.30
40 05 23 23-0877 EA 4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	347.60 95.20	142.80
40 05 23 23-0878 EA 6", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	475.26 118.92	178.38
40 05 23 23-0879 EA 8", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	810.79 196.88	295.31
40 05 23 23-0880 EA 10", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,201.16 262.49	393.74
40 05 23 23-0881 EA 12", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,751.18 393.74	590.62
40 05 23 23-0882 EA 14", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,002.11 459.37	689.05
40 05 23 23-0883 EA 16", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,266.79 524.00	785.99
40 05 23 23-0884 EA 18", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,896.69 656.24	984.36
40 05 23 23-0885 EA 20", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	3,964.93 918.74	1,378.11
40 05 23 23-0886 EA 24", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	5,826.87 1,312.48	1,968.73
40 05 23 23-0887 Type 316, Schedule 40 Stainless Steel Butt Weld Tees (40 05 23 23-0834)		
40 05 23 23-0888 EA 1/2", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	156.84 43.15	64.72
40 05 23 23-0889 EA 3/4", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	189.57 52.97	79.45
40 05 23 23-0890 EA 1", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	211.38 59.51	89.27
40 05 23 23-0891 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	242.72 67.86	101.80
40 05 23 23-0892 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	255.84 72.85	109.27
40 05 23 23-0893 EA 2", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	278.92 79.45	119.17
40 05 23 23-0894 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	343.31 95.20	142.80
40 05 23 23-0895 EA 3", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	425.85 119.31	178.96
40 05 23 23-0896 EA 4", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	488.56 133.90	200.85
40 05 23 23-0897 EA 6", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	735.01 178.53	267.79
40 05 23 23-0898 EA 8", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	1,219.79 262.49	393.74
40 05 23 23-0899 EA 10", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	2,002.28 393.74	590.62
40 05 23 23-0900 EA 12", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	2,470.68 492.18	738.27
40 05 23 23-0901 EA 14", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	3,419.46 591.46	887.19
40 05 23 23-0902 EA 16", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	4,225.01 721.52	1,082.29
40 05 23 23-0903 EA 18", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	5,455.71 918.74	1,378.11
40 05 23 23-0904 EA 20", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	7,104.11 1,208.87	1,813.30
40 05 23 23-0905 EA 24", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	10,288.81 1,837.48	2,756.22
40 05 23 23-0906 Type 316, Schedule 40 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0834)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0907 EA 3/4", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	146.20 36.05	54.07
40 05 23 23-0908 EA 1", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	173.28 44.17	66.25
40 05 23 23-0909 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	218.94 49.63	74.45
40 05 23 23-0910 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	221.15 56.58	84.86
40 05 23 23-0911 EA 2", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	229.77 60.80	91.19
40 05 23 23-0912 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	297.77 66.26	99.39
40 05 23 23-0913 EA 3", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	311.19 79.42	119.12
40 05 23 23-0914 EA 4", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	408.84 99.26	148.89
40 05 23 23-0915 EA 6", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	545.26 113.42	170.13
40 05 23 23-0916 EA 8", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	891.68 164.06	246.09
40 05 23 23-0917 EA 10", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	1,746.29 218.75	328.12
40 05 23 23-0918 EA 12", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	2,344.65 328.12	492.18
40 05 23 23-0919 EA 14", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	2,686.54 394.20	591.30
40 05 23 23-0920 EA 16", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	3,321.80 480.85	721.27
40 05 23 23-0921 EA 18", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	4,283.26 612.49	918.74
40 05 23 23-0922 EA 20", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	6,043.25 805.91	1,208.86
40 05 23 23-0923 EA 24", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	9,426.11 1,223.90	1,835.84
40 05 23 23-0924 Type 316, Schedule 40 Stainless Steel Butt Weld Reducers (#0 05 23 23-0834)		
40 05 23 23-0925 EA 3/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	119.65 32.78	49.18
40 05 23 23-0926 EA 1", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	131.22 35.72	53.58
40 05 23 23-0927 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	144.29 39.60	59.40
40 05 23 23-0928 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	154.77 43.16	64.74
40 05 23 23-0929 EA 2", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	167.67 47.66	71.49
40 05 23 23-0930 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	221.23 59.56	89.34
40 05 23 23-0931 EA 3", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	241.85 67.80	101.71
40 05 23 23-0932 EA 4", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	280.68 79.45	119.17
40 05 23 23-0933 EA 6", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	377.30 101.15	151.72
40 05 23 23-0934 EA 8", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	619.47 157.50	236.25
40 05 23 23-0935 EA 10", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	816.11 196.88	295.31
40 05 23 23-0936 EA 12", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,047.96 262.49	393.74
40 05 23 23-0937 EA 14", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,481.97 344.53	516.79
40 05 23 23-0938 EA 16", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,703.36 392.62	588.93
40 05 23 23-0939 EA 18", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,242.93 492.18	738.27
40 05 23 23-0940 EA 20", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	3,030.58 656.24	984.36
40 05 23 23-0941 EA 24", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	4,390.60 984.36	1,476.55
40 05 23 23-0942 EA 3/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	139.54 32.78	49.18
40 05 23 23-0943 EA 1", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	149.35 35.72	53.58
40 05 23 23-0944 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	171.42 39.60	59.40
40 05 23 23-0945 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	179.59 43.16	64.74
40 05 23 23-0946 EA 2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	194.07 47.66	71.49
40 05 23 23-0947 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	234.26 59.56	89.34

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0948 EA 3", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	292.71 67.80	101.71
40 05 23 23-0949 EA 4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	324.33 79.45	119.17
40 05 23 23-0950 EA 6", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	448.93 101.15	151.72
40 05 23 23-0951 EA 8", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	673.07 157.50	236.25
40 05 23 23-0952 EA 10", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	933.96 196.88	295.31
40 05 23 23-0953 EA 12", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,283.65 262.49	393.74
40 05 23 23-0954 EA 14", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,877.96 344.53	516.79
40 05 23 23-0955 EA 16", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,159.24 392.62	588.93
40 05 23 23-0956 EA 18", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,866.11 492.18	738.27
40 05 23 23-0957 EA 20", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	3,708.60 656.24	984.36
40 05 23 23-0958 EA 24", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	5,560.36 984.36	1,476.55
40 05 23 23-0959 Type 316, Schedule 40 Stainless Steel Butt Weld Caps (40 05 23 23-0834)		
40 05 23 23-0960 EA 1/2", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	64.68 16.97	25.46
40 05 23 23-0961 EA 3/4", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	70.26 18.02	27.02
40 05 23 23-0962 EA 1", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	77.62 19.80	29.70
40 05 23 23-0963 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	87.67 21.58	32.37
40 05 23 23-0964 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	89.12 23.83	35.75
40 05 23 23-0965 EA 2", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	100.51 26.51	39.76
40 05 23 23-0966 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	126.55 33.93	50.90
40 05 23 23-0967 EA 3", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	146.12 39.77	59.65
40 05 23 23-0968 EA 4", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	178.21 47.60	71.39
40 05 23 23-0969 EA 6", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	240.77 59.56	89.34
40 05 23 23-0970 EA 8", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	405.30 98.44	147.65
40 05 23 23-0971 EA 10", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	542.80 131.25	196.87
40 05 23 23-0972 EA 12", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	810.59 196.88	295.30
40 05 23 23-0973 EA 14", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	929.33 229.69	344.52
40 05 23 23-0974 EA 16", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,048.27 262.00	392.99
40 05 23 23-0975 EA 18", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,331.88 328.12	492.18
40 05 23 23-0976 EA 20", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,838.68 459.37	689.05
40 05 23 23-0977 EA 24", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	2,788.69 656.24	984.35
40 05 23 23-0978 Valves (40 05 23 23-0231)		
40 05 23 23-0979 Gate Valves, Class 150 (40 05 23 23-0978)		
40 05 23 23-0980 EA 1/2" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	495.49 19.14 -115.47 405.78	51.05
40 05 23 23-0981 EA 3/4" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	539.13 22.34 -124.30 436.79	53.18
40 05 23 23-0982 EA 1" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	665.70 30.10 -151.23 531.44	79.77
40 05 23 23-0983 EA 1-1/4" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	837.73 34.68 -193.17 678.79	93.06



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0984 EA 1-1/2" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	946.93 43.93 -214.13 752.46	117.15
40 05 23 23-0985 EA 2" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	1,124.59 53.18 -253.41 890.48	141.78
40 05 23 23-0986 EA 2-1/2" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	1,606.70 58.01 1,328.52	154.23
40 05 23 23-0987 EA 3" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	1,810.88 67.89 1,489.51	180.82
40 05 23 23-0988 EA 4" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	2,406.93 113.96 1,905.44	303.13
40 05 23 23-0989 EA 6" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	4,003.85 144.10 3,312.10	382.90
40 05 23 23-0990 EA 8" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	8,670.96 182.33 7,579.39	489.26
40 05 23 23-0991 EA 10" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	12,203.93 223.36 10,771.84	595.62
40 05 23 23-0992 EA 12" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	18,342.28 270.74 16,393.43	723.25
40 05 23 23-0993 Globe Valves, Class 150 <small>(40 05 23 23-0978)</small>		
40 05 23 23-0994 EA 1/2" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	673.62 19.14 -163.12 573.22	51.05
40 05 23 23-0995 EA 3/4" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	746.13 22.34 -179.67 631.37	53.18
40 05 23 23-0996 EA 1" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	931.09 30.10 -222.23 780.91	79.77
40 05 23 23-0997 EA 1-1/2" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	1,383.73 43.93 -330.98 1,163.05	117.15
40 05 23 23-0998 EA 2" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	1,688.53 53.18 -404.26 1,420.58	141.78
40 05 23 23-0999 EA 2-1/2" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	3,374.99 58.01 2,990.71	154.23
40 05 23 23-1000 EA 3" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	3,496.29 67.89 3,073.79	180.82
40 05 23 23-1001 EA 4" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	4,180.11 113.96 3,572.23	303.13
40 05 23 23-1002 EA 6" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	7,683.13 144.10 6,770.62	382.90
40 05 23 23-1003 Check Valves, Class 150 <small>(40 05 23 23-0978)</small>		
40 05 23 23-1004 EA 2-1/2" Check Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	1,538.88 58.01 1,264.77	154.23
40 05 23 23-1005 EA 3" Check Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	1,613.75 67.89 1,304.20	180.82
40 05 23 23-1006 EA 4" Check Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	2,539.16 113.96 2,029.73	303.13
40 05 23 23-1007 EA 6" Check Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	4,339.50 144.10 3,627.61	382.90
40 05 23 23-1008 EA 8" Check Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	7,591.00 182.33 6,564.23	489.26
40 05 23 23-1009 Stainless Steel Thread-O-Let Fittings <small>(40 05 23 23-0231)</small>		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1010 EA 1/2", Stainless Steel Thread-o-let Fitting..... <i>For Work In Restricted Working Space, Add</i>	79.96 20.59	30.87
40 05 23 23-1011 EA 3/4", Stainless Steel Thread-o-let Fitting..... <i>For Work In Restricted Working Space, Add</i>	105.67 27.45	41.17
40 05 23 23-1012 EA 1", Stainless Steel Thread-o-let Fitting..... <i>For Work In Restricted Working Space, Add</i>	130.33 34.04	51.05
40 05 23 23-1013 EA 1-1/4", Stainless Steel Thread-o-let Fitting..... <i>For Work In Restricted Working Space, Add</i>	186.75 48.17	72.24
40 05 23 23-1014 EA 1-1/2", Stainless Steel Thread-o-let Fitting..... <i>For Work In Restricted Working Space, Add</i>	207.24 54.31	81.47
40 05 23 23-1015 EA 2", Stainless Steel Thread-o-let Fitting..... <i>For Work In Restricted Working Space, Add</i>	259.80 68.99	103.49
40 05 23 23-1016 EA 2-1/2", Stainless Steel Thread-o-let Fitting..... <i>For Work In Restricted Working Space, Add</i>	454.60 106.36	159.54
40 05 23 23-1017 EA 3", Stainless Steel Thread-o-let Fitting..... <i>For Work In Restricted Working Space, Add</i>	605.14 135.78	203.67
40 05 23 23-1018 EA 4", Stainless Steel Thread-o-let Fitting..... <i>For Work In Restricted Working Space, Add</i>	792.90 170.18	255.26
40 05 23 23-1019 Stainless Steel Flanges (40 05 23 23-0231)		
40 05 23 23-1020 150#, Type 304 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)		
40 05 23 23-1021 EA 1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	55.58 10.29	17.16
40 05 23 23-1022 EA 3/4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	69.38 13.73	22.88
40 05 23 23-1023 EA 1", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	83.21 17.02	28.36
40 05 23 23-1024 EA 1-1/4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	113.84 24.08	40.14
40 05 23 23-1025 EA 1-1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	124.09 27.16	45.26
40 05 23 23-1026 EA 2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	158.96 34.50	57.48
40 05 23 23-1027 EA 2-1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	238.72 53.18	88.60
40 05 23 23-1028 EA 3", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	290.59 67.89	180.82
40 05 23 23-1029 EA 4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	371.56 85.09	141.78
40 05 23 23-1030 300#, Type 304 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)		
40 05 23 23-1031 EA 1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	67.88 10.29	17.16
40 05 23 23-1032 EA 3/4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	79.32 13.73	22.88
40 05 23 23-1033 EA 1", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	90.30 17.02	28.36
40 05 23 23-1034 EA 1-1/4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	131.81 24.08	40.14
40 05 23 23-1035 EA 1-1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	142.06 27.16	45.26
40 05 23 23-1036 EA 2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	177.39 34.50	57.48
40 05 23 23-1037 EA 2-1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	279.85 53.18	88.60
40 05 23 23-1038 EA 3", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	332.66 67.89	180.82
40 05 23 23-1039 EA 4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	436.32 85.09	141.78
40 05 23 23-1040 150#, Type 304 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)		
40 05 23 23-1041 EA 1/2", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	77.85 16.97	25.45
40 05 23 23-1042 EA 3/4", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	83.68 18.02	27.02
40 05 23 23-1043 EA 1", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	93.42 19.80	29.70
40 05 23 23-1044 EA 1-1/4", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	111.25 21.60	32.39
40 05 23 23-1045 EA 1-1/2", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	118.60 23.81	35.71
40 05 23 23-1046 EA 2", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	131.89 26.52	39.78
40 05 23 23-1047 EA 2-1/2", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	178.75 33.91	50.86
40 05 23 23-1048 EA 3", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	204.19 39.70	59.55
40 05 23 23-1049 EA 4", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	258.78 47.57	71.35



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1050 EA 6", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	371.13 59.44	89.15
40 05 23 23-1051 EA 8", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	621.19 98.44	147.65
40 05 23 23-1052 EA 10", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	870.01 131.25	196.86
40 05 23 23-1053 EA 12", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,331.24 196.88	295.30
40 05 23 23-1054 EA 14", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,642.78 229.69	344.52
40 05 23 23-1055 EA 16", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	2,017.96 262.00	392.99
40 05 23 23-1056 EA 18", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	2,484.21 328.12	492.18
40 05 23 23-1057 EA 20", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	3,263.56 459.37	689.05
40 05 23 23-1058 EA 24", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	4,642.35 656.24	984.35
40 05 23 23-1059 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <small>(40 05 23 23-1019)</small>		
40 05 23 23-1060 EA 1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	92.51 16.97	25.45
40 05 23 23-1061 EA 3/4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	95.98 18.02	27.02
40 05 23 23-1062 EA 1" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	101.94 19.80	29.70
40 05 23 23-1063 EA 1-1/4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	127.77 21.60	32.39
40 05 23 23-1064 EA 1-1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	135.12 23.81	35.71
40 05 23 23-1065 EA 2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	146.07 26.52	39.78
40 05 23 23-1066 EA 2-1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	203.32 33.91	50.86
40 05 23 23-1067 EA 3" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	231.60 39.70	59.55
40 05 23 23-1068 EA 4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	323.05 47.57	71.35
40 05 23 23-1069 EA 6" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	443.92 59.44	89.15
40 05 23 23-1070 EA 8" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	802.70 98.44	147.65
40 05 23 23-1071 EA 10" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,109.68 131.25	196.86
40 05 23 23-1072 EA 12" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,635.68 196.88	295.30
40 05 23 23-1073 EA 14" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	2,124.02 229.69	344.52
40 05 23 23-1074 EA 16" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	2,593.47 262.00	392.99
40 05 23 23-1075 EA 18" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	3,303.72 328.12	492.18
40 05 23 23-1076 EA 20" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	4,312.09 459.37	689.05
40 05 23 23-1077 EA 24" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	6,261.75 656.24	984.35
40 05 23 23-1078 150#, Type 304 Stainless Steel Raised Face Slip-On Flanges <small>(40 05 23 23-1019)</small>		
40 05 23 23-1079 EA 1/2", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	132.06 33.95	50.91
40 05 23 23-1080 EA 3/4", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	139.50 36.03	54.04
40 05 23 23-1081 EA 1", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	153.28 39.60	59.40
40 05 23 23-1082 EA 1-1/4", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	172.82 43.19	64.79
40 05 23 23-1083 EA 1-1/2", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	187.54 47.61	71.41
40 05 23 23-1084 EA 2", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	214.15 53.04	79.55
40 05 23 23-1085 EA 2-1/2", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	278.54 67.82	101.73
40 05 23 23-1086 EA 3", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	320.94 79.40	119.09
40 05 23 23-1087 EA 4", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	393.73 95.14	142.71
40 05 23 23-1088 EA 6", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	512.99 118.87	178.29
40 05 23 23-1089 EA 8", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	877.01 196.88	295.30
40 05 23 23-1090 EA 10" 150#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,217.68 262.49	393.74

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1091 EA 12" 150#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,818.74 393.74	590.61
40 05 23 23-1092 300#, Type 304 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)		
40 05 23 23-1093 EA 1/2" 300#, Type 304 Stainless Steel Raised Neck Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	141.51 33.95	50.91
40 05 23 23-1094 EA 3/4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	148.47 36.03	54.04
40 05 23 23-1095 EA 1" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	160.37 39.60	59.40
40 05 23 23-1096 EA 1-1/4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	187.48 43.19	64.79
40 05 23 23-1097 EA 1-1/2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	202.20 47.61	71.41
40 05 23 23-1098 EA 2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	224.06 53.04	79.55
40 05 23 23-1099 EA 2-1/2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	315.43 67.82	101.73
40 05 23 23-1100 EA 3" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	357.80 79.40	119.09
40 05 23 23-1101 EA 4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	444.77 95.14	142.71
40 05 23 23-1102 EA 6" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	657.17 118.87	178.29
40 05 23 23-1103 EA 8" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,022.59 196.88	295.30
40 05 23 23-1104 EA 10" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,452.14 262.49	393.74
40 05 23 23-1105 EA 12" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	2,120.33 393.74	590.61
40 05 23 23-1106 150#, Type 304 Stainless Steel Blind Flanges (40 05 23 23-1019)		
40 05 23 23-1107 EA 1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	42.81 6.79	10.18
40 05 23 23-1108 EA 3/4", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	44.82 7.21	10.80
40 05 23 23-1109 EA 1", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	48.64 7.92	11.88
40 05 23 23-1110 EA 1-1/4", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	61.06 8.81	13.22
40 05 23 23-1111 EA 1-1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	71.38 11.91	17.86
40 05 23 23-1112 EA 2", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	83.33 13.22	19.84
40 05 23 23-1113 EA 2-1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	112.45 17.00	25.50
40 05 23 23-1114 EA 3", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	140.86 23.82	35.74
40 05 23 23-1115 EA 4", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	218.35 39.69	59.54
40 05 23 23-1116 EA 6", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	295.88 51.04	76.57
40 05 23 23-1117 EA 8", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	434.38 61.25	91.87
40 05 23 23-1118 EA 10", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	644.90 73.50	110.24
40 05 23 23-1119 EA 12", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	847.47 91.87	137.81
40 05 23 23-1120 EA 14", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,075.17 114.84	172.27
40 05 23 23-1121 EA 16", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,368.12 131.00	196.50
40 05 23 23-1122 EA 18", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,627.76 164.06	246.09
40 05 23 23-1123 EA 20", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,175.25 229.69	344.52
40 05 23 23-1124 EA 24", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	3,160.85 328.12	492.18
40 05 23 23-1125 300#, Type 304 Stainless Steel Blind Flanges (40 05 23 23-1019)		
40 05 23 23-1126 EA 1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	52.43 6.79	10.18
40 05 23 23-1127 EA 3/4", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	53.82 7.21	10.80
40 05 23 23-1128 EA 1", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	56.20 7.92	11.88
40 05 23 23-1129 EA 1-1/4", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	70.04 8.81	13.22
40 05 23 23-1130 EA 1-1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	80.36 11.91	17.86



Process Interconnections	40
Common Work Results For Process Interconnections	
Stainless Steel Process Pipe and Tubing	40 05 23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1131 EA 2", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	88.05 13.22	19.84
40 05 23 23-1132 EA 2-1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	145.54 17.00	25.50
40 05 23 23-1133 EA 3", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	171.82 23.82	35.74
40 05 23 23-1134 EA 4", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	257.10 39.69	59.54
40 05 23 23-1135 EA 6", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	455.64 51.04	76.57
40 05 23 23-1136 EA 8", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	625.34 61.25	91.87
40 05 23 23-1137 EA 10", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	877.45 73.50	110.24
40 05 23 23-1138 EA 12", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,204.35 91.87	137.81
40 05 23 23-1139 EA 14", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,670.41 114.84	172.27
40 05 23 23-1140 EA 16", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,119.63 131.00	196.50
40 05 23 23-1141 EA 18", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,758.78 164.06	246.09
40 05 23 23-1142 EA 20", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	3,517.13 229.69	344.52
40 05 23 23-1143 EA 24", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	5,367.93 328.12	492.18
40 05 23 23-1144 150#, Type 316 Stainless Steel Raised Face Threaded Flange (40 05 23-1019)		
40 05 23 23-1145 EA 1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	64.10 10.29	17.16
40 05 23 23-1146 EA 3/4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	80.27 13.73	22.88
40 05 23 23-1147 EA 1", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	93.59 17.02	28.36
40 05 23 23-1148 EA 1-1/4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	129.43 24.08	40.14
40 05 23 23-1149 EA 1-1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	139.68 27.16	45.26
40 05 23 23-1150 EA 2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	175.99 34.50	57.48
40 05 23 23-1151 EA 2-1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	263.31 53.18	88.60
40 05 23 23-1152 EA 3", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	322.27 67.89	180.82
40 05 23 23-1153 EA 4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	415.98 85.09	141.78
40 05 23 23-1154 300#, Type 316 Stainless Steel Raised Face Threaded Flange (40 05 23-1019)		
40 05 23 23-1155 EA 1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	80.17 10.29	17.16
40 05 23 23-1156 EA 3/4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	91.61 13.73	22.88
40 05 23 23-1157 EA 1", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	102.59 17.02	28.36
40 05 23 23-1158 EA 1-1/4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	155.45 24.08	40.14
40 05 23 23-1159 EA 1-1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	165.70 27.16	45.26
40 05 23 23-1160 EA 2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	198.19 34.50	57.48
40 05 23 23-1161 EA 2-1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	326.65 53.18	88.60
40 05 23 23-1162 EA 3", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	380.40 67.89	180.82
40 05 23 23-1163 EA 4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	512.41 85.09	141.78
40 05 23 23-1164 150#, Type 316 Stainless Steel Raised Face Weld Neck Flange (40 05 23-1019)		
40 05 23 23-1165 EA 1/2", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	88.71 16.97	25.45
40 05 23 23-1166 EA 3/4", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	94.57 18.02	27.02
40 05 23 23-1167 EA 1", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	105.71 19.80	29.70
40 05 23 23-1168 EA 1-1/4", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	127.31 21.60	32.39
40 05 23 23-1169 EA 1-1/2", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	134.66 23.81	35.71
40 05 23 23-1170 EA 2", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	148.43 26.52	39.78

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1171 EA 2-1/2", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	206.61 33.91	50.86
40 05 23 23-1172 EA 3", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	229.23 39.70	59.55
40 05 23 23-1173 EA 4", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	301.32 47.57	71.35
40 05 23 23-1174 EA 6", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	444.87 59.44	89.15
40 05 23 23-1175 EA 8", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	735.11 98.44	147.65
40 05 23 23-1176 EA 10", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,060.04 131.25	196.86
40 05 23 23-1177 EA 12", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,582.27 196.88	295.30
40 05 23 23-1178 EA 14", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,850.68 229.69	344.52
40 05 23 23-1179 EA 16", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	2,289.26 262.00	392.99
40 05 23 23-1180 EA 18", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	2,813.78 328.12	492.18
40 05 23 23-1181 EA 20", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	3,674.16 459.37	689.05
40 05 23 23-1182 EA 24", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	5,224.20 656.24	984.35
40 05 23 23-1183 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)		
40 05 23 23-1184 EA 1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	106.69 16.97	25.45
40 05 23 23-1185 EA 3/4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	110.16 18.02	27.02
40 05 23 23-1186 EA 1" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	116.12 19.80	29.70
40 05 23 23-1187 EA 1-1/4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	147.18 21.60	32.39
40 05 23 23-1188 EA 1-1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	154.53 23.81	35.71
40 05 23 23-1189 EA 2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	169.70 26.52	39.78
40 05 23 23-1190 EA 2-1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	243.98 33.91	50.86
40 05 23 23-1191 EA 3" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	269.89 39.70	59.55
40 05 23 23-1192 EA 4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	393.95 47.57	71.35
40 05 23 23-1193 EA 6" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	619.29 59.44	89.15
40 05 23 23-1194 EA 8" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	981.87 98.44	147.65
40 05 23 23-1195 EA 10" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,399.90 131.25	196.86
40 05 23 23-1196 EA 12" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	2,062.03 196.88	295.30
40 05 23 23-1197 EA 14" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	2,744.14 229.69	344.52
40 05 23 23-1198 EA 16" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	3,378.72 262.00	392.99
40 05 23 23-1199 EA 18" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	4,312.60 328.12	492.18
40 05 23 23-1200 EA 20" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	5,581.57 459.37	689.05
40 05 23 23-1201 EA 24" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	8,121.67 656.24	984.35
40 05 23 23-1202 150#, Type 316 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)		
40 05 23 23-1203 EA 1/2", 150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	137.74 33.95	50.91
40 05 23 23-1204 EA 3/4", 150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	148.02 36.03	54.04
40 05 23 23-1205 EA 1", 150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	163.05 39.60	59.40
40 05 23 23-1206 EA 1-1/4", 150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	208.44 43.19	64.79
40 05 23 23-1207 EA 1-1/2", 150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	198.88 47.61	71.41
40 05 23 23-1208 EA 2", 150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	216.97 53.04	79.55
40 05 23 23-1209 EA 2-1/2", 150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	276.66 67.82	101.73
40 05 23 23-1210 EA 3", 150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	337.01 79.40	119.09
40 05 23 23-1211 EA 4", 150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	427.74 95.14	142.71



Process Interconnections	40
Common Work Results For Process Interconnections	
Stainless Steel Process Pipe and Tubing	40 05
40 05 23	40

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1212 EA 6", 150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	563.56 118.87	178.29
40 05 23 23-1213 EA 8", 150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	981.45 196.88	295.30
40 05 23 23-1214 EA 10" 150#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,360.44 262.49	393.74
40 05 23 23-1215 EA 12" 150#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	2,009.70 393.74	590.61
40 05 23 23-1216 300#, Type 316 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)		
40 05 23 23-1217 EA 1/2" 300#, Type 316 Stainless Steel Raised Neck Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	150.97 33.95	50.91
40 05 23 23-1218 EA 3/4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	157.93 36.03	54.04
40 05 23 23-1219 EA 1" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	169.83 39.60	59.40
40 05 23 23-1220 EA 1-1/4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	205.91 43.19	64.79
40 05 23 23-1221 EA 1-1/2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	220.63 47.61	71.41
40 05 23 23-1222 EA 2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	241.49 53.04	79.55
40 05 23 23-1223 EA 2-1/2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	356.54 67.82	101.73
40 05 23 23-1224 EA 3" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	399.86 79.40	119.09
40 05 23 23-1225 EA 4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	509.99 95.14	142.71
40 05 23 23-1226 EA 6" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	752.18 118.87	178.29
40 05 23 23-1227 EA 8" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,120.44 196.88	295.30
40 05 23 23-1228 EA 10" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,770.73 262.49	393.74
40 05 23 23-1229 EA 12" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	2,401.10 393.74	590.61
40 05 23 23-1230 150#, Type 316 Stainless Steel Blind Flanges (40 05 23 23-1019)		
40 05 23 23-1231 EA 1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	47.23 6.79	10.18
40 05 23 23-1232 EA 3/4", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	52.87 7.21	10.80
40 05 23 23-1233 EA 1", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	59.50 7.92	11.88
40 05 23 23-1234 EA 1-1/4", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	69.56 8.81	13.22
40 05 23 23-1235 EA 1-1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	79.88 11.91	17.86
40 05 23 23-1236 EA 2", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	97.51 13.22	19.84
40 05 23 23-1237 EA 2-1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	134.67 17.00	25.50
40 05 23 23-1238 EA 3", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	165.45 23.82	35.74
40 05 23 23-1239 EA 4", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	259.94 39.69	59.54
40 05 23 23-1240 EA 6", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	362.53 51.04	76.57
40 05 23 23-1241 EA 8", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	593.66 61.25	91.87
40 05 23 23-1242 EA 10", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	770.64 73.50	110.24
40 05 23 23-1243 EA 12", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,210.04 91.87	137.81
40 05 23 23-1244 EA 14", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,446.37 114.84	172.27
40 05 23 23-1245 EA 16", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,867.51 131.00	196.50
40 05 23 23-1246 EA 18", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,207.26 164.06	246.09
40 05 23 23-1247 EA 20", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,931.01 229.69	344.52
40 05 23 23-1248 EA 24", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	4,269.12 328.12	492.18
40 05 23 23-1249 300#, Type 316 Stainless Steel Blind Flanges (40 05 23 23-1019)		
40 05 23 23-1250 EA 1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	68.50 6.79	10.18
40 05 23 23-1251 EA 3/4", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	69.89 7.21	10.80

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1252 EA 1", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	72.27 7.92	11.88
40 05 23 23-1253 EA 1-1/4", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	104.56 8.81	13.22
40 05 23 23-1254 EA 1-1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	114.88 11.91	17.86
40 05 23 23-1255 EA 2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	127.28 13.22	19.84
40 05 23 23-1256 EA 2-1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	206.06 17.00	25.50
40 05 23 23-1257 EA 3", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	233.51 23.82	35.74
40 05 23 23-1258 EA 4", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	361.09 39.69	59.54
40 05 23 23-1259 EA 6", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	632.92 51.04	76.57
40 05 23 23-1260 EA 8", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	808.76 61.25	91.87
40 05 23 23-1261 EA 10", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,410.66 73.50	110.24
40 05 23 23-1262 EA 12", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,722.91 91.87	137.81
40 05 23 23-1263 EA 14", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,466.88 114.84	172.27
40 05 23 23-1264 EA 16", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	3,160.66 131.00	196.50
40 05 23 23-1265 EA 18", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	4,126.98 164.06	246.09
40 05 23 23-1266 EA 20", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	5,219.13 229.69	344.52
40 05 23 23-1267 EA 24", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	8,011.80 328.12	492.18
40 05 23 23-1268 Type 316 Seamless Annealed Tubing (40 05 23 23) Note: For high pressure air (8000 PSIG working pressure).		
40 05 23 23-1269 Type 316 Seamless Annealed Tubing (40 05 23 23-1268)		
40 05 23 23-1270 LF 3/8" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .065 Wall Thickness.....	18.28	
40 05 23 23-1271 LF 1/2" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .083 Wall Thickness.....	22.48	
40 05 23 23-1272 LF 3/4" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .120 Wall Thickness.....	27.12	
40 05 23 23-1273 Type 316 Seamless Annealed Tubing Fittings (40 05 23 23-1268) Note: Pressure rating 5000 PSI minimum. Includes front and back ferrules.		
40 05 23 23-1274 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Connector With Front And Back Ferrules	61.56	
40 05 23 23-1275 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Elbow With Front And Back Ferrules	65.31	
40 05 23 23-1276 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Tee With Front And Back Ferrules.....	100.14	
40 05 23 23-1277 EA 3/8" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	52.63	
40 05 23 23-1278 EA 3/8" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules	86.97	
40 05 23 23-1279 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Connector With Front And Back Ferrules	67.23	
40 05 23 23-1280 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Elbow With Front And Back Ferrules	80.97	
40 05 23 23-1281 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules	124.48	
40 05 23 23-1282 EA 1/2" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	78.74	
40 05 23 23-1283 EA 1/2" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules	122.44	
40 05 23 23-1284 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Connector With Front And Back Ferrules	78.87	
40 05 23 23-1285 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Elbow With Front And Back Ferrules	100.96	
40 05 23 23-1286 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules	165.87	
40 05 23 23-1287 EA 3/4" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	136.16	
40 05 23 23-1288 EA 3/4" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules	168.47	
40 05 23 23-1289 Valves For High Pressure Air (5,000 PSIG) (40 05 23 23-1268)		
40 05 23 23-1290 Needle Valves (40 05 23 23-1289)		
40 05 23 23-1291 EA 3/8" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge	295.33	
40 05 23 23-1292 EA 1/2" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge	465.96	
40 05 23 23-1293 Safety Valve (Code Stamped) Work Pressure, 6,000 PSIG (40 05 23 23-1289)		
40 05 23 23-1294 EA 1/4" NPT Inlet, Safety Valve Spring Loaded 316 Stainless Steel Construction.....	282.47	
40 05 23 23-1295 Other Valves Working Pressure 6,000 PSI (40 05 23 23-1289)		
40 05 23 23-1296 EA 1/4" NPT Pressure Reducing Valve Spring Loaded, Stainless Steel Body, 6,000 PSIG.....	1,153.71	
40 05 23 23-1297 EA 1/4" NPT Pressure Gauge, Liquid Filled, 6,000 PSIG, Blow Out Back.....	293.59	
40 05 23 23-1298 EA Snubber 316 Stainless Steel Body, Rated For Design Pressure With Sinterec Element.....	59.29	



Process Interconnections	40	40
Common Work Results For Process Interconnections	40 05	
Stainless Steel Process Pipe and Tubing	40 05 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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END OF SECTION 40

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 23 Stainless Steel Process Pipe and Tubing



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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Process Gas and Liquid Handling, Purification, and Storage Equipment	43	43
Liquid Handling Equipment	43 20	
Dry Location Liquid Pumps	43 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
43 Process Gas and Liquid Handling, Purification, and Storage Equipment		
43 20 Liquid Handling Equipment ⁽⁴³⁾		
43 23 Dry Location Liquid Pumps ^(43 20)		
43 23 78 Controlled Volume Horizontal Reciprocating Pumps ^(43 23)		
43 23 78 31 Controlled Volume Horizontal Mechanically-Coupled Diaphragm Simplex Reciprocating Pumps ^(43 23 78)		
43 23 78 31-0001 Diaphragm Pump ^(43 23 78 31)		
43 23 78 31-0002 EA 28 GPH Diaphragm Pump, Adjustable Flow 0-100% 250 PSI	3,386.01	
43 24 Suspended Liquid Pumps ^(43 20)		
43 24 41 Archimedes Screw Pumps ^(43 24)		
43 24 41 23 Positive-Displacement Inclined Closed-casing Archimedes Screw-type Pumps ^(43 24 41)		
43 24 41 23-0001 Positive Displacement Pump ^(43 24 41 23)		
43 24 41 23-0002 EA 25 GPH Positive Displacement Pump, Adjustable Flow 0-100% 200 PSI Neoprene Packing	2,794.45	
43 40 Gas and Liquid Storage ⁽⁴³⁾		
43 42 Pressurized Tanks And Vessels ^(43 40)		
43 42 41 Metallic Specialty Pressure Tanks ^(43 42)		
43 42 41 00-0001 L.P.G. Tanks With Regulator And Safety Controls ^(43 42 41)		
43 42 41 00-0002 EA 250 Gallon Aboveground LP Gas Storage Tank	1,529.92	116.26
43 42 41 00-0003 EA 500 Gallon Aboveground LP Gas Storage Tank	2,815.00	174.38
43 42 41 00-0004 EA 1,000 Gallon Aboveground LP Gas Storage Tank	4,007.08	186.01

END OF SECTION 43

43 Process Gas and Liquid Handling, Purification, and Storage Equipment

43 40 Gas and Liquid Storage

43 42 Pressurized Tanks And Vessels

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**THIS PAGE INTENTIONALLY LEFT BLANK**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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50 Custom Standards And Assemblies

50 89 CALTRANS Custom Standards And Assemblies ⁽⁵⁰⁾

50 89 80 CALTRANS Construction Performance Requirements ^(50 89)

Note: Refer to www.dot.ca.gov for CALTRANS Standard Plans and Specifications

50 89 81 CALTRANS DIVISION I - GENERAL PROVISIONS ^(50 89 80)

50 89 81 01 PAYMENT ^(50 89 81)

Note: Includes equipment mobilization, hauling over 25 miles, overtime, specialty labor, specialty equipment, reimbursables and permits per CALTRANS Standard. See CSI section 01 22 16 00-0003 for Reimbursable fees and permits, 01 22 20 00-0000 for specialty labor, 01 22 23 00-0000 for specialty equipment, 01 71 13 00-0000 for equipment mobilization, 01 74 19 00-0050 for hauling >25 miles.

50 89 81 01-0001	EA	CALTRANS 999990 MOBILIZATION.....	0.00
Note: (One Time Per Job) See CSI section 01 71 13 00-0000 for mobilization of equipment.			

50 89 82 CALTRANS DIVISION II - GENERAL CONSTRUCTION ^(50 89 80)

50 89 82 12 TEMPORARY TRAFFIC CONTROL ^(50 89 82)

Note: Includes flagging, apparel, temporary traffic control devices, and equipment for flaggers, must comply with the latest California MUTCD per CALTRANS Standard.

50 89 82 12-0001	EA	CALTRANS 120110 FLASHING ARROW SIGN.....	1,150.25
50 89 82 12-0002	EA	CALTRANS 120116 TYPE II BARRICADE.....	31.98
50 89 82 12-0003	EA	CALTRANS 120119 TRAFFIC CONE.....	9.43
50 89 82 12-0004	EA	CALTRANS 120120 TYPE III BARRICADE.....	61.23
50 89 82 12-0005	EA	CALTRANS 120140 BARRICADE (LEFT IN PLACE).....	54.58
50 89 82 12-0006	SF	CALTRANS 120149 TEMPORARY PAVEMENT MARKING (PAINT).....	2.94
50 89 82 12-0007	LF	CALTRANS 120151 TEMPORARY TRAFFIC STRIPE (TAPE).....	3.93
50 89 82 12-0008	SF	CALTRANS 120152 TEMPORARY PAVEMENT MARKING (TAPE).....	9.49
50 89 82 12-0009	LF	CALTRANS 120159 TEMPORARY TRAFFIC STRIPE (PAINT).....	0.63
50 89 82 12-0010	EA	CALTRANS 120165 CHANNELIZER (SURFACE MOUNTED).....	24.63
50 89 82 12-0011	EA	CALTRANS 120166 CHANNELIZER (SURFACE MOUNTED) (LEFT IN PLACE).....	51.10
50 89 82 12-0012	EA	CALTRANS 120182 PORTABLE DELINEATOR.....	18.09
50 89 82 12-0013	EA	CALTRANS 120198 PLASTIC TRAFFIC DRUMS.....	27.83
50 89 82 12-0014	EA	CALTRANS 120200 FLASHING BEACON (PORTABLE).....	32.63
50 89 82 12-0015	EA	CALTRANS 120300 TEMPORARY PAVEMENT MARKER.....	2.81
50 89 82 12-0016	MO	CALTRANS 128651 PORTABLE CHANGEABLE MESSAGE SIGN (EA).....	2,012.68
50 89 82 12-0017	MO	CALTRANS 129100 TEMPORARY CRASH CUSHION MODULE.....	491.03

50 89 82 13 WATER POLLUTION CONTROL ^(50 89 82)

Note: Includes preventing, controlling, and abating water pollution within waters of the State per CALTRANS Standard.

50 89 82 13-0001	EA	CALTRANS 130310 RAIN EVENT ACTION PLAN.....	546.48
50 89 82 13-0002	EA	CALTRANS 130320 STORM WATER SAMPLING AND ANALYSIS DAY.....	428.20
50 89 82 13-0003	EA	CALTRANS 130330 STORM WATER ANNUAL REPORT.....	2,185.92
50 89 82 13-0004	SY	CALTRANS 130500 TEMPORARY EROSION CONTROL BLANKET.....	3.45
50 89 82 13-0005	EA	CALTRANS 130505 MOVE-IN/MOVE-OUT (TEMPORARY EROSION CONTROL).....	776.73
50 89 82 13-0006	SY	CALTRANS 130510 TEMPORARY MULCH.....	4.38
50 89 82 13-0007	SY	CALTRANS 130520 TEMPORARY HYDRAULIC MULCH.....	0.87
50 89 82 13-0008	SY	CALTRANS 130530 TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX).....	0.35
50 89 82 13-0009	SY	CALTRANS 130535 TEMPORARY HYDRAULIC MULCH (CEMENTITIOUS BINDER).....	12.10
50 89 82 13-0010	SY	CALTRANS 130540 TEMPORARY TACKED STRAW.....	0.28
50 89 82 13-0011	SY	CALTRANS 130550 TEMPORARY HYDROSEED.....	0.87
50 89 82 13-0012	SY	CALTRANS 130560 TEMPORARY SOIL BINDER.....	0.45
50 89 82 13-0013	SY	CALTRANS 130570 TEMPORARY COVER.....	6.33
50 89 82 13-0014	EA	CALTRANS 130620 TEMPORARY DRAINAGE INLET PROTECTION.....	76.89
50 89 82 13-0015	LF	CALTRANS 130640 TEMPORARY FIBER ROLL.....	8.74
Note: 12" Diameter, Type 1			
For >1,000 To 10,000, Deduct			-0.85
For >10,000, Deduct			-1.45
For 9" Diameter, Deduct			-1.02
50 89 82 13-0016	LF	CALTRANS 130640 TEMPORARY FIBER ROLL.....	7.19
Note: 12" Diameter, Type 2			
For >1,000 To 10,000, Deduct			-0.62
For >10,000, Deduct			-1.06
For 9" Diameter, Deduct			-1.02
50 89 82 13-0017	LF	CALTRANS 130650 TEMPORARY GRAVEL BAG BERM.....	10.61
50 89 82 13-0018	LF	CALTRANS 130670 TEMPORARY REINFORCED SILT FENCE.....	8.61
50 89 82 13-0019	LF	CALTRANS 130680 TEMPORARY SILT FENCE.....	2.35
50 89 82 13-0020	LF	CALTRANS 130690 TEMPORARY STRAW BALE BARRIER.....	4.36
50 89 82 13-0021	EA	CALTRANS 130710 TEMPORARY CONSTRUCTION ENTRANCE.....	1,737.79
50 89 82 13-0022	SY	CALTRANS 130720 TEMPORARY CONSTRUCTION ROADWAY.....	41.22
50 89 82 13-0023	EA	CALTRANS 131103 WATER QUALITY SAMPLING AND ANALYSIS DAY.....	428.20
50 89 82 13-0024	EA	CALTRANS 131104 WATER QUALITY MONITORING REPORT.....	751.41
50 89 82 13-0025	EA	CALTRANS 131105 WATER QUALITY ANNUAL REPORT.....	804.54

50 89 83 CALTRANS DIVISION III - GRADING ^(50 89 80)



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

50 89 83 17**GENERAL** (50 89 83)

Note: Includes clear all construction areas above original ground of (1) all vegetation such as trees, logs, upturned stumps, roots of downed trees, brush, grass, and weeds and (2) other objectionable material including concrete, masonry, and debris. Grub all construction areas to a depth necessary to remove all trees, existing stumps, roots, buried logs, and other objectionable material, except embankment areas where the grading plane is 2 feet or more above original ground per CALTRAN Standard.

50 89 83 17-0001	ACR CALTRANS 170105 CLEARING AND GRUBBING (ACRE).....	11,645.03
	Note: Includes grub and removal of stump. In embankment areas where the grading plane is 2 feet or more above original ground, cut off trees, stumps, and roots not more than 1 foot above original ground, except remove trees, stumps, and roots completely where work includes any of the following: 1. Structure construction, 2. Pile construction, 3. Subdrainage trench excavation, 4. Removal of unsuitable material, 5. Cutting into slopes of original hillsides, old or new fill	

50 89 83 19**EARTHWORK** (50 89 83)

Note: Includes earthwork activities includes removal of unsuitable material or a buried man-made object if the removal is described. Excavate and dispose of unsuitable material encountered below the natural ground surface in embankment areas or below the grading plane in excavation areas. Backfill the space resulting from excavating unsuitable material with material suitable for the planned use. Place and compact suitable material. Remove and dispose of a buried man-made object encountered in an excavation as part of the excavation work. Roadway excavation consists of all excavation involved in the grading and construction of the roadway except structure excavation per CALTRAN Standard.

50 89 83 19-0001	CY CALTRANS 190101 ROADWAY EXCAVATION.....	18.50
	For >1,000, Deduct	-2.78
50 89 83 19-0002	CY CALTRANS 190161 ROCK EXCAVATION.....	33.70
50 89 83 19-0003	TON CALTRANS 190185 SHOULDER BACKING.....	113.88
50 89 83 19-0004	CY CALTRANS 192502 SAND BEDDING.....	40.18
	For Up To 8, Add	8.04
	For >8 To 16, Add	4.02
	For >48 To 64, Deduct	-2.74
	For >64 To 96, Deduct	-4.75
	For >96, Deduct	-6.76
50 89 83 19-0005	CY CALTRANS 193118 CONCRETE BACKFILL.....	247.72
50 89 83 19-0006	CY CALTRANS 198010 IMPORTED BORROW (CY).....	79.34
50 89 83 19-0007	TON CALTRANS 198011 IMPORTED BORROW (TON).....	111.09
50 89 83 19-0008	SY CALTRANS 198206 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS A1.....	3.28
	For Up To 50, Add	0.70
	For >50 To 150, Add	0.52
	For >150 To 250, Add	0.34
	For >250 To 500, Add	0.17
50 89 83 19-0009	SY CALTRANS 198207 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS A2.....	1.37
	For Up To 50, Add	0.31
	For >50 To 150, Add	0.23
	For >150 To 250, Add	0.15
	For >250 To 500, Add	0.07
50 89 83 19-0010	SY CALTRANS 198208 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B1.....	3.81
	For Up To 50, Add	0.81
	For >50 To 150, Add	0.60
	For >150 To 250, Add	0.40
	For >250 To 500, Add	0.20
50 89 83 19-0011	SY CALTRANS 198209 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B2.....	1.87
	For Up To 50, Add	0.41
	For >50 To 150, Add	0.30
	For >150 To 250, Add	0.20
	For >250 To 500, Add	0.10
50 89 83 19-0012	SY CALTRANS 198210 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B3.....	1.77
	For Up To 50, Add	0.40
	For >50 To 150, Add	0.30
	For >150 To 250, Add	0.19
	For >250 To 500, Add	0.10
50 89 83 19-0013	SY CALTRANS 198215 SUBGRADE ENHANCEMENT GEOGRID.....	2.99
	For Up To 50, Add	0.69
	For >50 To 150, Add	0.51
	For >150 To 250, Add	0.33
	For >250 To 500, Add	0.17
50 89 83 19-0014	SY CALTRANS 198250 GEOSYNTHETIC REINFORCEMENT.....	1.99

50 89 83 20**LANDSCAPE** (50 89 83)

Note: Includes materials and placement per CALTRAN Standard. Underground pipe includes pipe, fittings, trenching, backfill and compaction. Aboveground pipe include pipe, fittings and supports.

50 89 83 20-0001	SF CALTRANS 200114 ROCK BLANKET.....	13.09
	For >5,000, Deduct	-1.75
50 89 83 20-0002	SY CALTRANS 200122 WEED GERMINATION.....	0.56
50 89 83 20-0003	SY CALTRANS 200123 CULTIVATION.....	2.54
50 89 83 20-0004	LB CALTRANS 202004 IRON SULFATE (LB).....	6.37
50 89 83 20-0005	CY CALTRANS 202006 SOIL AMENDMENT.....	92.04
50 89 83 20-0006	EA CALTRANS 202026 RELOCATE BACKFLOW PREVENTER ASSEMBLY.....	972.78
50 89 83 20-0007	EA CALTRANS 202027 RELOCATE WATER METER.....	972.78
50 89 83 20-0008	EA CALTRANS 202028 RELOCATE IRRIGATION CONTROLLER.....	1,206.53
50 89 83 20-0009	LB CALTRANS 202037 ORGANIC FERTILIZER.....	6.46
50 89 83 20-0010	EA CALTRANS 202038 PACKET FERTILIZER.....	0.96
50 89 83 20-0011	LB CALTRANS 202039 SLOW-RELEASE FERTILIZER.....	3.14
50 89 83 20-0012	EA CALTRANS 204003 PLANT (GROUP C) (6' To 8' B&B).....	387.84
50 89 83 20-0013	EA CALTRANS 204003 PLANT (GROUP C) (10' To 14' B&B).....	725.58



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 83 20-0014 EA CALTRANS 204003 PLANT (GROUP C) (16' To 20' B&B)	1,131.14	
50 89 83 20-0015 EA CALTRANS 204003 PLANT (GROUP C) (22' To 26' B&B)	1,771.00	
50 89 83 20-0016 EA CALTRANS 204005 PLANT (GROUP E)	2.40	
For >100 To 1,000, Deduct	-0.14	
For >1,000 To 5,000, Deduct	-0.23	
For >5,000, Deduct	-0.29	
50 89 83 20-0017 EA CALTRANS 204006 PLANT (GROUP F)	1.85	
For >100 To 1,000, Deduct	-0.12	
For >1,000 To 5,000, Deduct	-0.20	
For >5,000, Deduct	-0.24	
50 89 83 20-0018 EA CALTRANS 204008 PLANT (GROUP H)	5.65	
For >10 To 100, Deduct	-0.57	
For >100 To 1,000, Deduct	-1.27	
For >1,000 To 10,000, Deduct	-1.98	
For >10,000 To 25,000, Deduct	-2.83	
For >25,000, Deduct	-3.96	
50 89 83 20-0019 EA CALTRANS 204009 PLANT (GROUP I)	19.87	
For >100 To 1,000, Deduct	-1.37	
For >1,000 To 5,000, Deduct	-2.24	
For >5,000, Deduct	-2.74	
50 89 83 20-0020 EA CALTRANS 204011 PLANT (GROUP K)	535.11	
50 89 83 20-0021 EA CALTRANS 204013 PLANT (GROUP M)	6.12	
For >100 To 1,000, Deduct	-0.36	
For >1,000 To 5,000, Deduct	-0.57	
For >5,000, Deduct	-0.73	
50 89 83 20-0022 EA CALTRANS 204015 PLANT (GROUP S)	7.10	
For >100 To 1,000, Deduct	-0.46	
For >1,000 To 5,000, Deduct	-0.73	
For >5,000, Deduct	-0.91	
50 89 83 20-0023 EA CALTRANS 204020 PLANT (GROUP P)	5.75	
For >100 To 1,000, Deduct	-0.33	
For >1,000 To 5,000, Deduct	-0.53	
For >5,000, Deduct	-0.67	
50 89 83 20-0024 EA CALTRANS 204030 TRANSPLANT TREE	3,427.93	
For >5 To 10, Deduct	-171.40	
For >10 To 20, Deduct	-342.79	
For >20, Deduct	-514.19	
50 89 83 20-0025 EA CALTRANS 204035 PLANT (GROUP A)	26.59	
50 89 83 20-0026 EA CALTRANS 204036 PLANT (GROUP B)	67.37	
50 89 83 20-0027 EA CALTRANS 204038 PLANT (GROUP U)	175.00	
50 89 83 20-0028 SY CALTRANS 204045 SOD	19.67	
50 89 83 20-0029 SF CALTRANS 205033 GRAVEL MULCH	1.00	
50 89 83 20-0030 SF CALTRANS 205034 DECOMPOSED GRANITE	1.51	
50 89 83 20-0031 CY CALTRANS 205035 WOOD MULCH	100.54	
For >5 To 20, Deduct	-8.16	
For >20 To 50, Deduct	-12.23	
For >50, Deduct	-17.26	
50 89 83 20-0032 EA CALTRANS 205051 FOLIAGE PROTECTOR	32.92	
50 89 83 20-0033 EA CALTRANS 205052 ROOT PROTECTOR	23.74	
50 89 83 20-0034 LF CALTRANS 205062 ROOT BARRIER	9.77	
50 89 83 20-0035 LF CALTRANS 206005 EDGING	13.20	
50 89 83 20-0036 EA CALTRANS 206561 3/4" REMOTE CONTROL VALVE	344.93	
50 89 83 20-0037 EA CALTRANS 206562 1" REMOTE CONTROL VALVE	524.11	
50 89 83 20-0038 EA CALTRANS 206563 1 1/4" REMOTE CONTROL VALVE	572.57	
50 89 83 20-0039 EA CALTRANS 206564 1 1/2" REMOTE CONTROL VALVE	625.18	
50 89 83 20-0040 EA CALTRANS 206565 2" REMOTE CONTROL VALVE	694.46	
50 89 83 20-0041 EA CALTRANS 206566 2 1/2" REMOTE CONTROL VALVE	1,075.59	
50 89 83 20-0042 EA CALTRANS 206567 3" REMOTE CONTROL VALVE	1,456.72	
50 89 83 20-0043 EA CALTRANS 206571 REMOTE CONTROL VALVE WITH PRESSURE REGULATOR	770.41	
50 89 83 20-0044 EA CALTRANS 206630 3/4" WYE STRAINER ASSEMBLY	302.63	
50 89 83 20-0045 EA CALTRANS 206631 1" WYE STRAINER ASSEMBLY	329.48	
50 89 83 20-0046 EA CALTRANS 206632 1 1/4" WYE STRAINER ASSEMBLY	368.96	
50 89 83 20-0047 EA CALTRANS 206633 1 1/2" WYE STRAINER ASSEMBLY	392.93	
50 89 83 20-0048 EA CALTRANS 206634 2" WYE STRAINER ASSEMBLY	472.31	
50 89 83 20-0049 EA CALTRANS 206635 2-1/2" WYE STRAINER ASSEMBLY	728.34	
50 89 83 20-0050 EA CALTRANS 206636 3" WYE STRAINER ASSEMBLY	780.00	
50 89 83 20-0051 EA CALTRANS 206747 4 STATION IRRIGATION CONTROLLER (WALL MOUNTED)	654.44	
50 89 83 20-0052 EA CALTRANS 206749 8 STATION IRRIGATION CONTROLLER (WALL MOUNTED)	933.11	
50 89 83 20-0053 EA CALTRANS 206751 12 STATION IRRIGATION CONTROLLER (WALL MOUNTED)	1,272.14	
50 89 83 20-0054 EA CALTRANS 206757 16-18 STATION IRRIGATION CONTROLLER (WALL MOUNTED)	1,642.33	
50 89 83 20-0055 EA CALTRANS 206758 24-32 STATION IRRIGATION CONTROLLER (WALL MOUNTED)	2,153.54	
50 89 83 20-0056 EA CALTRANS 206759 30-42 STATION IRRIGATION CONTROLLER (WALL MOUNTED)	2,662.80	
50 89 83 20-0057 LF CALTRANS 207050 1/2" COPPER PIPE (SUPPLY LINE)	10.04	
For >1,000, Deduct	-0.50	
50 89 83 20-0058 LF CALTRANS 207051 3/4" COPPER PIPE (SUPPLY LINE)	13.62	
For >1,000, Deduct	-0.68	
50 89 83 20-0059 LF CALTRANS 207052 1" COPPER PIPE (SUPPLY LINE)	17.15	
For >1,000, Deduct	-0.86	
50 89 83 20-0060 LF CALTRANS 207053 1 1/4" COPPER PIPE (SUPPLY LINE)	22.07	
For >1,000, Deduct	-1.10	
50 89 83 20-0061 LF CALTRANS 207054 1 1/2" COPPER PIPE (SUPPLY LINE)	26.84	
For >1,000, Deduct	-1.34	
50 89 83 20-0062 LF CALTRANS 207055 2" COPPER PIPE (SUPPLY LINE)	37.02	
For >1,000, Deduct	-1.85	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 83 20-0063 LF CALTRANS 207056 3" COPPER PIPE (SUPPLY LINE).....	71.58	
<i>For >1,000, Deduct</i>	-3.58	
50 89 83 20-0064 LF CALTRANS 207057 4" COPPER PIPE (SUPPLY LINE).....	115.76	
<i>For >1,000, Deduct</i>	-5.79	
50 89 83 20-0065 LF CALTRANS 207058 2 1/2" COPPER PIPE (SUPPLY LINE).....	49.60	
<i>For >1,000, Deduct</i>	-2.48	
50 89 83 20-0066 LF CALTRANS 208001 1/2" GALVANIZED PIPE (SUPPLY LINE).....	10.97	
<i>For >1,000, Deduct</i>	-0.55	
50 89 83 20-0067 LF CALTRANS 208002 3/4" GALVANIZED PIPE (SUPPLY LINE).....	12.73	
<i>For >1,000, Deduct</i>	-0.64	
50 89 83 20-0068 LF CALTRANS 208003 1" GALVANIZED PIPE (SUPPLY LINE).....	14.98	
<i>For >1,000, Deduct</i>	-0.75	
50 89 83 20-0069 LF CALTRANS 208004 1 1/4" GALVANIZED PIPE (SUPPLY LINE).....	17.74	
<i>For >1,000, Deduct</i>	-0.89	
50 89 83 20-0070 LF CALTRANS 208005 1 1/2" GALVANIZED PIPE (SUPPLY LINE).....	20.66	
<i>For >1,000, Deduct</i>	-1.03	
50 89 83 20-0071 LF CALTRANS 208006 2" GALVANIZED PIPE (SUPPLY LINE).....	26.15	
<i>For >1,000, Deduct</i>	-1.31	
50 89 83 20-0072 LF CALTRANS 208007 2 1/2" GALVANIZED PIPE (SUPPLY LINE).....	40.13	
<i>For >1,000, Deduct</i>	-2.01	
50 89 83 20-0073 LF CALTRANS 208008 3" GALVANIZED PIPE (SUPPLY LINE).....	55.77	
<i>For >1,000, Deduct</i>	-2.79	
50 89 83 20-0074 LF CALTRANS 208009 4" GALVANIZED PIPE (SUPPLY LINE).....	85.24	
<i>For >1,000, Deduct</i>	-4.26	
50 89 83 20-0075 LF CALTRANS 208026 2" SUPPLY LINE (BRIDGE).....	47.46	
50 89 83 20-0076 LF CALTRANS 208027 2 1/2" SUPPLY LINE (BRIDGE).....	60.04	
50 89 83 20-0077 LF CALTRANS 208028 3" SUPPLY LINE (BRIDGE).....	74.44	
50 89 83 20-0078 LF CALTRANS 208029 4" SUPPLY LINE (BRIDGE).....	110.35	
50 89 83 20-0079 LF CALTRANS 208030 6" SUPPLY LINE (BRIDGE).....	288.65	
50 89 83 20-0080 LF CALTRANS 208033 8" SUPPLY LINE (BRIDGE).....	652.22	
50 89 83 20-0081 LF CALTRANS 208042 2" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	31.25	
50 89 83 20-0082 LF CALTRANS 208043 2 1/2" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	45.79	
50 89 83 20-0083 LF CALTRANS 208044 3" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	56.25	
50 89 83 20-0084 LF CALTRANS 208046 4" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	87.14	
50 89 83 20-0085 LF CALTRANS 208220 1/2" DRIP IRRIGATION TUBING.....	1.95	
50 89 83 20-0086 LF CALTRANS 208221 3/4" DRIP IRRIGATION TUBING.....	2.05	
50 89 83 20-0087 EA CALTRANS 208301 IRRIGATION CONTROLLER ENCLOSURE CABINET.....	2,879.75	
50 89 83 20-0088 EA CALTRANS 208422 3/4" BACKFLOW PREVENTER ASSEMBLY.....	1,410.20	
50 89 83 20-0089 EA CALTRANS 208423 1" BACKFLOW PREVENTER ASSEMBLY.....	1,497.25	
50 89 83 20-0090 EA CALTRANS 208424 1 1/4" BACKFLOW PREVENTER ASSEMBLY.....	1,961.80	
50 89 83 20-0091 EA CALTRANS 208425 1 1/2" BACKFLOW PREVENTER ASSEMBLY.....	2,145.23	
50 89 83 20-0092 EA CALTRANS 208426 2" BACKFLOW PREVENTER ASSEMBLY.....	2,855.99	
50 89 83 20-0093 EA CALTRANS 208427 2 1/2" BACKFLOW PREVENTER ASSEMBLY.....	6,269.43	
50 89 83 20-0094 EA CALTRANS 208428 3" BACKFLOW PREVENTER ASSEMBLY.....	7,260.57	
50 89 83 20-0095 EA CALTRANS 208429 4" BACKFLOW PREVENTER ASSEMBLY.....	7,909.16	
50 89 83 20-0096 EA CALTRANS 208440 BACKFLOW PREVENTER ENCLOSURE.....	1,918.62	
50 89 83 20-0097 EA CALTRANS 208442 FLOW SENSOR.....	1,198.48	
50 89 83 20-0098 EA CALTRANS 208447 POP-UP SPRINKLER ASSEMBLY (GEAR DRIVEN).....	72.27	11.67
50 89 83 20-0099 EA CALTRANS 208448 RISER SPRINKLER ASSEMBLY.....	45.94	11.67
50 89 83 20-0100 EA CALTRANS 208449 POP-UP SPRINKLER ASSEMBLY.....	45.18	
50 89 83 20-0101 EA CALTRANS 208562 CAM COUPLER ASSEMBLY.....	390.88	
50 89 83 20-0102 EA CALTRANS 208569 1/2" GATE VALVE.....	272.02	
50 89 83 20-0103 EA CALTRANS 208570 3/4" GATE VALVE.....	289.51	
50 89 83 20-0104 EA CALTRANS 208572 1" GATE VALVE.....	317.53	
50 89 83 20-0105 EA CALTRANS 208573 1 1/4" GATE VALVE.....	351.41	
50 89 83 20-0106 EA CALTRANS 208574 1 1/2" GATE VALVE.....	375.91	
50 89 83 20-0107 EA CALTRANS 208575 2" GATE VALVE.....	430.00	
50 89 83 20-0108 EA CALTRANS 208576 2 1/2" GATE VALVE.....	710.06	
50 89 83 20-0109 EA CALTRANS 208588 3" GATE VALVE.....	772.14	
50 89 83 20-0110 EA CALTRANS 208589 4" GATE VALVE.....	1,033.99	
50 89 83 20-0111 EA CALTRANS 208590 6" GATE VALVE.....	1,390.13	
50 89 83 20-0112 EA CALTRANS 208591 8" GATE VALVE.....	2,009.04	
50 89 83 20-0113 LF CALTRANS 208593 1/2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	5.55	
<i>For >1,000, Deduct</i>	-0.28	
<i>For Schedule 80, Add</i>	0.13	
50 89 83 20-0114 LF CALTRANS 208594 3/4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	5.68	
<i>For >1,000, Deduct</i>	-0.28	
<i>For Schedule 80, Add</i>	0.16	
50 89 83 20-0115 LF CALTRANS 208595 1" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	6.35	
<i>For >1,000, Deduct</i>	-0.32	
<i>For Schedule 80, Add</i>	0.26	
50 89 83 20-0116 LF CALTRANS 208596 1 1/4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	7.50	
<i>For >1,000, Deduct</i>	-0.38	
<i>For Schedule 80, Add</i>	0.39	
50 89 83 20-0117 LF CALTRANS 208597 1 1/2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	7.66	
<i>For >1,000, Deduct</i>	-0.38	
<i>For Schedule 80, Add</i>	0.51	
50 89 83 20-0118 LF CALTRANS 208598 2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	9.00	
<i>For >1,000, Deduct</i>	-0.45	
<i>For Schedule 80, Add</i>	0.87	
50 89 83 20-0119 LF CALTRANS 208599 2 1/2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	10.77	
<i>For >1,000, Deduct</i>	-0.54	
<i>For Schedule 80, Add</i>	1.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 83 20-0120 LF CALTRANS 208600 3" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	13.94	
<i>For >1,000, Deduct</i>	-0.70	
<i>For Schedule 80, Add</i>	1.57	
50 89 83 20-0121 LF CALTRANS 208601 4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	17.43	
<i>For >1,000, Deduct</i>	-0.87	
<i>For Schedule 80, Add</i>	2.41	
50 89 83 20-0122 LF CALTRANS 208602 6" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	23.63	
<i>For >1,000, Deduct</i>	-1.18	
<i>For Schedule 80, Add</i>	5.36	
50 89 83 20-0123 LF CALTRANS 208603 8" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	28.19	
<i>For >1,000, Deduct</i>	-1.41	
<i>For Schedule 80, Add</i>	8.22	
50 89 83 20-0124 LF CALTRANS 208604 10" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	55.74	
<i>For >1,000, Deduct</i>	-2.79	
<i>For Schedule 80, Add</i>	25.56	
50 89 83 20-0125 LF CALTRANS 208605 2" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	9.45	
<i>For >1,000, Deduct</i>	-0.47	
50 89 83 20-0126 LF CALTRANS 208606 2 1/2" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	11.49	
<i>For >1,000, Deduct</i>	-0.57	
50 89 83 20-0127 LF CALTRANS 208607 3" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	13.94	
<i>For >1,000, Deduct</i>	-0.70	
50 89 83 20-0128 LF CALTRANS 208608 4" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	17.43	
<i>For >1,000, Deduct</i>	-0.87	
50 89 83 20-0129 LF CALTRANS 208609 6" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	23.95	
<i>For >1,000, Deduct</i>	-1.20	
50 89 83 20-0130 EA CALTRANS 208631 3/4" PRESSURE RELIEF VALVE	816.61	
50 89 83 20-0131 EA CALTRANS 208632 1 1/2" PRESSURE RELIEF VALVE	1,209.55	
50 89 83 20-0132 EA CALTRANS 208633 1" PRESSURE RELIEF VALVE	969.45	
50 89 83 20-0133 EA CALTRANS 208634 2" PRESSURE RELIEF VALVE	1,375.91	
50 89 83 20-0134 EA CALTRANS 208640 PRESSURE REGULATING VALVE (3/4")	264.55	
50 89 83 20-0135 EA CALTRANS 208640 PRESSURE REGULATING VALVE (1")	349.16	
50 89 83 20-0136 EA CALTRANS 208640 PRESSURE REGULATING VALVE (1-1/4")	600.96	
50 89 83 20-0137 EA CALTRANS 208640 PRESSURE REGULATING VALVE (1-1/2")	816.36	
50 89 83 20-0138 EA CALTRANS 208640 PRESSURE REGULATING VALVE (2")	1,169.35	
50 89 83 20-0139 EA CALTRANS 208649 QUICK COUPLING VALVE	451.10	
50 89 83 20-0140 EA CALTRANS 208670 1/2" CHECK VALVE	285.93	
50 89 83 20-0141 EA CALTRANS 208670 3/4" CHECK VALVE	306.93	
50 89 83 20-0142 EA CALTRANS 208670 1" CHECK VALVE	335.65	
50 89 83 20-0143 EA CALTRANS 208670 1 1/4" CHECK VALVE	379.88	
50 89 83 20-0144 EA CALTRANS 208670 1 1/2" CHECK VALVE	426.14	
50 89 83 20-0145 EA CALTRANS 208670 2" CHECK VALVE	487.06	
50 89 83 20-0146 EA CALTRANS 208670 2 1/2" CHECK VALVE	770.86	
50 89 83 20-0147 EA CALTRANS 208670 3" CHECK VALVE	802.43	
50 89 83 20-0148 EA CALTRANS 208670 4" CHECK VALVE	1,158.08	
50 89 83 20-0149 EA CALTRANS 208670 6" CHECK VALVE	1,651.27	
50 89 83 20-0150 EA CALTRANS 208670 8" CHECK VALVE	3,314.24	
50 89 83 20-0151 EA CALTRANS 208683 1/2" BALL VALVE	252.42	
50 89 83 20-0152 EA CALTRANS 208683 3/4" BALL VALVE	276.20	
50 89 83 20-0153 EA CALTRANS 208683 1" BALL VALVE	285.17	
50 89 83 20-0154 EA CALTRANS 208683 1 1/4" BALL VALVE	315.20	
50 89 83 20-0155 EA CALTRANS 208683 1 1/2" BALL VALVE	330.92	
50 89 83 20-0156 EA CALTRANS 208683 2" BALL VALVE	363.05	
50 89 83 20-0157 EA CALTRANS 208683 2 1/2" BALL VALVE	407.50	
50 89 83 20-0158 LF CALTRANS 208690 PVC PIPE CONDUIT (SLEEVE)	28.19	
<i>For >1,000, Deduct</i>	-1.41	
50 89 83 20-0159 LF CALTRANS 208702 8" ABS COMPOSITE PIPE CONDUIT	25.19	
<i>For >1,000, Deduct</i>	-1.26	
50 89 83 20-0160 LF CALTRANS 208703 10" ABS COMPOSITE PIPE CONDUIT	32.12	
<i>For >1,000, Deduct</i>	-1.61	
50 89 83 20-0161 LF CALTRANS 208738 8" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	20.31	
50 89 83 20-0162 LF CALTRANS 208739 10" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	25.70	
50 89 83 20-0163 LF CALTRANS 208740 12" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	29.97	
50 89 83 20-0164 LF CALTRANS 208756 6" CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	21.74	
50 89 83 20-0165 LF CALTRANS 208758 8" CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	26.90	
50 89 83 20-0166 LF CALTRANS 208760 10" CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	33.26	
50 89 83 20-0167 LF CALTRANS 208762 12" CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	37.39	
50 89 83 20-0168 LF CALTRANS 208813 1 1/4" WELDED STEEL PIPE CONDUIT	19.52	
<i>For >1,000, Deduct</i>	-0.98	
50 89 83 20-0169 LF CALTRANS 208814 1 1/2" WELDED STEEL PIPE CONDUIT	22.49	
<i>For >1,000, Deduct</i>	-1.12	
50 89 83 20-0170 LF CALTRANS 208815 2" WELDED STEEL PIPE CONDUIT	25.87	
<i>For >1,000, Deduct</i>	-1.29	
50 89 83 20-0171 LF CALTRANS 208816 3" WELDED STEEL PIPE CONDUIT	33.51	
<i>For >1,000, Deduct</i>	-1.68	
50 89 83 20-0172 LF CALTRANS 208817 4" WELDED STEEL PIPE CONDUIT	43.61	
<i>For >1,000, Deduct</i>	-2.18	
50 89 83 20-0173 LF CALTRANS 208818 6" WELDED STEEL PIPE CONDUIT	59.17	
<i>For >1,000, Deduct</i>	-2.96	
50 89 83 20-0174 LF CALTRANS 208819 8" WELDED STEEL PIPE CONDUIT	83.17	
<i>For >1,000, Deduct</i>	-4.16	
50 89 83 20-0175 LF CALTRANS 208820 10" WELDED STEEL PIPE CONDUIT	106.81	
<i>For >1,000, Deduct</i>	-5.34	

50 Custom Standards And Assemblies
50 89 CALTRANS Custom Standards And Assemblies
50 89 80 CALTRANS Construction Performance Requirements



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

50 89 83 20-0176 LF CALTRANS 208821 12" WELDED STEEL PIPE CONDUIT133.91
For >1,000, Deduct -6.70

50 89 83 21 EROSION CONTROL (50 89 83)

Note: Includes applying permanent erosion control measures to the soil surface per CALTRAN Standard.

50 89 83 21-0001 EA CALTRANS 210010 MOVE-IN/MOVE-OUT (EROSION CONTROL)310.69
 50 89 83 21-0002 CY CALTRANS 210110 IMPORTED TOPSOIL (CY)79.34
 50 89 83 21-0003 TON CALTRANS 210111 IMPORTED TOPSOIL (TON)99.18
 50 89 83 21-0004 SF CALTRANS 210212 DRY SEED (SQFT)0.10
 50 89 83 21-0005 ACR CALTRANS 210213 DRY SEED (ACRE)4,065.52
For >5 To 20, Deduct -285.38
For >20 To 45, Deduct -551.23
For >45, Deduct -899.19
 50 89 83 21-0006 SY CALTRANS 210222 DRILL SEED (SQYD)0.34
 50 89 83 21-0007 ACR CALTRANS 210223 DRILL SEED (ACRE)1,669.56
 50 89 83 21-0008 SF CALTRANS 210252 BONDED FIBER MATRIX (SQFT)0.08
 50 89 83 21-0009 ACR CALTRANS 210253 BONDED FIBER MATRIX (ACRE)3,509.59
 50 89 83 21-0010 SF CALTRANS 210260 ROLLED EROSION CONTROL PRODUCT (JUTE MESH)0.23
 50 89 83 21-0011 SF CALTRANS 210270 ROLLED EROSION CONTROL PRODUCT (NETTING)1.01
 50 89 83 21-0012 SF CALTRANS 210280 ROLLED EROSION CONTROL PRODUCT (BLANKET)0.33
 50 89 83 21-0013 SF CALTRANS 210290 ROLLED EROSION CONTROL PRODUCT (TRM)1.18
 50 89 83 21-0014 SF CALTRANS 210300 HYDROMULCH0.10
 50 89 83 21-0015 LF CALTRANS 210350 FIBER ROLL8.74
Note: 12" Diameter, Type 1
For >1,000 To 10,000, Deduct -0.85
For >10,000, Deduct -1.45
For 9" Diameter, Deduct -1.02
 50 89 83 21-0016 LF CALTRANS 210350 FIBER ROLL7.19
Note: 12" Diameter, Type 2
For >1,000 To 10,000, Deduct -0.62
For >10,000, Deduct -1.06
For 9" Diameter, Deduct -1.02
 50 89 83 21-0017 LF CALTRANS 210360 COMPOST SOCK8.52
 50 89 83 21-0018 SF CALTRANS 210420 STRAW0.19
 50 89 83 21-0019 SF CALTRANS 210430 HYDROSEED0.10
 50 89 83 21-0020 CY CALTRANS 210610 COMPOST (CY)76.66
For >100 To 1,000, Deduct -13.22
For >1,000, Deduct -20.18
 50 89 83 21-0021 SF CALTRANS 210630 INCORPORATE MATERIALS0.05

50 89 84 CALTRANS DIVISION IV - SUBBASES AND BASES (50 89 80)

50 89 84 24 STABILIZED SOILS (50 89 84)

50 89 84 24-0001 SY CALTRANS 240105 LIME STABILIZED SOIL12.05
For 4% Lime Instead Of 5%, Deduct -0.37
For 6% Lime Instead Of 5%, Add 0.37
 50 89 84 24-0002 SY CALTRANS 240300 CEMENT STABILIZED SOIL11.77

50 89 84 25 AGGREGATE SUBBASES (50 89 84)

Note: Includes aggregate, placing aggregate subbase, water, geosynthetic materials, spreading, compacting per CALTRAN Standard.

50 89 84 25-0001 CY CALTRANS 250101 CLASS 1 AGGREGATE SUBBASE108.11
 50 89 84 25-0002 CY CALTRANS 250201 CLASS 2 AGGREGATE SUBBASE79.91
 50 89 84 25-0003 CY CALTRANS 250301 CLASS 3 AGGREGATE SUBBASE77.31
 50 89 84 25-0004 CY CALTRANS 250401 CLASS 4 AGGREGATE SUBBASE77.28
 50 89 84 25-0005 CY CALTRANS 250501 CLASS 5 AGGREGATE SUBBASE77.25

50 89 84 26 AGGREGATE BASES (50 89 84)

Note: Includes aggregate, placing aggregate, water, geosynthetic materials, spreading, compacting per CALTRAN Standard.

50 89 84 26-0001 CY CALTRANS 260200 AGGREGATE BASE107.03
For Recycled Aggregate Base, Deduct -7.31
 50 89 84 26-0002 TON CALTRANS 260202 CLASS 2 AGGREGATE BASE (TON)76.38
 50 89 84 26-0003 CY CALTRANS 260203 CLASS 2 AGGREGATE BASE (CY)79.91
 50 89 84 26-0004 TON CALTRANS 260302 CLASS 3 AGGREGATE BASE (TON)72.84
 50 89 84 26-0005 CY CALTRANS 260303 CLASS 3 AGGREGATE BASE (CY)77.31

50 89 84 27 CEMENT TREATED BASES (50 89 84)

Note: Includes aggregate, Type II portland cement, mixing, placing cement treated base, spreading, compaction, contact joints and curing per CALTRAN Standard.

50 89 84 27-0001 TON CALTRANS 270002 CEMENT TREATED BASE (ROAD-MIXED, CLASS A) (TON)45.40
For Up To 500, Add 13.39
For >500 To 1,000, Add 4.54
For >5,000 To 10,000, Deduct -1.73
For >10,000, Deduct -2.95



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 84 27-0002 CY CALTRANS 270003 CEMENT TREATED BASE (ROAD-MIXED, CLASS A) (CY).....	61.39	
<i>For Up To 500, Add</i>	18.13	
<i>For >500 To 1,000, Add</i>	6.14	
<i>For >5,000 To 10,000, Deduct</i>	-2.33	
<i>For >10,000, Deduct</i>	-3.99	
50 89 84 27-0003 TON CALTRANS 270013 CEMENT TREATED BASE (PLANT-MIXED, CLASS A) (TON).....	37.23	
<i>For Up To 500, Add</i>	10.94	
<i>For >500 To 1,000, Add</i>	3.72	
<i>For >5,000 To 10,000, Deduct</i>	-1.41	
<i>For >10,000, Deduct</i>	-2.42	
50 89 84 27-0004 CY CALTRANS 270014 CEMENT TREATED BASE (PLANT-MIXED, CLASS A) (CY).....	53.20	
<i>For Up To 500, Add</i>	15.68	
<i>For >500 To 1,000, Add</i>	5.32	
<i>For >5,000 To 10,000, Deduct</i>	-2.02	
<i>For >10,000, Deduct</i>	-3.46	
50 89 84 28 CONCRETE BASES <small>(50 89 84)</small>		
<i>Note: Includes constructing concrete bases and placing concrete per CALTRAN Standard.</i>		
50 89 84 28-0001 CY CALTRANS 280001 CONCRETE BASE.....	263.45	
50 89 84 29 TREATED PERMEABLE BASES <small>(50 89 84)</small>		
<i>Note: Includes constructing treated permeable bases, spreading, and placement per CALTRAN Standard.</i>		
50 89 84 29-0001 CY CALTRANS 290301 CEMENT TREATED PERMEABLE BASE.....	768.96	
<i>For >5,000 To 30,000, Deduct</i>	-83.75	
<i>For >30,000 To 100,000, Deduct</i>	-155.12	
<i>For >100,000, Deduct</i>	-192.59	
50 89 84 30 RECLAIMED PAVEMENT <small>(50 89 84)</small>		
<i>Note: Includes constructing reclaimed pavement bases, surface preparation, grading, compaction, finishing and placement per CALTRAN Standard.</i>		
50 89 84 30-0001 SF CALTRANS 300100 FULL DEPTH RECLAMATION-FOAMED ASPHALT.....	20.32	
50 89 84 30-0002 SY CALTRANS 303000 PULVERIZED ROADBED.....	4.56	
50 89 85 CALTRANS DIVISION V - SURFACINGS AND PAVEMENTS <small>(50 89 80)</small>		
50 89 85 37 BITUMINOUS SEALS <small>(50 89 85)</small>		
<i>Note: Includes applying bituminous seals, surface preparation, placement, spreading, finishing and seal coat per CALTRAN Standard.</i>		
50 89 85 37-0001 SY CALTRANS 370001 SAND COVER (SEAL).....	1.04	
50 89 85 37-0002 SY CALTRANS 374002 ASPHALTIC EMULSION (FOG SEAL COAT).....	0.52	
50 89 85 37-0003 LNMI CALTRANS 374207 CRACK TREATMENT.....	5,627.39	
50 89 85 37-0004 SY CALTRANS 374491 NONPOLYMER ASPHALTIC EMULSION (SEAL COAT).....	2.85	
50 89 85 37-0005 SY CALTRANS 374493 POLYMER ASPHALTIC EMULSION (SEAL COAT).....	4.77	
50 89 85 37-0006 TON CALTRANS 375001 SCREENINGS.....	76.41	
<i>For Up To 14, Add</i>	21.09	
<i>For >14 To 35, Add</i>	7.64	
50 89 85 37-0007 SY CALTRANS 375009 TACK COAT (SEAL).....	0.83	
<i>For Up To 150, Add</i>	0.18	
<i>For >150 To 300, Add</i>	0.08	
<i>For >300 To 500, Add</i>	0.04	
<i>For >3,500 To 5,000, Deduct</i>	-0.02	
<i>For >5,000, Deduct</i>	-0.05	
50 89 85 37-0008 SY CALTRANS 377501 SLURRY SEAL (TYPE I).....	1.81	
<i>Note: 1/8" thick.</i>		
<i>For Each 0.5% Of Latex Addition, Add</i>	0.12	
50 89 85 37-0009 SY CALTRANS 377501 SLURRY SEAL (TYPE II).....	2.37	
<i>Note: 1/4" thick, 14 to 18 Lbs/SY.</i>		
<i>For Each 0.5% Of Latex Addition, Add</i>	0.17	
50 89 85 37-0010 SY CALTRANS 377501 SLURRY SEAL (TYPE III).....	2.99	
<i>Note: 3/8" thick, 25 to 30 Lbs/SY.</i>		
<i>For Each 0.5% Of Latex Addition, Add</i>	0.28	
50 89 85 37-0011 SY CALTRANS 378000 MICRO-SURFACING.....	5.50	
50 89 85 39 ASPHALT CONCRETE <small>(50 89 85)</small>		
<i>Note: Includes hot mix asphalt, preparation, placement, finishing, compaction and testing per CALTRAN Standard.</i>		
50 89 85 39-0001 TON CALTRANS 390100 PRIME COAT.....	976.14	
50 89 85 39-0002 TON CALTRANS 390132 HOT MIX ASPHALT (TYPE A).....	38.51	
50 89 85 39-0003 TON CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (UP TO 25).....	266.79	
50 89 85 39-0004 TON CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (>25 - 100).....	233.97	
50 89 85 39-0005 TON CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (>100 - 250).....	200.92	
50 89 85 39-0006 TON CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (>250).....	170.65	
50 89 85 39-0007 TON CALTRANS 390136 MINOR HOT MIX ASPHALT (UP TO 25).....	273.97	
50 89 85 39-0008 TON CALTRANS 390137 RUBBERIZED HOT MIX ASPHALT (GAP GRADED).....	168.11	
<i>Note: Includes placement, rolling, finishing and sweeping.</i>		

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 85 39-0009	SY		CALTRANS 393004 GEOSYNTHETIC PAVEMENT INTERLAYER (PAVING FABRIC).....1.16 Note: 4.1 Oz/SY, 100# 1-Inch Grab Tensile, Nonwoven Polypropylene		
			For Up To 50, Add	0.27	
			For >50 To 150, Add	0.20	
			For >150 To 250, Add	0.13	
			For >250 To 500, Add	0.06	
50 89 85 39-0010	LF		CALTRANS 394072 PLACE HOT MIX ASPHALT DIKE (TYPE B).....8.86		
50 89 85 39-0011	LF		CALTRANS 394073 PLACE HOT MIX ASPHALT DIKE (TYPE A).....6.45		
50 89 85 39-0012	LF		CALTRANS 394074 PLACE HOT MIX ASPHALT DIKE (TYPE C).....3.37		
50 89 85 39-0013	LF		CALTRANS 394075 PLACE HOT MIX ASPHALT DIKE (TYPE D).....14.20		
50 89 85 39-0014	LF		CALTRANS 394076 PLACE HOT MIX ASPHALT DIKE (TYPE E).....9.20		
50 89 85 39-0015	LF		CALTRANS 394077 PLACE HOT MIX ASPHALT DIKE (TYPE F).....4.95		
50 89 85 39-0016	SY		CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) Up To 2".....15.72		
			For Up To 500, Add	2.40	
			For >500 To 1,000, Add	1.36	
			For >5,000 To 10,000, Deduct	-0.65	
			For >10,000 To 24,000, Deduct	-1.18	
			For >24,000 To 48,000, Deduct	-1.83	
			For >48,000, Deduct	-2.64	
50 89 85 39-0017	SY		CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) >2" To 3".....22.07		
			For Up To 300, Add	3.18	
			For >300 To 600, Add	2.61	
			For >3,000 To 6,000, Deduct	-0.94	
			For >6,000 To 16,000, Deduct	-1.72	
			For >16,000 To 32,000, Deduct	-2.66	
			For >32,000, Deduct	-3.82	
50 89 85 39-0018	SY		CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) >3" To 4".....30.15		
			For Up To 250, Add	4.05	
			For >250 To 500, Add	2.22	
			For >2,500 To 5,000, Deduct	-1.34	
			For >5,000 To 12,000, Deduct	-2.43	
			For >12,000 To 24,000, Deduct	-3.76	
			For >24,000, Deduct	-5.40	
50 89 85 39-0019	SY		CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) >4" To 6".....45.24		
			For Up To 160, Add	6.07	
			For >160 To 320, Add	3.34	
			For >1,600 To 3,200, Deduct	-2.00	
			For >3,200 To 8,000, Deduct	-3.64	
			For >8,000 To 16,000, Deduct	-5.64	
			For >16,000, Deduct	-8.10	
50 89 85 39-0020	TON		CALTRANS 395020 RUBBERIZED HOT MIX ASPHALT-GAP GRADED (BONDED WEARING COURSE).....168.11		
50 89 85 39-0021	TON		CALTRANS 397005 TACK COAT.....644.50		
50 89 85 39-0022	SF		CALTRANS 398000 REMOVE ASPHALT CONCRETE PAVEMENT (CY) .....176.16		
			For >500 To 1,000, Deduct	-17.62	
			For >1,000 To 2,500, Deduct	-31.71	
			For >2,500 To 5,000, Deduct	-45.80	
			For >5,000 To 10,000, Deduct	-59.89	
			For >10,000, Deduct	-73.99	
50 89 85 39-0023	SF		CALTRANS 398001 REMOVE ASPHALT CONCRETE PAVEMENT (SQFT).....2.99		
			For >500 To 1,000, Deduct	-0.30	
			For >1,000 To 2,500, Deduct	-0.54	
			For >2,500 To 5,000, Deduct	-0.78	
			For >5,000 To 10,000, Deduct	-1.02	
			For >10,000, Deduct	-1.26	
50 89 85 39-0024	LF		CALTRANS 398100 REMOVE ASPHALT CONCRETE DIKE.....4.88		
50 89 85 39-0025	SY		CALTRANS 398200 COLD PLANE ASPHALT CONCRETE PAVEMENT (Up To 3").....4.09		
			For Up To 2,500, Add	3.07	
			For >2,500 To 5,000, Add	1.02	
			For >10,000 To 25,000, Deduct	-0.41	
			For >25,000, Deduct	-0.61	
50 89 85 39-0026	SY		CALTRANS 398200 COLD PLANE ASPHALT CONCRETE PAVEMENT (>3" To 6").....5.45		
			For Up To 2,500, Add	4.09	
			For >2,500 To 5,000, Add	1.36	
			For >10,000 To 25,000, Deduct	-0.55	
			For >25,000, Deduct	-0.82	

50 89 85 40 CONCRETE PAVEMENT (50 89 85)

Note: Includes concrete pavement, reinforcing, placement, finishing, compaction and testing per CALTRAN Standard.

50 89 85 40-0001	CY		CALTRANS 400050 CONTINUOUSLY REINFORCED CONCRETE PAVEMENT .....392.56		
			For >1,000 To 5,000, Deduct	-15.73	
			For >5,000, Deduct	-43.23	
50 89 85 40-0002	CY		CALTRANS 401050 JOINTED PLAIN CONCRETE PAVEMENT .....382.65		
			For >1,000 To 5,000, Deduct	-15.73	
			For >5,000, Deduct	-42.73	

50 89 85 41 EXISTING CONCRETE PAVEMENT (50 89 85)

Note: Includes work on existing concrete pavement, placement and finishing per CALTRAN Standard.

50 89 85 41-0001	EA		CALTRANS 410096 DRILL AND BOND (DOWEL BAR) .....25.51		
50 89 85 41-0002	SY		CALTRANS 410121 SPALL REPAIR (FAST-SETTING CONCRETE) .....390.75		
			For Up To 100, Add	491.26	
			For >100 To 250, Add	245.63	
50 89 85 41-0003	LF		CALTRANS 414222 REPLACE JOINT SEAL (PREFORMED COMPRESSION, 7/16" TO 13/16").....11.43		
50 89 85 41-0004	LF		CALTRANS 414223 REPLACE JOINT SEAL (PREFORMED COMPRESSION, 1" TO 1-1/4") .....13.09		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 85 41-0005 LF CALTRANS 414224 REPLACE JOINT SEAL (PERFORMED COMPRESSION, 1-5/8" TO 2")	19.36	
50 89 85 41-0006 LF CALTRANS 414241 ISOLATION JOINT SEAL (SILICONE)	10.04	
50 89 85 41-0007 LF CALTRANS 414242 ISOLATION JOINT SEAL (PERFORMED COMPRESSION)	12.04	
50 89 85 41-0008 SY CALTRANS 416101 PAVEMENT TRANSITION TAPER	61.38	
For Up To 100, Add	22.57	
For >100 To 250, Add	13.07	
For >250 To 500, Add	6.53	
For >1,000 To 2,000, Deduct	-1.78	
For >2,000 To 5,000, Deduct	-3.32	
For >5,000 To 10,000, Deduct	-4.85	
For >10,000 To 20,000, Deduct	-6.39	
For >20,000, Deduct	-7.92	
50 89 85 41-0009 CY CALTRANS 418002 REMOVE CONCRETE PAVEMENT AND BASE	41.77	
50 89 85 41-0010 SY CALTRANS 418005 REMOVE CONCRETE PAVEMENT (SQYD)	21.35	
For >500 To 1,000, Deduct	-2.14	
For >1,000 To 2,500, Deduct	-3.84	
For >2,500 To 5,000, Deduct	-5.55	
For >5,000 To 10,000, Deduct	-7.26	
For >10,000, Deduct	-8.97	
50 89 85 42 GROOVE AND GRIND CONCRETE <small>(50 89 85)</small>		
Note: Includes grooving and grinding concrete roadway surfaces per CALTRAN Standard.		
50 89 85 42-0001 SY CALTRANS 420102 GROOVE EXISTING CONCRETE PAVEMENT	1.57	
50 89 85 42-0002 SY CALTRANS 420104 GROOVE EXISTING BRIDGE DECK	2.35	
50 89 85 42-0003 SY CALTRANS 420201 GRIND EXISTING CONCRETE PAVEMENT	4.09	
For Up To 2,500, Add	3.07	
For >2,500 To 5,000, Add	1.02	
For >10,000 To 25,000, Deduct	-0.41	
For >25,000, Deduct	-0.61	
50 89 85 42-0004 SY CALTRANS 420203 GRIND EXISTING BRIDGE DECK	25.82	
For >100 To 1,000, Deduct	-12.91	
For >1,000, Deduct	-19.37	
50 89 86 CALTRANS DIVISION VI - STRUCTURES <small>(50 89 80)</small>		
50 89 86 56 OVERHEAD SIGN STRUCTURES, STANDARDS, AND POLES <small>(50 89 86)</small>		
50 89 86 56-0001 SF CALTRANS 560248 FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED)	16.24	20.74
50 89 86 60 EXISTING STRUCTURES <small>(50 89 86)</small>		
50 89 86 60-0001 LF CALTRANS 600063 CORE CONCRETE (1")	116.21	
For Horizontal Cores, Add	21.34	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	42.68	
50 89 86 60-0002 LF CALTRANS 600064 CORE CONCRETE (2")	141.24	
For Horizontal Cores, Add	26.34	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	52.69	
50 89 86 60-0003 LF CALTRANS 600065 CORE CONCRETE (3")	157.35	
For Horizontal Cores, Add	28.85	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	57.69	
50 89 86 60-0004 LF CALTRANS 600066 CORE CONCRETE (4")	209.36	
For Horizontal Cores, Add	38.46	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	76.92	
50 89 86 60-0005 LF CALTRANS 600067 CORE CONCRETE (5")	242.27	
For Horizontal Cores, Add	44.26	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	88.52	
50 89 86 60-0006 LF CALTRANS 600068 CORE CONCRETE (6")	271.25	
For Horizontal Cores, Add	50.05	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	100.11	
50 89 86 60-0007 LF CALTRANS 600069 CORE CONCRETE (7")	355.88	
For Horizontal Cores, Add	65.46	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	130.93	
50 89 86 60-0008 LF CALTRANS 600070 CORE CONCRETE (8")	432.94	
For Horizontal Cores, Add	80.88	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	161.75	
50 89 86 60-0009 LF CALTRANS 600071 CORE CONCRETE (9")	79.99	
For Horizontal Cores, Add	8.39	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	16.78	
50 89 86 60-0010 LF CALTRANS 600072 CORE CONCRETE (10")	472.72	
For Horizontal Cores, Add	86.94	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	173.87	
50 89 86 60-0011 LF CALTRANS 600074 CORE CONCRETE (12")	546.15	
For Horizontal Cores, Add	100.11	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	200.21	
50 89 86 60-0012 LF CALTRANS 600081 CORE CONCRETE (1 1/2")	128.07	
For Horizontal Cores, Add	23.71	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	47.42	
50 89 86 60-0013 LF CALTRANS 600083 CORE CONCRETE (2 1/2")	151.09	
For Horizontal Cores, Add	27.59	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	55.19	
50 89 87 CALTRANS DIVISION VII - DRAINAGE FACILITIES <small>(50 89 80)</small>		

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**50 89 87 64****PLASTIC PIPE** (50 89 87)

Note: Includes installing plastic pipe, excavation, backfill, compaction, connection of new pipe to new or existing facilities, reinforcement, concrete collars or tees, testing, and other connecting devices per CALTRAN Standard.

50 89 87 64-0001	LF	CALTRANS 641101 12" PLASTIC PIPE.....	43.35
		Note: Includes 0.37 CY of excavated material per LF of pipe.	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42
50 89 87 64-0002	LF	CALTRANS 641104 15" PLASTIC PIPE.....	54.27
		Note: Includes 0.53 CY of excavated material per LF of pipe.	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42
50 89 87 64-0003	LF	CALTRANS 641107 18" PLASTIC PIPE.....	68.26
		Note: Includes 0.64 CY of excavated material per LF of pipe.	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42
50 89 87 64-0004	LF	CALTRANS 641110 21" PLASTIC PIPE.....	81.19
		Note: Includes 0.80 CY of excavated material per LF of pipe.	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42
50 89 87 64-0005	LF	CALTRANS 641113 24" PLASTIC PIPE.....	94.38
		Note: Includes 0.89 CY of excavated material per LF of pipe.	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42
50 89 87 64-0006	LF	CALTRANS 641119 30" PLASTIC PIPE.....	135.32
		Note: Includes 1.08 CY of excavated material per LF of pipe.	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42
50 89 87 64-0007	LF	CALTRANS 641125 36" PLASTIC PIPE.....	164.91
		Note: Includes 1.30 CY of excavated material per LF of pipe.	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42
50 89 87 64-0008	LF	CALTRANS 641128 42" PLASTIC PIPE.....	207.37
		Note: Includes 1.53 CY of excavated material per LF of pipe.	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42
50 89 87 64-0009	LF	CALTRANS 641131 48" PLASTIC PIPE.....	250.88
		Note: Includes 1.78 CY of excavated material per LF of pipe.	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42

50 89 87 65**CONCRETE PIPE** (50 89 87)

Note: Includes installing concrete pipe, excavation, backfill, compaction, connection of new pipe to new or existing facilities, reinforcement, concrete collars or tees, testing, and other connecting devices per CALTRAN Standard.

50 89 87 65-0001	LF	CALTRANS 650010 12" REINFORCED CONCRETE PIPE.....	52.24
		Note: Includes 0.37 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-2.61
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42
50 89 87 65-0002	LF	CALTRANS 650012 15" REINFORCED CONCRETE PIPE.....	64.89
		Note: Includes 0.53 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-3.24
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42
50 89 87 65-0003	LF	CALTRANS 650014 18" REINFORCED CONCRETE PIPE.....	74.72
		Note: Includes 0.64 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-3.74
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42
50 89 87 65-0004	LF	CALTRANS 650016 21" REINFORCED CONCRETE PIPE.....	96.13
		Note: Includes 0.80 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-4.81
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42
50 89 87 65-0005	LF	CALTRANS 650018 24" REINFORCED CONCRETE PIPE.....	111.22
		Note: Includes 0.89 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-5.56
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42
50 89 87 65-0006	LF	CALTRANS 650019 27" REINFORCED CONCRETE PIPE.....	137.12
		Note: Includes 0.98 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-6.86
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42
50 89 87 65-0007	LF	CALTRANS 650022 30" REINFORCED CONCRETE PIPE.....	146.53
		Note: Includes 1.08 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-7.33
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42
50 89 87 65-0008	LF	CALTRANS 650024 33" REINFORCED CONCRETE PIPE.....	163.03
		Note: Includes 1.19 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-8.15
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0009 LF CALTRANS 650026 36" REINFORCED CONCRETE PIPE.....	179.38	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-8.97	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.74	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.42	
50 89 87 65-0010 LF CALTRANS 650030 42" REINFORCED CONCRETE PIPE.....	229.24	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-11.46	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.74	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.42	
50 89 87 65-0011 LF CALTRANS 650034 48" REINFORCED CONCRETE PIPE.....	274.21	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-13.71	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.74	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.42	
50 89 87 65-0012 LF CALTRANS 650038 54" REINFORCED CONCRETE PIPE.....	335.55	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-16.78	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.74	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.42	
50 89 87 65-0013 LF CALTRANS 650042 60" REINFORCED CONCRETE PIPE.....	401.57	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-20.08	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.74	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.42	
50 89 87 65-0014 LF CALTRANS 650046 66" REINFORCED CONCRETE PIPE.....	587.49	
Note: Includes 2.64 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-29.37	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.74	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.42	
50 89 87 65-0015 LF CALTRANS 650050 72" REINFORCED CONCRETE PIPE.....	680.44	
Note: Includes 2.96 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-34.02	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.74	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.42	
50 89 87 65-0016 LF CALTRANS 650054 78" REINFORCED CONCRETE PIPE.....	810.07	
Note: Includes 3.31 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-40.50	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.74	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.42	
50 89 87 65-0017 LF CALTRANS 650058 84" REINFORCED CONCRETE PIPE.....	1,025.32	
Note: Includes 3.67 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-51.27	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.74	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.42	
50 89 87 65-0018 LF CALTRANS 650065 96" REINFORCED CONCRETE PIPE.....	1,247.72	
Note: Includes 4.44 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-62.39	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.74	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.42	
50 89 87 65-0019 LF CALTRANS 650211 18" REINFORCED CONCRETE PIPE (CLASS II).....	73.26	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-3.66	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.74	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.42	
50 89 87 65-0020 LF CALTRANS 650220 30" REINFORCED CONCRETE PIPE (CLASS II).....	143.60	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-7.18	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.74	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.42	
50 89 87 65-0021 LF CALTRANS 650222 33" REINFORCED CONCRETE PIPE (CLASS II).....	159.58	
Note: Includes 1.19 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-7.98	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.74	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.42	
50 89 87 65-0022 LF CALTRANS 650224 36" REINFORCED CONCRETE PIPE (CLASS II).....	175.41	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-8.77	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.74	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.42	
50 89 87 65-0023 LF CALTRANS 650307 12" REINFORCED CONCRETE PIPE (CLASS III).....	52.24	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-2.61	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.74	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.42	
50 89 87 65-0024 LF CALTRANS 650309 15" REINFORCED CONCRETE PIPE (CLASS III).....	64.89	
Note: Includes 0.53 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-3.24	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.74	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.42	
50 89 87 65-0025 LF CALTRANS 650311 18" REINFORCED CONCRETE PIPE (CLASS III).....	74.72	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
<i>For >1,000, Deduct</i>	-3.74	
<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.74	
<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.42	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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50 89 87 65-0026	LF	CALTRANS 650316 24" REINFORCED CONCRETE PIPE (CLASS III).....	111.22	
		Note: Includes 0.89 CY of excavated material per LF of pipe.		
		For >1,000, Deduct	-5.56	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0027	LF	CALTRANS 650318 27" REINFORCED CONCRETE PIPE (CLASS III).....	137.12	
		Note: Includes 0.98 CY of excavated material per LF of pipe.		
		For >1,000, Deduct	-6.86	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0028	LF	CALTRANS 650320 30" REINFORCED CONCRETE PIPE (CLASS III).....	146.53	
		Note: Includes 1.08 CY of excavated material per LF of pipe.		
		For >1,000, Deduct	-7.33	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0029	LF	CALTRANS 650324 36" REINFORCED CONCRETE PIPE (CLASS III).....	179.38	
		Note: Includes 1.30 CY of excavated material per LF of pipe.		
		For >1,000, Deduct	-8.97	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0030	LF	CALTRANS 650328 42" REINFORCED CONCRETE PIPE (CLASS III).....	229.24	
		Note: Includes 1.53 CY of excavated material per LF of pipe.		
		For >1,000, Deduct	-11.46	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0031	LF	CALTRANS 650336 54" REINFORCED CONCRETE PIPE (CLASS III).....	335.55	
		Note: Includes 2.05 CY of excavated material per LF of pipe.		
		For >1,000, Deduct	-16.78	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0032	LF	CALTRANS 650407 12" REINFORCED CONCRETE PIPE (CLASS IV).....	54.30	
		Note: Includes 0.37 CY of excavated material per LF of pipe.		
		For >1,000, Deduct	-2.72	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0033	LF	CALTRANS 650409 15" REINFORCED CONCRETE PIPE (CLASS IV).....	67.53	
		Note: Includes 0.53 CY of excavated material per LF of pipe.		
		For >1,000, Deduct	-3.38	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0034	LF	CALTRANS 650411 18" REINFORCED CONCRETE PIPE (CLASS IV).....	77.49	
		Note: Includes 0.64 CY of excavated material per LF of pipe.		
		For >1,000, Deduct	-3.87	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0035	LF	CALTRANS 650416 24" REINFORCED CONCRETE PIPE (CLASS IV).....	115.30	
		Note: Includes 0.89 CY of excavated material per LF of pipe.		
		For >1,000, Deduct	-5.77	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0036	LF	CALTRANS 650420 30" REINFORCED CONCRETE PIPE (CLASS IV).....	152.09	
		Note: Includes 1.08 CY of excavated material per LF of pipe.		
		For >1,000, Deduct	-7.60	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0037	LF	CALTRANS 650424 36" REINFORCED CONCRETE PIPE (CLASS IV).....	186.92	
		Note: Includes 1.30 CY of excavated material per LF of pipe.		
		For >1,000, Deduct	-9.35	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0038	LF	CALTRANS 650432 48" REINFORCED CONCRETE PIPE (CLASS IV).....	287.75	
		Note: Includes 1.78 CY of excavated material per LF of pipe.		
		For >1,000, Deduct	-14.39	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0039	LF	CALTRANS 650436 54" REINFORCED CONCRETE PIPE (CLASS IV).....	353.13	
		Note: Includes 2.05 CY of excavated material per LF of pipe.		
		For >1,000, Deduct	-17.66	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0040	LF	CALTRANS 650440 60" REINFORCED CONCRETE PIPE (CLASS IV).....	423.19	
		Note: Includes 2.33 CY of excavated material per LF of pipe.		
		For >1,000, Deduct	-21.16	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0041	LF	CALTRANS 650507 12" REINFORCED CONCRETE PIPE (CLASS V).....	56.57	
		Note: Includes 0.37 CY of excavated material per LF of pipe.		
		For >1,000, Deduct	-2.83	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0042	LF	CALTRANS 650511 18" REINFORCED CONCRETE PIPE (CLASS V).....	80.55	
		Note: Includes 0.64 CY of excavated material per LF of pipe.		
		For >1,000, Deduct	-4.03	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0043 LF CALTRANS 650516 24" REINFORCED CONCRETE PIPE (CLASS V)	119.80	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-5.99	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0044 LF CALTRANS 650520 30" REINFORCED CONCRETE PIPE (CLASS V)	146.53	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.33	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0045 LF CALTRANS 650524 36" REINFORCED CONCRETE PIPE (CLASS V)	195.26	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.76	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0046 LF CALTRANS 650528 42" REINFORCED CONCRETE PIPE (CLASS V)	229.24	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-11.46	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0047 LF CALTRANS 650536 54" REINFORCED CONCRETE PIPE (CLASS V)	372.57	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-18.63	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0048 LF CALTRANS 650540 60" REINFORCED CONCRETE PIPE (CLASS V)	401.57	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-20.08	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0049 LF CALTRANS 650548 72" REINFORCED CONCRETE PIPE (CLASS V)	680.44	
Note: Includes 2.96 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-34.02	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0050 LF CALTRANS 652207 12" REINFORCED CONCRETE PIPE (CLASS II, RUBBER GASKET JOINT)	51.65	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-2.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0051 LF CALTRANS 652215 24" REINFORCED CONCRETE PIPE (CLASS II, RUBBER GASKET JOINT)	112.08	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-5.60	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0052 LF CALTRANS 652307 12" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	53.87	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-2.69	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0053 LF CALTRANS 652311 18" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	76.90	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.85	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0054 LF CALTRANS 652314 21" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	98.98	
Note: Includes 0.80 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.95	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0055 LF CALTRANS 652316 24" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	114.44	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-5.72	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0056 LF CALTRANS 652320 30" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	150.92	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.55	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0057 LF CALTRANS 652324 36" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	185.34	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0058 LF CALTRANS 652328 42" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	237.86	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-11.89	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0059 LF CALTRANS 652332 48" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	284.90	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-14.25	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0060 LF CALTRANS 652348 72" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	715.61	
Note: Includes 2.96 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-35.78	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0061 LF CALTRANS 652416 24" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....	118.82	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-5.94	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0062 LF CALTRANS 652420 30" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....	156.89	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.84	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0063 LF CALTRANS 652424 36" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....	193.44	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.67	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0064 LF CALTRANS 652428 42" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....	249.59	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-12.48	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0065 LF CALTRANS 652444 66" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....	657.39	
Note: Includes 2.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-32.87	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0066 LF CALTRANS 654311 18" REINFORCED CONCRETE PRESSURE PIPE (CLASS III)	122.54	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.13	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0067 LF CALTRANS 654316 24" REINFORCED CONCRETE PRESSURE PIPE (CLASS III)	152.96	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.65	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0068 LF CALTRANS 654324 36" REINFORCED CONCRETE PRESSURE PIPE (CLASS III)	204.45	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-10.22	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0069 LF CALTRANS 657213 24" X 38" OVAL SHAPED REINFORCED CONCRETE PIPE (CLASS II)	214.51	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-10.73	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0070 LF CALTRANS 657329 34" X 53" OVAL SHAPED REINFORCED CONCRETE PIPE (CLASS III)	363.57	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-18.18	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0071 LF CALTRANS 659108 18" NON-REINFORCED CONCRETE PIPE	68.88	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.44	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0072 LF CALTRANS 659109 24" NON-REINFORCED CONCRETE PIPE	102.64	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-5.13	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0073 LF CALTRANS 659110 30" NON-REINFORCED CONCRETE PIPE	134.81	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.74	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 65-0074 LF CALTRANS 659111 36" NON-REINFORCED CONCRETE PIPE	163.49	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-8.17	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 66 CORRUGATED METAL PIPE (50 89 87)		
Note: Includes installing corrugated metal pipe and pipe arches, excavation, backfill, compaction, connection of new pipe to new or existing facilities, reinforcement, concrete collars or tees, testing, and other connecting devices per CALTRANS Standard.		
50 89 87 66-0001 LF CALTRANS 665002 6" CORRUGATED STEEL PIPE (.064" THICK).....	22.24	
Note: Includes 0.29 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0002	LF	CALTRANS 665003 6" CORRUGATED STEEL PIPE (.079" THICK)..... Note: Includes 0.29 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	23.76 0.74 1.42	
50 89 87 66-0003	LF	CALTRANS 665005 8" CORRUGATED STEEL PIPE (.064" THICK)..... Note: Includes 0.29 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	30.08 0.74 1.42	
50 89 87 66-0004	LF	CALTRANS 665006 8" CORRUGATED STEEL PIPE (.079" THICK)..... Note: Includes 0.29 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	32.08 0.74 1.42	
50 89 87 66-0005	LF	CALTRANS 665008 10" CORRUGATED STEEL PIPE (.064" THICK)..... Note: Includes 0.32 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	36.90 0.74 1.42	
50 89 87 66-0006	LF	CALTRANS 665009 10" CORRUGATED STEEL PIPE (.079" THICK)..... Note: Includes 0.32 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	38.53 0.74 1.42	
50 89 87 66-0007	LF	CALTRANS 665011 12" CORRUGATED STEEL PIPE (.064" THICK)..... Note: Includes 0.37 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	41.45 0.74 1.42	
50 89 87 66-0008	LF	CALTRANS 665012 12" CORRUGATED STEEL PIPE (.079" THICK)..... Note: Includes 0.37 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	44.05 0.74 1.42	
50 89 87 66-0009	LF	CALTRANS 665013 15" CORRUGATED STEEL PIPE (.064" THICK)..... Note: Includes 0.53 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	51.58 0.74 1.42	
50 89 87 66-0010	LF	CALTRANS 665014 15" CORRUGATED STEEL PIPE (.079" THICK)..... Note: Includes 0.53 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	54.79 0.74 1.42	
50 89 87 66-0011	LF	CALTRANS 665015 15" CORRUGATED STEEL PIPE (.109" THICK)..... Note: Includes 0.53 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	61.41 0.74 1.42	
50 89 87 66-0012	LF	CALTRANS 665016 18" CORRUGATED STEEL PIPE (.064" THICK)..... Note: Includes 0.64 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	59.84 0.74 1.42	
50 89 87 66-0013	LF	CALTRANS 665017 18" CORRUGATED STEEL PIPE (.079" THICK)..... Note: Includes 0.64 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	63.72 0.74 1.42	
50 89 87 66-0014	LF	CALTRANS 665018 18" CORRUGATED STEEL PIPE (.109" THICK)..... Note: Includes 0.64 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	71.74 0.74 1.42	
50 89 87 66-0015	LF	CALTRANS 665019 21" CORRUGATED STEEL PIPE (.064" THICK)..... Note: Includes 0.80 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	71.09 0.74 1.42	
50 89 87 66-0016	LF	CALTRANS 665020 21" CORRUGATED STEEL PIPE (.079" THICK)..... Note: Includes 0.80 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	75.58 0.74 1.42	
50 89 87 66-0017	LF	CALTRANS 665021 21" CORRUGATED STEEL PIPE (.109" THICK)..... Note: Includes 0.80 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	84.90 0.74 1.42	
50 89 87 66-0018	LF	CALTRANS 665022 24" CORRUGATED STEEL PIPE (.064" THICK)..... Note: Includes 0.89 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	78.57 0.74 1.42	
50 89 87 66-0019	LF	CALTRANS 665023 24" CORRUGATED STEEL PIPE (.079" THICK)..... Note: Includes 0.89 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	83.98 0.74 1.42	
50 89 87 66-0020	LF	CALTRANS 665024 24" CORRUGATED STEEL PIPE (.109" THICK)..... Note: Includes 0.89 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	94.61 0.74 1.42	
50 89 87 66-0021	LF	CALTRANS 665025 24" CORRUGATED STEEL PIPE (.138" THICK)..... Note: Includes 0.89 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	103.54 0.74 1.42	
50 89 87 66-0022	LF	CALTRANS 665026 27" CORRUGATED STEEL PIPE (.064" THICK)..... Note: Includes 0.98 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	90.20 0.74 1.42	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0108 LF CALTRANS 665161 72" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK)504.31 Note: Includes 2.96 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.74 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.42		
50 89 87 66-0109 LF CALTRANS 665162 72" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK) .....549.48 Note: Includes 2.96 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.74 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.42		
50 89 87 66-0110 LF CALTRANS 665163 72" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK) .....601.33 Note: Includes 2.96 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.74 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.42		
50 89 87 66-0111 LF CALTRANS 665164 78" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK) .....593.56 Note: Includes 3.31 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.74 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.42		
50 89 87 66-0112 LF CALTRANS 665165 78" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK) .....649.89 Note: Includes 3.31 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.74 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.42		
50 89 87 66-0113 LF CALTRANS 665166 84" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK) .....637.11 Note: Includes 3.67 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.74 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.42		
50 89 87 66-0114 LF CALTRANS 665167 84" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK) .....705.00 Note: Includes 3.67 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.74 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.42		
50 89 87 66-0115 LF CALTRANS 665168 90" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK) .....683.66 Note: Includes 4.05 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.74 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.42		
50 89 87 66-0116 LF CALTRANS 665180 24" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK) .....127.20 Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.74 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.42		
50 89 87 66-0117 LF CALTRANS 665223 24" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE (.079" THICK) .....98.00 Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.74 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.42		
50 89 87 66-0118 LF CALTRANS 665224 24" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE (.109" THICK) .....107.07 Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.74 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.42		
50 89 87 66-0119 LF CALTRANS 665237 36" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE (.109" THICK) .....179.32 Note: Includes 1.30 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.74 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.42		
50 89 87 66-0120 LF CALTRANS 665323 24" BITUMINOUS LINED CORRUGATED STEEL PIPE (.079" THICK) .....90.03 Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.74 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.42		
50 89 87 66-0121 LF CALTRANS 665334 30" BITUMINOUS LINED CORRUGATED STEEL PIPE (.168" THICK) .....165.20 Note: Includes 1.08 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.74 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.42		
50 89 87 66-0122 LF CALTRANS 665336 36" BITUMINOUS LINED CORRUGATED STEEL PIPE (.079" THICK) .....153.87 Note: Includes 1.30 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.74 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.42		
50 89 87 66-0123 LF CALTRANS 665711 12" SLOTTED CORRUGATED STEEL PIPE (.064" THICK) .....46.30 Note: Includes 0.37 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.74 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.42		
50 89 87 66-0124 LF CALTRANS 665712 12" SLOTTED CORRUGATED STEEL PIPE (.079" THICK) .....49.17 Note: Includes 0.37 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.74 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.42		
50 89 87 66-0125 LF CALTRANS 665713 12" SLOTTED CORRUGATED STEEL PIPE (.109" THICK) .....58.13 Note: Includes 0.37 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.74 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.42		
50 89 87 66-0126 LF CALTRANS 665716 18" SLOTTED CORRUGATED STEEL PIPE (.064" THICK) .....80.25 Note: Includes 0.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.74 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.42		
50 89 87 66-0127 LF CALTRANS 665717 18" SLOTTED CORRUGATED STEEL PIPE (.079" THICK) .....86.84 Note: Includes 0.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.74 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.42		
50 89 87 66-0128 LF CALTRANS 665718 18" SLOTTED CORRUGATED STEEL PIPE (.168" THICK) .....143.28 Note: Includes 0.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.74 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.42		



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0129	LF CALTRANS 665722 24" SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....	Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	88.40	
			0.74	
			1.42	
50 89 87 66-0130	LF CALTRANS 665723 24" SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	94.24	
			0.74	
			1.42	
50 89 87 66-0131	LF CALTRANS 665811 12" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....	Note: Includes 0.37 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	50.39	
			0.74	
			1.42	
50 89 87 66-0132	LF CALTRANS 665812 12" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	Note: Includes 0.37 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	53.95	
			0.74	
			1.42	
50 89 87 66-0133	LF CALTRANS 665816 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....	Note: Includes 0.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	89.63	
			0.74	
			1.42	
50 89 87 66-0134	LF CALTRANS 665817 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	Note: Includes 0.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	97.81	
			0.74	
			1.42	
50 89 87 66-0135	LF CALTRANS 665818 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.109" THICK).....	Note: Includes 0.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	123.37	
			0.74	
			1.42	
50 89 87 66-0136	LF CALTRANS 665820 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.138" THICK).....	Note: Includes 0.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	143.40	
			0.74	
			1.42	
50 89 87 66-0137	LF CALTRANS 665822 24" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	103.96	
			0.74	
			1.42	
50 89 87 66-0138	LF CALTRANS 665828 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.168" THICK).....	Note: Includes 0.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	167.91	
			0.74	
			1.42	
50 89 87 66-0139	LF CALTRANS 667001 17" X 13" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	Note: Includes 0.53 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	57.07	
			0.74	
			1.42	
50 89 87 66-0140	LF CALTRANS 667005 21" X 15" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	Note: Includes 0.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	69.58	
			0.74	
			1.42	
50 89 87 66-0141	LF CALTRANS 667006 21" X 15" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	Note: Includes 0.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	77.54	
			0.74	
			1.42	
50 89 87 66-0142	LF CALTRANS 667009 24" X 18" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	Note: Includes 0.80 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	81.97	
			0.74	
			1.42	
50 89 87 66-0143	LF CALTRANS 667010 24" X 18" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	Note: Includes 0.80 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	91.35	
			0.74	
			1.42	
50 89 87 66-0144	LF CALTRANS 667013 28" X 20" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	85.74	
			0.74	
			1.42	
50 89 87 66-0145	LF CALTRANS 667014 28" X 20" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	102.17	
			0.74	
			1.42	
50 89 87 66-0146	LF CALTRANS 667015 28" X 20" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	111.48	
			0.74	
			1.42	
50 89 87 66-0147	LF CALTRANS 667018 35" X 24" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	Note: Includes 1.08 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	120.15	
			0.74	
			1.42	
50 89 87 66-0148	LF CALTRANS 667019 35" X 24" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	Note: Includes 1.08 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	133.26	
			0.74	
			1.42	
50 89 87 66-0149	LF CALTRANS 667020 35" X 24" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	Note: Includes 1.08 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	144.98	
			0.74	
			1.42	

50 Custom Standards And Assemblies

50 89 CALTRANS Custom Standards And Assemblies

50 89 80 CALTRANS Construction Performance Requirements



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0150 LF CALTRANS 667023 42" X 29" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	147.06	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 66-0151 LF CALTRANS 667024 42" X 29" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	162.57	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 66-0152 LF CALTRANS 667025 42" X 29" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	177.17	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 66-0153 LF CALTRANS 667028 49" X 33" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	171.78	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 66-0154 LF CALTRANS 667029 49" X 33" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	189.68	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 66-0155 LF CALTRANS 667030 49" X 33" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	206.70	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 66-0156 LF CALTRANS 667033 57" X 38" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	205.35	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 66-0157 LF CALTRANS 667034 57" X 38" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	221.24	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 66-0158 LF CALTRANS 667035 57" X 38" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	240.53	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 66-0159 LF CALTRANS 667037 64" X 43" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	238.94	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 66-0160 LF CALTRANS 667038 64" X 43" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	256.49	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 66-0161 LF CALTRANS 667041 71" X 47" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	297.23	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 66-0162 LF CALTRANS 667042 71" X 47" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	319.20	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 66-0163 LF CALTRANS 667048 83" X 57" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	482.22	
Note: Includes 2.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 66-0164 LF CALTRANS 667114 28" X 20" BITUMINOUS COATED CORRUGATED STEEL PIPE ARCH (.109" THICK).....	109.49	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 66-0165 LF CALTRANS 667326 42" X 29" BITUMINOUS COATED CORRUGATED STEEL PIPE ARCH (.168" THICK).....	211.78	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 66-0166 LF CALTRANS 669012 12" CORRUGATED STEEL PIPE CONDUIT (.079" THICK).....	44.05	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 66-0167 LF CALTRANS 669016 18" CORRUGATED STEEL PIPE CONDUIT (.064" THICK).....	59.84	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 66-0168 LF CALTRANS 669017 18" CORRUGATED STEEL PIPE CONDUIT (.079" THICK).....	63.72	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 66-0169 LF CALTRANS 669018 18" CORRUGATED STEEL PIPE CONDUIT (.109" THICK).....	71.74	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 66-0170 LF CALTRANS 669055 8" BITUMINOUS COATED CORRUGATED STEEL PIPE CONDUIT (.064" THICK).....	32.30	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 66-0171 LF CALTRANS 669072 24" BITUMINOUS COATED CORRUGATED STEEL PIPE CONDUIT (.079" THICK).....	90.03	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 67 STRUCTURAL PLATE CULVERTS ^(50 89 87)		
Note: Includes structural metal plate pipe, arches and pipe arches, excavation, backfill, compaction, connection of new pipe to new or existing facilities, testing, and other connecting devices per CALTRAN Standard.		
50 89 87 67-0001 LF CALTRANS 670602 90" STRUCTURAL STEEL PLATE PIPE (.138" THICK).....	716.82	
Note: Includes 4.05 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 67-0002 LF CALTRANS 670901 108" STRUCTURAL STEEL PLATE PIPE (.109" THICK).....	787.90	
Note: Includes 5.30 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 67-0003 LF CALTRANS 671101 120" STRUCTURAL STEEL PLATE PIPE (.109" THICK).....	876.52	
Note: Includes 6.22 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 67-0004 LF CALTRANS 674351 11'-10" X 7'-7" STRUCTURAL STEEL PLATE PIPE ARCH (.109" THICK)	1,014.99	
Note: Includes 0.32 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 68 SUBSURFACE DRAINS ^(50 89 87)		
Note: Includes subsurface drains, excavation, backfill and compaction per CALTRAN Standard.		
50 89 87 68-0001 LF CALTRANS 680402 6" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK).....	25.11	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 68-0002 LF CALTRANS 680405 8" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK).....	33.89	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 68-0003 LF CALTRANS 680406 8" PERFORATED STEEL PIPE UNDERDRAIN (.079" THICK).....	36.73	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 68-0004 LF CALTRANS 680411 12" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK).....	47.76	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 68-0005 LF CALTRANS 680412 12" PERFORATED STEEL PIPE UNDERDRAIN (.079" THICK).....	51.48	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 68-0006 LF CALTRANS 680436 8" BITUMINOUS COATED PERFORATED STEEL PIPE UNDERDRAIN (.079" THICK)	39.91	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.74	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.42	
50 89 87 69 OVERSIDE DRAINS ^(50 89 87)		
Note: Includes constructing outside drains, excavation, backfill, compaction and anchors per CALTRAN Standard.		
50 89 87 69-0001 LF CALTRANS 690103 6" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	23.26	
50 89 87 69-0002 LF CALTRANS 690105 8" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	29.25	
50 89 87 69-0003 LF CALTRANS 690106 8" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	31.24	
50 89 87 69-0004 LF CALTRANS 690107 10" CORRUGATED STEEL PIPE DOWNDRAIN	37.27	
50 89 87 69-0005 LF CALTRANS 690111 12" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	40.06	
50 89 87 69-0006 LF CALTRANS 690112 12" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	42.66	
50 89 87 69-0007 LF CALTRANS 690114 15" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	52.89	
50 89 87 69-0008 LF CALTRANS 690115 15" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	59.51	
50 89 87 69-0009 LF CALTRANS 690116 18" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	57.68	
50 89 87 69-0010 LF CALTRANS 690117 18" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	61.55	
50 89 87 69-0011 LF CALTRANS 690118 18" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	69.58	
50 89 87 69-0012 LF CALTRANS 690122 24" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	74.66	
50 89 87 69-0013 LF CALTRANS 690123 24" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	79.87	
50 89 87 69-0014 LF CALTRANS 690124 24" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	90.50	
50 89 87 69-0015 LF CALTRANS 690125 24" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	99.43	
50 89 87 69-0016 LF CALTRANS 690131 30" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	105.99	
50 89 87 69-0017 LF CALTRANS 690132 30" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	119.13	
50 89 87 69-0018 LF CALTRANS 690134 30" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	130.49	
50 89 87 69-0019 LF CALTRANS 690136 36" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	138.96	
50 89 87 69-0020 LF CALTRANS 690137 36" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	154.56	
50 89 87 69-0021 LF CALTRANS 690138 36" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	169.16	
50 89 87 69-0022 LF CALTRANS 690142 42" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	178.06	
50 89 87 69-0023 LF CALTRANS 690147 48" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	201.90	
50 89 87 69-0024 LF CALTRANS 690148 48" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	221.28	
50 89 87 69-0025 LF CALTRANS 690150 54" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	243.32	
50 89 87 69-0026 LF CALTRANS 690205 8" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	31.47	
50 89 87 69-0027 LF CALTRANS 690206 8" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	33.48	
50 89 87 69-0028 LF CALTRANS 690211 12" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	43.01	
50 89 87 69-0029 LF CALTRANS 690212 12" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	45.62	
50 89 87 69-0030 LF CALTRANS 690216 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	62.12	
50 89 87 69-0031 LF CALTRANS 690217 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	66.05	
50 89 87 69-0032 LF CALTRANS 690218 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	74.73	
50 89 87 69-0033 LF CALTRANS 690222 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	80.65	
50 89 87 69-0034 LF CALTRANS 690223 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	85.92	
50 89 87 69-0035 LF CALTRANS 690224 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	97.40	
50 89 87 69-0036 LF CALTRANS 690225 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	107.83	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 69-0037	LF		CALTRANS 690231 30" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	113.76	
50 89 87 69-0038	LF		CALTRANS 690232 30" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	127.91	
50 89 87 69-0039	LF		CALTRANS 690235 36" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	141.04	
50 89 87 69-0040	LF		CALTRANS 690237 36" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	165.41	
50 89 87 69-0041	LF		CALTRANS 690238 36" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	182.96	
50 89 87 69-0042	LF		CALTRANS 690242 42" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	190.77	
50 89 87 69-0043	LF		CALTRANS 690247 48" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	216.25	
50 89 87 69-0044	LF		CALTRANS 690253 30" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	141.17	
50 89 87 69-0045	LF		CALTRANS 690260 12" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	56.85	
50 89 87 69-0046	LF		CALTRANS 690263 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	82.60	
50 89 87 69-0047	LF		CALTRANS 690318 18" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	78.88	
50 89 87 69-0048	LF		CALTRANS 690324 24" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	102.96	
50 89 87 69-0049	LF		CALTRANS 690341 42" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	171.51	
50 89 87 69-0050	LF		CALTRANS 690351 54" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	274.40	
50 89 87 69-0051	LF		CALTRANS 690960 12" PLASTIC PIPE DOWNDRAIN.....	41.97	
50 89 87 69-0052	LF		CALTRANS 690964 18" PLASTIC PIPE DOWNDRAIN.....	66.08	
50 89 87 69-0053	EA		CALTRANS 692303 8" ANCHOR ASSEMBLY.....	538.07	
50 89 87 69-0054	EA		CALTRANS 692305 12" ANCHOR ASSEMBLY.....	673.95	
50 89 87 69-0055	EA		CALTRANS 692306 15" ANCHOR ASSEMBLY.....	756.07	
50 89 87 69-0056	EA		CALTRANS 692307 18" ANCHOR ASSEMBLY.....	843.99	
50 89 87 69-0057	EA		CALTRANS 692309 24" ANCHOR ASSEMBLY.....	1,035.05	
50 89 87 69-0058	EA		CALTRANS 692311 30" ANCHOR ASSEMBLY.....	1,240.18	
50 89 87 69-0059	EA		CALTRANS 692313 36" ANCHOR ASSEMBLY.....	1,445.49	
50 89 87 69-0060	EA		CALTRANS 692319 54" ANCHOR ASSEMBLY.....	2,063.16	

50 89 87 70 MISCELLANEOUS DRAINAGE FACILITIES (50 89 87)

50 89 87 70-0001	LF		CALTRANS 700637 36" CORRUGATED STEEL PIPE INLET (.064" THICK).....	144.13	
50 89 87 70-0002	LF		CALTRANS 700638 36" CORRUGATED STEEL PIPE INLET (.079" THICK).....	144.13	
50 89 87 70-0003	LF		CALTRANS 700639 36" CORRUGATED STEEL PIPE INLET (.109" THICK).....	159.72	
50 89 87 70-0004	LF		CALTRANS 700640 36" CORRUGATED STEEL PIPE INLET (.138" THICK).....	174.32	
50 89 87 70-0005	LF		CALTRANS 700641 36" CORRUGATED STEEL PIPE INLET (.168" THICK).....	207.25	
50 89 87 70-0006	LF		CALTRANS 700655 48" CORRUGATED STEEL PIPE INLET (.109" THICK).....	212.19	
50 89 87 70-0007	LF		CALTRANS 700656 48" CORRUGATED STEEL PIPE INLET (.138" THICK).....	231.57	
50 89 87 70-0008	LF		CALTRANS 700837 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.064" THICK).....	146.20	
50 89 87 70-0009	LF		CALTRANS 700838 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.079" THICK).....	152.96	
50 89 87 70-0010	LF		CALTRANS 700839 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.109" THICK).....	170.57	
50 89 87 70-0011	LF		CALTRANS 700840 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.138" THICK).....	188.12	
50 89 87 70-0012	LF		CALTRANS 700854 48" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.079" THICK).....	226.54	
50 89 87 70-0013	LF		CALTRANS 703516 8" WELDED STEEL PIPE (.188" THICK).....	111.63	24.80
			<i>For >1,000, Deduct</i>	-5.58	
50 89 87 70-0014	LF		CALTRANS 703525 10" WELDED STEEL PIPE (.250" THICK).....	159.57	27.05
			<i>For >1,000, Deduct</i>	-7.98	
50 89 87 70-0015	LF		CALTRANS 703533 12" WELDED STEEL PIPE (.250" THICK).....	182.00	28.35
			<i>For >1,000, Deduct</i>	-9.10	
50 89 87 70-0016	LF		CALTRANS 703555 18" WELDED STEEL PIPE (.250" THICK).....	259.30	37.20
			<i>For >1,000, Deduct</i>	-12.97	
50 89 87 70-0017	LF		CALTRANS 703557 18" WELDED STEEL PIPE (.375" THICK).....	344.74	63.86
			<i>For >1,000, Deduct</i>	-17.24	
50 89 87 70-0018	LF		CALTRANS 703564 20" WELDED STEEL PIPE (.375" THICK).....	378.44	63.86
			<i>For >1,000, Deduct</i>	-18.92	
50 89 87 70-0019	LF		CALTRANS 703576 24" WELDED STEEL PIPE (.375" THICK).....	484.96	73.68
			<i>For >1,000, Deduct</i>	-24.25	
50 89 87 70-0020	LF		CALTRANS 703600 30" WELDED STEEL PIPE (.375" THICK).....	563.01	85.96
			<i>For >1,000, Deduct</i>	-28.15	
50 89 87 70-0021	LF		CALTRANS 703620 36" WELDED STEEL PIPE (.375" THICK).....	755.10	103.15
			<i>For >1,000, Deduct</i>	-37.76	
50 89 87 70-0022	LF		CALTRANS 703646 42" WELDED STEEL PIPE (.375" THICK).....	1,314.07	115.43
			<i>For >1,000, Deduct</i>	-65.70	
50 89 87 70-0023	LF		CALTRANS 703656 48" WELDED STEEL PIPE (.375" THICK).....	1,509.27	130.17
			<i>For >1,000, Deduct</i>	-75.46	
50 89 87 70-0024	EA		CALTRANS 705007 12" STEEL FLARED END SECTION.....	340.67	59.44
50 89 87 70-0025	EA		CALTRANS 705009 15" STEEL FLARED END SECTION.....	392.86	63.69
50 89 87 70-0026	EA		CALTRANS 705011 18" STEEL FLARED END SECTION.....	467.82	67.94
50 89 87 70-0027	EA		CALTRANS 705013 21" STEEL FLARED END SECTION.....	577.93	74.30
50 89 87 70-0028	EA		CALTRANS 705015 24" STEEL FLARED END SECTION.....	749.76	80.67
50 89 87 70-0029	EA		CALTRANS 705016 27" STEEL FLARED END SECTION.....	930.53	80.67
50 89 87 70-0030	EA		CALTRANS 705019 30" STEEL FLARED END SECTION.....	1,115.55	91.28
50 89 87 70-0031	EA		CALTRANS 705023 36" STEEL FLARED END SECTION.....	1,880.33	109.19
50 89 87 70-0032	EA		CALTRANS 705027 42" STEEL FLARED END SECTION.....	2,400.57	127.38
50 89 87 70-0033	EA		CALTRANS 705031 48" STEEL FLARED END SECTION.....	3,419.44	145.58
50 89 87 70-0034	EA		CALTRANS 705035 54" STEEL FLARED END SECTION.....	3,800.63	181.98
50 89 87 70-0035	EA		CALTRANS 705037 60" STEEL FLARED END SECTION.....	5,103.82	218.37
50 89 87 70-0036	EA		CALTRANS 705039 66" STEEL FLARED END SECTION.....	5,788.25	327.56
50 89 87 70-0037	EA		CALTRANS 705041 72" STEEL FLARED END SECTION.....	6,770.89	436.74
50 89 87 70-0038	EA		CALTRANS 705057 12" BITUMINOUS COATED STEEL FLARED END SECTION.....	392.92	59.44
50 89 87 70-0039	EA		CALTRANS 705059 15" BITUMINOUS COATED STEEL FLARED END SECTION.....	455.22	63.69
50 89 87 70-0040	EA		CALTRANS 705061 18" BITUMINOUS COATED STEEL FLARED END SECTION.....	541.79	67.94



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 70-0041 EA CALTRANS 705063 21" BITUMINOUS COATED STEEL FLARED END SECTION.....	678.20	74.30
50 89 87 70-0042 EA CALTRANS 705065 24" BITUMINOUS COATED STEEL FLARED END SECTION.....	888.02	80.67
50 89 87 70-0043 EA CALTRANS 705067 27" BITUMINOUS COATED STEEL FLARED END SECTION.....	1,109.95	80.67
50 89 87 70-0044 EA CALTRANS 705069 30" BITUMINOUS COATED STEEL FLARED END SECTION.....	1,336.13	91.28
50 89 87 70-0045 EA CALTRANS 705073 36" BITUMINOUS COATED STEEL FLARED END SECTION.....	2,274.26	109.19
50 89 87 70-0046 EA CALTRANS 705077 42" BITUMINOUS COATED STEEL FLARED END SECTION.....	2,908.32	127.38
50 89 87 70-0047 EA CALTRANS 705081 48" BITUMINOUS COATED STEEL FLARED END SECTION.....	4,160.33	145.58
50 89 87 70-0048 EA CALTRANS 705084 54" BITUMINOUS COATED STEEL FLARED END SECTION.....	4,612.05	181.98
50 89 87 70-0049 EA CALTRANS 705201 12" CONCRETE FLARED END SECTION.....	567.50	106.00
50 89 87 70-0050 EA CALTRANS 705202 15" CONCRETE FLARED END SECTION.....	685.89	132.12
50 89 87 70-0051 EA CALTRANS 705204 18" CONCRETE FLARED END SECTION.....	835.59	167.24
50 89 87 70-0052 EA CALTRANS 705205 21" CONCRETE FLARED END SECTION.....	963.16	199.99
50 89 87 70-0053 EA CALTRANS 705206 24" CONCRETE FLARED END SECTION.....	1,167.52	231.48
50 89 87 70-0054 EA CALTRANS 705207 27" CONCRETE FLARED END SECTION.....	1,449.45	369.68
50 89 87 70-0055 EA CALTRANS 705208 30" CONCRETE FLARED END SECTION.....	1,567.71	508.99
50 89 87 70-0056 EA CALTRANS 705210 36" CONCRETE FLARED END SECTION.....	2,098.23	642.38
50 89 87 70-0057 EA CALTRANS 705212 42" CONCRETE FLARED END SECTION.....	2,540.10	805.98
50 89 87 70-0058 EA CALTRANS 705214 48" CONCRETE FLARED END SECTION.....	2,774.70	908.97
50 89 87 70-0059 EA CALTRANS 705216 54" CONCRETE FLARED END SECTION.....	3,113.87	1,018.07
50 89 87 70-0060 EA CALTRANS 705217 60" CONCRETE FLARED END SECTION.....	3,449.84	1,018.07
50 89 87 70-0061 EA CALTRANS 705403 21" X 15" STEEL FLARED END PIPE ARCH SECTION.....	493.07	67.94
50 89 87 70-0062 EA CALTRANS 705405 24" X 18" STEEL FLARED END PIPE ARCH SECTION.....	540.02	74.30
50 89 87 70-0063 EA CALTRANS 705407 28" X 20" STEEL FLARED END PIPE ARCH SECTION.....	582.65	80.67
50 89 87 70-0064 EA CALTRANS 705409 35" X 24" STEEL FLARED END PIPE ARCH SECTION.....	864.89	91.28
50 89 87 70-0065 EA CALTRANS 705411 42" X 29" STEEL FLARED END PIPE ARCH SECTION.....	1,626.19	109.19
50 89 87 70-0066 EA CALTRANS 705413 49" X 33" STEEL FLARED END PIPE ARCH SECTION.....	2,173.70	127.38
50 89 87 70-0067 EA CALTRANS 705415 57" X 38" STEEL FLARED END PIPE ARCH SECTION.....	3,331.09	145.58
50 89 87 70-0068 EA CALTRANS 705417 64" X 43" STEEL FLARED END PIPE ARCH SECTION.....	3,824.62	181.98
50 89 87 70-0069 EA CALTRANS 705419 71" X 47" STEEL FLARED END PIPE ARCH SECTION.....	4,616.69	218.37

50 89 87 71 EXISTING DRAINAGE FACILITIES (50 89 87)

Note: For work on culverts, inlets, headwalls, endwalls, aprons, drains, pipes, gutters, gutter depressions, junction structures, spillways, and check dams. Includes cleaning and preparing, inspecting and evaluating, repairing, rehabilitating, and reinspecting culverts, drain pipes, conduit, risers, downdrains, median drainage inlets, and underdrains per CALTRANS Standard.

50 89 87 71-0001 EA CALTRANS 710208 ADJUST FRAME AND COVER TO GRADE.....	372.14	
50 89 87 71-0002 LF CALTRANS 710360 CLEANING, INSPECTING, AND PREPARING CULVERT (LF).....	45.01	
<i>For >250 To 500, Deduct</i>	-2.04	
<i>For >500 To 1,000, Deduct</i>	-4.09	
<i>For >1,000 To 2,000, Deduct</i>	-6.13	
<i>For >2,000 To 5,000, Deduct</i>	-8.17	
<i>For >5,000, Deduct</i>	-10.22	
50 89 87 71-0003 CY CALTRANS 710368 CULVERT SLURRY-CEMENT BACKFILL.....	247.72	
50 89 87 71-0004 CY CALTRANS 710370 SAND BACKFILL.....	56.79	
<i>For Up To 10, Add</i>	15.51	
<i>For >10 To 25, Add</i>	5.68	
50 89 87 71-0005 LF CALTRANS 710372 8" CURED-IN-PLACE PIPELINER.....	54.08	
<i>For >10 To 25, Add</i>	45.81	
<i>For >25 To 50, Add</i>	29.47	
<i>For >50 To 100, Add</i>	14.74	
<i>For >500 To 1,000, Deduct</i>	-1.87	
<i>For >1,000 To 2,000, Deduct</i>	-3.38	
<i>For >2,000 To 5,000, Deduct</i>	-5.25	
<i>For >5,000, Deduct</i>	-8.28	
50 89 87 71-0006 LF CALTRANS 710374 10" CURED-IN-PLACE PIPELINER.....	75.29	
<i>For >10 To 25, Add</i>	53.95	
<i>For >25 To 50, Add</i>	35.35	
<i>For >50 To 100, Add</i>	17.68	
<i>For >500 To 1,000, Deduct</i>	-2.36	
<i>For >1,000 To 2,000, Deduct</i>	-4.34	
<i>For >2,000 To 5,000, Deduct</i>	-6.70	
<i>For >5,000, Deduct</i>	-10.65	
50 89 87 71-0007 LF CALTRANS 710376 12" CURED-IN-PLACE PIPELINER.....	89.26	
<i>For >10 To 25, Add</i>	61.04	
<i>For >25 To 50, Add</i>	40.23	
<i>For >50 To 100, Add</i>	20.11	
<i>For >500 To 1,000, Deduct</i>	-2.73	
<i>For >1,000 To 2,000, Deduct</i>	-5.03	
<i>For >2,000 To 5,000, Deduct</i>	-7.77	
<i>For >5,000, Deduct</i>	-12.37	
50 89 87 71-0008 LF CALTRANS 710378 15" CURED-IN-PLACE PIPELINER.....	139.35	
<i>For >10 To 25, Add</i>	78.74	
<i>For >25 To 50, Add</i>	53.23	
<i>For >50 To 100, Add</i>	26.62	
<i>For >500 To 1,000, Deduct</i>	-3.86	
<i>For >1,000 To 2,000, Deduct</i>	-7.23	
<i>For >2,000 To 5,000, Deduct</i>	-11.09	
<i>For >5,000, Deduct</i>	-17.84	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 71-0009 LF CALTRANS 710380 18" CURED-IN-PLACE PIPELINER.....	166.62	
For >10 To 25, Add	91.22	
For >25 To 50, Add	61.96	
For >50 To 100, Add	30.98	
For >500 To 1,000, Deduct	-4.54	
For >1,000 To 2,000, Deduct	-8.54	
For >2,000 To 5,000, Deduct	-13.08	
For >5,000, Deduct	-21.07	
50 89 87 71-0010 LF CALTRANS 710382 21" CURED-IN-PLACE PIPELINER.....	213.82	
For >10 To 25, Add	107.14	
For >25 To 50, Add	73.78	
For >50 To 100, Add	36.89	
For >500 To 1,000, Deduct	-5.59	
For >1,000 To 2,000, Deduct	-10.58	
For >2,000 To 5,000, Deduct	-16.17	
For >5,000, Deduct	-26.15	
50 89 87 71-0011 LF CALTRANS 710384 24" CURED-IN-PLACE PIPELINER.....	267.44	
For >10 To 25, Add	125.47	
For >25 To 50, Add	87.35	
For >50 To 100, Add	43.68	
For >500 To 1,000, Deduct	-6.78	
For >1,000 To 2,000, Deduct	-12.91	
For >2,000 To 5,000, Deduct	-19.69	
For >5,000, Deduct	-31.95	
50 89 87 71-0012 LF CALTRANS 710386 27" CURED-IN-PLACE PIPELINER.....	355.51	
For >10 To 25, Add	156.78	
For >25 To 50, Add	110.34	
For >50 To 100, Add	55.17	
For >500 To 1,000, Deduct	-8.77	
For >1,000 To 2,000, Deduct	-16.79	
For >2,000 To 5,000, Deduct	-25.56	
For >5,000, Deduct	-41.59	
50 89 87 71-0013 LF CALTRANS 710388 30" CURED-IN-PLACE PIPELINER.....	395.96	
For >10 To 25, Add	174.39	
For >25 To 50, Add	122.76	
For >50 To 100, Add	61.38	
For >500 To 1,000, Deduct	-9.76	
For >1,000 To 2,000, Deduct	-18.69	
For >2,000 To 5,000, Deduct	-28.45	
For >5,000, Deduct	-46.30	
50 89 87 71-0014 LF CALTRANS 710390 36" CURED-IN-PLACE PIPELINER.....	474.33	
For >10 To 25, Add	203.27	
For >25 To 50, Add	143.80	
For >50 To 100, Add	71.90	
For >500 To 1,000, Deduct	-11.56	
For >1,000 To 2,000, Deduct	-22.17	
For >2,000 To 5,000, Deduct	-33.73	
For >5,000, Deduct	-54.96	
50 89 87 71-0015 LF CALTRANS 710392 42" CURED-IN-PLACE PIPELINER.....	553.97	
For >10 To 25, Add	235.31	
For >25 To 50, Add	166.73	
For >50 To 100, Add	83.37	
For >500 To 1,000, Deduct	-13.45	
For >1,000 To 2,000, Deduct	-25.82	
For >2,000 To 5,000, Deduct	-39.26	
For >5,000, Deduct	-64.00	
50 89 87 71-0016 LF CALTRANS 710394 48" CURED-IN-PLACE PIPELINER.....	635.44	
For >10 To 25, Add	271.95	
For >25 To 50, Add	192.43	
For >50 To 100, Add	96.21	
For >500 To 1,000, Deduct	-15.47	
For >1,000 To 2,000, Deduct	-29.69	
For >2,000 To 5,000, Deduct	-45.16	
For >5,000, Deduct	-73.60	
50 89 87 71-0017 LF CALTRANS 710396 54" CURED-IN-PLACE PIPELINER.....	830.84	
For >10 To 25, Add	349.96	
For >25 To 50, Add	248.35	
For >50 To 100, Add	124.18	
For >500 To 1,000, Deduct	-20.09	
For >1,000 To 2,000, Deduct	-38.61	
For >2,000 To 5,000, Deduct	-58.70	
For >5,000, Deduct	-95.73	
50 89 87 71-0018 LF CALTRANS 710398 60" CURED-IN-PLACE PIPELINER.....	1,060.62	
For >10 To 25, Add	459.31	
For >25 To 50, Add	324.30	
For >50 To 100, Add	162.15	
For >500 To 1,000, Deduct	-25.96	
For >1,000 To 2,000, Deduct	-49.76	
For >2,000 To 5,000, Deduct	-75.72	
For >5,000, Deduct	-123.32	
50 89 87 71-0019 LF CALTRANS 710400 18" DEFORMED/RE-FORMED HDPE PIPELINER.....	146.64	
For >500 To 1,000, Deduct	-1.32	
For >1,000 To 2,000, Deduct	-2.65	
For >2,000, Deduct	-5.30	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 71-0020	LF CALTRANS 710402 21" DEFORMED/RE-FORMED HDPE PIPELINER		165.64	
	For >500 To 1,000, Deduct		-1.43	
	For >1,000 To 2,000, Deduct		-2.87	
	For >2,000, Deduct		-5.74	
50 89 87 71-0021	LF CALTRANS 710404 24" DEFORMED/RE-FORMED HDPE PIPELINER		201.40	
	For >500 To 1,000, Deduct		-1.56	
	For >1,000 To 2,000, Deduct		-3.13	
	For >2,000, Deduct		-6.26	
50 89 87 71-0022	LF CALTRANS 710434 12" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)		23.16	
50 89 87 71-0023	LF CALTRANS 710436 15" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)		34.46	
50 89 87 71-0024	LF CALTRANS 710438 18" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)		46.38	
50 89 87 71-0025	LF CALTRANS 710440 21" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)		57.47	
50 89 87 71-0026	LF CALTRANS 710442 24" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)		74.93	
50 89 87 71-0027	LF CALTRANS 710444 27" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)		89.77	
50 89 87 71-0028	LF CALTRANS 710446 30" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)		102.70	
50 89 87 71-0029	LF CALTRANS 710448 12" CEMENTITIOUS PIPELINER		61.36	
50 89 87 71-0030	LF CALTRANS 710450 15" CEMENTITIOUS PIPELINER		67.21	
50 89 87 71-0031	LF CALTRANS 710452 18" CEMENTITIOUS PIPELINER		70.96	
50 89 87 71-0032	LF CALTRANS 710454 21" CEMENTITIOUS PIPELINER		75.54	
50 89 87 71-0033	LF CALTRANS 710456 24" CEMENTITIOUS PIPELINER		80.06	
50 89 87 71-0034	LF CALTRANS 710458 27" CEMENTITIOUS PIPELINER		83.38	
50 89 87 71-0035	LF CALTRANS 710460 30" CEMENTITIOUS PIPELINER		86.60	
50 89 87 71-0036	LF CALTRANS 710462 36" CEMENTITIOUS PIPELINER		84.65	
50 89 87 71-0037	LF CALTRANS 710478 36" WELDED STEEL PIPELINER		543.30	
50 89 87 71-0038	LF CALTRANS 710480 42" WELDED STEEL PIPELINER		627.54	
50 89 87 71-0039	LF CALTRANS 710482 48" WELDED STEEL PIPELINER		713.88	
50 89 87 71-0040	LF CALTRANS 710484 54" WELDED STEEL PIPELINER		865.11	
50 89 87 71-0041	LF CALTRANS 710486 60" WELDED STEEL PIPELINER		938.07	
50 89 87 71-0042	LF CALTRANS 710488 66" WELDED STEEL PIPELINER		1,025.36	
50 89 87 71-0043	LF CALTRANS 710490 72" WELDED STEEL PIPELINER		1,215.36	
50 89 87 71-0044	LF CALTRANS 710491 78" WELDED STEEL PIPELINER		1,285.17	
50 89 87 71-0045	LF CALTRANS 710492 84" WELDED STEEL PIPELINER		1,362.58	
50 89 87 71-0046	LF CALTRANS 710494 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 42" X 29")		237.87	
50 89 87 71-0047	LF CALTRANS 710496 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 49" X 33")		295.25	
50 89 87 71-0048	LF CALTRANS 710498 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 57" X 38")		364.24	
50 89 87 71-0049	LF CALTRANS 710500 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 64" X 43")		436.24	
50 89 87 71-0050	LF CALTRANS 710522 83" X 57" WELDED STEEL PIPELINER (ARCH)		1,349.75	
50 89 87 71-0051	LF CALTRANS 710524 HDPE PLASTIC PIPELINER (16" OD SDR 32.5)		49.67	
50 89 87 71-0052	LF CALTRANS 710526 HDPE PLASTIC PIPELINER (18" OD SDR 32.5)		62.43	
50 89 87 71-0053	LF CALTRANS 710528 HDPE PLASTIC PIPELINER (20" OD SDR 32.5)		76.48	
50 89 87 71-0054	LF CALTRANS 710530 HDPE PLASTIC PIPELINER (22" OD SDR 32.5)		88.17	
50 89 87 71-0055	LF CALTRANS 710532 HDPE PLASTIC PIPELINER (24" OD SDR 32.5)		100.83	
50 89 87 71-0056	LF CALTRANS 710534 HDPE PLASTIC PIPELINER (26" OD SDR 32.5)		115.00	
50 89 87 71-0057	LF CALTRANS 710536 HDPE PLASTIC PIPELINER (28" OD SDR 32.5)		129.65	
50 89 87 71-0058	LF CALTRANS 710538 HDPE PLASTIC PIPELINER (30" OD SDR 32.5)		150.00	
50 89 87 71-0059	LF CALTRANS 710540 HDPE PLASTIC PIPELINER (32" OD SDR 32.5)		171.31	
50 89 87 71-0060	LF CALTRANS 710542 HDPE PLASTIC PIPELINER (34" OD SDR 32.5)		189.26	
50 89 87 71-0061	LF CALTRANS 710544 HDPE PLASTIC PIPELINER (36" OD SDR 32.5)		207.19	
50 89 87 71-0062	LF CALTRANS 710546 HDPE PLASTIC PIPELINER (39.5" OD SDR 32.5)		236.58	
50 89 87 71-0063	LF CALTRANS 710548 HDPE PLASTIC PIPELINER (42" OD SDR 32.5)		265.97	
50 89 87 71-0064	LF CALTRANS 710550 HDPE PLASTIC PIPELINER (48" OD SDR 32.5)		341.33	
50 89 87 71-0065	LF CALTRANS 710552 HDPE PLASTIC PIPELINER (54" OD SDR 32.5)		415.74	
50 89 87 71-0066	LF CALTRANS 710554 HDPE PLASTIC PIPELINER (55.3" OD SDR 32.5)		439.01	
50 89 87 71-0067	LF CALTRANS 710556 HDPE PLASTIC PIPELINER (63.2" OD SDR 32.5)		549.63	
50 89 87 71-0068	LF CALTRANS 710558 HDPE PLASTIC PIPELINER (16" OD SDR 26)		59.01	
50 89 87 71-0069	LF CALTRANS 710660 HDPE PLASTIC PIPELINER (18" OD SDR 26)		74.20	
50 89 87 71-0070	LF CALTRANS 710662 HDPE PLASTIC PIPELINER (20" OD SDR 26)		91.16	
50 89 87 71-0071	LF CALTRANS 710664 HDPE PLASTIC PIPELINER (22" OD SDR 26)		105.20	
50 89 87 71-0072	LF CALTRANS 710666 HDPE PLASTIC PIPELINER (24" OD SDR 26)		120.44	
50 89 87 71-0073	LF CALTRANS 710668 HDPE PLASTIC PIPELINER (26" OD SDR 26)		137.55	
50 89 87 71-0074	LF CALTRANS 710670 HDPE PLASTIC PIPELINER (28" OD SDR 26)		155.26	
50 89 87 71-0075	LF CALTRANS 710672 HDPE PLASTIC PIPELINER (30" OD SDR 26)		180.02	
50 89 87 71-0076	LF CALTRANS 710674 HDPE PLASTIC PIPELINER (32" OD SDR 26)		206.00	
50 89 87 71-0077	LF CALTRANS 710766 HDPE PLASTIC PIPELINER (34" OD SDR 26)		227.79	
50 89 87 71-0078	LF CALTRANS 710768 HDPE PLASTIC PIPELINER (36" OD SDR 26)		249.57	
50 89 87 71-0079	LF CALTRANS 710770 HDPE PLASTIC PIPELINER (39.5" OD SDR 26)		285.56	
50 89 87 71-0080	LF CALTRANS 710772 HDPE PLASTIC PIPELINER (42" OD SDR 26)		321.54	
50 89 87 71-0081	LF CALTRANS 710774 HDPE PLASTIC PIPELINER (48" OD SDR 26)		414.53	
50 89 87 71-0082	LF CALTRANS 710776 HDPE PLASTIC PIPELINER (54" OD SDR 26)		506.33	
50 89 87 71-0083	LF CALTRANS 710778 HDPE PLASTIC PIPELINER (55.3" OD SDR 26)		534.72	
50 89 87 71-0084	LF CALTRANS 710780 HDPE PLASTIC PIPELINER (63.2" OD SDR 26)		670.98	
50 89 87 71-0085	LF CALTRANS 710882 HDPE PLASTIC PIPELINER (16" OD SDR 21)		71.09	
50 89 87 71-0086	LF CALTRANS 710884 HDPE PLASTIC PIPELINER (18" OD SDR 21)		89.40	
50 89 87 71-0087	LF CALTRANS 710886 HDPE PLASTIC PIPELINER (20" OD SDR 21)		110.12	
50 89 87 71-0088	LF CALTRANS 710888 HDPE PLASTIC PIPELINER (22" OD SDR 21)		127.19	
50 89 87 71-0089	LF CALTRANS 710890 HDPE PLASTIC PIPELINER (24" OD SDR 21)		145.77	
50 89 87 71-0090	LF CALTRANS 710891 HDPE PLASTIC PIPELINER (26" OD SDR 21)		166.68	
50 89 87 71-0091	LF CALTRANS 710892 HDPE PLASTIC PIPELINER (28" OD SDR 21)		188.33	
50 89 87 71-0092	LF CALTRANS 710893 HDPE PLASTIC PIPELINER (30" OD SDR 21)		218.81	
50 89 87 71-0093	LF CALTRANS 710894 HDPE PLASTIC PIPELINER (32" OD SDR 21)		250.80	
50 89 87 71-0094	LF CALTRANS 710895 HDPE PLASTIC PIPELINER (34" OD SDR 21)		277.57	
50 89 87 71-0095	LF CALTRANS 710896 HDPE PLASTIC PIPELINER (36" OD SDR 21)		304.31	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 71-0096	LF		CALTRANS 710897 HDPE PLASTIC PIPELINER (39.5" OD SDR 21)	348.81	
50 89 87 71-0097	LF		CALTRANS 710898 HDPE PLASTIC PIPELINER (42" OD SDR 21)	393.31	
50 89 87 71-0098	LF		CALTRANS 710899 HDPE PLASTIC PIPELINER (48" OD SDR 21)	509.07	
50 89 87 71-0099	LF		CALTRANS 710900 HDPE PLASTIC PIPELINER (54" OD SDR 21)	623.34	
50 89 87 71-0100	LF		CALTRANS 710902 HDPE PLASTIC PIPELINER (55.3" OD SDR 21)	658.35	
50 89 87 71-0101	LF		CALTRANS 710904 HDPE PLASTIC PIPELINER (63.2" OD SDR 21)	827.72	
50 89 88 CALTRANS DIVISION VIII - MISCELLANEOUS CONSTRUCTION (50 89 80)					
50 89 88 73 CONCRETE CURBS AND SIDEWALKS (50 89 88)					
50 89 88 73-0001	LF		CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 6" x 18"	24.97	
			<i>For Up To 20, Add</i>	14.57	
			<i>For >20 To 50, Add</i>	8.24	
			<i>For >50 To 100, Add</i>	3.16	
			<i>For >500 To 1,000, Deduct</i>	-3.16	
			<i>For >1,000, Deduct</i>	-5.37	
50 89 88 73-0002	LF		CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 6" x 24"	28.89	
			<i>For Up To 20, Add</i>	16.31	
			<i>For >20 To 50, Add</i>	9.21	
			<i>For >50 To 100, Add</i>	3.55	
			<i>For >500 To 1,000, Deduct</i>	-3.55	
			<i>For >1,000, Deduct</i>	-6.05	
50 89 88 73-0003	LF		CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 8" x 18"	26.69	
			<i>For Up To 20, Add</i>	14.98	
			<i>For >20 To 50, Add</i>	8.45	
			<i>For >50 To 100, Add</i>	3.26	
			<i>For >500 To 1,000, Deduct</i>	-3.26	
			<i>For >1,000, Deduct</i>	-5.56	
50 89 88 73-0004	LF		CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 8" x 24"	31.28	
			<i>For Up To 20, Add</i>	16.79	
			<i>For >20 To 50, Add</i>	9.45	
			<i>For >50 To 100, Add</i>	3.67	
			<i>For >500 To 1,000, Deduct</i>	-3.67	
			<i>For >1,000, Deduct</i>	-6.29	
50 89 88 73-0005	LF		CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 8" x 36"	43.75	
			<i>For Up To 20, Add</i>	22.97	
			<i>For >20 To 50, Add</i>	12.90	
			<i>For >50 To 100, Add</i>	5.03	
			<i>For >500 To 1,000, Deduct</i>	-5.03	
			<i>For >1,000, Deduct</i>	-8.64	
50 89 88 73-0006	LF		CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 12" x 24"	38.68	
			<i>For Up To 20, Add</i>	19.58	
			<i>For >20 To 50, Add</i>	10.98	
			<i>For >50 To 100, Add</i>	4.30	
			<i>For >500 To 1,000, Deduct</i>	-4.30	
			<i>For >1,000, Deduct</i>	-7.42	
50 89 88 73-0007	LF		CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 12" x 36"	54.79	
			<i>For Up To 20, Add</i>	27.11	
			<i>For >20 To 50, Add</i>	15.17	
			<i>For >50 To 100, Add</i>	5.97	
			<i>For >500 To 1,000, Deduct</i>	-5.97	
			<i>For >1,000, Deduct</i>	-10.32	
50 89 88 73-0008	LF		CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 18"	33.71	
			<i>For Up To 20, Add</i>	22.77	
			<i>For >20 To 50, Add</i>	12.65	
			<i>For >50 To 100, Add</i>	5.06	
			<i>For >500 To 1,000, Deduct</i>	-4.23	
			<i>For >1,000, Deduct</i>	-7.18	
50 89 88 73-0009	LF		CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 24"	40.94	
			<i>For Up To 20, Add</i>	27.63	
			<i>For >20 To 50, Add</i>	15.35	
			<i>For >50 To 100, Add</i>	6.14	
			<i>For >500 To 1,000, Deduct</i>	-5.11	
			<i>For >1,000, Deduct</i>	-8.69	
50 89 88 73-0010	LF		CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 30"	53.43	
			<i>For Up To 20, Add</i>	36.08	
			<i>For >20 To 50, Add</i>	20.05	
			<i>For >50 To 100, Add</i>	8.01	
			<i>For >500 To 1,000, Deduct</i>	-6.70	
			<i>For >1,000, Deduct</i>	-11.38	
50 89 88 73-0011	LF		CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 36"	56.38	
			<i>For Up To 20, Add</i>	38.04	
			<i>For >20 To 50, Add</i>	21.13	
			<i>For >50 To 100, Add</i>	8.46	
			<i>For >500 To 1,000, Deduct</i>	-7.04	
			<i>For >1,000, Deduct</i>	-11.96	
50 89 88 73-0012	SF		CALTRANS 730070 DETECTABLE WARNING SURFACE	44.39	
50 89 88 73-0013	CY		CALTRANS 731502 MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	223.02	
			<i>For Up To 20, Add</i>	11.81	
			<i>For >20 To 50, Add</i>	4.43	
			<i>For >100 To 200, Deduct</i>	-4.46	
			<i>For >200 To 400, Deduct</i>	-8.92	
			<i>For >400, Deduct</i>	-13.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 88 73-0014 SF CALTRANS 731525 MINOR CONCRETE (SIDEWALK) (SF) 4"	9.38	
<i>For Up To 100, Add</i>	3.89	
<i>For >100 To 500, Add</i>	1.09	
<i>For >1,000 To 5,000, Deduct</i>	-0.62	
<i>For >5,000, Deduct</i>	-1.39	
50 89 88 73-0015 SF CALTRANS 731525 MINOR CONCRETE (SIDEWALK) (SF) 6"	11.15	
<i>For Up To 100, Add</i>	4.44	
<i>For >100 To 500, Add</i>	1.22	
<i>For >1,000 To 5,000, Deduct</i>	-0.66	
<i>For >5,000, Deduct</i>	-1.55	
50 89 88 73-0016 LF CALTRANS 731700 REMOVE CURB	10.86	
50 89 88 73-0017 LF CALTRANS 731710 REMOVE CONCRETE CURB (LF).....	15.80	
<i>For Up To 20, Add</i>	11.06	
<i>For >20 To 50, Add</i>	6.32	
<i>For >50 To 100, Add</i>	2.37	
<i>For >500 To 1,000, Deduct</i>	-2.37	
<i>For >1,000, Deduct</i>	-3.95	
50 89 88 73-0018 SY CALTRANS 731780 REMOVE CONCRETE SIDEWALK (SQYD)	100.45	
<i>For Up To 100, Add</i>	40.03	
<i>For >100 To 500, Add</i>	10.99	
<i>For >1,000 To 5,000, Deduct</i>	-5.97	
<i>For >5,000, Deduct</i>	-13.97	
50 89 88 73-0019 LF CALTRANS 731840 REMOVE CONCRETE (CURB AND GUTTER).....	26.56	
<i>For Up To 20, Add</i>	18.59	
<i>For >20 To 50, Add</i>	10.62	
<i>For >50 To 100, Add</i>	3.98	
<i>For >500 To 1,000, Deduct</i>	-3.98	
<i>For >1,000, Deduct</i>	-6.64	
50 89 88 78 INCIDENTAL CONSTRUCTION (50 89 88)		
50 89 88 78-0001 EA CALTRANS 780210 SURVEY MONUMENT (TYPE A).....	493.14	
50 89 88 78-0002 EA CALTRANS 780250 ADJUST MONUMENT COVER TO GRADE.....	205.58	
50 89 88 78-0003 SF CALTRANS 780433 PAINT CURB (2-COAT).....	4.92	
50 89 88 78-0004 SF CALTRANS 780460 ANTI-GRAFFITI COATING	1.51	
<i>For Up To 100, Add</i>	0.92	
<i>For >100 To 250, Add</i>	0.44	
<i>For >250 To 500, Add</i>	0.19	
50 89 88 78-0005 EA CALTRANS 780500 PARKING BUMPER (PRECAST CONCRETE)	61.57	18.88
50 89 88 80 FENCES (50 89 88)		
Note: Includes constructing fences and gates, excavation, concrete footing, posts, bracing, tension wire, hardware and grounding material per CALTRAN Standard.		
50 89 88 80-0001 LF CALTRANS 800004 FENCE (TYPE BW, 5-STRAND, WOOD POST)	10.54	
50 89 88 80-0002 LF CALTRANS 800006 FENCE (TYPE BW, 6-STRAND, WOOD POST)	11.22	
50 89 88 80-0003 LF CALTRANS 800007 FENCE (TYPE BW, 5-STRAND, METAL POST)	12.44	
50 89 88 80-0004 LF CALTRANS 800008 FENCE (TYPE BW, 4-STRAND, METAL POST)	11.51	
50 89 88 80-0005 LF CALTRANS 800010 FENCE (TYPE BW, 4-STRAND, WOOD POST)	9.87	
50 89 88 80-0006 LF CALTRANS 800016 FENCE (TYPE BW, 6-STRAND, METAL POST)	13.11	
50 89 88 80-0007 LF CALTRANS 800103 TEMPORARY FENCE (TEMPORARY FENCE (TYPE CL-6)).....	7.02	
50 89 88 80-0008 LF CALTRANS 800302 CHAIN LINK FENCE (TYPE CL-3, VINYL-CLAD)	33.05	
<i>For Up To 100, Add</i>	6.39	
<i>For >100 To 250, Add</i>	2.37	
<i>For >2,500 To 5,000, Deduct</i>	-1.18	
<i>For >5,000, Deduct</i>	-2.37	
50 89 88 80-0009 LF CALTRANS 800310 CHAIN LINK FENCE (TYPE CL-3.5)	32.04	
<i>For Up To 100, Add</i>	6.22	
<i>For >100 To 250, Add</i>	2.31	
<i>For >2,500 To 5,000, Deduct</i>	-1.15	
<i>For >5,000, Deduct</i>	-2.31	
50 89 88 80-0010 LF CALTRANS 800320 CHAIN LINK FENCE (TYPE CL-4)	33.10	
<i>For Up To 100, Add</i>	6.40	
<i>For >100 To 250, Add</i>	2.37	
<i>For >2,500 To 5,000, Deduct</i>	-1.19	
<i>For >5,000, Deduct</i>	-2.37	
50 89 88 80-0011 LF CALTRANS 800321 CHAIN LINK FENCE (TYPE CL-4, VINYL-CLAD)	34.37	
<i>For Up To 100, Add</i>	6.59	
<i>For >100 To 250, Add</i>	2.43	
<i>For >2,500 To 5,000, Deduct</i>	-1.22	
<i>For >5,000, Deduct</i>	-2.43	
50 89 88 80-0012 LF CALTRANS 800340 CHAIN LINK FENCE (TYPE CL-5)	35.59	
<i>For Up To 100, Add</i>	6.82	
<i>For >100 To 250, Add</i>	2.52	
<i>For >2,500 To 5,000, Deduct</i>	-1.26	
<i>For >5,000, Deduct</i>	-2.52	
50 89 88 80-0013 LF CALTRANS 800341 CHAIN LINK FENCE (TYPE CL-5, VINYL-CLAD)	37.19	
<i>For Up To 100, Add</i>	7.06	
<i>For >100 To 250, Add</i>	2.60	
<i>For >2,500 To 5,000, Deduct</i>	-1.30	
<i>For >5,000, Deduct</i>	-2.60	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 88 80-0014 LF CALTRANS 800360 CHAIN LINK FENCE (TYPE CL-6)	38.60	
For Up To 100, Add	7.36	
For >100 To 250, Add	2.72	
For >2,500 To 5,000, Deduct	-1.36	
For >5,000, Deduct	-2.72	
50 89 88 80-0015 LF CALTRANS 800361 CHAIN LINK FENCE (TYPE CL-6, VINYL-CLAD)	41.85	
For Up To 100, Add	7.85	
For >100 To 250, Add	2.88	
For >2,500 To 5,000, Deduct	-1.44	
For >5,000, Deduct	-2.88	
50 89 88 80-0016 LF CALTRANS 800363 CHAIN LINK FENCE (TYPE CL-6, EXTENSION ARM)	39.35	
For Up To 100, Add	7.48	
For >100 To 250, Add	2.75	
For >2,500 To 5,000, Deduct	-1.38	
For >5,000, Deduct	-2.75	
50 89 88 80-0017 LF CALTRANS 800365 CHAIN LINK FENCE (TYPE CL-6, SLATTED)	81.50	
For Up To 100, Add	14.19	
For >100 To 250, Add	5.06	
For >2,500 To 5,000, Deduct	-2.53	
For >5,000, Deduct	-5.06	
50 89 88 80-0018 LF CALTRANS 800400 CHAIN LINK FENCE (TYPE CL-8)	45.38	
For Up To 100, Add	8.55	
For >100 To 250, Add	3.14	
For >2,500 To 5,000, Deduct	-1.57	
For >5,000, Deduct	-3.14	
50 89 88 80-0019 EA CALTRANS 802100 4' CHAIN LINK GATE (TYPE CL-4)	395.79	
50 89 88 80-0020 EA CALTRANS 802110 5' CHAIN LINK GATE (TYPE CL-4)	468.85	
50 89 88 80-0021 EA CALTRANS 802120 6' CHAIN LINK GATE (TYPE CL-4)	551.30	
50 89 88 80-0022 EA CALTRANS 802180 12' CHAIN LINK GATE (TYPE CL-4)	1,340.72	
50 89 88 80-0023 EA CALTRANS 802340 8' CHAIN LINK GATE (TYPE CL-5)	837.15	
50 89 88 80-0024 EA CALTRANS 802400 14' CHAIN LINK GATE (TYPE CL-5)	1,899.18	
50 89 88 80-0025 EA CALTRANS 802420 16' CHAIN LINK GATE (TYPE CL-5)	2,191.90	
50 89 88 80-0026 EA CALTRANS 802440 18' CHAIN LINK GATE (TYPE CL-5)	2,450.08	
50 89 88 80-0027 EA CALTRANS 802500 3' CHAIN LINK GATE (TYPE CL-6)	402.92	
50 89 88 80-0028 EA CALTRANS 802501 4' CHAIN LINK GATE (TYPE CL-6)	512.16	
50 89 88 80-0029 EA CALTRANS 802502 4' CHAIN LINK GATE (TYPE CL-6, VINYL-CLAD)	179.69	
50 89 88 80-0030 EA CALTRANS 802503 4' CHAIN LINK GATE (TYPE CL-6, EXTENSION ARM)	519.41	
50 89 88 80-0031 EA CALTRANS 802504 4' CHAIN LINK GATE (TYPE CL-6, SLATTED)	538.14	
50 89 88 80-0032 EA CALTRANS 802510 5' CHAIN LINK GATE (TYPE CL-6)	600.23	
50 89 88 80-0033 EA CALTRANS 802520 6' CHAIN LINK GATE (TYPE CL-6)	696.75	
50 89 88 80-0034 EA CALTRANS 802540 8' CHAIN LINK GATE (TYPE CL-6)	894.22	
50 89 88 80-0035 EA CALTRANS 802543 8' CHAIN LINK GATE (TYPE CL-6, EXTENSION ARM)	902.32	
50 89 88 80-0036 EA CALTRANS 802550 9' CHAIN LINK GATE (TYPE CL-6)	991.37	
50 89 88 80-0037 EA CALTRANS 802560 10' CHAIN LINK GATE (TYPE CL-6)	1,473.35	
50 89 88 80-0038 EA CALTRANS 802580 12' CHAIN LINK GATE (TYPE CL-6)	1,748.67	
50 89 88 80-0039 EA CALTRANS 802601 14' CHAIN LINK GATE (TYPE CL-6)	2,076.23	
50 89 88 80-0040 EA CALTRANS 802620 16' CHAIN LINK GATE (TYPE CL-6)	2,356.19	
50 89 88 80-0041 EA CALTRANS 802640 18' CHAIN LINK GATE (TYPE CL-6)	2,643.98	
50 89 88 80-0042 EA CALTRANS 802660 20' CHAIN LINK GATE (TYPE CL-6)	2,935.55	
50 89 88 80-0043 EA CALTRANS 802670 24' CHAIN LINK GATE (TYPE CL-6)	3,527.74	
50 89 88 80-0044 EA CALTRANS 802840 18' CHAIN LINK GATE (TYPE CL-7)	2,789.89	
50 89 88 80-0045 LF CALTRANS 802900 CHAIN LINK FENCE (TYPE CL-8, EXTENSION ARM)	46.12	
For Up To 100, Add	8.66	
For >100 To 250, Add	3.18	
For >2,500 To 5,000, Deduct	-1.59	
For >5,000, Deduct	-3.18	
50 89 88 80-0046 EA CALTRANS 802901 4' CHAIN LINK GATE (TYPE CL-8)	633.00	
50 89 88 80-0047 EA CALTRANS 802902 4' CHAIN LINK GATE (TYPE CL-8, EXTENSION ARM)	640.25	
50 89 88 80-0048 EA CALTRANS 802920 6' CHAIN LINK GATE (TYPE CL-8)	848.10	
50 89 88 80-0049 EA CALTRANS 802941 8' CHAIN LINK GATE (TYPE CL-8, EXTENSION ARM)	1,092.65	
50 89 88 80-0050 EA CALTRANS 803010 14' CHAIN LINK GATE (TYPE CL-10, VINYL_CLAD)	960.48	
50 89 88 80-0051 LF CALTRANS 803050 REMOVE CHAIN LINK FENCE	5.31	
For Up To 100, Add	1.33	
For >100 To 250, Add	0.53	
For >2,500 To 5,000, Deduct	-0.27	
For >5,000, Deduct	-0.53	
50 89 88 80-0052 EA CALTRANS 803060 REMOVE GATE	248.88	
50 89 88 80-0053 EA CALTRANS 803160 RESET GATE	1,206.53	
50 89 88 80-0054 LF CALTRANS 803180 RELOCATE CHAIN LINK FENCE	25.61	

50 89 89 CALTRANS DIVISION IX - TRAFFIC CONTROL DEVICES (50 89 80)**50 89 89 81 MISCELLANEOUS TRAFFIC CONTROL DEVICES (50 89 89)**

50 89 89 81-0001 EA CALTRANS 810120 REMOVE PAVEMENT MARKER	2.33	
For >100, Deduct	-0.23	
50 89 89 81-0002 EA CALTRANS 810220 PAVEMENT MARKER (NON-REFLECTIVE)	4.21	2.33
For >100, Deduct	-0.42	
For >100, Deduct	-0.42	
50 89 89 81-0003 EA CALTRANS 810230 PAVEMENT MARKER (RETROREFLECTIVE)	4.76	2.33
For >100, Deduct	-0.48	
For >100, Deduct	-0.48	
50 89 89 81-0004 EA CALTRANS 810250 PAVEMENT MARKER (RETROREFLECTIVE-RECESSED)	60.73	27.44



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 89 82 SIGNS AND MARKERS <small>(50 89 89)</small>						
	50 89 89 82-0001	EA		CALTRANS 820110 MILEPOST MARKER.....	152.54	
	50 89 89 82-0002	SF		CALTRANS 820750 FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED)	16.94	32.04
	50 89 89 82-0003	SF		CALTRANS 820760 FURNISH SINGLE SHEET ALUMINUM SIGN (0.080"-UNFRAMED)	17.54	20.74
50 89 89 83 RAILINGS AND BARRIERS <small>(50 89 89)</small>						
	50 89 89 83-0001	LF		CALTRANS 832006 MIDWEST GUARDRAIL SYSTEM (STEEL POST)	41.17	9.06
	50 89 89 83-0002	LF		CALTRANS 832007 MIDWEST GUARDRAIL SYSTEM (WOOD POST)	84.38	13.94
	50 89 89 83-0003	LF		CALTRANS 839303 SINGLE THRIE BEAM BARRIER (STEEL POST).....	64.24	2.54
	50 89 89 83-0004	LF		CALTRANS 839752 REMOVE GUARDRAIL.....	9.06	
50 89 89 84 MARKINGS <small>(50 89 89)</small>						
	50 89 89 84-0001	LF		CALTRANS 840505 6" THERMOPLASTIC TRAFFIC STRIPE	1.65	
				<i>For Up To 5,000 LF, Add</i>	0.33	
				<i>For >25,000 LF, Deduct</i>	-0.25	
	50 89 89 84-0002	LF		CALTRANS 840506 8" THERMOPLASTIC TRAFFIC STRIPE	2.17	
				<i>For Up To 5,000 LF, Add</i>	0.43	
				<i>For >25,000 LF, Deduct</i>	-0.33	
	50 89 89 84-0003	LF		CALTRANS 840507 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 8-4).....	1.00	
				<i>For Up To 5,000 LF, Add</i>	0.20	
				<i>For >25,000 LF, Deduct</i>	-0.15	
	50 89 89 84-0004	LF		CALTRANS 840508 8" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3).....	0.87	
				<i>For Up To 5,000 LF, Add</i>	0.17	
				<i>For >25,000 LF, Deduct</i>	-0.13	
	50 89 89 84-0005	SF		CALTRANS 840515 THERMOPLASTIC PAVEMENT MARKING	8.12	
	50 89 89 84-0006	SF		CALTRANS 840519 THERMOPLASTIC CROSSWALK AND PAVEMENT MARKING	8.12	
	50 89 89 84-0007	LF		CALTRANS 840522 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 6-1).....	0.59	
				<i>For Up To 5,000 LF, Add</i>	0.12	
				<i>For >25,000 LF, Deduct</i>	-0.09	
	50 89 89 84-0008	LF		CALTRANS 840528 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3).....	0.67	
				<i>For Up To 5,000 LF, Add</i>	0.13	
				<i>For >25,000 LF, Deduct</i>	-0.10	
	50 89 89 84-0009	LF		CALTRANS 840529 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12).....	0.78	
				<i>For Up To 5,000 LF, Add</i>	0.16	
				<i>For >25,000 LF, Deduct</i>	-0.12	
	50 89 89 84-0010	LF		CALTRANS 840530 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7).....	0.89	
				<i>For Up To 5,000 LF, Add</i>	0.18	
				<i>For >25,000 LF, Deduct</i>	-0.13	
	50 89 89 84-0011	LF		CALTRANS 840531 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 18-12).....	1.22	
				<i>For Up To 5,000 LF, Add</i>	0.24	
				<i>For >25,000 LF, Deduct</i>	-0.18	
	50 89 89 84-0012	LF		CALTRANS 840550 8" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12).....	1.02	
				<i>For Up To 5,000 LF, Add</i>	0.20	
				<i>For >25,000 LF, Deduct</i>	-0.15	
	50 89 89 84-0013	LF		CALTRANS 840583 6" TWO-COMPONENT PAINT TRAFFIC STRIPE	0.64	
				<i>For Up To 5,000 LF, Add</i>	0.13	
				<i>For >25,000 LF, Deduct</i>	-0.10	
	50 89 89 84-0014	LF		CALTRANS 840584 8" TWO-COMPONENT PAINT TRAFFIC STRIPE	0.79	
				<i>For Up To 5,000 LF, Add</i>	0.16	
				<i>For >25,000 LF, Deduct</i>	-0.12	
	50 89 89 84-0015	LF		CALTRANS 840610 8" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 12-3).....	0.46	
				<i>For Up To 5,000 LF, Add</i>	0.09	
				<i>For >25,000 LF, Deduct</i>	-0.07	
	50 89 89 84-0016	LF		CALTRANS 840612 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 6-1).....	0.42	
				<i>For Up To 5,000 LF, Add</i>	0.08	
				<i>For >25,000 LF, Deduct</i>	-0.06	
	50 89 89 84-0017	LF		CALTRANS 840614 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 12-3).....	0.45	
				<i>For Up To 5,000 LF, Add</i>	0.09	
				<i>For >25,000 LF, Deduct</i>	-0.07	
	50 89 89 84-0018	LF		CALTRANS 840616 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 36-12).....	0.36	
				<i>For Up To 5,000 LF, Add</i>	0.07	
				<i>For >25,000 LF, Deduct</i>	-0.05	
	50 89 89 84-0019	LF		CALTRANS 840618 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 17-7).....	0.45	
				<i>For Up To 5,000 LF, Add</i>	0.09	
				<i>For >25,000 LF, Deduct</i>	-0.07	
	50 89 89 84-0020	LF		CALTRANS 840620 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 18-12).....	0.51	
				<i>For Up To 5,000 LF, Add</i>	0.10	
				<i>For >25,000 LF, Deduct</i>	-0.08	
	50 89 89 84-0021	LF		CALTRANS 840622 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 8-4).....	0.45	
				<i>For Up To 5,000 LF, Add</i>	0.09	
				<i>For >25,000 LF, Deduct</i>	-0.07	
	50 89 89 84-0022	LF		CALTRANS 840624 8" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 36-12).....	0.56	
				<i>For Up To 5,000 LF, Add</i>	0.11	
				<i>For >25,000 LF, Deduct</i>	-0.08	
	50 89 89 84-0023	SF		CALTRANS 840637 TWO-COMPONENT PAINT PAVEMENT MARKING	6.85	
	50 89 89 84-0024	SF		CALTRANS 840651 PAINTED STALL LINES AND PAVEMENT MARKINGS	5.70	
	50 89 89 84-0025	LF		CALTRANS 840655 PAINT TRAFFIC STRIPE (1-COAT) - 4" Wide	0.28	
				<i>For Up To 5,000 LF, Add</i>	0.06	
				<i>For >25,000 LF, Deduct</i>	-0.04	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 89 84-0026 LF CALTRANS 840655 PAINT TRAFFIC STRIPE (1-COAT) - 6" Wide.....	0.37	
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.06	
50 89 89 84-0027 LF CALTRANS 840655 PAINT TRAFFIC STRIPE (1-COAT) - 8" Wide.....	0.46	
For Up To 5,000 LF, Add	0.09	
For >25,000 LF, Deduct	-0.07	
50 89 89 84-0028 LF CALTRANS 840656 PAINT TRAFFIC STRIPE (2-COAT) - 4" Wide.....	0.56	
For Up To 5,000 LF, Add	0.11	
For >25,000 LF, Deduct	-0.08	
50 89 89 84-0029 LF CALTRANS 840656 PAINT TRAFFIC STRIPE (2-COAT) - 6" Wide.....	0.70	
For Up To 5,000 LF, Add	0.14	
For >25,000 LF, Deduct	-0.11	
50 89 89 84-0030 LF CALTRANS 840656 PAINT TRAFFIC STRIPE (2-COAT) - 8" Wide.....	0.90	
For Up To 5,000 LF, Add	0.18	
For >25,000 LF, Deduct	-0.14	
50 89 89 84-0031 SF CALTRANS 840665 PAINT PAVEMENT MARKING (1-COAT).....	5.72	
50 89 89 84-0032 SF CALTRANS 840666 PAINT PAVEMENT MARKING (2-COAT).....	8.67	
50 89 89 84-0033 LF CALTRANS 846020 REMOVE PAINTED TRAFFIC STRIPE	1.87	
For Up To 250, Add	0.94	
For >250 To 1,000, Add	0.47	
For >5,000 To 10,000, Deduct	-0.28	
For >10,000 To 25,000, Deduct	-0.47	
For >25,000 To 50,000, Deduct	-0.65	
For >50,000, Deduct	-0.75	
50 89 89 84-0034 SF CALTRANS 846025 REMOVE PAINTED PAVEMENT MARKING.....	3.24	
For Up To 250, Add	1.62	
For >250 To 1,000, Add	0.81	
For >5,000 To 10,000, Deduct	-0.49	
For >10,000 To 25,000, Deduct	-0.81	
For >25,000 To 50,000, Deduct	-1.13	
For >50,000, Deduct	-1.30	
50 89 89 84-0035 LF CALTRANS 846030 REMOVE THERMOPLASTIC TRAFFIC STRIPE	2.85	
For Up To 250, Add	1.43	
For >250 To 1,000, Add	0.71	
For >5,000 To 10,000, Deduct	-0.43	
For >10,000 To 25,000, Deduct	-0.71	
For >25,000 To 50,000, Deduct	-1.00	
For >50,000, Deduct	-1.14	
50 89 89 84-0036 SF CALTRANS 846035 REMOVE THERMOPLASTIC PAVEMENT MARKING.....	4.13	
For Up To 250, Add	2.07	
For >250 To 1,000, Add	1.03	
For >5,000 To 10,000, Deduct	-0.62	
For >10,000 To 25,000, Deduct	-1.03	
For >25,000 To 50,000, Deduct	-1.45	
For >50,000, Deduct	-1.65	

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